

State Energy Consumption Estimates 1960 Through 2007





2007 Consumption Summary Tables

Table S1. Energy Consumption Estimates by Source and End-Use Sector, 2007 (Trillion Btu)

						Sources						End-Us	se Sectors a	
					Nuclear	Hydro-	Biomass	Geo- thermal, Solar/PV,	Net Interstate Flow of					
State	Total Energy ^b	Coal	Natural Gas ^c	Petroleum ^d	Electric Power	electric Power ^e	Wood and Waste ^f	and Wind ^g	Electricity/ Losses ^h	Other i	Residential	Commercial	Industrial b	Transportation
Alabama	2,132.0	888.4	431.4	626.4	360.0	40.9	189.3	0.2	-404.5	0.0	405.5	280.6	941.6	504.4
Alaska	723.6	13.0	371.8	324.1	0.0	12.8	1.7	0.1	0.0	(s)	54.4	62.4	356.3	250.5
Arizona	1,577.8	438.5	402.1	595.4	280.9	65.2	16.4	4.1	-224.7	(s) 0.0	430.1	368.5	231.7	547.4
Arkansas	1,149.3	275.0	228.0	386.9	162.4	32.0	84.9	0.6	-20.4		228.6	161.9	463.7	295.2
California	8,491.5	66.4	2,440.4	3,946.3	375.4	270.1	145.5	357.5	871.2	18.8		1,613.9	1,955.7	3,386.8 446.3
Colorado	1,479.3	388.5	515.9	525.4	0.0	17.1	13.2	13.7	12.5	-7.0	342.9	291.1	399.0	446.3
Connecticut	870.7	39.9	184.1	396.8	171.9	3.6	22.7	1.0	45.4	5.1	276.5	218.5	115.2	260.5
Delaware	302.0	63.8	49.8	135.8	0.0	0.0	2.1	0.3	50.3	(s)	66.8	58.4	101.1	75.7
Dist. of Col.	187.2	0.5	33.9	22.5	0.0	0.0	1.1	(s) 38.9	129.3	0.0		124.6	4.0	21.5
Florida	4,601.9 3,133.0	720.8 934.7	950.3 453.9	1,983.5	307.2	1.5 22.1	162.6 186.4	38.9 0.6	437.2	0.0		1,089.2	558.9	1,614.3 935.5
Georgia Hawaii	343.7	19.1	3.0	1,100.2 306.3	341.3 0.0	0.9	8.0	9.2	93.9 0.0	(s) -2.8	744.4 37.7	565.7 42.4	887.4 68.3	195.3
Idaho	529.6	10.2	83.9	165.8	0.0	89.2	26.6	3.3	150.7	0.2		83.6	186.9	136.9
Illinois	4.043.2	1,090.3	979.3	1,418.1	1,004.0	1.5		9.0	-500.2	-11.2	997.1	780.1	1,202.5	1,063.5
Indiana	2,904.0	1,574.5	548.1	877.7	0.0	4.4	39.1	2.9	-138.8	-3.9		360.1	1,345.8	646.6
lowa	1,235.2	464.4	261.9	441.6	47.4	9.5	36.0	28.1	-21.6	-32.0		192.4	492.2	316.0
Kansas	1,136.2	396.3	291.6	424.5	108.8	0.1	9.8	12.1	-107.0	(s)	226.0	202.5	426.0	281.7
Kentucky	2,023.0	1,020.4	236.0	747.4	0.0	16.5	30.4	1.7	-29.1	(s) -0.1	372.6	260.9	891.6	497.9
Louisiana	3,766.2	249.8	1,423.1	1,599.9	179.1	8.2	141.2	1.2	163.8	0.0	356.4	292.3	2,403.8	713.8
Maine	455.6	6.6	47.9	235.6	0.0	36.9	115.5	1.2	0.4	11.5		75.7	146.7	126.5
Maryland	1,488.7	327.8	208.5	557.3	150.5	16.3	30.2	0.4	197.8	-0.3		416.4	184.0	462.7
Massachusetts	1,514.6	120.1	417.3	684.6	53.7	7.9	35.1	0.8	192.5	2.5	443.1	384.0	195.6	491.7
Michigan	3,026.9	799.9	847.8	987.3	330.5	12.6		3.6	-36.7	-4.1	786.0	624.5	818.6	797.9
Minnesota	1,874.6	366.0	396.5	706.2	137.4	6.5	65.3	26.9	146.4	23.3		351.9	578.4	530.8
Mississippi	1,239.5	184.9	374.9	470.9	98.2	0.0	63.9	0.6	46.0	0.0	234.4	175.0	454.1	375.9
Missouri	1,964.1 462.1	802.4 202.5	277.6	758.9 210.6	98.3 0.0	11.9 92.6	20.5 15.9	0.2	-5.7 -139.4	-0.1	521.1 79.4	406.8 68.3	428.9	607.3 128.1
Montana	692.9	202.5	75.0 146.4	235.1	115.8	92.6 3.4	10.3	5.2 3.0	-139.4	-0.2		136.0	186.4 224.2	178.3
Nebraska Nevada	777.4	82.9	263.6	292.6	0.0	3. 4 19.8	6.7	29.2	-37.9 81.5	(s) 1.0	154.5 183.3	134.2	201.4	258.5
New Hampshire	314.2	44.9	64.6	169.6	112.9	12.5	20.5	0.1	-112.9	2.1	92.2	70.4	44.6	107.1
New Jersey	2,743.7	111.8	640.7	1,373.3	335.7	0.2		2.6	257.5	-0.4		639.1	452.1	1,037.0
New Mexico	710.7	296.1	240.3	284.8	0.0	2.6	5.7	14.7	-133.5	-0.1	114.3	124.9	251.9	219.6
New York	4.064.3	257.5	1,218.9	1,633.4	445.2	249.6		10.4	105.8	38.5		1,257.4	504.6	1,100.5
North Carolina	2,700.0	827.8	245.2	970.8	420.0	29.5	83.5	0.8	122.5	0.0		573.5	643.7	766.9
North Dakota	428.1	420.1	63.0	142.7	0.0	12.9	3.8	6.7	-220.4	-0.8		60.9	198.8	104.5
Ohio	4,048.9	1,461.7	836.3	1,357.0	165.3	4.1	51.3	2.4	170.5	0.4		707.8	1,347.8	1,037.8
Oklahoma	1,608.5	373.2	690.6	578.0	0.0	30.3	26.2	18.3	-108.2	0.0		250.3	588.3	463.8
Oregon	1,108.2	45.3	258.2	384.7	0.0	332.0	47.1	14.8	21.8	4.2		209.4	284.2	347.0
Pennsylvania	4,006.2	1,490.7	781.7	1,455.6	811.5	22.1	74.0	6.7	-636.2	0.1	966.6	718.9	1,288.8	1,031.8
Rhode Island	217.6	(s)	90.8	91.5	0.0	(s)	3.7	(s) 0.4	30.0	1.4		57.6	23.5	64.6
South Carolina	1,692.3	444.0	180.3	576.5	558.0	15.4	80.6	0.4	-162.8	(s)	359.0	263.5	620.9	448.9
South Dakota	292.2	33.2	54.1	121.3	0.0	28.8	2.1	2.4	50.2	(s) 0.0	66.0	58.7	74.8	92.7
Tennessee	2,330.5	672.4 1,609.1	229.7 3,641.4	827.1 5,886.9	301.0 429.5	48.8	54.1 85.6	0.7 91.2	196.7		546.2 1,594.1	386.7 1,381.6	740.1 5,950.9	657.5 2,907.9
Texas Utah	11,834.5 805.5	391.3	3,641.4	305.6	429.5	16.3 5.3	6.2	4.2	75.4 -139.2	-0.8 -0.1	1,594.1	1,381.6	5,950.9	2,907.9
Vermont	162.1	(s)	232.2 8.9	87.5	49.3	6.4	8.6	0.2	-139.2	8.5		31.2	224.9	54.0
Virginia	2,610.9	457.9	332.7	1,016.6	286.0	12.3	100.3	1.6	403.6	-0.1	628.4	600.5	567.4	814.5
Washington	2,010.9	95.7	279.7	846.8	85.0	779.1	82.5	25.0	-115.5	-11.1	490.1	383.9	521.0	672.2
West Virginia	850.5	983.0	122.6	288.7	0.0	12.4	5.0	1.7	-563.0	0.0		111.5	396.1	179.2
Wisconsin	1,846.3	464.9	403.9	619.5	135.4	15.0	84.8	1.7	121.1	(s)	419.0	356.8	623.5	446.9
Wyoming	496.4	494.8	117.6	176.2	0.0	7.2		8.1	-309.0	-0.2	45.8	60.3	263.4	126.9
United States	101,468.0	22,739.9	23,677.6	40,358.1	8,457.8	2,446.4	2,572.5	770.2	0.0	420.4	21,604.3	18,278.7	32,494.1	29,091.0

indicates that more electricity (including associated losses) came into the State than went out of the State during

the year.

Includes: net imports of electricity; energy losses and co-products from the production of fuel ethanol (U.S. only); and adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the Where shown, (s) = Value less than +0.05 and greater than -0.05.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

a End-use sector data include electricity sales and associated electrical system energy losses.
 b U.S. total energy and U.S. industrial sector include 25.2 trillion Btu of net imports of coal coke that is not allocated to the States.

<sup>Conventional hydroelectric power.

Conventional hydroelectric power.

Does not include pumped-storage hydroelectricity.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.</sup>

⁹ Geothermal, solar thermal, photovoltaic, and wind energy.

h Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

Table S2. Energy Consumption Estimates for Major Energy Sources in Physical Units, 2007

						Petroleum					Ukadaa
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e
State	Million Short Tons	Billion Cubic Feet				Million Barrels				Billi Kilowati	
Alabama	40.4	420.4	29.3	2.3	3.9	64.3	2.2	13.1	115.1	34.3	4.1
Alaska	0.8	370.0	13.5	29.1	0.2	6.9	0.7	6.6	57.0	0.0	1.3
Arizona	21.9	393.0	26.3	6.6	1.6	70.0	(s)	5.2	109.7	26.8	6.6
Arkansas	16.0	226.4	24.1	1.2	2.7	35.0	0.1	8.1	71.2	15.5	3.2
California	2.8	2,394.9	99.0	110.8	11.5	380.8	39.7	76.5	718.3	35.8	27.3
Colorado	19.8	504.8	19.7	13.5	6.0	52.2	0.0	6.3	97.8	0.0	1.7
Connecticut	1.9	180.2	24.3	2.1	3.4	37.9	2.8	2.7	73.1	16.4	0.4
Delaware	2.6	47.9	3.0	0.1	1.1	11.0	2.1	7.3	24.7	0.0	0.0
Dist. of Col	(s)	33.0	1.0	0.0	(s) 6.3	3.1	0.0	0.1	4.2	0.0	0.0
Florida	29.9	917.2	55.9	31.2	6.3	208.7	38.8	20.5	361.3	29.3	0.2
Georgia	42.3	441.1	45.6	6.7	5.7	121.1	7.0	16.6	202.7	32.5	2.2
Hawaii	0.9	2.9	9.3	12.8	0.4	11.3	16.3	2.8	52.9	0.0	0.1
Idaho	0.5	81.9	10.0	0.9	1.7	16.2	(s)	1.8	30.6	0.0	9.0
Illinois	61.1	965.8	49.3	29.6	21.1	124.3	0.1	39.9	264.3	95.7	0.2
Indiana	72.8	535.8	43.2	7.4	7.5	76.6	0.6	25.5	160.7	0.0	0.4
lowa	26.3	259.3	22.9	0.9	16.9	40.3	(s)	5.4	86.3	4.5	1.0
Kansas	23.0	286.4	19.4	1.5	17.6	32.0	0.5	11.7	82.6	10.4	(s) 1.7
Kentucky	43.7	229.8	33.5	8.0	9.8	54.1	0.1	31.7	137.3	0.0	1.7
Louisiana	15.5	1,377.6	32.7	22.4	56.4	57.9	15.8	116.9	302.2	17.1	0.8
Maine	0.3	44.6	15.9	1.8	2.8	16.8	4.1	1.7	43.0	0.0	3.7 1.7
Maryland	13.1	201.1	21.7	3.5	2.8	66.3	2.4	6.3	103.0	14.4	1.7
Massachusetts	5.2	408.8	32.5	8.2	3.4	70.6	7.0	4.0	125.8	5.1	0.8
Michigan	39.6	828.8	29.4	5.3	16.2	116.1	1.8	18.8	187.5	31.5	1.3
Minnesota	20.6	388.7	27.3	11.3	10.4	64.6	1.3	16.0	131.0	13.1	0.7
Mississippi	10.0	364.0	22.9	4.4	3.1	40.5	1.4	13.2	85.5	9.4	0.0
Missouri	45.4	272.4	34.4	6.3	10.6	77.8	(s)	12.8	141.9	9.4	1.2
Montana	12.0	73.8	13.9	1.0	3.0	12.1	0.0	8.3	38.2	0.0	9.4
Nebraska	12.7	143.8	17.2	1.0	3.5	20.3	0.1	1.6	43.7	11.0	0.3
Nevada	3.7	254.5	13.4	9.2	0.9	28.4	(s)	1.6	53.6	0.0	2.0
New Hampshire	1.6	62.1	8.2	0.2	3.3	17.7	1.4	1.3	32.0	10.8	1.3
New Jersey	4.7	619.1	39.6	36.5	2.8	106.1	19.8	42.2	247.0	32.0	(s) 0.3
New Mexico	16.0	234.0	15.6	1.9	7.3	22.9	0.2	5.8	53.8	0.0	0.3
New York	11.0	1,190.3	78.8	20.0	7.3	139.1	29.0	21.1	295.4	42.5	25.3
North Carolina	33.6	237.4	35.5	7.2	12.1	107.9	3.8	15.8	182.1	40.0	3.0
North Dakota	31.3	60.2	11.9	0.7	3.0	8.6	0.1	2.0	26.4	0.0	1.3
Ohio	63.8	806.5	57.9	18.1	9.0	124.1	0.9	38.5	248.5	15.8	0.4
Oklahoma	21.3	658.4	33.8	5.3	3.7	45.4	0.3	16.2	104.6	0.0	3.1
Oregon	2.7	251.9	18.8	5.6	1.1	37.8	2.5	4.1	70.0	0.0	33.6
Pennsylvania	65.6	752.3	70.2	15.5	13.3	124.0	6.6	36.9	266.5	77.4	2.2
Rhode Island	(s) 17.8	88.0	5.8	0.3	0.4	9.7	0.4	0.2	16.9	0.0	(s) 1.6
South Carolina		173.8	21.9	1.9	2.9	61.3	3.2	15.0	106.2	53.2	1.6
South Dakota	2.0	53.9	7.8	0.9	2.4	10.3	(s)	1.2	22.7	0.0	2.9
Tennessee	30.4 104.8	221.1 3,542.2	35.3 144.5	13.8	4.1 433.3	76.1	0.2	22.0 231.5	151.4	28.7 41.0	4.9 1.6
Texas				75.4		290.6	32.7		1,208.0		0.5
Utah	17.5	219.7	15.9	7.1	1.5	26.1	0.3	4.8	55.7	0.0	0.6
Vermont	(s) 18.1	8.9 319.9	4.9 44.6	0.3 19.0	2.2	8.4 99.0	0.2 5.1	0.7 13.8	16.7 186.8	4.7 27.3	0.6 1.2
Virginia	18.1 5.8	319.9 272.6	44.6 30.5	19.0 20.5	5.2 2.7	99.0 65.9	5.1 10.0	13.8 22.7	186.8 152.2	27.3 8.1	78.8
Washington	5.8 40.7	114.3	30.5 14.7	20.5 0.2	1.2	20.2	10.0	15.0	152.2 52.4	0.0	
West Virginia			14.7 28.1				0.8				1.3
Wisconsin	25.6 28.4	398.4 113.3	28.1 16.3	2.2 0.4	10.4 1.5	62.3 8.5	0.8	12.4 4.9	116.2 31.6	12.9 0.0	1.5 0.7
Wyoming											
United States	1,127.6	23,047.2	1,531.5	592.2	761.0	3,389.3	263.9	1,010.5	7,548.3	806.4	247.5

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.
 c Includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. Does not include pumped-storage hydroelectricity. Where shown, (s) = Value less than 0.05. Note: Totals may not equal sum of components due to independent rounding. Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table S3. Energy Consumption Estimates by Source, 2007 (Trillion Btu)

						Petroleum						Biomass	Geo-	Net		
State	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood and Waste ^f	thermal, Solar/PV, and Wind ⁹	Interstate Flow of Electricity/ Losses ⁿ	Other ⁱ	Total ^j
Alabama	888.4	431.4	170.6	13.2	14.1	335.6	13.6	79.4	626.4	360.0	40.9	189.3	0.2	-404.5	0.0	2,132.0
Alaska	13.0	371.8	78.8	164.7	0.7	36.2	4.6	39.0	324.1	0.0	12.8	1.7	0.1	0.0	(s)	723.6
Arizona	438.5	402.1	153.4	37.5	5.6	365.4	0.1	33.4	595.4	280.9	65.2	16.4	4.1	-224.7	(s)	1,577.8
Arkansas California	275.0 66.4	228.0 2,440.4	140.2 576.8	7.0 628.2	9.9 41.3	182.5 1,987.3	0.9 249.5	46.6 463.2	386.9 3,946.3	162.4 375.4	32.0 270.1	84.9 145.5	0.6 357.5	-20.4 871.2	0.0 18.8	1,149.3 8,491.5
Colorado	388.5	515.9	115.0	76.7	21.5	272.6	0.0	39.5	525.4	0.0	17.1	13.2	13.7	12.5	-7.0	1,479.3
Connecticut	39.9	184.1	141.4	11.7	12.1	197.8	17.6	16.3	396.8	171.9	3.6	22.7	1.0	45.4	5.1	870.7
Delaware	63.8	49.8	17.7	0.6	4.0	57.6	13.4	42.5	135.8	0.0	0.0	2.1	0.3	50.3	(s)	302.0
Dist. of Col Florida	0.5 720.8	33.9 950.3	6.0 325.5	0.0 176.7	(s) 22.5	16.0 1.089.4	0.0 243.8	0.5 125.6	22.5 1.983.5	0.0 307.2	0.0 1.5	1.1 162.6	(s) 38.9	129.3 437.2	0.0 0.0	187.2 4.601.9
Georgia	934.7	453.9	265.8	38.1	20.6	631.9	44.2	99.6	1,100.2	341.3	22.1	186.4	0.6	93.9	(s)	3,133.0
Hawaii	19.1	3.0	54.1	72.3	1.5	59.2	102.6	16.5	306.3	0.0	0.9	8.0	9.2	0.0	-2.8	343.7
Idaho	10.2	83.9	58.3	5.1	_6.0	84.4	0.2	11.7	165.8	0.0	89.2	26.6	3.3	150.7	0.2	529.6
Illinois	1,090.3	979.3	287.1	167.7	75.8	648.6	0.8	238.1	1,418.1	1,004.0	1.5	52.3	9.0 2.9	-500.2 -138.8	-11.2	4,043.2 2.904.0
Indiana Iowa	1,574.5 464.4	548.1 261.9	251.4 133.2	42.2 5.1	26.8 60.7	399.8 210.1	3.8 0.3	153.6 32.3	877.7 441.6	0.0 47.4	4.4 9.5	39.1 36.0	2.9	-138.8	-3.9 -32.0	1,235.2
Kansas	396.3	291.6	113.0	8.7	63.2	166.9	2.9	69.8	424.5	108.8	0.1	9.8	12.1	-107.0	(s)	1,136.2
Kentucky	1,020.4	236.0	195.0	45.2	35.3	282.5	0.7	188.6	747.4	0.0	16.5	30.4	1.7	-29.1	(s) -0.1	2,023.0
Louisiana	249.8	1,423.1	190.3	127.1	202.7	302.0	99.6	678.2	1,599.9	179.1	8.2	141.2	1.2	163.8	0.0	3,766.2
Maine Maryland	6.6 327.8	47.9 208.5	92.5 126.4	10.0 20.0	10.1 10.2	87.5 345.8	25.6 15.4	9.9 39.5	235.6 557.3	0.0 150.5	36.9 16.3	115.5 30.2	1.2 0.4	0.4 197.8	11.5 -0.3	455.6 1,488.7
Massachusetts	120.1	417.3	189.5	46.7	12.1	368.7	44.1	23.6	684.6	53.7	7.9	35.1	0.4	192.5	2.5	1,514.6
Michigan	799.9	847.8	171.1	29.9	58.2	605.7	11.2	111.2	987.3	330.5	12.6	86.0	3.6	-36.7	-4.1	3,026.9
Minnesota	366.0	396.5	159.2	63.9	37.4	337.3	8.5	99.9	706.2	137.4	6.5	65.3	26.9	146.4	23.3	1,874.6
Mississippi	184.9	374.9 277.6	133.4	24.8	11.1	211.5	9.1	81.0	470.9	98.2 98.3	0.0	63.9 20.5	0.6 0.2	46.0	0.0	1,239.5
Missouri Montana	802.4 202.5	75.0	200.2 80.8	35.9 5.8	38.0 10.7	406.1 63.0	0.2	78.5 50.2	758.9 210.6	0.0	11.9 92.6	15.9	5.2	-5.7 -139.4	-0.1 -0.2	1,964.1 462.1
Nebraska	216.8	146.4	100.4	5.5	12.7	106.1	0.4	9.9	235.1	115.8	3.4	10.3	3.0	-37.9	(s)	692.9
Nevada	82.9	263.6	78.2	52.2	3.3	148.3	0.1	10.5	292.6	0.0	19.8	6.7	29.2	81.5	1.0	777.4
New Hampshire	44.9	64.6	47.9	0.9	11.9	92.4	8.7	7.8	169.6	112.9	12.5	20.5	0.1	-112.9	2.1	314.2
New Jersey New Mexico	111.8 296.1	640.7 240.3	230.9 91.1	207.2 11.0	9.9 26.2	553.6 119.7	124.4 1.0	247.4 35.8	1,373.3 284.8	335.7 0.0	0.2 2.6	22.2 5.7	2.6 14.7	257.5 -133.5	-0.4 -0.1	2,743.7 710.7
New York	257.5	1.218.9	459.3	113.3	26.4	726.2	182.2	126.1	1.633.4	445.2	249.6	105.0	10.4	105.8	38.5	4.064.3
North Carolina	827.8	245.2	206.7	40.6	43.4	563.0	23.6	93.5	970.8	420.0	29.5	83.5	0.8	122.5	0.0	2,700.0
North Dakota	420.1	63.0	69.5	4.0	10.9	45.1	0.6	12.6	142.7	0.0	12.9	3.8	6.7	-220.4	-0.8	428.1
Ohio	1,461.7	836.3	337.0 196.7	102.9	32.4	647.7	5.7 2.0	231.3	1,357.0 578.0	165.3 0.0	4.1	51.3 26.2	2.4	170.5	0.4 0.0	4,048.9 1,608.5
Oklahoma Oregon	373.2 45.3	690.6 258.2	196.7	30.0 31.9	13.1 3.8	236.9 197.3	16.0	99.2 25.9	384.7	0.0	30.3 332.0	26.2 47.1	18.3 14.8	-108.2 21.8	4.2	1,608.5
Pennsylvania	1,490.7	781.7	409.0	87.9	47.8	647.0	41.6	222.3	1,455.6	811.5	22.1	74.0	6.7	-636.2	0.1	4,006.2
Rhode Island	(s)	90.8	33.7	1.9	1.5	50.8	2.6	1.1	91.5	0.0	(s)	3.7	(s)	30.0	1.4	217.6
South Carolina	444.0	180.3	127.5	10.7	10.3	320.1	20.3	87.8	576.5	558.0	15.4	80.6	0.4	-162.8	(s) (s)	1,692.3
South Dakota Tennessee	33.2 672.4	54.1 229.7	45.4 205.7	5.0 78.3	8.6 14.6	53.9 397.0	0.2 1.1	8.1 130.3	121.3 827.1	0.0 301.0	28.8 48.8	2.1 54.1	2.4 0.7	50.2 196.7	(s) 0.0	292.2 2.330.5
Texas	1,609.1	3,641.4	842.0	427.6	1,555.9	1,516.7	205.4	1,339.3	5,886.9	429.5	16.3	85.6	91.2	75.4	-0.8	11,834.5
Utah	391.3	232.2	92.9	40.2	5.2	136.0	1.9	29.4	305.6	0.0	5.3	6.2	4.2	-139.2	-0.1	805.5
Vermont	(s)	8.9	28.6	1.8	7.7	43.6	1.5	4.2	87.5	49.3	6.4	8.6	0.2	-7.2	8.5	162.1
Virginia	457.9 95.7	332.7 279.7	259.7 177.5	107.9 116.0	18.8 9.6	516.8 343.9	32.3 62.8	81.1 137.1	1,016.6 846.8	286.0 85.0	12.3 779.1	100.3 82.5	1.6 25.0	403.6 -115.5	-0.1 -11.1	2,610.9 2.067.2
Washington West Virginia	95.7	122.6	177.5 85.9	116.0	9.6 4.2	343.9 105.5	6.3	137.1 85.5	288.7	0.0	12.4	82.5 5.0	25.0	-115.5 -563.0	-11.1	2,067.2 850.5
Wisconsin	464.9	403.9	163.6	12.6	37.2	325.0	5.0	76.0	619.5	135.4	15.0	84.8	1.7	121.1	(s)	1,846.3
Wyoming	494.8	117.6	95.1	2.1	5.3	44.5	0.5	28.8	176.2	0.0	7.2	1.6	8.1	-309.0	-0.2	496.4
United States	22,739.9	23,677.6	8,921.0	3,357.6	2,732.8	17,688.6	1,658.9	5,999.1	40,358.1	8,457.8	2,446.4	2,572.5	770.2	0.0	420.4	101,468.0

a Includes supplemental gaseous fuels.

indicates that more electricity (including associated losses) came into the State than went out of the State during the

b Liquefied petroleum gases.

c Includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

<sup>Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number</sup>

Includes: net imports of electricity; energy losses and co-products from the production of fuel ethanol (U.S. only); and adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

J.U.S. total includes 25.2 trillion Btu of net imports of coal coke that has not been allocated to the States.

Where shown, (s) = Value less than +0.05 and greater than -0.05.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under_"Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table S4. Residential Sector Energy Consumption Estimates, 2007 (Trillion Btu)

				Petrol	eum		Biomass					Electrical	
State	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c	Geothermal	Solar/PV d	Retail Electricity Sales	Net Energy ^e	System Energy Losses ^f	Total ^e
Alabama	(s)	36.2	(s)	0.2	7.4	7.6	8.3	0.1	0.1	111.9	164.1	241.3	405.5
Alaska	0.7	19.9	8.5	0.9	0.6	10.0	1.4	0.1	(s)	7.2	39.3	15.1	54.4
Arizona	(s)	39.3	(s) (s)	(s)	3.0	3.1	13.0	(s) 0.5	3.7	117.5	176.6	253.5	430.1
Arkansas	(s)	32.7	(s)	(s)	4.9	5.0	2.7		0.1	59.4	100.4	128.2	228.6
California	0.0	498.5 133.2	0.6	0.9	27.0 10.6	28.4 10.7	26.0	0.2 0.2	21.6 0.3	304.2 60.2	878.8 213.1	656.4 129.8	1,535.2 342.9
Colorado Connecticut	(s)	44.6	(s) 75.9	(s) 0.7	5.5	82.2	10.6 4.6		1.0	45.6	178.1	98.4	342.9 276.5
Delaware	(s)	10.4	3.7	0.7	2.8	6.8	1.3	(s) 0.2	(s)	15.3	33.9	32.9	66.8
Dist. of Col	(s)	13.7	1.2	0.0	(s)	1.2	0.9	0.0	(s)	6.7	22.6	14.5	37.1
Florida	(s)	16.3	0.3	0.1	13.7	14.2	2.2	4.6	33.0	402.0	472.2	867.3	1,339.5
Georgia	(s)	114.7	0.2	0.2	10.5	10.9	12.6	0.2	0.3	191.8	330.5	413.9	744.4
HawaiiIdaho	0.0 0.1	0.5 24.0	(s) 1.4	(s) (s)	1.1 3.7	1.1 5.2	0.0 3.1	0.0 0.1	2.0 (s)	10.9 28.5	14.1 60.9	23.7 61.4	37.7 122.3
Illinois	0.3	438.9	0.9	0.3	18.4	19.6	23.5	1.2	1.3	163.9	643.5	353.6	997.1
Indiana	0.4	145.9	2.8	0.7	14.7	18.2	12.5	2.2	0.1	118.2	296.4	255.1	551.5
lowa	0.7	68.4	1.3	0.1	14.9	16.3	6.2	0.3	(s) (s)	48.0	131.0	103.5	234.5
Kansas	0.0	64.2	(s)	(s)	7.3	7.3	5.6	0.1	(s)	47.1	124.4	101.6	226.0
Kentucky Louisiana	0.3 (s)	52.9 38.1	1.4 (s)	0.6 (s)	7.2 2.3	9.2 2.4	7.4 4.2	1.1 0.5	0.1 0.1	95.5 98.5	166.5 143.8	206.2 212.6	372.6 356.4
Maine	(s)	1.3	42.2	5.4	7.7	55.3	2.2	(s)	0.1	15.1	74.1	32.5	106.6
Maryland	0.1	86.5	19.5	1.3	6.6	27.3	7.6	0.3	0.1	96.2	218.0	207.6	425.6
Massachusetts	0.1	116.2	92.5	0.9	7.5	100.9	8.8	(s)	0.3	68.7	294.9	148.2	443.1
Michigan	0.4	336.5	8.0	0.5	36.1	44.6	20.4	2.5	0.6	120.7	525.6	260.4	786.0
Minnesota	0.1 0.0	131.6 22.8	9.0	0.1 0.1	17.4 6.6	26.4 6.7	10.6	0.6	0.2	77.3 63.3	246.8	166.7 136.7	413.5 234.4
Mississippi Missouri	0.0	103.5	(s) 0.8	0.1	17.1	18.2	4.9 12.2	(s) 0.2	(s) (s)	122.4	97.8 257.0	264.1	234.4 521.1
Montana	(s)	20.0	1.1	(s)	7.0	8.2	2.2	0.1	(s)	15.5	46.0	33.4	79.4
Nebraska	(s)	39.3	0.3	(s)	6.0	6.3	3.6	0.2	(s)	33.3	82.7	71.8	154.5
Nevada	(s)	39.9	0.9	0.1	2.2	3.2	5.3	0.2	1.2	42.3	92.1	91.2	183.3
New Hampshire New Jersey	(s)	7.5 236.1	23.7 43.8	1.7 0.4	8.9 5.8	34.3 50.1	1.9 6.6	(s) 0.3	0.1 2.1	15.3 101.5	59.1 396.5	33.1 219.0	92.2 615.5
New Mexico	(S)	34.3	43.0 (s)	(s)	6.5	6.5	4.3		0.2	21.8	67.2	47.0	114.3
New York	0.3	406.8	175.3	7.5	18.5	201.3	50.5	(s) 0.2	1.4	171.4	831.9	369.9	1,201.8
North Carolina	0.1	60.5	11.5	4.8	20.6	36.9	13.2	0.6	0.2	191.4	302.9	413.0	715.9
North Dakota	0.4	11.2	2.7	(s)	5.4	8.2	1.4	0.3	(s)	13.9	33.9	29.9	63.8
Ohio Oklahoma	0.3	310.7 63.7	14.6 0.2	1.4 (s)	18.3 8.6	34.3 8.9	22.9 3.4	1.5	0.2	185.5 72.9	555.3 148.9	400.3 157.3	955.6 306.2
Oregon	(s) 0.0	43.7	3.2	(s)	2.3	5.6	7.8	(s) 0.3	(s) 1.4	66.1	124.9	142.6	267.6
Pennsylvania	1.6	240.8	99.8	5.4	19.1	124.3	10.3	0.8	0.8	186.3	564.7	401.9	966.6
Rhode Island	(s)	18.4	17.3	0.1	0.9	18.3	1.5	(s)	(s)	10.7	48.9	23.1	71.9
South Carolina	(s)	25.4	1.0	1.1	6.1	8.2	6.5	0.4	(s)	100.9	141.3	217.7	359.0
South Dakota	(s) 0.2	12.4 63.1	1.0 0.7	(s) 1.2	4.8 8.4	5.8 10.3	1.6 10.5	0.2 0.1	(s)	14.5 146.3	34.6 230.5	31.4 315.7	66.0 546.2
Tennessee Texas	(s)	205.9	(s)	0.1	22.3	22.4	18.4	0.1	(s) 0.7	426.2	674.5	919.6	1,594.1
Utah	(s)	64.4	0.2	(s)	2.9	3.1	4.5	(s)	0.1	29.9	102.0	64.4	166.4
Vermont	(s)	3.2	12.6	1.4	5.9	19.9	1.0	(s)	0.1	7.4	31.6	16.0	47.5
Virginia	0.2	84.5	25.4	4.2	12.5	42.1	10.6	0.5	0.6	155.2	293.6	334.8	628.4
Washington	(s) 0.1	82.3 28.5	6.4 1.9	0.1 0.7	6.6 2.8	13.1 5.4	13.3	0.1	0.1 0.1	120.7 40.1	229.6 77.1	260.5 86.5	490.1 163.6
West Virginia Wisconsin	0.1	132.9	11.5	0.7	2.8	32.9	2.9 11.5	(s) 0.4	0.1	76.3	254.3	86.5 164.7	419.0
Wyoming	0.1	12.9	0.2	(s)	3.5	3.7	1.2	(s)	(s)	8.8	26.7	19.1	45.8
United States	7.2	4,839.2	726.1	43.9	481.5	1,251.5	430.0	22.0	74.9	4,750.3	11,355.3	10,249.0	21,604.3

a Includes supplemental gaseous fuels.
 b Liquefied Petroleum Gases.

^c Wood and wood-derived fuels.

d Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for explanation of estimation methodology.

^e Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

f Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table S5. Commercial Sector Energy Consumption Estimates, 2007 (Trillion Btu)

					Petrol	eum				Biomass				Electrical	
State	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Total d	Hydro- electric Power ^e	Wood and Waste ^f	Geothermal	Retail Electricity Sales	Net Energy ^g	System Energy Losses ^h	Total ^g
A1.1	()	20.0	7.4		4.0		0.0		0.0	4.0	2.2	70.0	440.0	100.1	200.0
Alabama	(s) 6.1	23.9 18.8	7.4 5.7	(s) 0.6	1.3 0.1	0.2 0.9	0.0 0.0	8.9 7.3	0.0 0.0		0.0	78.0 9.7	112.2	168.4	280.6 62.4
Alaska Arizona	(s)	33.5	3.7	(s)	0.1	0.9	0.0	4.5	0.0	2.1	(s) (s)	104.0	42.2 144.2	20.2 224.4	368.5
Arkansas	(s)	32.2	0.5	0.1	0.9	0.2	0.0	2.1	0.0	0.5	0.0	40.3	75.0	86.9	161.9
California	0.0	254.0	10.7	0.2	4.8	1.5	0.0	17.1	0.1	9.4	0.6	422.0	703.3	910.6	1,613.9
Colorado	0.2	64.3	2.6	(s)	1.9	0.2	0.0	4.7	0.0	1.7	0.2	70.0	140.1	151.0	291.1
Connecticut	0.1	37.0	15.2	0.2	1.0	0.2	1.2	17.8	0.0	0.7	0.0	51.6	107.2	111.4	218.5
Delaware	(s)	9.0	1.4	0.1	0.5	(s)	0.7	2.6	0.0	0.2	0.0	14.7	26.6	31.8	58.4
Dist. of Col	0.4	19.6	1.8	(s)	(s) 2.4	0.1	0.0	1.9	0.0	0.1	0.0	32.5	54.5	70.1	124.6
Florida	(s)	55.2	13.4	0.1		3.5	0.3	19.7	0.0	0.9	1.3	320.5	397.7	691.5	1,089.2
Georgia	(s)	50.2	4.9	0.1	1.9	0.4	0.0	7.2	0.0		(s)	160.4	219.7	346.0	565.7
Hawaii	0.0	1.9	1.6	(s)	0.2	0.1	(s) 0.0	1.9	0.0	2.3	(s)	12.0	16.3	26.0	42.4
Idaho	0.8 3.0	14.6	1.5 4.3	(s) 0.2	0.7 3.2	0.1	0.0	2.3	0.0 0.0	0.5 3.7	0.6 0.0	20.5	39.3 397.0	44.3 383.1	83.6 780.1
IllinoisIndiana	3.0	206.1 77.3	5.8	0.2	2.6	1.3 1.4	(s)	9.0 10.0	0.0	2.7	0.0	177.6 84.5	177.8	182.3	360.1
lowa	6.2	47.0	1.4	(s)	2.6	8.4	0.0	12.8	0.0	1.7	0.5	41.2	103.5	89.0	192.4
Kansas	0.0	31.1	1.6	(s)	1.3	0.4	0.0	3.2	0.0			52.8	88.6	113.9	202.5
Kentucky	2.7	35.3	3.8	0.1	1.3	0.2	0.0	5.4	0.0	1.2	0.5	68.4	113.4	147.5	260.9
Louisiana	(s)	25.9	3.6	(s)	0.4	14.6	0.0	18.6	0.0	0.7	0.5	78.1	123.8	168.5	292.3
Maine	0.1	6.5	17.1	0.7	1.4	0.3	2.6	21.9	0.0	2.1	0.0	14.3	44.9	30.9	75.7
Maryland	0.7	73.4	6.9	0.2	1.2	0.2	0.1	8.6	0.0	3.1	0.0	104.7	190.5	225.9	416.4
Massachusetts	0.5	62.0	18.9	0.1	1.3	0.4	5.3	26.1	0.1	2.4	0.5	92.6	184.2	199.9	384.0
Michigan	3.5	167.7	6.6	(s)	6.4	0.4	0.0	13.4	0.0	7.8	0.5	136.6	329.6	294.8	624.5
Minnesota	1.0	93.2	4.2	0.1	3.1	4.9	0.6	12.8	0.0			76.8	186.1	165.8	351.9
Mississippi	0.0 3.7	21.3 60.3	6.6 2.1	(s) 0.1	1.2	0.2 0.3	0.0	8.0 5.6	0.0 0.0	0.8	0.6 0.0	45.7	76.3	98.6	175.0
Missouri		13.4	1.0		3.0 1.2	0.3	(s) 0.0	2.3	0.0	1.9 0.3	0.0	106.2 16.5	177.7 32.8	229.1 35.5	406.8 68.3
Montana Nebraska	(s) 0.1	30.6	1.0	(s) (s)	1.1	0.1	0.0	2.8	0.0	0.3	0.1	32.1	66.9	69.2	136.0
Nevada		29.6	1.8	(s)	0.4	0.0	(s)	2.3	0.0	0.7	0.6	31.9	65.3	68.8	134.2
New Hampshire	(s) 0.1	9.5	6.5	0.2	1.6	0.2	2.8	11.3	0.0	0.3	0.0	15.6	36.7	33.6	70.4
New Jersey	0.1	174.7	19.5	0.6	1.0	0.4	1.5	23.0	0.0	1.0	0.0	139.5	338.2	300.9	639.1
New Mexico	0.1	25.5	1.1	(s)	1.1	0.1	0.0	2.4	0.0	0.7	0.1	30.5	59.1	65.8	124.9
New York	2.7	296.9	85.1	1.4	3.3	1.4	54.8	145.9	(s)	10.5	0.6	253.6	710.3	547.2	1,257.4
North Carolina	0.9	47.1	8.7	0.4	3.6	6.0	0.2	19.0	0.1	2.1	0.0	159.7	228.9	344.6	573.5
North Dakota	3.4	10.8	0.9	(s)	1.0	0.1	0.2	2.1	0.0	0.2	0.3	14.4	29.8	31.0	60.9
Ohio	2.8	165.4	10.3	0.5	3.2	2.4	(s)	16.4	0.0	4.3	0.5	164.2	353.5	354.3	707.8
Oklahoma	(s) 0.0	43.5	2.8	(s) 0.1	1.5	1.1	0.0	5.5	0.0	0.5	0.0	63.6	113.1	137.2	250.3
Oregon	14.8	29.6	2.7 28.7	1.1	0.4 3.4	0.2 0.5	0.2 2.4	3.6 36.0	0.0	1.4 3.7	0.5 0.5	55.2 162.2	90.3 369.0	119.2 349.9	209.4 718.9
Pennsylvania Rhode Island	(s)	151.8 11.7	4.0	(s)	0.2	0.5	1.5	5.7	0.0	0.2	0.0	12.7	30.3	27.3	57.6
South Carolina	(s)	21.5	4.0	0.1	1.1	0.1	0.1	5.5	(s)	2.2	0.0	74.2	103.4	160.1	263.5
South Dakota	(s)	10.4	1.3	(s)	0.8	0.1	0.1	2.3	0.0	0.3	0.7	14.3	27.9	30.8	58.7
Tennessee	1.4	53.1	5.5	0.1	1.5	0.3	0.1	7.5	0.0	1.6	0.0	102.3	166.0	220.7	386.7
Texas	(s)	166.3	14.2	0.2	3.9	1.9	0.1	20.4	0.0		0.6	377.2	567.8	813.8	1,381.6
Utah	0.4	36.6	2.6	(s)	0.5	0.1	0.0	3.3	0.0	0.8	0.3	34.9	76.4	75.4	151.8
Vermont	(s)	2.6	4.5	0.2	1.0	(s)	0.5	6.2	0.0	0.2	0.0	7.0	16.1	15.2	31.2
Virginia	1.7	69.4	12.2	0.9	2.2	0.6	0.1	16.0	0.0	6.9	0.6	160.3	254.7	345.8	600.5
Washington	(s) 1.3	55.1	4.6	0.1	1.2	0.9	(s)	6.7	0.4	2.1	0.7	101.0	166.0	217.9	383.9
West Virginia		24.3	0.9	0.1	0.5	0.2	0.6	1.7	0.0	0.5	(s)	26.5	54.3	57.2	111.5
Wisconsin	1.1	90.2	5.9	0.1	3.8	0.3	0.2	10.1	(s)	2.2	0.0	80.2	183.9	172.9	356.8
Wyoming	0.9	9.8	0.5	(s)	0.6	2.2	0.0	3.4	0.0	0.2	0.6	14.4	29.2	31.0	60.3
United States	64.4	3,100.7	383.9	9.2	85.0	61.2	75.4	615.0	0.8	100.4	14.4	4,559.5	8,441.5	9,837.1	18,278.7

a Includes supplemental gaseous fuels.

b Liquefied petroleum gases.
c Includes fuel ethanol blended into motor gasoline.

Includes mail amounts of petroleum coke not shown separately.

Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. Also, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they

are mostly derived, but should be counted only once in net energy and total.

^h Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table S6. Industrial Sector Energy Consumption Estimates, 2007 (Trillion Btu)

					Petro	leum				Biomass				Flooristant	
State	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric power ^e	Wood and Waste ^f	Geo- thermal	Retail Electricity Sales	Net Energy ^{g,h}	Electrical System Energy Losses	Total ^{g,h}
Alabama	81.4	173.6	28.5	5.2	5.9	5.1	76.0	120.8	0.0	176.0	(s)	123.4	675.3	266.3	941.6
Alaska	(s)	289.7	15.7	0.1	0.3	0.0	35.8	51.9	0.0	0.1	(s) 0.0	4.7	346.4	9.9	356.3
Arizona	15.3	19.9	25.0	1.4		0.1	30.8	63.0	0.0		0.2	41.9	141.3	90.4	231.7
Arkansas	9.8	87.7	41.3	3.8		0.4	43.6	94.1	0.0		(s)	60.9	332.4	131.3	463.7
California	43.0	807.9	66.8	6.9		0.1	423.4	520.3	0.0		1.4	172.4	1,583.7	372.0	1,955.7
Colorado Connecticut	5.3 0.0	175.7 23.5	28.1 5.2	8.8 5.6		0.0 2.5	36.8 13.4	78.0 28.9	0.0		0.2 0.0	44.7 18.5	302.5 75.2	96.5 40.0	399.0 115.2
Delaware	2.7	16.4	2.6	0.8		3.3	41.1	48.7	0.0		0.0	10.5	78.5	22.7	101.1
Dist. of Col	0.0	0.0	0.3	(s)	0.3	0.0	0.2	0.8	0.0		0.0	1.0	1.8	2.2	4.0
Florida	27.9	73.2	37.1	5.6		11.1	70.8	142.8	0.0		0.0	65.7	417.2	141.6	558.9
Georgia	38.8	156.1	33.4	7.5		8.4	95.2	153.8	0.2		(s)	116.2	636.7	250.7	887.4
Hawaii	1.9	0.5	2.6	0.2		2.7	15.9	22.7	0.4		(s) 0.9	13.2	39.7	28.6	68.3
Idaho	9.2	24.7	13.4	1.5		0.2	10.5	29.2	0.0			32.1	117.7	69.2	186.9
Illinois	98.7 299.7	258.3 279.1	50.4 36.1	52.9 9.1	9.4 13.2	0.5 2.0	229.1 148.4	342.3 208.7	0.0		0.0	155.0 170.6	868.0 977.8	334.4 368.0	1,202.5 1,345.8
Indiana Iowa	299.7 60.7	107.7	27.3	42.9		0.3	27.3	105.0	0.0		0.0	65.3	351.4	140.8	492.2
Kansas	5.8	145.0	28.5	54.5		2.9	63.5	154.7	0.0		0.0	37.1	345.9	80.1	426.0
Kentucky	63.8	115.7	27.7	26.5		0.7	152.8	213.6	0.0		0.0	151.4	565.0	326.6	891.6
Louisiana	1.7	1,073.4	29.6	199.8		3.7	652.3	894.0	0.0	135.1	(s)	94.8	2,199.1	204.6	2,403.8
Maine	2.9	3.4	5.5	1.0		17.4	2.8	28.2	6.9		0.0	11.1	122.7	23.9	146.7
Maryland	29.8	21.1	9.0	2.3		4.1	35.8	56.7	0.0		0.0	20.4	140.0	44.0	184.0
Massachusetts	2.2	46.7	7.9	3.2		6.1	19.6	40.9	0.1	3.8	0.0	32.2	126.1	69.6	195.6
Michigan	74.7 25.7	191.5 115.9	18.4 30.0	14.8 16.6		6.1 5.0	100.8 93.1	151.6 152.3	0.3		0.0	115.6 78.6	569.2 408.8	249.4 169.6	818.6 578.4
Minnesota Mississippi	3.4	114.1	18.1	3.2		0.7	78.7	104.0	0.9		(s)	55.2	335.0	119.2	454.1
Missouri	24.3	69.0	33.8	17.3		0.2	72.4	130.1	0.0		0.0	63.2	292.6	136.3	428.9
Montana	1.6	32.6	26.1	2.4		0.0	41.3	72.4	0.0		0.1	21.0	141.0	45.4	186.4
Nebraska	8.1	59.9	35.6	5.5	3.8	0.3	7.6	52.8	0.0	5.3	0.0	31.1	157.1	67.0	224.2
Nevada	4.7	13.9	20.8	0.4		0.0	9.3	32.2	0.0		0.4	47.4	99.1	102.3	201.4
New Hampshire	0.0	6.4	2.9	1.4		2.6	5.4	13.2	(s)		0.0	7.4	28.6	16.0	44.6
New Jersey	0.0	65.3	11.5	2.8		3.2	241.8	265.5	0.0		0.0	37.6	371.0	81.1	452.1
New Mexico New York	1.9 33.9	104.2 82.2	13.5 21.1	18.5 4.5		1.0 9.2	34.4 107.6	70.0 153.6	0.0 0.6		0.6 0.0	23.7 69.0	200.8 355.8	51.2 148.8	251.9 504.6
North Carolina	30.0	91.7	22.8	15.9		19.7	84.4	150.1	(s)	59.7	0.0	98.9	430.4	213.3	643.7
North Dakota	91.8	26.4	22.5	4.4		0.4	11.5	42.0	0.0		0.0	12.4	172.2	26.7	198.8
Ohio	108.7	307.0	34.3	10.2	10.1	5.7	211.1	271.3	0.0	23.0	0.0	202.1	911.9	436.0	1,347.8
Oklahoma	15.4	258.0	24.0	2.8		0.8	94.7	128.9	0.0		0.0	51.9	476.4	111.9	588.3
Oregon	2.2	70.2	9.8	0.8		2.1	21.9	39.0	0.0		0.2	44.8	187.6	96.6	284.2
Pennsylvania	232.6	204.2	45.7	24.9		8.2	208.3	295.2	0.0		0.0	165.8	931.2	357.6	1,288.8
Rhode Island South Carolina	0.0 32.8	7.0 78.1	1.0 13.3	0.4 2.7	0.8 3.7	1.1 10.1	0.5 84.7	3.8 114.5	0.0		0.0 0.0	4.0 104.5	14.9 395.4	8.6 225.5	23.5 620.9
South Dakota	4.6	21.3	12.3	3.0		0.1	7.0	25.3	0.0		0.0	7.4	58.9	15.9	74.8
Tennessee	77.4	95.7	20.8	4.2		1.0	124.9	160.6	0.0		0.0	115.5	490.9	249.2	740.1
Texas	40.3	1,666.9	131.5	1,528.4		19.6	1,313.8	3,017.3	0.0		0.0	369.5	5,153.7	797.3	5,950.9
Utah	20.7	59.6	15.4	1.6	2.7	1.9	27.9	49.6	0.0		0.4	29.9	160.4	64.5	224.9
Vermont	0.0	_3.0	2.3	0.8		1.0	_2.3	7.4	(s)	1.4	0.0	5.6	17.4	12.0	_29.4
Virginia	82.3	78.2	41.4	3.9		10.3	72.1	133.3	0.1	69.6	0.0	64.6	428.1	139.3	567.4
Washington	3.2 65.8	75.5 43.4	23.1 30.9	1.2 0.9		(s) 6.3	133.4 83.1	162.8 123.0	(s) 4.4	55.9 1.6	0.0	70.8 50.0	368.3 288.2	152.8 107.9	521.0 396.1
West Virginia Wisconsin	40.0	43.4 122.8	30.9	11.6		4.7	64.6	123.0	4.4 1.8		0.0	86.8	436.3	187.3	623.5
Wyoming	34.4	77.7	26.8	1.0	1.6	0.5	27.0	57.0	0.0		(s)	29.8	199.1	64.3	263.4
United States	1,861.2	8,040.6	1,264.9	2,145.8		193.2	5,590.6	9,500.7	15.7		4.7	3,507.0	24,927.6	7,566.5	32,494.1

a Includes supplemental gaseous fuels.

once in net energy and total.

a Includes supplemental gaseous fuels.
b Liquefied petroleum gases.
c Includes fuel ethanol blended into motor gasoline.
d Includes saphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.
f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.
g U.S. total includes 25.2 trillion Btu of net imports of coal coke and 378.0 trillion Btu of energy losses and co-products from the production of fuel ethanol that are not allocated to the States.
h Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only

Incurred in the generation, transmission, and distribution of electricity plus plant use and or incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. ◆ The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete"

Data Files.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical

Table S7. Transportation Sector Energy Consumption Estimates, 2007 (Trillion Btu)

						Petro	leum							Electrical	
State	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^c	Residual Fuel Oil	Total	Fuel Ethanol ^C	Retail Electricity Sales	Net Energy ^c	System Energy Losses ^d	Total ^c
Alabama	0.0	16.1	0.6	133.8	13.2	0.2	2.6	329.5	8.5	488.3	0.5	(a)	504.4	(a)	504.4
Alaska	0.0	2.2	1.3	45.3	164.7	(s)	0.5	34.9	1.7	248.3	1.0		250.5	(s) 0.0	250.5
Arizona	0.0	23.1	0.7	124.1	37.5	0.7	1.9	359.5	0.0	524.4	16.3		547.4	0.0	547.4
Arkansas	0.0	10.2	0.6	98.0	7.0	0.2	2.3	176.9	0.0	284.9	0.3		295.2		295.2
California	0.0	19.7	2.2	497.8	628.2	2.7	15.1	1.962.6	249.3	3.358.0	82.5		3.380.5	(s) 6.2	3.386.8
Colorado	0.0	14.2	0.5	83.8	76.7	0.2	2.2	268.2	0.0	431.5	5.8		445.9	0.3	446.3
Connecticut	0.0	4.6	0.6	44.7	11.7	0.1	1.3	195.3	0.1	253.8	12.2		259.0	1.5	260.5
Delaware	0.0	(s)	0.7	9.7	0.6	(s)	0.3	56.5	7.8	75.7	3.4	0.0	75.7	0.0	75.7
Dist. of Col	0.0	0.6	(s)	1.6	0.0	(s)	0.3	15.5	0.0	17.5	0.7	1.1	19.1	2.4	21.5
Florida	0.0	11.2	1.9	267.6	176.7	0.7	4.3	1,067.6	83.4	1,602.1	9.1	0.3	1,613.6	0.7	1,614.3
Georgia	0.0	6.4	0.8	226.5	38.1	0.8	3.3	622.2	35.5	927.2	5.1	0.6	934.2	1.3	935.5
Hawaii	0.0	(s) 7.8	0.2	36.4	72.3	(s)	0.4	57.9	28.1	195.3	1.7	0.0	195.3	0.0	195.3
Idaho	0.0		0.4	41.9	5.1	0.1	0.7	80.8	0.0	129.1	1.8		136.9	0.0	136.9
Illinois	0.0 0.0	12.0 7.3	0.4 0.6	230.0 205.1	167.7 42.2	1.2 0.5	8.1 3.7	638.0 385.2	0.2 1.8	1,045.6 639.1	34.1 16.1	1.9 0.1	1,059.5 646.5	4.0 0.1	1,063.5 646.6
Indiana	0.0	12.6	0.6	100.6	5.1	0.5	2.8	194.4	0.0	303.4	4.3		316.0	0.1	316.0
Iowa Kansas	0.0	25.2	0.2	82.3	8.7	0.3	3.2	161.2	0.0	256.4	4.9		281.7	0.0	281.7
Kentucky	0.0	12.2	0.3	160.7	45.2	0.3	2.8	276.3	0.0	485.6	11.9		497.9	0.0	497.9
Louisiana	0.0	54.0	0.1	156.7	127.1	0.1	3.9	278.8	92.9	659.7	0.5		713.7	(s)	713.8
Maine	0.0	0.8	0.3	27.5	10.0	(s)	0.7	85.9	1.2	125.7	0.8		126.5	0.0	126.5
Maryland	0.0	3.4	0.5	86.5	20.0	0.1	1.7	340.2	4.6	453.7	17.2	1.8	458.8	3.9	462.7
Massachusetts	0.0	2.5	0.4	69.2	46.7	0.1	2.5	364.2	1.8	484.9	21.3		488.8	3.0	491.7
Michigan	0.0	26.7	0.4	136.4	29.9	1.0	7.9	593.7	1.8	771.2	22.8		797.9	(s)	797.9
Minnesota	0.0	20.7	0.4	113.7	63.9	0.3	4.3	324.7	2.5	509.8	19.9		530.7	0.2	530.8
Mississippi	0.0	28.1	0.5	108.3	24.8	0.1	1.7	208.1	4.3	347.8	0.3		375.9	(s) 0.1	375.9
Missouri	0.0	2.8	0.6	162.6	35.9	0.6	5.0	399.5	(s) 0.0	604.2	13.6		607.1		607.3
Montana Nebraska	0.0 0.0	7.9 5.5	0.4 0.4	52.5 63.1	5.8 5.5	(s) 0.1	1.1 1.9	60.3 101.8	0.0	120.1 172.8	1.8 2.6		128.1 178.3	0.0 0.0	128.1 178.3
Nevada	0.0	3.6	0.4	54.6	52.2	0.1	0.4	146.6	(s)	254.8	4.3		258.4	0.0	258.5
New Hampshire	0.0	(s)	0.2	14.4	0.9	(s)	0.3	91.2	0.0	107.0	3.6		107.1	0.0	107.1
New Jersey	0.0	1.8	0.7	154.8	207.2	0.3	3.8	547.1	118.2	1,032.0	32.6		1,034.9	2.2	1,037.0
New Mexico	0.0	14.1	0.2	76.0	11.0	0.1	1.1	116.9	0.0	205.4	1.3		219.6	0.0	219.6
New York	0.0	16.1	0.9	169.8	113.3	0.2	5.7	713.5	44.4	1,047.8	26.5		1,075.5	25.0	1,100.5
North Carolina	0.0	5.2	0.5	160.5	40.6	3.2	3.4	549.7	3.7	761.7	4.5		766.9	(s)	766.9
North Dakota	0.0	14.6	0.2	42.7	4.0	0.1	8.0	42.0	0.0	89.9	2.1	0.0	104.5	0.0	104.5
Ohio	0.0	14.7	1.7	274.4	102.9	0.7	7.7	635.2	(s)	1,022.5	25.7	0.2	1,037.4	0.4	1,037.8
Oklahoma	0.0	30.5	0.3	169.5	30.0	0.2	4.2	229.1	0.0	433.3	7.0		463.8	0.0	463.8
Oregon	0.0	9.9	1.0	94.0	31.9	0.4	2.8	192.6	13.7	336.5	5.6		346.6	0.5	347.0
Pennsylvania	0.0 0.0	36.6 1.0	0.5 0.1	229.9 11.2	87.9 1.9	0.5	7.0 0.4	638.5 49.9	21.5	985.8 63.6	14.1 3.6	3.0	1,025.4 64.6	6.4	1,031.8 64.6
Rhode Island South Carolina	0.0	2.7	0.1	107.2	10.7	(s) 0.3	1.4	316.2	(s) 9.8	446.2	3.0 2.7	0.0	448.9	0.0	448.9
South Dakota	0.0	5.7	0.3	30.0	5.0	0.3	0.8	50.9	0.0	87.0	2.8		92.7	0.0	92.7
Tennessee	0.0	10.4	0.5	177.0	78.3	0.6	3.6	387.0		647.1	15.9		657.5		657.5
Texas	0.0	94.5	2.5	694.8	427.6	1.3	10.3	1,490.8	(s) 185.4	2,812.6	53.8		2,907.4	(s) 0.5	2,907.9
Utah	0.0	12.9	0.4	74.2	40.2	0.1	1.0	133.1	0.0	249.1	3.1	0.1	262.1	0.2	262.4
Vermont	0.0	(s)	0.1	9.3	1.8	(s)	0.3	42.5	0.0	54.0	0.3		54.0	0.0	54.0
Virginia	0.0	7.4	1.0	174.3	107.9	0.2	2.8	510.5	8.3	805.1	18.9		813.1	1.4	814.5
Washington	0.0	8.1	0.9	143.2	116.0	0.6	2.7	338.0	62.7	664.1	10.2		672.2	(s)	672.2
West Virginia	0.0	22.4	0.2	50.3	1.3	(s)	1.3	103.5	0.0	156.7	0.8	(s)	179.2	(s)	179.2
Wisconsin	0.0	3.0	0.3	111.4	12.6	0.6	2.8	316.0	0.2	443.9	15.9		446.9	(s)	446.9
Wyoming	0.0	15.2	1.0	67.1	2.1	(s)	0.8	40.6	0.0	111.6	0.9	0.0	126.9	0.0	126.9
United States	0.0	668.7	31.6	6,456.9	3,357.6	20.5	152.2	17,321.3	993.6	28,333.8	568.9	28.0	29,030.5	60.5	29,091.0

 ^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and gas consumed as vehicle fuel.
 ^b Liquefied petroleum gases.
 ^c Fuel ethanol blended into motor gasoline is included in motor gasoline, but is also shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total.
 ^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

Where shown, (s) = Value less than 0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table S8. Electric Power Sector Consumption Estimates, 2007 (Trillion Btu)

				Petro	leum				Biomass					
State	Coal	Natural Gas ^a	Residual Fuel Oil	Distillate Fuel Oil	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power b	Wood and Waste ^c	Geothermal	Solar/PV d	Wind	Electricity Net Imports ^e	Total ^f
	'	'	,			*		'	,		'			
Alabama	807.0	181.5	0.0	0.9	0.0	0.9	360.0	40.9	3.7	0.0	0.0	0.0	0.0	1,393.9
Alaska	6.2	41.2	3.0	3.7	0.0	6.7	0.0	12.8	0.0	0.0	0.0	(s)	(s)	66.8
Arizona	423.2 265.2	286.3 65.2	0.0 0.4	0.5 0.4	0.0 0.0	0.5	280.9	65.2 32.0	0.2	0.0	0.1 0.0	0.0	(s) 0.0	1,056.4
Arkansas California	205.2	860.4	0.4	1.0	21.4	0.8 22.5	162.4 375.4	270.0	1.7 71.5	273.0	5.5	55.2	18.8	527.4 1.975.6
Colorado	382.9	128.4	0.0	0.4	0.0	0.4	0.0	17.1	0.6	0.0	(s)	12.8	(s)	540.2
Connecticut	39.8	74.5	13.8	0.4	0.0	14.2	171.9	3.6	13.1	0.0	0.0	0.0	5.1	322.3
Delaware	61.1	14.0	1.7	0.3	0.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	77.6
Dist. of Col	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Florida	692.9	794.4	149.2	7.1	48.4	204.7	307.2	1.5	51.7	0.0	0.0	0.0	0.0	2,052.4
Georgia	895.8	126.6	0.2	0.9	0.0	1.1	341.3	21.9	0.2	0.0	0.0	0.0	0.0	1,387.0
Hawaii	17.2	0.0	71.8	13.5	0.0	85.3	0.0	0.5	4.1	4.8	0.0	2.4	0.0	114.4
Idaho	0.0	12.8	0.0	(s)	0.0	(s)	0.0	89.2	1.4	0.0	0.0	1.7	0.2	105.2
Illinois	988.3	64.0	0.1	1.5	0.0	1.6	1,004.0	1.5	8.3	0.0	0.0	6.6	0.2	2,073.7
Indiana	1,271.2	38.4	0.0	1.7	0.0	1.7	0.0	4.4	2.3	0.0	0.0	0.0	-0.1	1,317.6
lowa	396.8 390.6	26.2 26.1	0.0 0.0	2.6 0.5	1.5 2.3	4.1 2.8	47.4 108.8	9.5 0.1	1.5 0.0	0.0 0.0	0.0 0.0	27.2 11.4	(s)	509.4 539.7
Kansas Kentucky	953.7	19.9	0.0	1.4	32.1	33.5	0.0	16.5	1.1	0.0	0.0	0.0	(s) 0.0	1.024.7
Louisiana	248.1	231.7	3.0	0.4	21.8	25.1	179.1	8.2	1.3	0.0	0.0	0.0	0.0	693.5
Maine	3.6	35.8	4.4	0.4	0.0	4.5	0.0	30.1	40.9	0.0	0.0	1.0	11.5	127.4
Maryland	297.2	24.1	6.6	4.4	0.0	11.0	150.5	16.3	7.5	0.0	0.0	0.0	0.0	506.7
Massachusetts	117.4	189.9	31.0	0.8	0.0	31.8	53.7	7.7	20.1	0.0	0.0	0.0	2.5	423.1
Michigan	721.3	125.5	3.3	1.7	1.5	6.6	330.5	12.3	22.1	0.0	0.0	(s)	-4.1	1,214.2
Minnesota	339.2	35.1	0.4	2.3	2.0	4.8	137.4	5.5	17.2	0.0	0.0	26.1	23.4	588.7
Mississippi	181.5	188.7	4.1	0.4	0.0	4.5	98.2	0.0	0.0	0.0	0.0	0.0	0.0	472.8
Missouri	774.0	42.0	0.0	0.8	0.0	0.8	98.3	11.9	0.2	0.0	0.0	0.0	(s)	927.2
Montana	200.8	1.0	0.0	0.1	7.5	7.6	0.0	92.6	0.0	0.0	0.0	4.9	-0.2	306.7
Nebraska	208.7	11.1	0.1	0.3	0.0	0.5	115.8	3.4	0.6	0.0	0.0	2.1	(s)	342.2
Nevada	78.2	176.6	(s)	0.1	0.0	0.1	0.0	19.8	0.0	26.3	0.4	0.0	1.0	302.5
New Hampshire New Jersey	44.8 111.7	41.2 162.8	3.4 1.4	0.5 1.3	0.0 0.0	3.9 2.8	112.9 335.7	12.5 0.2	16.7 11.9	0.0	0.0	0.0 0.2	2.1 0.0	234.0 625.2
New Mexico	294.1	62.1	0.0	0.5	0.0	0.5	0.0	2.6	0.3	0.0	0.0	13.8	-0.1	373.4
New York	220.6	416.9	73.7	8.0	3.0	84.7	445.2	249.0	27.5	0.0	0.0	8.2	38.5	1,490.7
North Carolina	796.7	40.7	0.0	3.1	0.0	3.1	420.0	29.4	8.5	0.0	0.0	0.0	0.0	1,298.4
North Dakota	324.5	(s)	0.0	0.6	0.0	0.6	0.0	12.9	0.0	0.0	0.0	6.1	4.5	348.7
Ohio	1,349.9	38.5	0.0	3.4	9.0	12.5	165.3	4.1	1.0	0.0	0.0	0.1	1.0	1,572.4
Oklahoma	357.8	294.9	1.2	0.3	0.0	1.5	0.0	30.3	0.0	0.0	0.0	18.3	0.0	702.8
Oregon	43.1	104.9	0.0	0.1	0.0	0.1	0.0	332.0	6.7	0.0	0.0	12.3	4.2	503.3
Pennsylvania	1,241.6	148.3	9.5	4.9	0.0	14.4	811.5	22.1	26.4	0.0	0.0	4.6	0.2	2,269.2
Rhode Island	0.0	52.7	0.0	0.2	0.0	0.2	0.0	(s)	1.9	0.0	0.0	0.0	1.4	56.3
South Carolina	411.1	52.7	0.3	1.9	0.0	2.1	558.0	15.4	6.4	0.0	0.0	0.0	0.0	1,045.7
South Dakota	28.6	4.3	0.0	0.8	0.0	0.8	0.0	28.8	0.0	0.0	0.0	1.5	(s)	64.0
Tennessee	593.4 1,568.7	7.5 1,507.8	0.0 0.3	1.6 1.4	0.0 12.5	1.6	301.0 429.5	48.8 16.3	0.2 4.2	0.0 0.0	0.0 0.0	0.5 89.0	0.0 -0.8	953.1 3,628.9
Texas	370.1	58.7	0.0	0.4	0.0	14.1 0.4	0.0	5.3	0.6	3.4	0.0	0.0	-0.1	438.6
Utah Vermont	0.0	(s)	0.0	0.4	0.0	0.4	49.3	6.4	6.0	0.0	0.0	0.0	8.5	70.4
Virginia	373.7	93.3	13.6	6.5	0.0	20.1	286.0	12.3	13.1	0.0	0.0	0.0	0.0	798.4
Washington	92.5	58.6	0.0	0.3	0.0	0.2	85.0	778.7	11.2	0.0	0.0	24.1	-11.1	1,039.3
West Virginia	915.8	4.0	0.0	1.9	0.0	1.9	0.0	8.0	0.0	0.0	0.0	1.7	0.0	931.3
Wisconsin	423.6	55.1	0.0	1.7	8.2	9.9	135.4	13.2	8.8	0.0	0.0	1.1		647.1
Wyoming	459.4	2.0	0.0	0.5	0.0	0.5	0.0	7.2	0.0	0.0	0.0	7.5	(s) -0.2	476.4
United States	20,807.1	7,028.3	396.6	89.3	171.2	657.1	8,457.8	2,429.9	423.4	307.6	6.0	340.5	106.6	40,557.9

a Includes supplemental gaseous fuels.
 b Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.

^c Wood, wood-derived fuels, and waste.

d Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

^f Adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

Where shown, (s) = Value less than 0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

2007 Consumption Ranking Tables

Table R1. Energy Consumption by Sector, Ranked by State, 2007

	Residential	Sector	Commercial	Sector	Industrial S	ector	Transportatio	n Sector	Total Consun	nption
Rank	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu
1	Texas	1,594.1	California	1,613.9	Texas	5,950.9	California	3,386.8	Texas	11,834.5
2	California	1,535.2	Texas	1.381.6	Louisiana	2.403.8	Texas	2.907.9	California	8,491.5
3	Florida	1,339.5	New York	1,257.4	California	1,955.7	Florida	1,614.3	Florida	4,601.9
4	New York	1,201.8	Florida	1,089.2	Ohio	1,347.8	New York	1,100.5	New York	4,064.3
5	Illinois	997.1	Illinois	780.1	Indiana	1,345.8	Illinois	1,063.5	Ohio	4,048.9
6	Pennsylvania	966.6	Pennsylvania	718.9	Pennsylvania	1,288.8	Ohio	1,037.8	Illinois	4,043.2
7	Ohio	955.6	Ohio	707.8	Illinois	1,202.5	New Jersey	1,037.0	Pennsylvania	4,006.2
8	Michigan	786.0	New Jersey	639.1	Alabama	941.6	Pennsylvania	1,031.8	Louisiana	3,766.2
9	Georgia	744.4	Michigan	624.5	Kentucky	891.6	Georgia	935.5	Georgia	3,133.0
10	North Carolina	715.9	Virginia	600.5	Georgia	887.4	Virginia	814.5	Michigan	3,026.9
11	Virginia	628.4	North Carolina	573.5	Michigan	818.6	Michigan	797.9	Indiana	2,904.0
12	New Jersey	615.5	Georgia	565.7	Tennessee	740.1	North Carolina	766.9	New Jersey North Carolina	2,743.7
13	Indiana	551.5	Maryland	416.4	North Carolina	643.7	Louisiana	713.8	North Carolina	2,700.0
14	Tennessee	546.2	Missouri	406.8	Wisconsin	623.5	Washington	672.2	Virginia	2,610.9
15	Missouri	521.1	Tennessee	386.7	South Carolina	620.9	Tennessee	657.5	Tennessee	2,330.5
16	Washington	490.1	Massachusetts	384.0	Oklahoma	588.3	Indiana	646.6	Alabama	2,132.0
17	Massachusetts	443.1	Washington	383.9	Minnesota	578.4	Missouri	607.3	Washington	2,067.2
18	Arizona	430.1	Arizona	368.5	Virginia	567.4	Arizona	547.4	Kentucky	2,023.0
19	Maryland	425.6	Indiana	360.1	Florida	558.9	Minnesota	530.8	Missouri	1,964.1
20	Wisconsin	419.0	Wisconsin	356.8	Washington	521.0	Alabama	504.4	Minnesota	1,874.6
21	Minnesota	413.5	Minnesota	351.9	New York	504.6	Kentucky Massachusetts	497.9	Wisconsin	1,846.3
22	Alabama	405.5	Louisiana	292.3	lowa	492.2	Massachusetts	491.7	South Carolina	1,692.3
23 24	Kentucky	372.6	Colorado	291.1	Arkansas	463.7	Oklahoma	463.8	Oklahoma	1,608.5
24	South Carolina	359.0	Alabama	280.6	Mississippi	454.1	Maryland	462.7	Arizona	1,577.8
25	Louisiana	356.4	South Carolina	263.5	New Jersey	452.1	South Carolina	448.9	Massachusetts	1,514.6
26	Colorado	342.9	Kentucky	260.9	Missouri	428.9	Wisconsin	446.9	Maryland	1,488.7
27	Oklahoma	306.2	Oklahoma	250.3	Kansas	426.0	Colorado	446.3		1,479.3
28	Connecticut	276.5	Connecticut	218.5	Colorado	399.0	Mississippi	375.9	Mississippi	1,239.5
29	Oregon	267.6	Oregon	209.4	West Virginia	396.1	Oregon	347.0	lowa	1,235.2 1,149.3
30	lowa	234.5	Kansas	202.5	Alaska	356.3	lowa	316.0	Arkansas	1,149.3
31	Mississippi	234.4	lowa	192.4	Oregon	284.2	Arkansas	295.2	Kansas	1,136.2
32	Arkansas	228.6	Mississippi	175.0	Wyoming	263.4	Kansas	281.7	Oregon	1,108.2
33	Kansas	226.0	Arkansas	161.9	New Mexico	251.9	Utah	262.4	Connecticut	870.7
34 35	Nevada	183.3	Utah	151.8	Arizona	231.7	Connecticut	260.5	West Virginia	850.5
35	Utah	166.4	Nebraska	136.0	Utah	224.9	Nevada	258.5	Utah	805.5
36	West Virginia	163.6	Nevada	134.2	Nebraska	224.2	Alaska	250.5	Nevada	777.4
37	Nebraska	154.5	New Mexico	124.9	Nevada	201.4	New Mexico	219.6	Alaska	723.6
38 39	Idaho	122.3	District of Columbia	124.6	North Dakota	198.8	Hawaii	195.3	New Mexico	710.7
39	New Mexico	114.3	West Virginia	111.5	Massachusetts	195.6	West Virginia	179.2	Nebraska	692.9
40	Maine	106.6	Idaho	83.6	Idaho	186.9	Nebraska	178.3	Idaho	529.6
41	New Hampshire	92.2	Maine	75.7	Montana	186.4	Idaho	136.9	Wyoming	496.4
42	Montana	79.4	New Hampshire	70.4	Maryland	184.0	Montana	128.1	Montana	462.1
43	Rhode Island	71.9	Montana	68.3	Maine	146.7	Wyoming	126.9	Maine	455.6
44	Delaware	66.8	Alaska	62.4	Connecticut	115.2	Maine	126.5	North Dakota	428.1
45	South Dakota	66.0	North Dakota	60.9	Delaware	101.1	New Hampshire	107.1	Hawaii	343.7
46	North Dakota	63.8	Wyoming	60.3	South Dakota	74.8	North Dakota	104.5	New Hampshire	314.2
47	Alaska	54.4	South Dakota	58.7	Hawaii	68.3	South Dakota	92.7	Delaware	302.0
48	Vermont	47.5	Delaware	58.4	New Hampshire	44.6		75.7	South Dakota	292.2
49	Wyoming	45.8	Rhode Island	57.6	Vermont	29.4	Rhode Island	64.6		217.6
50	Hawaii	37.7	Hawaii	42.4	Rhode Island	23.5	Vermont	54.0	District of Columbia	187.2
51	District of Columbia	37.1	Vermont	31.2	District of Columbia	4.0	District of Columbia	21.5	Vermont	162.1
	United States	21,604.3	United States	18,278.7	United States ^a	32,494.1	United States	29,091.0	United States ^a	101,468.0

^a Includes 25.2 trillion Btu of net imports of coal coke and 378.0 trillion Btu of energy losses and co-products from the production of fuel ethanol that are not allocated to the States. Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table R2. Energy Consumption by Source and Total Consumption per Capita, Ranked by State, 2007

	Coal		Natural G	as ^a	Petroleu	m ^b	Retail Electric	ity Sales	Total Consumption	on per Capita
Rank	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Million Btu
1	Texas	1,609.1	Texas	3,641.4	Texas	5,886.9	Texas	1,173.1	Alaska	1,062
2	Indiana	1.574.5	California	2.440.4	California	3,946.3 1,983.5	California	901.6	Wyoming	948
3	Pennsylvania	1,490.7	Louisiana	1,423.1	Florida	1,983.5	Florida	788.5	Louisiana	861
4	Ohio	1,461.7	New York	1,218.9	New York	1.633.41	Ohio	552.0	North Dakota	671
5	Illinois	1,090.3	Illinois	979.3	Louisiana	1,599.9 1,455.6	Pennsylvania	517.2	Texas	496
6	Kentucky	1,020.4	Florida	950.3	Pennsylvania	1,455.6	New York	505.6	Montana	483
7	West Virginia	983.0	Michigan	847.8	Illinois	1 418 1	Illinois	498.3	Kentucky	47
8	Georgia	934.7	Ohio	836.3	New Jersey	1,373.3	Georgia	469.0	West Virginia	469
9	Alabama	888.4	Pennsylvania	781.7	Ohio	1,357.0 1,100.2	North Carolina	450.0	Alabama	460
0	North Carolina	827.8	Oklahóma	690.6	Georgia	1,100.2	Virginia	380.7	Indiana	458
1	Missouri	802.4	New Jersey	640.7	Virginia	1.016.6	Indiana	373.3	Oklahoma	44
2	Michigan	799.9	Indiana	548.1	Michigan	987.3	Michigan	372.9	Mississippi	424
13	Florida	720.8	Colorado	515.9	North Carolina	970.8	Tennessee	364.1	Iowa	414
14 l	Tennessee	672.4	Georgia	453.9	Indiana	877.7	Kentucky	315.3	Kansas	409
15	Wyoming	494.8	Alabama	431.4	Washington	846.8	Alabamá	313.3	Arkansas	406
16	Wisconsin	464.9	Massachusetts	417.3	Tennessee	827.1	Washington	292.6	Nebraska	39
17	Iowa	464.4	Wisconsin	403.9	Missouri	758.9	Missouri	291.8	South Carolina	384
18	Virginia	457.9	Arizona	402.1	Kentucky	747.4	South Carolina	279.6	Tennessee	379
9	South Carolina	444.0	Minnesota	396.5	Minnesota	706.2	New Jersey	279.6	South Dakota	36
20	Arizona	438.5	Mississippi	374.9	Massachusetts	684.6	Louisiana	271.5	New Mexico	36
21	North Dakota	420.1	Alaska	371.8	Alabama	626.4	Arizona	263.4	Minnesota	36
2	Kansas	396.3	Virginia	332.7	Wisconsin	619.5	Wisconsin	243.3	Idaho	35
3	Utah	391.3	Kansas	291.6	Arizona	595.4	Minnesota	232.8	Ohio	35
24	Colorado	388.5	Washington	279.7	Oklahoma	578.0	Maryland	223.1	Delaware	35
5	Oklahoma	373.2	Missouri	277.6	South Carolina	576.5	Massachusetts	195.0	Maine	34
26	Minnesota	366.0	Nevada	263.6	Maryland	557.3	Oklahoma	188.3	Virginia	339
27	Maryland	327.8	lowa	261.9	Colorado	525.4	Colorado	175.0	Missouri	334
28	New Mexico		Oregon	258.2	Mississippi	470.9	Oregon	166.3	Wisconsin	329
9	Arkansas	296.1 275.0	North Carolina	245.2	lowa	441.6	Mississippi	164.3	Georgia	329
30	New York	257.5	New Mexico	240.3	Kansas	424.5	Arkansas	160.6	Pennsylvania	32:
	Louisiana	249.8	Kentucky	240.3	Connecticut	396.8	lowa	154.5	Washington	320
31 32	Nebraska	216.8	Utah	236.0 232.2	Arkansas	386.9	Kansas	137.0	District of Columbia	318
33	Montana	202.5	Tennessee	229.7		384.7	Nevada	121.6	New Jersey	317
34	Mississippi			228.0	Oregon		West Virginia			315
35		184.9	Arkansas	220.0	Alaska	324.1		116.6	Illinois	30
50	Massachusetts	120.1 111.8	Maryland	208.5 184.1	Hawaii	306.3 305.6	Connecticut	116.4 96.4	Colorado	30:
36 37	New Jersey	111.0	Connecticut South Carolina	104.1	Utah	303.0	Nebraska	94.8	Nevada	304
88	Washington	95.7		180.3	Nevada Wast Vissisia	292.6	Utah		Utah Michigan	30
	Nevada	82.9	Nebraska	146.4	West Virginia	288.7	Idaho	81.1	Marth Oraclica	30
9	California	66.4	West Virginia	122.6	New Mexico	284.8	New Mexico	76.0	North Carolina	29 29
1	Delaware	63.8	Wyoming	117.6	Maine	235.6	Wyoming	53.0	Oregon	29
	Oregon	45.3	Rhode Island	90.8	Nebraska	235.1	Montana	53.0	Hawaii	26
2	New Hampshire	44.9	Idaho	83.9	Montana	210.6	District of Columbia	41.3	Maryland	26
3	Connecticut	39.9	Montana	75.0	Wyoming	176.2	North Dakota	40.6	Vermont	26
4	South Dakota	33.2	New Hampshire	64.6	New Hampshire	169.6	Delaware	40.5	Florida	25
5	Hawaii	19.1	North Dakota	63.0	Idaho	165.8	Maine	40.5	Connecticut	24
6	Alaska	13.0	South Dakota	54.1	North Dakota	142.7	New Hampshire	38.3	Arizona	24
7	Idaho	10.2	Delaware	49.8	Delaware	135.8	South Dakota	36.2	New Hampshire	23
-8	Maine	6.6	Maine	47.9	South Dakota	121.3	Hawaii	36.1	Massachusetts	23
.9	District of Columbia	0.5	District of Columbia	33.9	Rhode Island	91.5	Rhode Island	27.3	California	23
0	Rhode Island	(s)	Vermont	8.9	Vermont	87.5	Alaska	21.6	New York	20
1	Vermont	(s)	Hawaii	3.0	District of Columbia	22.5	Vermont	20.0	Rhode Island	20
	United States	22,739.9	United States	23,677.6	United States	40,358.1	United States	12,844.8	United States	330

a Includes supplemental gaseous fuels.
 b Includes fuel ethanol blended into motor gasoline.
 (s) = Value less than 0.05 trillion Btu.
 Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table R3. Total Energy Consumption, Gross Domestic Product (GDP), Energy Consumption per Real Dollar of GDP, Ranked by State, 2007

	Total Ener	rgy Consumption	Gross Don	nestic Product (GDP)	Energy Consur	nption per Real Dollar of GDP
Rank	State	Trillion Btu	State	Billion Chained (2000) Dollars	State	Thousand Btu per Chained (2000) Dollar
	Texas	11,834.5	California	1,539.4	Louisiana	26.1
	California	8,491.5	Now York	949.5	Myomina	23.8
	California	8,491.5	New York	949.5	Wyoming	23.8
	Florida	4,601.9	Texas	907.4	Alaska	23.7
	New York	4,064.3	Florida	613.4	North Dakota	18.9
	Ohio	4,048.9	Illinois	514.8	West Virginia	18.8
	Illinois	4.043.2	Pennsylvania	438.9	Mississippi	17.6
	Pennsylvania	4,006.2	Ohio	388.3	Montana	17.3
	Louisiana	3,766.2	New Jersey	388.0	Kentucky	15.9
	Georgia	3,133.0	Georgia	331.3	Alabama	15.7
)		3,026.9	Michigan	331.0	Oklahoma	15.5
	Michigan	3,020.9				10.0
	Indiana	2,904.0	North Carolina	329.1	Arkansas	14.6
2	New Jersey	2,743.7	Virginia	320.3	Indiana	13.8
3	North Carolina	2,700.0	Massachusetts	306.5	South Carolina	13.4
.	Virginia	2,610.9	Washington	259.4	Texas	13.0
5	Tennessee	2,330.5	Maryland	217.9	Kansas	11.8
í l	Alabama	2,132.0	Minnesota	212.8	New Mexico	11.8
		2,132.0				
	Washington	2,067.2	Arizona	211.6	Idaho	11.6
3	Kentucky	2,023.0	Indiana	211.1	Maine	11.4
)	Missouri	1,964.1	Tennessee	209.1	lowa	11.4
)	Minnesota	1,874.6	Colorado	197.3	Tennessee	11.1
	Wisconsin	1,846.3	Wisconsin	197.0	Nebraska	10.5
,	South Carolina	1 602 3	Missouri	191.2	Ohio	10.4
3	Oklahoma	1,692.3 1,608.5	Connecticut	178.5	Missouri	10.4
		1,000.0			IVIISSUUTI	10.3 10.0
	Arizona	1,577.8	Oregon	144.8	South Dakota	10.0
5	Massachusetts	1,514.6	Louisiana	144.4	Georgia	9.5
6	Maryland	1,488.7	Alabama	136.1	Wisconsin	9.4 9.3
7	Colórado	1,479.3	Kentucky	127.0	Utah	9.3
3	Mississippi	1,239.5	South Carolina	126.3	Michigan	9.1
, l	lowa	1,235.2	lowa	108.1	Pennsylvania	9.1
	Arkansas	1,149.3	Oklahoma	104.1	Minnesota	8.8
'		1,149.3		104.1	North Carolina	0.0
	Kansas	1,136.2	Nevada	103.9		0.2
2	Oregon	1,108.2	Kansas	96.0	Virginia	8.2
}	Connecticut	870.7	Utah	86.5	Washington	8.0
} -	West Virginia	850.5	Arkansas	78.7	Illinois	8.2 8.2 8.0 7.9
5	Utah	805.5	District of Columbia	72.6	Oregon	7.7
3	Nevada	777.4	Mississippi	70.5	Vermont	7.6
5	Alaska	723.6	Nebraska	65.7	Florida	7.6 7.5 7.5 7.5
3	New Mexico	710.7	New Mexico	60.2	Colorado	7.5
		692.9		50.1		7.5
,	Nebraska	692.9	Delaware	50.1	Nevada	7.5
	Idaho	529.6	New Hampshire	49.6	Arizona	7.5
	Wyoming	496.4	Hawaii	49.4	New Jersey	7.1
2	Montana	462.1	Idaho	45.5	Hawaii	7.0
3	Maine	455.6	West Virginia	45.2	Maryland	6.8
.	North Dakota	428.1	Maine	39.8	New Hampshire	63
	Hawaii	343.7	Rhode Island	38.5	Delaware	6.0
6	New Hampshire	314.2	Alaska	30.6	Rhode Island	0.0 £ 7
,						5.7
	Delaware	302.0	South Dakota	29.3	California	5.5
3	South Dakota	292.2	Montana	26.8	Massachusetts	4.9
)	Rhode Island	217.6	North Dakota	22.6	Connecticut	4.9
)	District of Columbia	187.2	Vermont	21.3	New York	4.3
	Vermont	162.1	Wyoming	20.8	District of Columbia	6.3 6.0 5.7 5.5 4.9 4.9 4.3 2.6
		.52.1	,9	20.0		2.0
	United States	101,468.0	United States	11,439.2	United States	8.9
	Utilieu States	101,400.0	United States	11,439.2	United States	0.9

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

United States Consumption Tables

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, United States

							Petroleum						Biomass			
	Coal	Net Imports of Coal Coke	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Waad	Geo- thermal,		
Year	Milli Short		Billion Cubic Feet				Million Barrels				Billion Kilo	watthours	Wood and Waste ^{f,g}	Solar/PV, and Wind ^{g,h}	Other ⁱ	Total ^g
1960	398 472	(s) -1	11,967	685	136	227	1,453	559	525	3,586	1	149				
1965	472		15,280	776	220	307	1,676	587	636	4,202	4	197				
1970 1975	523 563	-2 1	21,139 19,538	927 1,041	353 365	447 486	2,111 2,436	804 899	722 730	5,364 5,958	22 173	251 303				
1980	703	-1	19,877	1,041	391	538	2,430	918	939	6,242	251	279				
1985	818	-1	17,281	1,047	445	584	2,493	439	733	5.740	384	284				
1990	904	(s)	19,174	1,103	556	568	2,641	449	885	6,201	577	293				
1995	962	2	22,207	1,170	553 578	693	2,843	311	899	6,469	673 675	311				
1996 1997	1,006 1,030	1 2	22,609 22,737	1,232 1,254	578 583	736 744	2,888 2,926	311 291	957 998	6,701 6,796	629	347 356				
1998	1,037	3	22,737	1,263	592	713	3,012	324	1,001	6,905	674	323				
1999	1,039	2	22,405	1,304	611	801	3,077	303	1,029	7,125	728	320				
2000	1,084	3	23,333	1,362	631	816	3,101	333	967	7,211	754	276				
2001	1,060	1	22,239	1,404	604	746	3,143	296	979	7,172	769	217				
2002 2003	1,066 1,095	2 2	23,007 22,277	1,378 1,433	589 576	789 757	3,229 3,261	255 282	972 1.003	7,213 7,312	780 764	264 276				
2003	1,107	6	22,389	1,485	597	780	3,333	316	1,003	7,512	789	268				
2005	1,126	2	22,011	1.503	613	741	3,343	336	1,057	7,593	782	270				
2006	1,112	2	22,011 R 21,685	1,522	596	749	3,377	251	1,055	7,551	787	289				
2007	1,128	1	23,047	1,532	592	761	3,389	264	1,011	7,548	806	248				
								Trillion Btu	I							
1960	9,831	-6	12,385	3,992	739	912	7,631	3,517	3,129	19,919	6	1,608	1,320	1	15	45,080
1965 1970	11,582 12,269	-18 -58	15,779 21,693	4,519 5,401	1,215 1,973	1,232 1,689	8,806 11,091	3,691 5,057	3,784 4,312	23,246 29,522	43 239	2,059 2,634	1,335 1,431	11	(s)	54,030 67,747
1975	12,656	14	19 977	6,061	2,047	1,807	12,798	5,649	4,370	32,732	1,900	3,155	1,499	70	21	72,023
1980	15,461 17,540	-35 -13	R 20,384 R 17,843	6.110	2,190 2,497	1,976	12,648	5,772	5,508	34.204	2,739	2,900 2,970	2.472	110	-86	78,150 R 76,565
1985	17,540		R 17,843	6,098	2,497	2,103	13,098	2,759	4,371	30,925	4,076	2,970	2,923	198	103	R 76,565
1990 1995	19,168 20,099	5 61	R 19,752 R 22,833	6,422 6,818	3,129 3,132	2,059 2,512	13,872 14,825	2,820 1,955	5,249 5,314	33,552 34,556	6,104 7,075	3,046 3,205	2,626 2,901	425 396	-6 108	R 84,672 R 91,235
1995	20,099	23	R 23,262	7,175	3,132	2,660	15,064	1,955	5,635	35,759	7,075	3,205	3,014	420	87	R 04 244
1997	21,444	46	R 23 477	7,304	3,308	2,690	15,254	1,828	5,881	36,266	6,597	3,640	2,919	429	92	R 94 910
1998	21,583	67	R 23,016	7,359	3,357	2,575	15,701	2,036	5,905	36,933	7,068	3,297	2,726	429	72	R 95,192
1999	21.582	58	R 23.026	7.595	3,462	2,897	16,036	1,905	6,066	37,960	7,610	3.268	2,764	447	90	R 94,244 R 94,910 R 95,192 R 96,804
2000	22,576	65 29	R 23,803	7,935	3,580	2,945	16,155	2,091	5,695	38,402	7,862	2,811 2,242	2,783	440	124	R 98,866 R 96,296
2001 2002	21,906 21,903	61	R 22,836 R 23,806	8,179 8,028	3,426 3,340	2,697 2,852	16,373 16,819	1,861 1,605	5,797 5,755	38,333 38,400	8,033 8,143	2,242	2,374 2,397	446 498	97 136	° 90,∠90 R 08 033
2002	21,903	51	R 23,806 R 23,188	8,028 8,349	3,265	2,032	16,981	1,772	5,733	39,051	7,959	2,825	2,403	509	127	R 98,033 R 98,436
2004	R 22,466	138	R 22.859	8,652	3,383	2,824	17,379	1,990	6,365	40,593	8,222	2,690	2.510	547	188	R 100,213 R 100,465
2005	22,795	44	R 22.645	8,755	3,475	2,682	17,444	2,111	6,265	40,733	8,160	2,703	R 2,538	587	261	R 100,465
2006	22,446	61	R 22,290	8,864	3,379	2,701	17,622	1,581	6,274	40,420	8,214	2,869	R 2,566	679	296	R 99,841
2007	22,740	25	23,678	8,921	3,358	2,733	17,689	1,659	5,999	40,358	8,458	2,446	2,573	770	420	101,468

^a Includes supplemental gaseous fuels.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Geothermal, solar thermal, photovoltaic, and wind energy.

i Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; losses and co-products from the production of fuel ethanol, beginning in 1981; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, United States

				Petr	oleum		Biomass			5			_
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Million Short Tons	Billion Cubic Feet		Million	n Barrels		Million Cords	Geothermal d	Solar/PV d,e	Billion Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	24	3,103	269	62	85	417	31			201			
1965 1970	15	3,903	294 322	59 53	108	461	23			291			
1970	9	4,837	322	53	153	528	20			466			
1975	3	4,924	310	28	142	481	21			588			
1980 1985	1	4,752 4.433	226 188	19 28	88 91	333 306	42 51			717 794			
1985	2	4,433 4,391	168	28 11	101	280	29			794 924			
1995	1	4,850	155		112	280	26			1,043			
1996	1	5,241	159	13 16	131	306	27			1,083			
1997	1	4.984	150	16	127	294	21			1.076			
1998	1	4,520	133	19	120	294 272	19			1,130			
1999	1	4,726	142	20	148	309	20			1,145			
2000	(s) (s)	4,996	155	17	156	328	22			1,192			
2001	(s)	4,771	156	17	148	321	19 19			1,202			
2002 2003	1	4,889	148	11	150 155	308 323	19 20			1,265 1,276			
2003	1	5,079 4,869	155 159	12 15	147	323 321	20			1,276			
2004	(s)	4,809	147	15	147	304	R 21			1,359			
2006	(s)	4.368	122	12	R 126	R 260	R 21 R 20			1,352			
2007	(s) (s)	4,368 4,717	125	8	134	266	22			1,392			
							Trillion Btu						
1960	578	3,212	1,568	354	343	2,265	627	0	0	687	7,370	1,702	9,071
1965	348	4,019	1,713	334	434	2,481	468	0	0	993	8,309	2,372	10,681
1970	207	4,953	1,878	298	579	2,755	401	0	0	1,591	9,907	3,853	13,760
1975 1980	62 31	5,024 R 4,855	1,807 1,316	161 107	528 325	2,495 1,748	425 846	0	0	2,007 2,448	10,014 9,859	4,829 5,906	14,842 15,765
1985	39	R 4,566	1,092	159	325 327	1,740	1,010	0	0	2,709	9,848	6,241	16,088
1990	31	R ⊿ 510	978	64	365	1,407	582	6	56	3,153	9,708	7,296	17,004
1995	17	R 4,984 R 5,391	905	74	404	1.383	520	7	65	3,557	10 493	8,080	18.573
1995 1996	16	R 5.391	905 926	89	473	1,383 1,488	540	7	65 65	3,557 3,694	11,161	8,401	18,573 19,562
1997	16	K 5 125	874	93	461	1,428	428	7	65	3,671	10,703	8,319	19.022
1998	12	K 4,671	772	108	434	1,314	380	8	65	3,856	10,272	8,746	19,018 19,623
1999	14	K <u>4</u> 857	828	111	534	1,473	400	9	64	3,906	10,687	8,935	19,623
2000	11	R 5,100	905	95	564	1,563	430	9	61	4,069	11,209	9,256	20.465
2001	11	R 4,902	908	95	535	1,539	374	9	60	4,100	10,965	9,138	20,103
2002	12	R 4,994	860	60 70	543	1,463	380 400	10	59	4,317	11,211	9,625	20,836
2003 2004	12	R 5,231 R 4,969	905 924	70 85	564 532	1,539 1,541	400	13	58 59	4,353	11,582	9,606 R 9,754	21,189 R 21,146 R 21,689 R 20,762
2004	11 8	R 4,969	924 854	84	517	1,041	R 428	14 16	61	4,408 4,638	11,392 R 11,545	10,144	R 21,140
2005	6	R 4,484	712	66	R 454	1,455 R 1,233	R 390	18	67	4,611	R 10,790	9,972	R 20 762
2007	7	4,839	726	44	481	1,251	430	22	75	4,750	11,355	10,249	21,604
2007	,	4,039	120	44	401	1,231	430		75	4,750	11,355	10,249	Z1,0U

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation methodology.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, United States

					Petr	oleum				Biomass		5.4.11			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Million Short Tons	Billion Cubic Feet			Millior	Barrels			Billion kWh	Wood and Waste ^{f,g}	Geothermal ^f	Billion KWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	17	1,020	85	8	15	13	89	210	0			159			
1965	11	1.444	92	9	19	15	103	238	Ö			231			
1970	7	2,399	101	11	27	16	114	269	0			352			
1975	7	2,508	101	9	25	17	78	230	0			468			
1980	5	2,611	89	7	16	20	90	222	0			559			
1985	6	2,432	108	6	16	18	36	185	, 0			689			
1990	5	2,623	92	2	18	21	37	170	(s)			838			
1995	5	3,031	82	4	20	3	23	132	(s)			953			
1996	5	3,158	83	4	23	5	22	137	(s)			980			
1997 1998	6	3,215	76	4	22	8	18	129	(s)			1,027			
1998	4	2,999 3,045	74 75	5 5	21 26	5	14 12	121 123	(s)			1,078 1,104			
2000	4	3,045	75 84	5 5	28	9	15	140	(s) (s)			1,104			
2000	4	3,162	87	5 6	26 26	7	11	137	(S) (S)			1,191			
2002	4	3,144	76	3	27	9	13	127	(s)			1,205			
2002	4	3,179	83	3	27	12	18	143	(s)			1,199			
2004	5	3.129	81	4	26	9	19	138	(s)			1,230			
2005	4	2,999	77	4	25	9	18	133	(s)			1,275			
2006	3	R 2,832	69	3	22	9	12	115	(s)			1,300			
2007	3	3,017	66	2	24	12	12	115	(s)			1,336			
								Trillion Btu							
1960	402	1,056	494	48	61	67	559	1,228	0	12	0	543	3,240	1,344	4,584
1965	263	1,483	534	54	77	77	645	1,386	0	9	0	789	3,930	1,884	5,814
1970	163	2,455	587	61	102	86	714	1,551	0	8	0	1,201	5,377	2,910	8,287
1975	146	2,556 R 2,666	587	49	93 57	89	492	1,310	0	8	0	1,598	5,617	3,845	9,462
1980	117	2,666	518	41		107	565	1,287	0	21	0	1,906	5,963	4,597	10,560
1985	138	R 2,503	631	33	58	96	228	1,045	0	24	0	2,351	6,030	5,418	11,448
1990	124	R 2,698	536	12	64	111	230	953	1	94	3	2,860	6,703	6,620	13,323
1995	116	R 3,117 R 3,251	479	22	71	18	141	732	1	113	5	3,252	7,309	7,388	14,697
1996 1997	120 129	R 3,251	483 444	21 25	84 81	27 43	137 111	751 704	1	129 131	5 6	3,344 3,503	7,575 7,756	7,607 7,939	15,182
1997		R 3,306		25 31	77			704	1	118	7	3,503 3,678	7,756 7,642	7,939 8,342	15,695 15,984
1998	101 102	R 3,098	429 438	27	94	39 28	85 73	661 661	1	118	7	3,678	7,642 7,769	8,342 8,614	15,984
2000	86	R 3,254	491	30	99	45	92	756	1	119	8	3,766	8,159	8,999	17,158
2000	88	R 3,109	508	31	94	37	70	742	1	91	8	4,063	8,082	9,056	17,138
2001	88	R 3 224	444	16	96	45	80	681	(s)	95	9	4,110	8,190	9,164	17,135
2002	83	K 3 293	481	19	100	60	111	771	1	100	11	4,090	8,333	9,026	17,359
2004	103	R 3 195	470	20	94	45	122	752	i	105	12	4,198	8.352	9,289	17,359 R 17,641
2005	96	R 3.088	447	22	91	46	116	722	1	104	14	4,351	8.360	9,517	17.877
2006	R 64	R 2,911	401	15	R 80	49		621	1	101	14	4,435	R 8,132	9,591	R 17,723
2007	64	3,101	384	9	85	61	75 75	615	1	100	14	4,560	8,442	9,837	18,279
		,										,		,	

^a Includes supplemental gaseous fuels.

double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which

cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

§ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical

Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, United States

		Net				Petrol	eum				Biomass					
	Coal	Imports of Coal Coke	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Million S	hort Tons	Billion Cubic Feet			Million E	Barrels			Billion kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Billion kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	177	(s)	5,771	174	122	73	252	370	991	4			324			
1965	201	-1	7,112	197	172	73 65	252	499	1,185	3			429			
1970	187	-2	9,249	211	255	55	258	611	1,390	3			571			
1975 1980	147 127	1 -1	8,365 8,198	230 227	308 429	43 30	240 215	653 871	1,474 1,772	3			688 815			
1985	116	-1 -1	6,867	192	429	41	119	662	1,772	3			837			
1990	115	(s)	8,255	198	444	35	65	829	1,571	3			946			
1995	106	2	9,384	194	557	38	54	833	1,677	5			1,013			
1996	103	1	9,685	204	578	38	53	890	1,764	6			1,034			
1997	102	2	9,714	207	590	41	46	924	1,808	6			1,038			
1998	96	3	9,493	208	567	38	37	919	1,768	5			1,051			
1999	93 94	2	9,158	204	624 630	29	33	948 892	1,838 1,795	5			1,058			
2000 2001	94 91	3	9,293 8,463	206 223	568	29 57	38 32	905	1,795	3			1,064 997			
2001	84	2	8,620	207	609	59	30	896	1,801	3 4			990			
2003	86	2	8,273	195	570	62	35	927	1,790	4			1.012			
2004	86	6	8,341	208	602	71	40	989	1,911	3			1,018			
2005	84	2	7,709	217	_ 566	68	45	966	1 862	3			1,019			
2006	82	2	R 7,654	217	R 594	72	38	975	R 1,895	3			1,011			
2007	79	1	7,823	217	598	59	31	941	1,845	2			1,028			
								Trillio	n Btu							
1960	4,548	-6	5,973	1,016	489	381	1,584	2,278	5,748	39	680	0	1,107	18,089	2,738	20,827
1965	5,134	-18	7,350	1,150	688	342	1,582	3,026	6,789	33	855	0	1,463	21,606	3,493	25,099
1970	4,664	-58	9,498	1,226	964	288	1,624	3,686	7,788	34	1,019	0	1,948	24,892	4,714	29,607
1975 1980	3,658 3,155	14 -35	8,571 R 8,409	1,339 1,324	1,144 1,577	223 158	1,509 1,349	3,932 5,119	8,148 9,527	32 33	1,063 1,600	0	2,346 2,781	23,832 25,423	5,643 6,705	29,475 32,128
1985	2,777	-13	R 7,096	1,119	1,690	218	748	3,966	7,741	33	1,875	0	2,855	R 22,366	6,574	R 28,940
1990	2,754	5	R 8 520	1,150	1,608	185	411	4,922	8,277	31	1,634	2	3,226	R 24 456	7,466	R 31 922
1995	2,500	61	R 9 678	1,131	2,019	200	337	4,930	8,617	55	1,847	3	3,455	R 26 263	7,849	R 34 112
1996	2,438	23	K g ggg	1,187	2,089	200	335	5,245	9,056	61	1,907	3	3,527	K 27 036	8,022	K 35 058
1997	2,396	46	K 10.109	1,203	2,134	212	291	5,450	9,290	58	1,915	3	3,542	R 27.403	8,028	K 35 431
1998	2,254	67	K 9 882	1,211	2,048	199	230	5,427	9,116	55	1,784	3	3,587	R 26.795	8,136	R 34,931 R 34,848
1999	2,188	58	R 9,438	1,187	2,256	152	207	5,594	9,396	49	1,791	4	3,611	R 26,588	8,260	K 34,848
2000	2,259 2,194	65 29	R 9,459 R 8,674	1,200 1,300	2,271 2,054	150 295	241 203	5,257 5,368	9,119 9,220	42 33	1,781 1,571	4	3,631 3,400	R 26,431	8,261 7,579	R 34,692
2001 2002	2,194	29 61	R 9,088	1,300	2,054	309	190	5,308	9,220	33 39	1,571	5 5	3,400	R 25,204 R 25,453	7,579 7,534	R 32,783 R 32,986
2002	2,020	51	R 8,773	1,204	2,200	324	220	5,306	9,211	43	1,506	3	3,454	R 25,262	7,622	R 32 884
2003	2.046	138	R 8 485	1,214	2,180	372	249	5,854	9,870	33	R 1,608	4	3,473	R 25.843	7,683	R 32,884 R 33,526
2005	1,954	44	R 7 935	1,264	2,047	356	281	5,729	0.678	32	1,600	4	3,477	R 24.941	7,606	K 32 547
2006	1,914	61	^R 7,872	1,263	2,047 R 2,140	376	239	5,797	R 9,816	29	R 1,662	4	3,451	R 25,083	7,462	R 32,544
2007	1,861	25	8,041	1,265	2,146	306	193	5,591	9,501	16	1,619	5	3,507	24,928	7,566	32,494

^a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which

cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1981, includes losses and co-products from the production of fuel ethanol. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

energy and total.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, United States

						Р	etroleum					5.4			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Million Short Tons	Billion Cubic Feet				Mill	ion Barrels				Million Barrels	Billion Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	3	347	59	153	136	5	25	1,367	134	1,880	0	3			
1965	1	501	44	188	220	8	24	1,596	123	2,203	0	3			
1970	(s)	722	20	269	353	12	24	2,040	121	2,839	0	3			
1975	(s)	583	14	364	362	11	26	2,377	113	3,267	0	3			
1980 1985	0	635 504	13 10	480 544	389 445	5 8	28 26	2,357 2,434	222 125	3,494 3,591	0 14	3			
1900	0	660	9	629	556	6	29	2,434	162	3,591	17	5			
1995	0	705	8	720	553	5	28	2,801	145	4,259	32	5			
1996	0	718	7	767	578	4	27	2.845	135	4,363	23	5			
1997	0	760	8	802	583	4	28	2,877	113	4,416	29	5			
1998	0	645	7	826	592	5	30	2,967	107	4,533	32	5			
1999	0	657	8	859	611	4	30	3,043	106	4,659	34	5			
2000	0	655	7	887	631	3	30	3,063	141	4,762	39	5			
2001	0	640	7	908	604	4	27	3,079	93	4,722	40	5			
2002	0	682 610	/	926 973	589 576	4	27	3,161	108 91	4,821 4,862	48	6			
2003 2004	0	587	6 6	1.018	576 597	4 5	25 25	3,187 3,253	118	4,862 5,021	66 83	7			
2004	0	607	7	1,018	613	7	25	3,266	133	5,021	R 95	8			
2006	0	R 608	7	1,101	596	7	24	3,296	144	5,175	R 128	7			
2007	Ö	648	6	1,108	592	6	25	3,319	158	5,215	161	8			
								Trillion	Btu						
1960	76	359	298	892	739	20	152	7,183	844	10,126	0	10	10,572	26	10,597
1965	16	518	222	1,093	1,215	33	149	8,386	770	11,868	0	10	12,412	24	12,435
1970	/	740	100	1,569	1,973	44	147	10,716	761	15,310	0	11	16,068	26	16,094
1975 1980	0	595 650	71 64	2,121 2.795	2,029 2,179	42 17	155 172	12,485 12,383	711 1,398	17,614 19,009	0	10 11	18,219 19,669	24 27	18,244 19,696
1985	0	521	50	3,170	2,179	28	156	12,303	786	19,009	51	14	20,056	33	20,089
1990	0	683	45	3,661	3,129	22	176	13,575	1,016	21,625	61	16	22,385	37	22,423
1995	0	728	40	4,195	3,132	17	168	14,607	911	23,069	114	17	23,814	39	23,853
1996	Ö	740	37	4,469	3,274	15	163	14,837	851	23,647	82	17	24,404	38	24,442
1997	Ö	790	40	4,672	3,308	13	172	14,999	712	23,917	103	17	24,723	38	24,761
1998	0	667	35	4,812	3,357	17	180	15,463	674	24,537	115	17	25,221	38	25,259
1999	0	675	39	5,001	3,462	13	182	15,855	665	25,218	120	17	25,911	40	25,951
2000	0	672	36	5,165	3,580	11	179	15,960	888	25,820	137	18	26,510	42	26,551
2001	0	656	35	5,292	3,426	13	164	16,041	586	25,556	143	19	26,230	42	26,272
2002	0	711	34	5,392	3,340	13	162	16,465	677	26,084	170	19	26,814	42	26,856
2003 2004	0	633 603	30 31	5,666 5,932	3,265 3,383	16 18	150 152	16,597 16,962	571 740	26,296 27,218	232 292	24 25	26,952 27,846	52 55	27,004 27,901
2004	0	_ 626	35	5,932 6,076	3,383	27	152	17,043	837	27,218	334	25 26	28,296	56	28,352
2005	0	R 629	33	6,414	3,379	26	147	17,043	906	28,103	R 451	25 25	R 28,757	55	R 28,812
2007	0	669	32	6,457	3,358	21	152	17,137	994	28,334	569	28	29,031	60	29,091

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

 $^{^{\}rm g}$ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Value less than 0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, United States

				Petro	leum		Needeen		Biomass				Electricity.	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^C	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV ^{f,g}	Wind ^f	Electricity Net Imports ^h	
Year	Million Short Tons	Billion Cubic Feet		Million	Barrels		Billion Kil	owatthours	and Waste ^{e,f}		Billion Kild	owatthours		Total ^{f,i}
1960	177	1,725	84	4	0	88	1	146		(s)	0	0	5	
1965 1970	245	2,321 3,932	110	5	0	115	4	194		(s)	0	0	(s) 2	
1970	320 406	3,932 3,158	311 467	24	3	339	22 173	248		1	0	0	6	
1975 1980	569	3,158 3,682	391	39 29	(s)	506 421	251	300 276		3 5	0	0	21	
1985	694	3,044	159	15	1	175	384	281		9	(s)	(s)	41	
1990	783	3,245	185	17	5	207	577	290		15	(s)	3	2	
1995	850	4,237	90	19	13	122	673 675	305		13	(s)	3	39	
1996	897	3,807	100	19	13	132	675	305 341		14	1	3	40	
1997	921	4,065	114	19	17	150	629	351		15	1	3	34	
1998	937	4,588	167	23	21	210	674	318		15	1	3	26	
1999	941	4,820	152	24	19	195	728	315		15	(s)	4	29	
2000 2001	986 964	5,206 5,342	139 160	30 29	16 17	185 206	754 769	271 214		14 14	(s)	6 7	34 22	
2001	978	5,672	105	29	29	156	780	260		14	1	10	21	
2002	1,005	5,135	138	28	29	195	764	272		14	1	11	6	
2004	1,016	5.464	140	19	37	196	789	265		15	1	14	11	
2005	1,037	5,869	139	20	40	199	782	267		15	1	18	25	
2006	1,027	6.222	57	13	36	105	787	286		15	1	27	18	
2007	1,045	6,841	63	15	28	107	806	246		15	1	34	31	
							Trillion E	Btu						
1960	4,227	1,785	530	22	0	553	6	1,569	2	1	0	0	15	8,157
1965	5,821	2,408	693 1,958	29	0	722	43	2,026	3	. 4	0	0	(s) 7	11,028
1970	7,228	4,048	1,958	141	19	2,117	239	2,600	4	11	0	0		16,254
1975 1980	8,789 12,158	R 3,804 R 3,157 R 3,333 R 4,327 R 3,882	2,937 2,459	226 169	2 5	3,166 2,634	1,900 2,739	3,122 2,867	2	70 110	0	0	21 71	20,302 24,381
1985	14,586	R 3 157	2,439	85	7	1,090	4,076	2,937	14	198	(s)		140	26,195
1990	16,259	R 3 333	1,163	85 97	30	1,289	6,104	3,014	317	326	4	(s) 29 33 33	8	30,675
1995	17,465	R 4.327	566	108	81	755	7.075	3.149	422	280	5	33	134	33.637
1996	18,428	R 3,882	566 628	109	80	817	7,087	3,528	438	300	5	33	137	34,649
1997	18,903	R 4,147	715	111	102	927	6,597	3,581	446	309	5	34	116	35,058
1998	19,216	R 4,147 R 4,698 R 4,924	1,047	136	124	1,306	7,068	3,241	444	311	5	31	88	36,400
1999	19,279	K 4,924	959	140	112	1,211	7,610	3,218	453	312	5	46	99	37,150
2000	20,220	R 5,318	871	175	99	1,144	7,862	2,768	453	296	5	57	115	38,232
2001 2002	19,614 19,783	1, 5,49b R 5, 700	1,003 659	171 127	103 175	1,277 961	8,033 8,143	2,209 2,650	337 380	289 305	6	70 105	75 72	37,396 38,189
2002	20,185	R 5 250	869	161	175	1,205	7,959	2,050	397	303	5	115	22	30,109
2003	20,705	R 5,496 R 5,789 R 5,259 R 5,607	879	111	222	1,212	8,222	2,656	388	311	6	142	39	38,227 R 38,885
2005	20,737	^ 6.036	876	115	243	1,235	8,160	2,670	406	309	6	178	84	39,814
2006	20,461	R 6,394	361	74	214	648 657	8,214	2.839	412	306	5	264	63	39,601
2007	20,807	7,028	397	89	171	657	8,458	2,430	423	308	6	341	107	39,601 40,558

a Includes supplemental gaseous fuels.
 b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4, 5,

and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

ⁱ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total. --= Not applicable.

Where shown, R = Revised data and (s) = Value less than +0.5 and greater than -0.5.

Where shown, K = Kevised data and (s) = Value less than +0.5 and greater than -0.5.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.



Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Alabama

						Petroleum				Needeen	Heater	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965	15,578 21,473	184 229	5,393 5,251	1,126 1,156	3,211 4,207	24,578 28,919	4,292 2,553	4,898 6,987	43,498 49,072	0	6,239 7,103					
1970	27,653	298	8,512	1,799	7,583	37,003	3,290	8,524	66,710	0 700	7,632					
1975 1980	26,609 27,042	264 269	14,697 15,190	1,707 2.048	6,540 4,949	45,174 44,296	12,953 7,296	8,586 10,158	89,656 83,937	2,722 23,497	12,213 9,408					
1985	27,145	219	14,520	3,516	3,648	43,476	2,249	11,155	78,565	14,313	6,886					
1990 1995	27,713 34,389	245 323	21,579 23,653	1,899 3,843	4,160 5,115	49,199 55,472	3,915 3,110	12,210 12,198	92,962 103,390	12,052 20,752	10,367 9,502					
1996	37,140	323	23,628	3,508	4,845	54,999	3,110	10,505	100,639	29,708	11,082					
1997	36,692	324	23,057	3,508 R 2,184	4,269	55,694	2,542	10,529	98,274	29,573	11,521					
1998 1999	36,415 38,216	329 337	22,409 24.061	R 3,525 1,963	3,252 7,025	57,416 57,669	1,440 1.461	9,203 9,432	R 97,244 101,611	28,663 30.892	10,565 7,760					
2000	40,103	354	24,607	2,348	7,381	57,162	4,229	9,678	105,406	31,369	5,818					
2001	37,694	333	23,337	2,343	7,163	57,718	1,517	11,832	103,910	30,357	8,356					
2002 2003	37,072 39,306	379 351	22,718 27,155	2,257 2,569	5,273 4,195	61,607 59,207	3,989 1,284	12,250 12,686	108,095 107,095	31,857 31,677	8,825 12,665					
2004	38,908	383	31,319	2,554	4,458	62,118	1,699	14,970	117,118	31,636	10,626					
2005 2006	40,568 40,551	353 391	29,891 30,040	2,466 2,313	3,007 R 3,371	62,866 63,465	1,778 2,258	15,315 14,476	115,323 R 115,923	31,694 31,911	10,145 7,252					
2007	40,422	420	29,284	2,313	3,925	64,300	2,161	13,145	115,137	34,325	4,136					
								Trillion Btu								
1960 1965	395.4 533.1	190.7 236.9	31.4 30.6	6.1 6.2	12.9 16.9	129.1 151.9	27.0 16.0	30.2 42.8	236.6 264.4	0.0 0.0	67.1 74.2	45.7 47.6	0.0 0.0	-68.3 -109.2	0.0 0.0	867.2 1,047.2
1970	675.6	307.8	49.6	9.9	28.7	194.4	20.7	52.1	355.3	0.0	80.1	52.4	0.0	-74.2	0.0	1,396.9
1975 1980	640.1 661.0	271.7 R 278.4	85.6 88.5	9.4	24.3 18.2	237.3 232.7	81.4 45.9	52.5 61.4	490.6 457.9	30.0	127.1 97.7	57.6 141.0	0.0 0.0	-98.3 -238.6	0.0	1,518.7 1,653.8
1985	662.9	227.8	84.6	11.3 19.7	13.1	228.4	45.9 14.1	67.2	457.9 427.2	256.3 152.0	71.9	175.4	0.0	-230.0 -179.5	-0.1 1.3	1,539.0
1990	682.5	R 252.5	125.7	10.6	15.1	258.4	24.6	73.0	507.4	127.5	107.8	143.7	0.2	-127.1	1.3	1,695.8
1995 1996	828.3 890.7	332.4 337.8	137.8 137.6	21.8 19.9	18.5 17.5	289.3 286.9	19.6 19.8	73.6 65.4	560.5 547.2	218.0 312.0	98.0 114.6	222.0 208.6	0.2 0.2	-249.4 -379.1	(s) (s)	2,010.0 2,032.0
1996	867.3	R 337.5	134.3	12.4	17.5	290.3	16.0	65.4	533.8	312.0	117.7	181.9	0.2	-379.1	(S)	2,032.0
1998	856.5	342.0	130.5	20.0	11.8	299.3	9.1	56.9	527.4	300.7	107.7	209.2	0.2	-304.8	(s)	2,038.9
1999 2000	866.5 904.2	349.1 368.5	140.2 143.3	11.1 13.3	25.4 26.6	300.5 297.8	9.2 26.6	58.2 60.1	544.6 567.8	322.8 327.1	79.3 59.3	210.8 203.9	0.2 0.2	-284.7 -288.8	(s) 0.0	2,088.6 2,142.2
2001	842.3	344.0	135.9	13.3	25.9	300.7	9.5	70.8	556.1	317.2	86.3	165.0	0.2	-347.6	0.0	1,963.6
2002	846.0	399.6	132.3	12.8	19.1	320.9	25.1	73.4	583.5	332.6	89.8	162.8	0.2	-380.7	0.0	2,033.7
2003 2004	873.7 853.9	351.0 398.0	158.2 182.4	14.6 14.5	15.2 16.1	308.3 323.9	8.1 10.7	76.0 90.8	580.3 638.5	330.1 329.9	129.7 106.5	155.1 184.1	0.1 0.1	-412.5 -362.1	(s) 0.0	2,007.5 R 2,148.9
2004	890.1	364.1	174.1	14.0	10.9	328.0	11.2	93.2	631.4	330.7	100.5	R 182 3	0.1	-302.1	0.0	R 2 126 0
2006	886.7	402.4	175.0	13.1	12.2	331.2	14.2	88.2	R 633.8	333.0	71.9	R 196.2	0.2	-381.5	0.0	R 2,142.6
2007	888.4	431.4	170.6	13.2	14.1	335.6	13.6	79.4	626.4	360.0	40.9	189.3	0.2	-404.5	0.0	2,132.0

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alabama

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	162	41	36	163	2,101	2,300	1,084			4,129			
1965	56	48	36 24	169	2.672	2,865	765			6,150			
1970	71	56	36	236	4,920	5,192	515			11,527			
1975	6	52	74	134	4,920 3,916	4,124	530			13,409			
1980	48 27	52 44	13 24	198 73	2,589 2,088	2,800	817			16,469			
1985		44	24	73	2,088	2,184	1,456			17,182			
1990	21	45	17	38 66	2,688	2,743	757			20,719			
1995	1	50	10	66	2,849	2,926	602			24,314			
1996 1997	5 8	57	10	64	2,922	2,996	625 329			25,634			
1997	8	48 47	40 6	57 40	3,008 2,591	3,106 2,638	329 292			24,893 27,327			
1990	3	43	6	44	4,669	4,720	307			27,048			
2000	6	47	12	46	4,925	4,983	330			28,756			
2001	2	49	39	39	3,970	4,047	266			27,802			
2002	(s)	46	39 37	22	3,372	3,430	270			30,022			
2003	(s)	47	7	49	2,633	2,690	284			29,416			
2004	(s)	44	13	67	2,783	2.863	291			30,109			
2005		42	14	75	1.818	1,907	291 R 414			31,315			
2006	(s) 2	38	9	50	R 1,984	1,907 R 2,043	R 376			32,277			
2007	(s)	35	8	32	2,050	2,090	415			32,783			
						T	rillion Btu						
1960	4.0	42.3	0.2	0.9	8.4	9.6	21.7	0.0	0.0	14.1	91.6	34.8	126.5
1965	1.4	49.7	0.1	1.0	10.7	11.8	15.3	0.0	0.0	21.0	99.2	50.1	149.3
1970	1.7	57.5	0.2	1.3	18.6	20.1	10.3	0.0	0.0	39.3	129.0	95.2	224.2
975	0.1	53.8	0.4	0.8	14.5	15.7	10.6	0.0	0.0	45.8	126.0	110.0	236.1
980	1.2	54.1	0.1	1.1	9.5	10.7	16.3	0.0	0.0	56.2	138.5	135.4	273.9
985	0.7	45.4	0.1	0.4	7.5	8.1	29.1	0.0	0.0	58.6	141.8	135.0	276.8
990 995	0.5	46.7	0.1 0.1	0.2 0.4	9.7 10.3	10.1 10.8	15.1 12.0	(s)	0.1 0.2	70.7 83.0	143.2 157.0	163.5 188.4	306.7 345.4
1995	(s) 0.1	51.0 58.4	0.1	0.4	10.5	11.0	12.5	(s) (s)	0.2	87.5	169.6	198.9	368.5
1997	0.1	50.5	0.1	0.4	10.0	11.4	6.6	(s)	0.2	84.9	153.8	192.4	346.2
1998	(s)	48.4	U.Z (g)	0.3	9.4	9.6	5.8	(S)	0.1	93.2	157.3	211.4	368.7
999	0.1	44.2	(s) (s)	0.2	16.9	17.2	6.1	(s)	0.1	92.3	160.0	211.1	371.1
2000	0.1	49.5	0.1	0.3	17.8	18.1	6.6	(s)	0.1	98.1	172.6	223.2	395.8
2001	(s)	50.8	0.2	0.2	14.3	14.8	5.3	(s)	0.1	94.9	166.0	211.4	377.4
2002	(s)	49.5	0.2	0.1	12.2	12.5	5.4	(s)	0.1	102.4	170.0	228.3	398.3
2003	(s)	46.2	(s)	0.3	9.6	9.9	5.7	(s)	0.1	100.4	162.2	221.5	383 7
2004	(s)	45.9	(s) 0.1	0.4	10.1	10.5	5.8	(s)	0.1	102.7	165.1	227.3	392.4
2005		43.4	0.1	0.4	6.6	7.1	R 8.3	(s)	0.1	106.8	R 165.7	233.7	R 399.4
2006	(s) 0.1	39.2	0.1	0.3	R 7.2	R 7.5	5.8 R 8.3 R 7.5	(s) (s) 0.1	0.1	110.1	^R 164.6	238.1	392.4 R 399.4 R 402.7
2007	(s)	36.2	(s)	0.2	7.4	7.6	8.3	0.1	0.1	111.9	164.1	241.3	405.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alabama

					Petro	oleum				Biomass		.			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses i	Total f,h
1960	112	17	264	294	371	327	(c)	1,257	0			2,390			
1965	42	32	175	306	472	327	(s) (s) (s)	1,280	0			2,390 3,443			
1970	42 56	32 36	264	426	868	391	(s)	1,950	0			5,144			
1975	14	33	547	242	691	453	1	1,934	0			6,493			
1980	180	29	641	176	457	258	3	1,535	0			7,190			
1985	96	26	913	16	368	251	514	2,061	0			8,805			
1990	84	24	739	11	474	258	606	2,088	0			11,589			
1995	6	26	644	10	503	42	3	1,201	0			12,845			
1996	39	29	556	9	516	42	1	1,123	0			13,948			
1997	65	32	537	9	531	41	0	1,118	0			17,043			
1998 1999	8 20	26 28	567 570	21 6	457 824	41 41	0	1,086 1,441	0			18,307 18,820			
2000	47	26	748	9	869	41	(s)	1,441	0			19,734			
2000	14	26	837	26	701	43	(5)	1,606	0			19,734			
2002	3	25	783	16	595	43	0	1,438	0			20,430			
2003	3	25	1,059	24	465	43	0	1,592	0			20,411			
2004		26	1,105	25	491	44	Ö	1,665	Õ			21,166			
2005	(s) 2	25	749	18	321	44	8	1 141	0			21,608			
2006	R 23	24	1,533	10	R 350	45	1	R 1,938	0			22,120			
2007	1	23	1,265	5	362	45	0	1,676	0			22,873			
								Trillion Btu							
1960	2.8	18.1	1.5	1.7	1.5	1.7	(s)	6.4	0.0	0.4	0.0	8.2	35.9	20.2	56.0
1965	1.1	33.0	1.0	1.7	1.9	1.7	(s) (s)	6.4	0.0	0.3	0.0	11.7	52.5	28.1	80.6
1970	1.3	37.4	1.5	2.4	3.3	2.1		9.3	0.0	0.2	0.0	17.6	65.8	42.5	108.2
1975	0.3	34.4	3.2	1.4	2.6	2.4	(s)	9.5	0.0	0.2	0.0	22.2	66.6	53.3	119.9
1980	4.3	29.5	3.7	1.0	1.7	1.4	(s) 3.2	7.8	0.0	0.4	0.0	24.5	66.5	59.1	125.7
1985 1990	2.3 2.1	26.8 25.0	5.3 4.3	0.1 0.1	1.3 1.7	1.3 1.4	3.2	11.3 11.2	0.0 0.0	0.7 1.7	0.0 0.0	30.0 39.5	71.2 79.5	69.2 91.4	140.4 170.9
1990	0.2	27.0	4.3 3.8	0.1	1.7	0.2		5.9	0.0	1.7	0.0	43.8	79.5 78.5	91.4	178.0
1995	1.0	30.0	3.2	0.1	1.0	0.2	(s) (s)	5.4	0.0	1.7	0.0	47.6	85.6	108.2	193.8
1997	1.6	33.7	3.1	0.1	1.9	0.2	0.0	5.3	0.0	1.1	0.0	58.2	99.9	131.8	231.6
1998	0.2	26.7	3.3	0.1	1.7	0.2	0.0	5.3	0.0	1.0	0.0	62.5	95.6	141.7	237.3
1999	0.5	28.6	3.3	(s)	3.0	0.2	0.0	6.5	0.0	1.0	0.0	64.2	100.9	146.9	247.7
2000	1.2	26.7	4.4	0.1	3.1	0.2	(s)	7.8	0.0	1.1	0.0	67.3	104.1	153.2	257.2
2001	0.3	27.2	4.9	0.1	2.5	0.2	0.0	7.8	0.0	0.9	0.0	66.9	103.1	149.1	252.2
2002	0.1	26.6	4.6	0.1	2.1	0.2	0.0	7.0	0.0	1.0	0.0	69.7	104.4	155.4	259.8
2003	0.1	25.1	6.2	0.1	1.7	0.2	0.0	8.2	0.0	1.0	0.0	69.6	104.0	153.7	257.7
2004	(s) (s) 0.6	27.7	6.4	0.1	1.8	0.2	0.0	8.6	0.0	1.0	0.0	72.2	109.5	159.8	269.3
2005	(s)	25.9	4.4	0.1	1.2	0.2	0.1	5.9	0.0	R 1.3	0.0	73.7	106.9	161.3	R 268.1 R 276.1
2006	0.6	25.1	8.9	0.1	1.3	0.2	(s)	10.5	0.0	R 1.2	0.0	75.5	112.9	163.2	^r 276.1
2007	(s)	23.9	7.4	(s)	1.3	0.2	0.0	8.9	0.0	1.3	0.0	78.0	112.2	168.4	280.6

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

^h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alabama

					Petro	leum				Biomass					
		Natural	Distillate		Motor	Residual			Hydro- electric	Diomass		Retail Electricity			
	Coal	Gas a	Fuel Oil	LPG ^b	Gasoline ^C	Fuel Oil	Other ^d	Total	Power ^{e,f}			Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	7,904	109	2,511	708	382	2,014	3,765	9,380	26			8,966			
1965	8,774	132	1,962	1,020	372		5,637	9,935	25			13,636			
1970 1975	11,177 9,288	171 156	2,833 4,475	1,696 1,846	204 198	1,611 5,814	6,643 7,353	12,987 19,686	25 25			18,041 20,473			
1975	9,200 7,221	171	3,356	1,857	196	3,787	9,049	18,154	25 24			26,708			
1985	5.476	138	2,597	1,031	507	96	10,453	14,683	24			24,179			
1990	5,525	156	4,580	901	443	444	11,548	17,916	0			27,618			
1995	5,543 5,792	218	4,397	1,670	674	504	11,551	18,795	0			32,847			
1996	5,792	215	5,086	1,330	678	705	9,879	17,677	0			33,523			
1997	5,694	211	4,407	661	719	600	9,873	16,261	0			32,617			
1998	4,846	209	3,726	187	519		8,550	13,596	0			33,539			
1999 2000	4,645 4,415	220 216	3,735 2,938	1,517 1,548	443 443	594 1,338	8,766 9,033	15,054 15,300	0			34,533 35,034			
2000	3,877	168	3,212	2,481	1,002	796	11,221	18,712	0			31,949			
2002	3,523	174	3,281	1,290	1,068	1,871	11,699	19,208	0			32,615			
2003	3,703	174	6,817	1,035	1,133	274	12,114	21.373	ő			34,017			
2004	3,824	179	6,823	997	1,278	431	14,371	23.900	0			35,595			
2005	3,570	166	6,488	_ 794	1,207	747	14,718	23,953 R 22,471	0			36,279			
2006	R 3,357	168	5,571	R 957	1,295	766	13,882	K 22,471	0			36,281			
2007	3,188	170	4,899	1,459	1,122	814	12,562	20,857	0			36,172			
							Tr	Ilion Btu							
1960	209.9	112.8	14.6	2.8	2.0	12.7	23.8	55.9	0.3	23.6	0.0	30.6	433.0	75.7	508.7
1965	232.0	136.0	11.4	4.1	2.0	5.9	35.2	58.7	0.3	32.1	0.0		505.5	111.1	616.6
1970	291.4	176.5	16.5	6.4	1.1	10.1	41.3	75.4	0.3	41.9	0.0		647.0	149.0	796.0
1975 1980	238.8 187.0	160.0 R 176.3	26.1 19.6	6.9 6.8		36.6 23.8	45.4 55.1	115.9 105.8	0.3 0.2	46.8 124.3	0.0 0.0		631.7 684.7	168.0 219.6	799.7 904.4
1985	140.4	R 143.0	15.1	3.7	2.7	0.6	63.2	85.3	0.2	145.6	0.0		597.0	190.0	787.0
1990	143.3	R 160.0	26.7	3.3	2.3	2.8	69.2	104.2	0.0	100.9	0.0		602.5	217.9	820.4
1995	144.1	224.7	25.6	6.1	3.5		69.8	108.1	0.0	187.7	0.0		776.7	254.5	1,031.2
1996	150.1	221.8	29.6	4.8	3.5	4.4	61.8	104.2	0.0	174.3	0.0		764.8	260.1	1,024.9
1997	146.8	R 219.5	25.7	2.4	3.7	3.8	61.5	97.1	0.0	155.7	0.0		730.3	252.1	982.4
1998	126.7	217.5	21.7	0.7	2.7	3.9	53.0	81.9	0.0	184.2	0.0	114.4	724.8	259.5	984.3
1999	121.4	227.4	21.8	5.5	2.3	3.7	54.3	87.6	0.0	191.5	(s)	117.8	745.7	269.5	1,015.3
2000	116.7	225.2	17.1	5.6	2.3	8.4	56.3	89.7	0.0	193.0	(s)	119.5	744.1	271.9	1,016.0
2001 2002	102.1 92.8	173.6 185.0	18.7 19.1	9.0 4.7	5.2 5.6	5.0 11.8	67.2 70.1	105.1 111.2	0.0 0.0	155.2 153.3	(s)	109.0 111.3	645.1 653.6	242.9 248.1	888.0 901.7
2002	92.8 97.8	185.0	19.1 39.7	3.8	5.6 5.9	11.8	70.1	111.2	0.0	153.3	(s) (s)	111.3	655.4	248.1 256.1	901.7
2003	100.5	187.7	39.7	3.6		2.7	87.3	140.0	0.0	174.1	(s)	121.5	723.7	268.7	992.5
2005	90.4	171.6	37.8	29	6.3	4.7	89.7	141.4	0.0	169.3	(s)	123.8	696.6	270.7	967.3
2006	85.4	172.9	32.5	K 3.5	6.8	4.8	84.7	141.4 R 132.2	0.0	K 183.7	(s)	123.8	696.6 R 698.1	267.7	967.3 R 965.8
2007	81.4	173.6	28.5	5.2	5.9	5.1	76.0	120.8	0.0	176.0	(s)		675.3	266.3	941.6

^a Includes supplemental gaseous fuels.

but should be counted only once in net energy and total.

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. - - = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alabama

						Pe	troleum					D "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total ^{e,f}				
1960	136	8	280	2,582 3,090	1,126	31	396	23,869	2,278	30,562	0	0			
1965	29	12	446	3,090	1,156	43	430	28,220	1,608	34,993	0	0			
1970	18	20	349	5,353	1,799	98 87	421	36,408	1,679	46,107	0	0			
1975 1980	2 0	17 16	249 248	9,087	1,707 2,048	87 46	609 486	44,523 43,934	7,039 3,506	63,300	0 0	0			
1985	0	11	172	11,049 10,899	3,516	161	442	42,718	1,640	61,318 59,548	362	0			
1990	ő	15	116	16,110	1,899	96	497	48.498	2.865	70,082	461	Ő			
1995	0	20	97	18,421	3,843	96 93 78	475	54,756	2,603	80,288	574	(s)			
1996	0	19	93	17,676	3,508	78	461	54,279	2,448	78,543 R 77,560	99	(s)			
1997 1998	0	21	103 82	17,842 17,637	R 2,184	68 17	487	54,934	1,942 826	R 77,560 R 79,451	98	0			
1998	0	20 22	102	19,453	R 3,525 1,963	17	509 515	56,856 57,185	868	80,100	81 11	0			
2000	0	23	83	20,440	2,348	40	507	56,678	2,891	82,986	0	0			
2001	Ö	20	82	18,709	2,343	11	465	56,673	721	79,004	366	Ö			
2002	0	22	54	18,259	2,257	16	459	60,496	2,118	83,661	249	0			
2003	0	19	74	18,810	2,569	61	424	58,031	1,010	80,980	360	(s)			
2004 2005	0	16 15	77 77	23,139 22,368	2,554 2,466	186 74	430 428	60,796 61,615	1,268 1,022	88,450 88,049	711 R ₄₇	(s)			
2005	0	15	118	22,300	2,400	74 80	420	62,125	1,492	89,293	R 43	(s) (s)			
2007	ő	16	116	22,963	2,321	55	430	63,133	1,346	90,365	134	(s)			
								Trillion Btu							
1960	3.4	7.9	1.4	15.0	6.1	0.1	2.4	125.4	14.3	164.7	0.0	0.0	176.0	0.0	176.0
1965	0.7	12.4	2.3	18.0	6.2	0.2	2.6	148.2	10.1	187.6	0.0	0.0	200.7	0.0	200.7
1970 1975	0.4	20.5 17.3	1.8 1.3	31.2 52.9	9.9 9.4	0.4 0.3	2.6 3.7	191.3 233.9	10.6 44.3	247.6 345.8	0.0 0.0	0.0 0.0	268.5 363.1	0.0 0.0	268.5 363.1
1975	(s) 0.0	17.3	1.3	64.4	11.3	0.3	2.9	230.8	22.0	332.9	0.0	0.0	349.9	0.0	349.9
1985	0.0	11.5	0.9	63.5	19.7	0.6	2.7	224.4	10.3	322.0	1.3	0.0	334.8	0.0	334.8
1990	0.0	15.1	0.6	93.8	10.6	0.3	3.0	254.8	18.0	381.1	1.6	0.0	397.8	0.0	397.8
1995	0.0	20.7	0.5	107.3	21.8	0.3	2.9	285.6	16.4	434.7	2.0	(s) (s) 0.0	455.4 444.7	(s)	455.4
1996	0.0	19.8	0.5	103.0	19.9	0.3	2.8	283.1	15.4	424.9	0.4	(s)	444.7	(s) 0.0	444.7
1997 1998	0.0	21.6 20.8	0.5 0.4	103.9 102.7	12.4 20.0	0.2 0.1	3.0	286.4 296.3	12.2	418.6 427.8	0.3	0.0 0.0	440.2 448.6		440.2 448.6
1998	0.0 0.0	23.0	0.4	113.3	20.0	0.1	3.1 3.1	298.0	5.2 5.5	427.8	0.3 (s)	0.0	448.6 454.5	0.0 0.0	448.6 454.5
2000	0.0	23.7	0.5	119.1	13.3	0.1	3.1	295.3	18.2	449.5	0.0	0.0	473.2	0.0	473.2
2001	0.0	20.7	0.4	109.0	13.3		2.8	295.3	4.5	425.3	1.3	0.0	446.0	0.0	446.0
2002	0.0	23.3	0.3	106.4	12.8	(s) 0.1	2.8	315.1	13.3	450.7	0.9	0.0	473.9	0.0	473.9
2003	0.0	18.8	0.4	109.6	14.6	0.2	2.6	302.2	6.4	435.8	1.3	(s)	454.7	(s)	454.7
2004	0.0	16.8	0.4	134.8	14.5	0.7	2.6	317.1	8.0	478.0	2.5 R 0.2	(s)	494.7	(s)	494.7
2005 2006	0.0 0.0	15.6 R 15.4	0.4 0.6	130.3 132.5	14.0 13.1	0.3	2.6	321.5 324.2	6.4	475.5 482.6	R 0.2	(s)	491.1 R 498.0	(s)	491.1 R 498.0
2006	0.0	16.1	0.6	132.5	13.1	0.3 0.2	2.5 2.6	324.2 329.5	9.4 8.5	482.6 488.3	0.5	(s) (s)	504.4	(s) (s)	504.4

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Alabama

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^C	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wasal	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Total ^{f,i}			
1960	7,264	9	0	(s)	0	(s)	0	6,213		0	0	0	0	
1965	12,572	6	0	(s) 0	Ö	(s) 0	Ö	7,078		Ō	0	Ö	0	
1970	16,331	15	0	26	448	474	0	7,607		0	0	0	0	
1975	17,301	6	99	514	0	613	2,722	12,188		0	0	0	0	
1980	19,593	1	0	131	0	131	23,497	9,385		0	0	0	0	
1985 1990	21,545 22,084	1	0	88 133	0	88 133	14,313 12,052	6,862 10,367		0	0	0	0	
1990	28,839	9	0	181	0	181	20,752	9,502		0	0	0	0	
1996	31,303	8	0	300	0	300	29,708	11,082		0	0	0	0	
1997	30,925	12	0	230	0	230	29,573	11,521		ő	0	0	0	
1998	31,560	28	0	473	Õ	473	28,663	10,565		Õ	0	0	Õ	
1999	33,548	25	Ō	296	0	296	30,892	7,760		0	Ō	0	0	
2000	35,636	42	0	469	0	469	31,369	5,818		0	0	0	0	
2001	33,801	69	0	541	0	541	30,357	8,356		0	0	0	0	
2002	33,545	112	0	359	0	359	31,857	8,825		0	0	0	0	
2003	35,600	.86	0	460	0	460	31,677	12,665		0	0	0	0	
2004	35,083	117	0	240 272	0	240 272	31,636	10,626		0	0	0	0	
2005 2006	36,997 37,168	105 146	0	272 177	0	177	31,694 31,911	10,145 7,252		0	0	0	0	
2000	37,100	176	0	148	0	148	34,325	4,136		0	0	0	0	
							Trillion E	Btu .						
1960	175.3	9.7	0.0	(s)	0.0	(s)	0.0	66.9	0.0	0.0	0.0	0.0	0.0	251.8
1965	298.0	5.8	0.0	0.0	0.0	0.0	0.0	74.0	0.0	0.0	0.0	0.0	0.0	377.7
1970	380.7	15.9	0.0	0.2	2.7	2.9	0.0	79.8	0.0	0.0	0.0	0.0	0.0	479.3
1975	400.7	6.2	0.6	3.0	0.0	3.6	30.0	126.8	0.0	0.0	0.0	0.0	0.0	567.4
1980	468.5	1.6	0.0	0.8	0.0	0.8	256.3	97.5	0.0	0.0	0.0	0.0	0.0	824.6
1985	519.5	1.2	0.0	0.5	0.0	0.5	152.0	71.7	0.0	0.0	0.0	0.0	0.0	744.9
1990	536.6	R 5.7	0.0	0.8	0.0	0.8	127.5	107.8	26.0	0.0	0.0	0.0	0.0	804.4
1995	684.0	9.0	0.0	1.1	0.0	1.1	218.0	98.0	20.6	0.0	0.0	0.0	0.0	1,030.7
1996 1997	739.6 718.7	7.8 12.2	0.0 0.0	1.7 1.3	0.0 0.0	1.7 1.3	312.0 310.3	114.6 117.7	20.1 18.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,195.7 1,178.7
1997	716.7 729.6	28.6	0.0	1.3 2.8	0.0	1.3 2.8	300.7	107.7	18.2	0.0	0.0	0.0	0.0	1,176.7
1999	744.5	R 26.0	0.0	1.7	0.0	1.7	322.8	79.3	12.2	0.0	0.0	0.0	0.0	1,186.5
2000	786.2	43.4	0.0	2.7	0.0	2.7	327.1	59.3	3.3	0.0	0.0	0.0	0.0	1,100.5
2001	740.0	71.6	0.0	3.1	0.0	3.1	317.2	86.3	3.3 3.5	0.0	0.0	0.0	0.0	1,221.8
2002	753.1	115.2	0.0	2.1	0.0	2.1	332.6	89.8	3.1	0.0	0.0	0.0	0.0	1.295.9
2003	775.8	88.5	0.0	2.7	0.0	2.7	330.1	129.7	3.0	0.0	0.0	0.0	0.0	1,329.8
2004	753.4	119.9	0.0	1.4	0.0	1.4	329.9	106.5	3.2	0.0	0.0	0.0	0.0	1,314.3
2005	799.6	107.6	0.0	1.6	0.0	1.6	330.7	101.4	3.4	0.0	0.0	0.0	0.0	1,344.4
2006	800.6	149.7	0.0	1.0	0.0	1.0	333.0	71.9	3.7	0.0	0.0	0.0	0.0	1,359.9
2007	807.0	181.5	0.0	0.9	0.0	0.9	360.0	40.9	3.7	0.0	0.0	0.0	0.0	1,393.9

^a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

 ^g Solar thermal and photovoltaic energy.
 ^h Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Alaska

						Petroleum				Nuclean	Uhadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	Million kWh		and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g			
1960	376	2	2,636 3,788	1,972	46	1,657	711	1,176	8,197	0	290					
1965 1970	525 740	8 64	3,788 5,100	3,005 6,735	91 151	2,450 2,621	881 1,020	760 1,352	10,975 16,979	0	350 363					
1975	868	85	7,090	7,420	211	4,179	1,075	1,824	21,800	0	357					
1980	273	153	6,677	9,618	191	3,676	371	2,387	22,919	0	539					
1985 1990	733 784	213 343	10,198 10,548	15,231 17,367	331 384	5,638 5,854	3,072 426	7,013 5,462	41,482 40,041	0	748 975					
1995	815	430	12,803	16.921	272	7,148	746	3,780	R 41,669	0	1,372					
1996	706	448	11,837	18,652 R 21,108	241	6,735	906	4,416	42 786	0	1,266					
1997 1998	740 1,012	425 435	11,979 11,503	^K 21,108 R 21,886	326 320	6,312 6,737	864 828	4,681 4,395	R 45,270 R 45,669	0	1,099 1,113					
1990	1,012	433	12,164	23,612	266	6,426	1,068	4,395 5,016	48,552	0	817					
2000	1,024	427	10,875	25.872	221	5,973	788	4,770	48,500	0	1,002					
2001	989	409	11,675	24,262	261	6,383	1,129	7,032	50,742	0	1,346					
2002 2003	1,034 790	419 414	10,815 9,725	R 25,111 27,355	318 314	5,923 5,919	1,057 864	5,479 5,832	48,702 50,009	0	1,439 1,583					
2004	891	406	14,059	30,954	209	6,947	702	5,993	58,864	ő	1,498					
2005	905	₂ 433	12,584	31,940	266	6,853	708	6,319	58,670	0	1,464					
2006 2007	968 849	R 374 370	13,936 13,534	31,747 29,053	R 277 209	6,789 6,927	713 734	6,844 6,555	R 60,306 57,012	0	1,224 1,291					
								Trillion Btu								
1960 1965	7.2	2.0 7.7	15.4 22.1	10.6 16.5	0.2 0.4	8.7 12.9	4.5 5.5	6.1	45.4 61.7	0.0 0.0	3.1 3.7	3.7 4.9	0.0 0.0	0.0	0.0 0.0	61.4 87.8
1970	9.9 13.2	64.0	29.7	37.7	0.4	13.8	6.4	4.4 7.8	96.0	0.0	3.8	5.0	0.0	0.0 0.0	(s)	182.0
1975	15.3	85.2	41.3	41.7	0.8	22.0	6.8	10.7	123.1	0.0	3.7	4.9	0.0	0.0	0.0	232.2
1980	4.3	153.8	38.9	54.0	0.7	19.3	2.3	14.0	129.3	0.0	5.6	2.7	0.0	0.0	0.0	295.8
1985 1990	11.6 12.4	214.0 326.8	59.4 61.4	85.8 97.9	1.2 1.4	29.6 30.8	19.3 2.7	41.7 32.2	237.0 226.4	0.0 0.0	7.8 10.1	4.0 8.2	(s) 0.1	0.0 0.0	0.0 (s)	474.4 584.0
1995	12.9	432.8	74.6	95.9	1.0	37.3	4.7	22.5	236.0	0.0	14.1	8.3	0.1	0.0	(s)	704.2
1996	11.2	443.6	68.9	105.8 R 119.7	0.9	35.1	5.7	26.4	242.8	0.0	13.1	8.0	0.1	0.0	(s) (s)	718.8
1997 1998	11.7 16.5	425.4 434.4	69.8 67.0	R 119.7 R 124.2	1.2 1.2	32.9 35.1	5.4 5.2	27.8 26.5	256.7 R 259.1	0.0 0.0	11.2 11.4	3.7 1.9	0.1 0.1	0.0 0.0	(s) (s)	708.8 R 723.3
1999	16.4	422.8	70.9	134.1	1.0	33.5	6.7	29.8	276.0	0.0	8.4	1.8	0.1	0.0	(s)	725.4
2000	16.5	333.7	63.3	146.7	0.8	31.1	5.0	28.6	275.5	0.0	10.2	1.9	0.1	0.0	(s)	637.9
2001 2002	15.9 16.4	413.0 425.0	68.0 63.0	137.6 143.2	0.9 1.1	33.3 30.8	7.1 6.6	43.0 33.0	289.9 277.8	0.0 0.0	13.9 14.6	3.0 3.2	0.1 0.1	0.0 0.0	(s)	735.8 737.2
2003	12.6	420.0 420.0	56.7	155.2	1.1	30.8	5.4	34.9	284.1	0.0	16.2	3.2	0.1	0.0	(s) (s)	736.2
2004	14.1	412.0	81.9	175.5	0.8	36.2	4.4	36.0	334.8	0.0	15.0	3.3	0.1	0.0	(s)	779.3
2005	14.0	433.8 R 374.2	73.3	181.1	1.0 R 1.0	35.8	4.5	37.7	333.3 R 342.7	0.0	14.6	R 1.7 R 1.6	0.1	0.0	(s) (s) (s)	R 797.5 R 745.7
2006 2007	15.0 13.0	374.2	81.2 78.8	180.0 164.7	0.7	35.4 36.2	4.5 4.6	40.7 39.0	324.1	0.0 0.0	12.1 12.8	1.7	0.1 0.1	0.0 0.0	(S)	723.6

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alaska

				Petro	leum		Biomass			D / "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960 1965	38 20	(s)	866 1,110	0 10	36 77	902 1,197	90 80			151 292			
1970	13	6	1.362	19	77	1.458	65			527			
1970 1975	13 5	10	1,621	91	69	1,781	71			898			
1980 1985	0	.8	1,172	0	69 58 192	1,231	47			1,092			
1985	96	13	1,274	1	192	1,466	93			1,674			
1990 1995	99 68	14 15	1,557 2,024	3	300 157	1,860 2,181	76 92			1,661 1,713			
1996	57	16	1,927	(s) (s)	195	2,101	96			1,713			
1997	55	15	1,849	(s)	123	1,972	96 78			1,726			
1998 1999	58	16	1.672	1	98	1.771	70			1,768			
1999	58 66 58 52 57 58	18	2,033	17	213	2,263	73			1,866			
2000	58	16 17	1,731	13	188	1,933	79			1,855			
2001 2002	52 57	17	1,824	16	214 211	2,054 1,702	126 128			1,891 1,932			
2002	57 58	16 17	1,491 1,429	(s) 15	234	1,678	134			1,987			
2004	50	18	1,687	20	147	1,854	138			2,062			
2005	40	18	1.619	31	217	1 868	138 R 69			2.062			
2006	R 50	21	1,932	275	R 211	^R 2,418	R 63			2,120			
2007	43	20	1,458	161	161	1,781	69			2,114			
						Т	rillion Btu						
1960	0.7	0.2	5.0	0.0	0.1	5.2	1.8	0.0	0.0	0.5	8.4	1.8	10.2
1960 1965 1970	0.4 0.2	0.2 1.5	6.5	0.1	0.3	5.2 6.8	1.6	0.0	0.0	1.0	11.2	3.9	15.1
1970	0.2	6.2	7.9	0.1	0.3	8.3	1.3	0.0	0.0	1.8	17.9	7.1	25.0
19/5	0.1	10.4	9.4	0.5	0.3	10.2	1.4	0.0	0.0	3.1	25.2	11.0	36.2
1980 1985	0.0	7.9	6.8	0.0	0.2	7.0	0.9	0.0	0.0	3.7 5.7	19.7	15.0	34.7 47.0
1985	1.5 1.6	13.3 13.4	7.4 9.1	(s)	0.7 1.1	8.1 10.2	1.9 1.5	0.0 (s)	0.0 (s)	5.7 5.7	30.6 32.3	16.5 15.4	47.0 47.7
1995	1.0	15.3	9.1 11.8	(s) (s)	0.6	12.4	1.5	(5)	(5)	5.8	36.5	14.0	50.5
1996	0.9	16.0	11.8 11.2	(s)	0.7	11.9	1.8 1.9	(s)	(s) (s)	6.0	36.8	14.3	51.1
1997	0.9	15.1	10.8	(s)	0.4	11.2	1.6	(s)	(s)	5.9	34.7	14.3	49.0
1998	0.9	15.6	9.7	(s) 0.1	0.4	10.1	1.4	(s)	(s)	6.0	34.1	13.6	47.7
1999	1.0	17.6	11.8		0.8	12.7	1.5	(s)	(s)	6.4	39.3	13.2	52.5
2000	0.9	12.2	10.1	0.1	0.7	10.8	1.6	(s)	(s)	6.3	31.9	14.9	46.8
2001	0.8	17.0	10.6	0.1	0.8	11.5	2.5	(s)	(s)	6.5	38.3	16.0	54.3
2002 2003	0.9 0.9	16.4 17.1	8.7 8.3	(s) 0.1	0.8 0.9	9.4 9.3	2.6 2.7	(s) 0.1	(s)	6.6 6.8	35.9 36.8	16.5 16.3	52.4 53.1
2003	0.9	18.5	8.3 9.8	0.1	0.9	9.3 10.5	2.7 2.0	(s)	(s) (s)	7.0	39.5	16.3	55.1 56.3
2004	0.6	18.1	9.4	0.1	0.8	10.5	2.8 R 1.4	(S)	(s)	7.0	R 37 5	16.6	R 54.1
2006	0.6 R 0.8	20.6	11.3	1.6	0.8	13.6	R 1.3		(s)	7.2	R 43.5	16.7	R 60.2
2007	0.7	20.6 19.9	11.3 8.5	0.9	0.6	10.0	1.4	(s) 0.1	(s)	7.2 7.2	39.3	15.1	56.3 R 54.1 R 60.2 54.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alaska

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	26	0	268	0	6	130	464	868	0			99			
1965	15	2	344	0	14	253	751	1,361	0			267			
1970 1975	10	13	422 502	0	14 12	246 415	807 558	1,488 1,487	0			478 657			
1975	12 0	14 17	502 577	0	10	258	558	1,487	0			728			
1985	341	20	901	3	10 34 53	268	0	1,205	0			1,898			
1990	395	22	1,049	(s)	53	52	Ō	1,154	0			2,133			
1995	455	25	1,035	(s)	28	21	0	1,084	0			2,372			
1996 1997	417 448	27	1,181 947	(s)	34 22	294 71	0	1,509 1,040	0			2,429			
1997	446 472	27 27	1,068	(s) (s)	22 17	116	0	1,040	0			2,359 2,508			
1999	486	28	1,310	1	38	88	0	1,437	0			2,583			
2000	466	26	1,155	(s)	33	64	0	1,252	0			2,418			
2001	421	16	1,686	1	38	680	0	2,405	0			2,483			
2002	414	16	1,239	(s)	37	124	0	1,400	0			2,445			
2003 2004	390 447	17	905 1,158	(s)	41 26	9 95	0	955 1,279	0			2,473 2,601			
2004	465	18 17	1,006	1	38	168	0	1,213	0			2,695			
2006	R 508	19	1,166	185	R 37	156	3	R 1,547	ő			2,819			
2007	390	19	981	106	28	176	0	1,292	0			2,828			
								Trillion Btu							
1960	0.5	0.0	1.6	0.0	(s)	0.7	2.9	5.2	0.0	(s)	0.0	0.3	6.1	1.2	7.3
1965	0.3	2.3	2.0	0.0	0.1	1.3	4.7	8.1	0.0	(s)	0.0	0.9	11.6	3.6	15.2
1970 1975	0.2	12.6 14.5	2.5	0.0	0.1	1.3	5.1	8.9 8.7	0.0	(s)	0.0 0.0	1.6	23.3 25.6	6.4	29.7
1975	0.2 0.0	14.5	2.9 3.4	0.0 0.0	(s) (s)	2.2 1.4	3.5 (s)	8.7 4.8	0.0 0.0	(s) (s)	0.0	2.2 2.5	25.6 23.8	8.1 10.0	33.7 33.8
1985	5.4	20.5	5.2	(s)	0.1	1.4	0.0	6.8	0.0	(s)	0.0	6.5	39.2	18.7	57.9
1990	6.2	20.5	6.1	(s)	0.2	0.3	0.0	6.6	0.0	0.2	(s)	7.3	40.7	19.8	60.5
1995	7.2	25.1	6.0	(s)	0.1	0.1	0.0	6.2	0.0	0.3	(s)	8.1	46.9	19.4	66.4
1996	6.6	27.0	6.9	(s)	0.1	1.5	0.0	8.5	0.0	0.3	(s)	8.3	50.7	19.7	70.4
1997 1998	7.1 7.4	26.9 27.0	5.5 6.2	(s)	0.1 0.1	0.4 0.6	0.0 0.0	6.0	0.0 0.0	0.3	(s)	8.0 8.6	48.3 50.2	19.5	67.8 69.5
1998	7.4	27.0	7.6	(s) (s)	0.1	0.6	0.0	6.9 8.2	0.0	0.2 0.2	(s) (s)	8.8	50.2 52.6	19.3 18.3	70.9
2000	7.0	20.2	6.7	(s)	0.1	0.3	0.0	7.2	0.0	0.2	(s)	8.3	43.1	19.4	62.6
2001	6.6	16.0	9.8	(s)	0.1	3.5	0.0	13.5	0.0	0.4	(s)	8.5	45.0	21.0	66.0
2002	6.5	15.9	7.2	(s)	0.1	0.6	0.0	8.0	0.0	0.5	(s)	8.3	39.2	20.9	60.1
2003	6.1	17.5	5.3	(s)	0.2	(s)	0.0	5.5	0.0	0.5	(s)	8.4	38.0	20.3	58.3
2004 2005	7.0 7.3	18.6 16.9	6.7 5.9	(s)	0.1 0.1	0.5 0.9	0.0 0.0	7.3 6.9	0.0 0.0	0.5 R 0.2	(s)	8.9 9.2	42.3 R 40.5	21.1 21.7	63.4 R 62.2
2005	R 7.9	18.5	5.9 6.8	(s) 1.0	0.1	0.9		8.8	0.0	R 0.2	(s) (s)	9.2	R 45.2	21.7	R 67 3
2007	6.1	18.8	5.7	0.6	0.1	0.9	(s) 0.0	7.3	0.0	R 0.2 0.2	(s)	9.7	R 45.2 42.2	20.2	R 67.3 62.4

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alaska

Coal						Petro	leum				Biomass					
Thousand Billion Cubic Feet Thousand Barrels Million Waste George Million Million Waste George Million Waste George Million Million Waste George Million Million Waste George Million M		Coal			LPG b			Other ^d	Total							
1970 467 19 1,923 60 107 73 812 2,975 0 101 1975 594 40 2,1174 130 106 31 1,146 3,533 0 4,85 1986 0 100 1,781 139 108 2,577 1,783 3,832 0 4,67 1985 0 0 100 1,781 139 4068 2,577 1,783 1,820 0 0 4,67 1995 0 0 3,58 3,099 85 62 375 3,298 6,920 0 546 1995 0 0 3,58 3,099 85 62 375 3,298 6,920 0 546 1997 1,733 9 64 3,875 0 0 546 1997 1,733 9 64 3,875 0 0 546 1997 2 345 3,583 180 54 139 4,180 8,134 0 0 7,56 1998 1 3,583 5,583 180 54 139 4,180 8,134 0 0 8,181 1998 1 3,483 3,285 16 25 0 4,477 7,705 0 0 8,181 1998 1 3,483 3,285 16 25 0 4,477 7,705 0 0 8,181 1998 1 3,483 3,285 16 25 0 4,477 7,705 0 0 10,107 9	Year					Thousand	d Barrels							Net Energy ^{f,h}	Energy	Total f,h
1970 467 19 1,923 60 107 73 812 2,975 0 101 175 1975 594 40 2,1177 130 106 31 1,146 3,533 0 4,85 1885 0 10 1,174 130 106 31 1,146 3,533 0 0 4,85 1885 0 10 1,174 130 106 31 1,146 3,533 0 0 4,57 7 1895 0 100 1,781 139 406 2,577 4,178 3,823 0 0 4,57 7 1995 0 2,578 3,099 85 62 375 3,298 6,920 0 5,46 1995 0 2,588 3,099 85 62 375 3,298 6,920 0 5,46 1997 1,147 1,147 1,148 1	1960	256	2	878	4	0	229	141	1.252	0			45			
1975 594 40 2,117 130 106 31 1,146 3,530 0 485 1986 0 100 1,784 119 111 14 1,795 3,823 0 757 1985 0 140 1,713 91 406 2,577 6,433 11,220 0 417 417 1986 0 2,71 1,31 91 406 2,577 6,433 11,220 0 417 448 1986 0 33 3,03 8 6 64 387 4,487 6,481 0 0 544 544 1986 0 3,53 3,593 8 6 64 387 4,180 8,134 0 544 1988 1 3,583 3,583 19 8 64 387 4,180 8,134 0 848 1988 1 3,583 3,583 19 9 4,180 8,134 0 818 756 1988 1 3,583 3,583 19 9 4,180 8,134 10 818 1998 1 3,583 3,583 2,585 204 79 0 4,143 8,021 0 818 1999 1 3,340 3,295 16 25 0 4,370 7,705 0 844 1999 1 3,342 2,266 (s) 25 0 4,370 7,705 0 844 1000 1 3,342 2,266 (s) 25 0 4,137 6,428 0 1,037 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038 1,038	1965	339	2	1,238	(s)	83	60	417	1,798				59			
1980 0 100 1,784 119 111 14 1,795 3,823 0 757 757 1995 0 140 1,713 91 406 2,577 6,433 11,220 0 449 477 757 1996 0 271 1,413 25 55 51 116 4,872 6,481 0 459 459 1996 2 371 3,733 9 6 64 387 4,184 8,373 0 564 1996 2 371 3,733 9 6 64 387 4,184 8,373 0 564 564 1996 2 371 3,733 9 6 64 387 4,184 8,373 0 564 564 1996 2 371 3,733 9 6 64 387 4,184 8,373 0 564 564 1996 1 3 54 3,595 204 57 139 4,183 0 57 14 14 14 14 14 14 14 14 14 14 14 14 14	1970	467						812	2,975	•						
1985 0 140 1,713 91 406 2,577 6,43 11,220 0 417 1990 0 271 1,413 25 55 116 4,872 8,681 0 459 459 1995 0 358 3,099 85 62 375 3,298 6,920 0 546 549 1997 2 345 3,583 180 54 133 4,184 8,376 0 584 1997 2 345 3,583 180 54 133 4,184 8,376 0 618 584 1997 2 345 3,583 180 54 133 4,184 8,134 0 618 619 1998 1 340 3,295 16 25 04 79 0 4,143 8,134 0 818 814 1998 1 342 3,295 16 25 04 79 0 4,145 8,025 0 844 1998 1 342 3,295 16 25 0 4,377 7,705 0 844 1998 1 342 3,295 16 25 0 4,377 7,705 0 844 1000 1 1 333 2,298 7 76 18 6,681 9,070 0 10,079					130	106		1,146	3,530	•			485 757			
1990 0 271 1,413 25 55 116 4,872 6,481 0 459 1996 2 373 3,99 85 62 375 8,288 6,920 0 546 1996 2 371 3,733 9 64 387 4,184 8,376 0 546 1997 2 345 3,583 180 54 139 4,180 8,134 0 756 756 1998 1 350 3,583 204 79 0 4,140 8,020 0 818 1998 1 350 3,583 204 79 0 4,140 8,020 0 818 1998 1 350 3,583 204 79 0 4,140 8,020 0 818 1998 1 350 3,583 204 79 0 4,140 8,020 0 1,102 140 140 140 140 140 140 140 140 140 140	1985			1,704					ა,o∠ა 11 220	•						
1995 0 358 3,099 85 62 375 3,298 6,920 0 546 546 1996 2 371 3,733 9 64 387 4,184 8,136 0 544 546 1997 2 345 3,583 180 54 139 4,180 8,134 0 756 756 1997 2 345 3,583 180 54 139 4,180 8,134 0 818 1998 1 3,585 2,595 16 25 0 4,470 7,703 0 818 1998 1 3,595 2,24 79 0 4,143 8,021 0 818 1998 1 3,595 2,24 79 0 4,470 7,703 0 818 1998 1 3,595 2,237 47 86 0 5,210 7,600 0 1,007 1,007 1,008 1 2,337 47 86 0 5,210 7,680 0 1,008 1,008 1,008 1 2,337 47 86 0 5,210 7,680 0 1,108 1,008 1 2,337 47 86 0 5,210 7,680 0 1,108 1,008 1 2,337 47 86 0 5,210 7,680 0 1,108 1,008 1 2,337 47 86 0 5,210 7,680 0 1,108 1 2,337 47 86 0 5,210 7,680 0 1,108 1 2,328 2,099 33 112 0 5,707 7,942 0 1,108 1 2,328 2,099 33 112 0 5,707 7,942 0 1,126 1 2,328 2,099 33 112 0 5,707 7,942 0 1,126 1 2,328 2,099 33 112 0 5,707 7,948 0 1,126 1 2,328 2,091 16 66 0 5,956 8,8368 0 1,126 1 2,328 2,091 16 66 0 5,956 8,829 0 1,384 1,384 1 2,328 2,091 16 66 0 5,956 8,829 0 1,384 1 2 2 2 2 3 0,8 231 1 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	1900			1,713		55		4 872	6 481	•						
1996	1995		358	3,099	85	62			6,920	Ö						
1 358 3,595 204 79 0 4,143 8,021 0 818 1999	1996			3,733	9	64		4,184	8,376	•						
1		2							8,134	•						
2000	1998	1	358	3,595					8,021							
2001 1 339 2,288		1	340	3,295 2,266			0			U						
2002		1	339	2,200	7	76			9 070	•						
2004	2002	1	351	2,337					7,680	Ö			1,088			
2005		(s)	342	2,130					7,856	•						
Trillion Btu Tr	2004	1	328	2,089				5,707	7,942	•			1,126			
Trillion Btu Tr	2005	2	356 R 200	1,912	6 R 25	102	0	5,927	7,948 R 0 260	•			1,156			
1960 1.9 1.9 1.9 1.9 1.9 1.0 1.4 1.8 1.0 1.8 1.0 1.8 1.0 1.8 1.0 1.0 1.8 1.0	2007		288	2,691	16	66	0	5,956	8,729				1,243			
1965 6.5 1.8 7.2 (s) 0.4 0.4 2.6 10.6 0.0 3.2 0.0 0.2 22.3 0.8 23.1 1970 8.5 19.6 11.2 0.2 0.6 0.5 5.0 17.5 0.0 3.7 0.0 0.3 49.6 1.4 51.0 1975 10.5 40.4 12.3 0.5 0.6 0.2 7.1 20.6 0.0 3.5 0.0 1.7 76.7 5.9 82.6 1980 0.0 100.3 10.4 0.4 0.6 0.1 11.0 22.5 0.0 1.8 0.0 2.6 127.1 10.4 137.5 1985 0.0 140.7 10.0 0.3 2.1 16.2 38.7 67.3 0.0 2.1 0.0 1.8 0.0 2.6 127.1 10.4 137.5 1990 0.0 256.1 8.2 0.1 0.3 0.7 29.2 38.5 0.0 6.5 (s) 1.6 302.6 4.3 306.9 1995 0.0 360.0 18.1 0.3 0.3 2.4 20.0 41.0 0.0 6.5 (s) 1.6 302.6 4.3 306.9 1996 (s) 367.4 21.7 (s) 0.3 2.4 25.2 49.7 0.0 5.9 (s) 1.9 409.1 4.5 413.6 1996 (s) 344.8 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1999 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1999 (s) 339.7 19.2 0.1 0.1 0.1 0.0 25.3 38.6 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 26.5 45.8 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 333.1 12.2 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 0.3 3.5 302.4 8.3 397.2 9.1 410.0 2002 (s) 333.1 12.2 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 0.3 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 0.3 3.8 397.2 9.1 406.3 2004 (s) 833.1 12.2 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 0.3 3.9 408.0 9.3 413.3 2005 (s) 836.7 11.1 (s) 0.5 0.0 36.3 84.7 0.0 0.1 0.0 0.3 9.4 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.3 9.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.9 7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 413.3 2006 (s) 828.6 12.7 0.1 0.5								Tr	illion Btu							
1965 6.5 1.8 7.2 (s) 0.4 0.4 2.6 10.6 0.0 3.2 0.0 0.2 22.3 0.8 23.1 1970 8.5 19.6 11.2 0.2 0.6 0.5 5.0 17.5 0.0 3.7 0.0 0.3 49.6 1.4 51.0 1975 10.5 40.4 12.3 0.5 0.6 0.2 7.1 20.6 0.0 3.5 0.0 1.7 76.7 5.9 82.6 1980 0.0 100.3 10.4 0.4 0.6 0.1 11.0 22.5 0.0 1.8 0.0 2.6 127.1 10.4 137.5 1985 0.0 140.7 10.0 0.3 2.1 16.2 38.7 67.3 0.0 2.1 0.0 1.8 0.0 2.6 127.1 10.4 137.5 1990 0.0 256.1 8.2 0.1 0.3 0.7 29.2 38.5 0.0 6.5 (s) 1.6 302.6 4.3 306.9 1995 0.0 360.0 18.1 0.3 0.3 2.4 20.0 41.0 0.0 6.5 (s) 1.6 302.6 4.3 306.9 1996 (s) 367.4 21.7 (s) 0.3 2.4 25.2 49.7 0.0 5.9 (s) 1.9 409.1 4.5 413.6 1996 (s) 344.8 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1999 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1999 (s) 339.7 19.2 0.1 0.1 0.1 0.0 25.3 38.6 0.0 0.1 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 342.2 13.3 (s) 0.4 0.1 0.0 25.3 38.6 0.0 0.1 0.0 0.2 0.3 5.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 0.1 0.0 3.5 302.4 8.3 397.2 9.1 410.0 2002 (s) 336.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 0.3 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 0.3 3.9 408.0 9.3 415.2 2005 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.3 3.9 408.0 9.3 415.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.3 3.9 408.0 9.3 415.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.3 3.9 408.0 9.3 415.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 415.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.97 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) 828.6 12.7 0.1	1960	5.0	1 9	5.1	(9)	0.0	1 4	0.8	7.4	0.0	1.8	0.0	0.2	16.2	0.6	16.8
1970 8.5 19.6 11.2 0.2 0.6 0.5 5.0 17.5 0.0 3.7 0.0 0.3 49.6 1.4 51.0 1975 10.5 40.4 12.3 0.5 0.6 0.2 7.1 20.6 0.0 3.5 0.0 1.7 76.7 5.9 82.6 1980 0.0 100.3 10.4 0.4 0.6 0.1 11.0 22.5 0.0 1.8 0.0 2.6 127.1 10.4 137.5 1985 0.0 140.7 10.0 0.3 2.1 16.2 38.7 67.3 0.0 2.1 0.0 1.4 211.5 4.1 215.6 1990 0.0 256.1 8.2 0.1 0.3 0.7 29.2 38.5 0.0 6.5 (s) 1.6 302.6 4.3 306.9 1995 0.0 360.0 18.1 0.3 0.3 2.4 20.0 41.0 0.0 6.5 (s) 1.9 409.1 4.5 413.6 1996 (s) 367.4 21.7 (s) 0.3 2.4 25.2 49.7 0.0 5.9 (s) 2.0 425.0 4.7 429.7 1998 (s) 357.4 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1999 (s) 339.7 19.2 0.1 0.1 0.1 0.0 25.1 47.2 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 339.7 19.2 0.1 0.1 0.1 0.0 26.5 45.8 0.0 0.1 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.1 0.0 2.9 388.5 6.0 394.5 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.1 0.0 0.2 0.3 834.4 9.1 393.5 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 0.3 8 384.4 9.1 393.5 2005 (s) 828.6 12.7 0.1 0.5 0.0 36.3 84.7 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 4752.4		6.5	1.8	7.2	(s)						3.2		0.2			
1980	1970	8.5	19.6	11.2	0.2	0.6	0.5	5.0	17.5	0.0	3.7	0.0	0.3	49.6	1.4	51.0
1885																82.6
1990	1980															137.5
1995 0.0 360.0 18.1 0.3 0.3 2.4 20.0 41.0 0.0 6.2 (s) 1.9 409.1 4.5 413.6 1996 (s) 367.4 21.7 (s) 0.3 2.4 25.2 49.7 0.0 5.9 (s) 2.0 425.0 4.7 429.7 1997 (s) 344.8 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1998 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.2 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 339.7 19.2 0.1 0.1 0.0 26.5 45.8 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 400.9 9.1 410.0 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2006 (s) R 288.6 12.7 0.1 0.5 0.0 356.8 47.3 0.0 0.1 0.0 0.1 0.0 3.9 408.0 9.3 R 352.4	1985					2.1					2.1			211.5		
1996 (s) 367.4 21.7 (s) 0.3 2.4 25.2 49.7 0.0 5.9 (s) 2.0 425.0 4.7 429.7 1997 (s) 344.8 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1998 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.2 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 339.7 19.2 0.1 0.1 0.0 26.5 45.8 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 405.9 9.3 415.2 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 0.4 2 R 342.6 9.8 R 352.4											6.3				4.5	
1997 (s) 344.8 20.9 0.6 0.3 0.9 25.1 47.8 0.0 1.8 (s) 2.6 397.1 6.3 403.4 1998 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.2 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 339.7 19.2 0.1 0.1 0.0 26.5 45.8 0.0 0.1 0.0 0.2 29 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 400.9 9.3 415.2 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4	1995				(s)	0.3					5.9	(5)		425.0	4.3	429.7
1998 (s) 357.4 20.9 0.7 0.4 0.0 25.1 47.2 0.0 0.2 (s) 2.8 407.6 6.3 413.9 1999 (s) 339.7 19.2 0.1 0.1 0.0 26.5 45.8 0.0 0.1 0.0 2.9 388.5 6.0 394.5 2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 405.9 9.3 415.2 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 0.4 2 R 342.6 9.8 R 352.4	1997			20.9	0.6	0.3	0.9		47.8		1.8		2.6	397.1	6.3	403.4
2000 (s) 260.1 13.2 (s) 0.1 0.0 25.3 38.6 0.0 0.1 0.0 3.5 302.4 8.3 310.7 2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.5 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 400.9 9.3 415.2 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2005 (s) 3356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.	1998	(s)		20.9	0.7	0.4			47.2		0.2	(s)	2.8	407.6	6.3	413.9
2001 (s) 342.2 13.3 (s) 0.4 0.1 41.1 55.0 0.0 (s) 0.0 3.7 400.9 9.1 410.0 2002 (s) 356.2 13.6 0.2 0.4 0.0 31.6 45.8 0.0 0.2 0.0 3.7 405.9 9.3 415.2 2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4																
2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4	2000		260.1	13.2	(s)	0.1							3.5	302.4		
2003 (s) 346.7 12.4 0.1 0.6 0.0 33.5 46.6 0.0 0.1 0.0 3.8 397.2 9.1 406.3 2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4	2001		342.2	13.3	(s)	0.4			55.0		(s)		3.7	400.9		410.0
2004 (s) 333.1 12.2 0.1 0.6 0.0 34.4 47.3 0.0 0.1 0.0 3.8 384.4 9.1 393.5 2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4	2002		336.2		0.2						0.2			405.9 307.2		415.2
2005 (s) 356.7 11.1 (s) 0.5 0.0 35.6 47.3 0.0 0.1 0.0 3.9 408.0 9.3 417.3 2006 (s) R 288.6 12.7 0.1 0.5 0.0 36.3 R 49.7 0.0 0.1 0.0 4.2 R 342.6 9.8 R 352.4	2003		333.1	12.4					47.3					384.4		393.5
2006 (s) R288.6 12.7 0.1 0.5 0.0 36.3 R49.7 0.0 0.1 0.0 4.2 R342.6 9.8 R352.4			356.7	11 1					47.3				3.9	408.0		417.3
2007 (s) 289.7 15.7 0.1 0.3 0.0 35.8 51.9 0.0 0.1 0.0 4.7 346.4 9.9 356.3	2006	(s)	R 288.6	12.7	0.1	0.5	0.0	36.3	R 49.7	0.0	0.1	0.0	4.2	R 342.6	9.8	R 352.4
	2007	(s)	289.7	15.7	0.1	0.3	0.0	35.8	51.9	0.0	0.1	0.0	4.7	346.4	9.9	356.3

^a Includes supplemental gaseous fuels.

but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

ⁱ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation

methodologies. See the Technical Notes for each type of energy. Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Alaska

						Per	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	4	(s) 0	1,032	528	1,972	, 0	3	1,527	15	5,077	0	0			
1965 1970	1	17	293 462	789 1,000	3,005 6,735	(s)	40 59	2,113 2,267	66 135	6,307 10,659	0	0			
1975	(s)	(s)	466	2,157	7,420	0	121	3,658	484	14,305	0	0			
1980	Ó	(s) 5	498	2,605	9.618	4	94	3,306	0	16,125	Ö	Ő			
1985	0	5	490	5,793	15,231	14	86	4,964	19	26,596	0	0			
1990 1995	0	2 2	491 389	6,042 6,053	17,367 16,921	6 2	96 92	5,747 7,065	138 114	29,888 30,636	0 181	0			
1995	0	2	142	4,340	18,652	4	89	6,377	4	29 608	199	0			
1997	ő	5	407	5,002	18,652 R 21,108	2	94	6,187	2	R 32.803	167	ő			
1998	0	6	152	4,632	K 21,886	1	99	6,543	7	K 33,319	97	0			
1999	0	7	529	4,898	23,612	(s) (s) 2	100	6,312	230	35,680	111	0			
2000 2001	0	, 5	521 245	5,308 5,384	25,872 24,262	(S)	98 90	5,884 5,627	118 54	37,801 35,663	49 118	0			
2001	0	4	179	5,195	R 25,111	23	89	5,713	51	36,360	93	0			
2003	Ö	4	156	4,751	27,355	3	82	5,797	13	38,158	63	Õ			
2004	0	4	182	8,596	30,954	2	83	6,740	.0	46,558	123	0			
2005 2006	0	3	277 250	7,509 8,065	31,940 31,747	4	83 81	6,583 6,530	12 27	46,407 46,704	R 219 R 221	0			
2006	0	3 2	248	7,771	29,053	3	83	6,685	263	44,105	271	0			
								Trillion Btu							
1960	0.1	(s) 0.0	5.2	3.1	10.6	0.0	(s) 0.2	8.0	0.1	27.1	0.0	0.0	27.1	0.0	27.1
1965	(s)		1.5	4.6	16.5	(s) (s)	0.2	11.1	0.4	34.4	0.0	0.0	34.4	0.0	34.4
1970 1975	(s)	17.4 0.1	2.3 2.4	5.8 12.6	37.7 41.7	(s) 0.0	0.4 0.7	11.9 19.2	0.9 3.0	59.0 79.6	0.0 0.0	0.0 0.0	76.4 79.7	0.0 0.0	76.4 79.7
1980	(s) 0.0	0.1	2.4	15.2	54.0	(s)	0.7	17.4	0.0	89.7	0.0	0.0	89.8	0.0	89.8
1985	0.0	5.2	2.5	33.7	85.8	0.1	0.5	26.1	0.1	148.7	0.0	0.0	153.9	0.0	153.9
1990	0.0	1.6	2.5	35.2	97.9	(s)	0.6	30.2	0.9	167.3	0.0	0.0	168.9	0.0	168.9
1995	0.0	2.4	2.0	35.3 25.3	95.9 105.8	(s) (s)	0.6	36.8	0.7	171.3	0.6	0.0	173.7	0.0	173.7
1996 1997	0.0 0.0	2.0 4.9	0.7 2.1	25.3 29.1	105.8 R 119.7	(S)	0.5 0.6	33.3 32.3	(s)	165.6 _ 183.7	0.7 0.6	0.0 0.0	167.6 R 188.7	0.0 0.0	167.6 R 188.7
1997	0.0	4.9 5.6	0.8	27.0	R 124.2	(s) (s)	0.6	34.1	(s) (s)	R 186.7	0.8	0.0	R 192.3	0.0	R 192.3
1999	0.0	7.3	2.7	28.5	134.1	(s)	0.6	32.9	1.4	200.3	0.4	0.0	207.5	0.0	207.5
2000	0.0	5.6	2.6	30.9	146.7	(s)	0.6	30.7	0.7	212.2	0.2	0.0	217.9	0.0	217.9
2001	0.0	5.1	1.2	31.4	137.6	(s)	0.5	29.3	0.3	200.4	0.4	0.0	205.5	0.0	205.5
2002	0.0	4.4	0.9	30.3 27.7	143.2	0.1	0.5	29.8	0.3	205.0	0.3	0.0	209.5	0.0	209.5
2003 2004	0.0 0.0	4.1 3.9	0.8 0.9	50.1	155.2 175.5	(s) (s)	0.5 0.5	30.2 35.2	0.1 0.0	214.4 262.2	0.2 0.4	0.0 0.0	218.5 266.0	0.0 0.0	218.5 266.0
2004	0.0	2.7	1.4	43.7	181.1	(s)	0.5	34.3	0.0	261.2	R 0.8	0.0	263.8	0.0	263.8
2006	0.0	2.9	1.3 1.3	47.0 45.3	180.0	(s)	0.5	34.1	0.2	263.0	0.8	0.0	263.8 R 265.8	0.0	R 265.8
2007	0.0	2.2	1.3	45.3	164.7	(s)	0.5	34.9	1.7	248.3	1.0	0.0	250.5	0.0	250.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Alaska

				Petro	oleum		Needeen		Biomass				Floorista	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965 1970 1975 1980	52	0	3	95	0	99	0	290		0	0	0	0	
1965	151	2	4	308	0	312	0	350		0	0	0	0	
1970	249 257	8 20	5	394 694	0	399 696	0	363 357		0	0	0	(s)	
1975	257 273	20 29	353	538	0	891	0	539		0	0	0	0	
1985	296	34	476	518	0	994	0	748		0	0	(s)	0	
1990	290	34	171	486	0	658	0	975		0	0	0	1	
1990 1995 1996	293 229	30	257	592 655	Õ	849	Ö	1,372		Ō	Ö	Ō	1	
1996	229	31	515	655	0	1,171	0	1,266		0	0	0	1	
1997	235	34	723	598	0	1,321	0	1,099		0	0	0	2	
1998	481	29	821	537	0	1,357	0	1,113		0	0	0		
1999 2000	465	31	838	629 415	0	1,467	0	817		0	0	0	1	
2000	500 515	36	670 1,057	415	0	1,085 1,550	0	1,002 1,346		0	0	0	1	
2001	562	33 32	1,007	494 553	0	1,560	0	1,439		0	0	0	1	
2002	342	3/	851	511	0	1,363	0	1,583		0	0	0	1	
2003 2004	393	34 38	702	529	0	1,231	0	1,498		0	0	0	1	
2005	398	39	696	538	Ŏ	1 234	Ő	1 464		ŏ	Ŏ	ĭ	1	
2006 2007	408	43 41	682	586	0	1,268	0	1,224		0	0	1	1	
2007	414	41	471	633	0	1,268 1,105	0	1,224 1,291		0	0	1	1	
							Trillion E	Btu						
1960	0.9	0.0	(s) (s) (s) (s) 2.2	0.6	0.0	0.6	0.0	3.1	0.0	0.0	0.0	0.0	0.0	4.6
1965	2.7	2.2	(s)	1.8	0.0	1.8	0.0	3.7	0.0	0.0	0.0	0.0	0.0	10.3
1970 1975 1980	4.3	8.2	(S)	2.3	0.0 0.0	2.3	0.0 0.0	3.8 3.7	0.0 0.0	0.0	0.0	0.0	(s) 0.0	18.6
1975	4.5 4.3	19.7 28.9	(S)	4.0 3.1	0.0	4.1 5.4	0.0	3.7 5.6	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	32.0 44.2
1900	4.7	34.4	3.0	3.0	0.0	6.0	0.0	7.8	0.0	0.0	0.0	(e)	0.0	52.9
1985 1990	4.6	35.3	1.1	2.8	0.0	3.9	0.0	10.1	0.0	0.0	0.0	(s) 0.0	(s)	53.9
1995	4.6	29.9	1.6	3.4	0.0	5.1	0.0	14.1	0.0	0.0	0.0	0.0	(s)	53.7
1995 1996	3.6	31.2	1.6 3.2	3.4 3.8	0.0	7.1	0.0	14.1 13.1	0.0	0.0	0.0	0.0	(s)	53.7 55.0
1997	3.7	33.6 28.9	4.5 5.2	3.5	0.0	8.0	0.0	11.2	0.0	0.0	0.0	0.0	(s)	56.6
1998	8.1	28.9	5.2	3.1	0.0	8.3	0.0	11.4 8.4	(s) 0.0	0.0	0.0	0.0	(s)	56.6
1999	7.8	30.6	5.3	3.7	0.0	8.9	0.0	8.4	0.0	0.0	0.0	0.0	(s)	55.6
2000	8.3	35.7	4.2	2.4	0.0	6.6	0.0	10.2	0.0	0.0	0.0	0.0	(s)	60.8
2001 2002	8.5 9.1	32.7 32.0	6.6 6.3	2.9 3.2	0.0 0.0	9.5 9.6	0.0 0.0	13.9 14.6	0.0	0.0 0.0	0.0 0.0	(s) 0.0	(S)	64.7 65.3
2002	9.1 5.6	32.0 34.6	5.4	3.2	0.0	8.3	0.0	14.6	(s) 0.0	0.0	0.0	0.0	(8)	64.7
2003	6.3	37.9	4.4	3.1	0.0	7.5	0.0	15.0	0.0	0.0	0.0	0.0	(s)	66.7
2005	6.1	39.5	4.4	3.1	0.0	7.5 7.5	0.0	14.6	0.0	0.0	0.0	(s)	(s)	66.7 67.8
2006	6.2	43.6	4.3	3.4	0.0	7.7	0.0	12.1	0.0	0.0	0.0		(s)	69.7
2007	6.2	41.2	3.0	3.7	0.0	6.7	0.0	12.8	0.0	0.0	0.0	(s) (s)	(s)	66.8

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Arizona

						Petroleum				Martan	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	10	136	2,787	4,721	724	12,363	125	1,901	22,622	0	2,990					
1965 1970	337 406	154 193	3,528 4,899	5,545 6,644	1,056 1,304	14,997 21,542	82 105	1,918 4,615	27,125 39,108	0	4,439 6,154					
1975	4,392	156	10,143	7,075	1,119	27,704	5.942	3,412	55 395	0	7,254					
1980	11,559	166	10,769	7,967	1,589	30,589	1,339	3,097	55,350	0	9,836					
1985	16,364	131	10,109	7,154 8,501	1,722	36,148	176	3,320	58,629	1,130	13,987					
1990 1995	16,419 16,682	127 124	11,371 15,125	7,588	1,508 1,938	39,326 47,159	28 81	3,335 3,985	64,069 75,875	20,598 26,985	7,418 8,288					
1996	16,793	124	17,387	7 922	1,625	49,417	107	4,860	81 317	28,840	9,214					
1997	18,206	135	17,911	R 7.978	1,204	48,884	14	5,274	R 81,264 R 87,990	29,314	12,049					
1998 1999	19,013 19,710	159 165	18,668 20,169	R 8,677 9.627	1,345 1.809	52,661 54,854	20 40	6,621 6.436	87,990 92,935	30,301 30,416	10,970 9,759					
2000	21,128	205	19,923	10,433	1,660	56,431	69	6,063	94,579	30,410	8,354					
2001	20,830	241	21,591	9,914	1,650	58,506	252	3,772	95,684	28,724	7,624					
2002	19,955	251	19,928	10,344	1,509	61,230	29	4,729	97,769	30,862	7,427					
2003 2004	20,059 20,799	273 350	20,308 22,509	10,650 8,256	1,823 1,575	61,827 65,248	0 40	4,683 6,000	99,291 103,629	28,581 28,113	7,075 6,973					
2005	21,053	322	25,930	8,018	1.395	67,483	21	5,822	108,670 R 110,724	25,807	6,410					
2006	21,247	358	26,839	7,721	R 1,567	69,307	18	5,272	R 110,724	24,012	6,793					
2007	21,901	393	26,330	6,612	1,569	70,010	22	5,185	109,727	26,782	6,598					
								Trillion Btu								
1960 1965	0.2 7.0	140.3 166.1	16.2 20.6	25.3 30.1	2.9 4.2	64.9 78.8	0.8 0.5	11.3 11.8	121.5 145.9	0.0 0.0	32.2 46.4	4.0 3.7	0.0 0.0	-15.0 6.4	-0.1 -0.1	283.1 375.4
1903	8.6	204.4	28.5	36.4	4.2	113.2	0.5	29.6	213.3	0.0	64.6	4.3	0.0	25.4	-0.1	520.4
1975	92.4	164.3	59.1	39.0	4.2	145.5	37.4	21.6	306.7	0.0	75.5	5.4	0.0	16.1	(s) -0.1	660.4
1980	245.0	174.0	62.7	43.9	5.8	160.7	8.4	19.6	301.2	0.0	102.2	17.8	0.0	-84.9		755.2
1985 1990	342.0 343.4	137.3 130.8	58.9 66.2	39.4 47.3	6.2 5.5	189.9 206.6	1.1 0.2	21.4 21.4	316.9 347.1	12.0 218.0	146.1 77.2	25.6 13.7	0.0 3.9	-135.6 -182.8	0.0	844.3 951.3
1995	342.9	127.9	88.1	43.0	7.0	245.9	0.5	25.7	410.3	283.5	85.5	14.4	4.2	-180.9	(s) 1.1	1,089.0
1996	342.8	125.3	101.3	44.9	5.9	257.8	0.7	29.5	440.0	302.9	95.3	12.8	4.2	-169.4	(s) 0.4	1,153.9
1997 1998	369.9 386.8	137.6 161.1	104.3 108.7	45.2 49.2	4.4 4.9	254.8 274.5	0.1 0.1	32.2 41.0	441.0 478.4	307.6 317.9	123.1 111.9	14.5 10.8	4.2 4.1	-208.2 -224.0		1,190.1 1,247.0
1990	403.3	167.8	117.5	49.2 54.6	6.5	285.8	0.1	39.8	504.5	317.8	99.8	11.5	4.1	-224.0	(s) 0.0	1,247.0
2000	432.8	208.1	116.1	59.2	6.0	294.0	0.4	37.3	512.9	316.8	85.2	12.2	3.9	-235.9	0.2	1,336.2
2001	424.0	244.4	125.8	56.2	6.0	304.8	1.6	23.9	518.2	300.1	78.8	8.4	3.7	-238.7	0.2	1,339.1
2002 2003	406.5 406.5	257.0 274.6	116.1 118.3	58.6 60.4	5.5 6.6	318.9 321.9	0.2 0.0	30.2 29.9	529.5 537.1	322.2 297.8	75.6 72.5	8.2 8.5	3.5 3.4	-249.5 232.9	(s) -0.1	1,352.8 _ 1,367.4
2003	425.4	352.8	131.1	46.8	5.7	340.3	0.0	38.7	562.8	293.1	69.9	8.6	3.4	R -284 7	0.3	R 1 431 5
2005	428.4	327.7	151.0	45.5	5.0 R 5.6	352.1	0.1	37.5	501 3	269.3	64.1	R 16.8	3.4	R -215.0	-0.3	R 1.485.7
2006 2007	432.0 438.5	R 364.5 402.1	156.3 153.4	43.8 37.5		361.6 365.4	0.1	33.9 33.4	R 601.4 595.4	250.5 280.9	67.4 65.2	R 15.4 16.4	3.7	-197.2 -224.7	-0.6	R 1,537.1 1,577.8
2007	430.5	402.1	103.4	31.5	5.6	303.4	0.1	33.4	595.4	200.9	00.2	10.4	4.1	-224.7	(s)	1,377.8

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arizona

Thousand Short Tons Page Coal Salar Short Tons Salar Short Tons Sho				D 4 11			Biomass		leum	Petro				
Thousand Short Tons Cubic Feet Thousand Barrels Thousand Cords Geothermal Solar/PV die Rillion Rillion Rillion Ref (Berryy disc) Cords Cor							Wood ^c	Total	LPG ^b	Kerosene		Natural Gas ^a	Coal	
1966 0 25 59 9 727 794 129 2,230 1975 0 38 216 77 542 836 170 4,327 1975 0 38 216 77 542 836 170 7,138 1980 0 30 2 0 657 659 438 9,637 1985 (s) 29 12 3 956 971 741 12,249 15,378 1985 (s) 29 12 3 956 971 741 15,378 1995 (s) 30 9 (s) 772 782 411 15,378 1995 (s) 28 10 3 784 797 426 19,746 1997 (s) 31 7 2 72 720 729 485 19,746 1997 (s) 31 7 2 720 729 485 20,683 1999 (s) 33 4 2 1,423 1,429 453 22,517 22,517 22,517 22,517 2000 (s) 35 4 1 1,250 1,255 497 24,844 24,844 2001 (s) 36 7 1 1,181 1,188 294 26,200 24,844 2002 (s) 35 9 1 1,200 1,210 288 26,413 20,03 (s) 36 9 2 1,030 1,041 303 27,742 20,044 (s) 38 5 1 8 4 849 857 849 26,520 20,544 20,065 (s) 38 2 (s) 846 848 857 849 30,544 20,065 (s) 38 2 (s) 846 848 865 34,437 32,567 20,668 (s) 38 2 (s) 846 848 865 28,921 28,921 20,068 (s) 36 3 3 4 849 857 849 25,000 20,000 (s) 36 36 3 4 849 857 849 30,544 26,000 20,000 (s) 38 2 (s) 846 848 865 34,437 32,567 20,000 (s) 38 2 (s) 846 848 865 34,437 36,541 3 26,000 (s) 38 2 (s) 846 848 865 34,437 36,567 -	Total d,f	Energy	Net Energy ^{d,f}		Solar/PV d,e	Geothermal d			d Barrels	Thousand				Year
1970				1,355			138	445 794	397 727		47 50	27 25		1960 1965
1975 0 38 216 77 542 836 170 7,138 7,138 1985 (s) 29 12 3 956 971 741 12,249 1995 (s) 30 9 (s) 772 782 411 15,378 1995 (s) 30 9 (s) 772 782 411 18,036 1995 (s) 30 9 (s) 772 782 411 18,036 1997 (s) 31 7 2 7 6 2 971 979 411 18,036 1997 (s) 31 7 2 7 2 720 729 485 20,683 1997 (s) 31 7 2 720 729 485 21,681 21,681 1999 (s) 33 4 2 1,422 1,422 1,429 453 21,681 21,681 1999 (s) 33 4 2 1,423 1,429 453 22,517 2001 (s) 35 4 1 1,250 1,255 487 24,844 22,000 (s) 35 9 1 1,200 1,210 288 26,200 2001 (s) 36 7 1 1,181 1,188 284 26,200 2001 (s) 36 7 1 1,181 1,188 284 26,200 2002 (s) 35 9 1 1,200 1,210 288 26,413 2004 (s) 36 36 3 4 849 857 8649 28,921 2004 (s) 36 36 3 4 849 857 8649 30,544 22,004 (s) 36 36 3 4 849 857 8649 30,544 2006 (s) 36 36 3 2 (s) 846 848 651 34,437 32,4367 19,200 (s) 38 2 (s) 846 848 651 34,437 32,2367 2007 (s) 38 3 3 4 849 857 8649 30,544 2006 (s) 36 36 3 2 2 (s) 846 848 651 34,437 32,2367 2007 (s) 38 3 3 4 849 857 8649 30,544 2007 (s) 38 3 3 4 849 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 857 8649 30,544 2000 (s) 38 3 3 4 849 857 8649 857 8649 30,544				4.327			151	1.006	840		98	30		1970
1980				7,138			170	836	542		216	38	0	1975
1990 (s) 30 9 (s) 772 782 411 15,378 1996 (s) 28 10 3 784 797 426 18,036 1996 (s) 28 10 3 784 797 426 19,746 1988 (s) 36 4 3 1,028 1,036 431 20,683 1988 (s) 36 4 3 1,028 1,036 431 21,611 2000 (s) 33 4 2 1,423 1,429 453 22,517 2000 (s) 35 4 1 1,1250 1,255 487 22,4844 2001 (s) 36 7 1 1,181 1,188 284 26,200 2002 (s) 35 9 1 1,200 1,210 288 26,413 2003 (s) 36 9 2 1,030 1,041 303 27,742 2004 (s) 38 5 1 864 870 311 28,921 2005 (s) 36 3 2 8,886 891 8,901 8,91 8,91 8,91 8,91 8,91 8,91 8,91 8,9				9,637			438	659	657		2	30		1980
1996 (s) 28 10 3 784 797 426 19,746 1998 (s) 31 7 2 720 729 485 20,683 1998 (s) 36 4 3 1,028 1,036 431 2,1611 2000 (s) 33 4 2 1,423 1,429 453 2,2517 2000 (s) 35 4 1 1,250 1,255 487 2,2517 2000 (s) 36 7 1 1,181 1,188 284 2,26200 2,2002 (s) 36 7 1 1,181 1,188 284 2,26200 2,2002 (s) 35 9 1 1,200 1,210 288 2,26413 2,2003 (s) 36 9 2 1,030 1,041 303 2,27,742 2,2004 (s) 38 5 1 864 870 311 2,20,204 (s) 38 5 1 864 870 8311 2,20,204 (s) 38 5 1 864 889 857 8649 30,544 2,2006 (s) 36 3 2 886 881 857 8649 30,544 2,2007 (s) 38 2 (s) 846 848 651 3,4,437 3,4,437 3,2,267 2,2,267 3,2,267 3,2,267 3,2,267 3,2,267 3,2,267 3,2,267				12,249				971	956		12	29		1985
1996 (s) 28 10 3 784 797 426 19,746 1998 (s) 31 7 2 720 729 485 20,683 1998 (s) 36 4 3 1,028 1,036 431 2,1611 2000 (s) 33 4 2 1,423 1,429 453 2,2517 2000 (s) 35 4 1 1,250 1,255 487 2,2517 2000 (s) 36 7 1 1,181 1,188 284 2,26200 2,2002 (s) 36 7 1 1,181 1,188 284 2,26200 2,2002 (s) 35 9 1 1,200 1,210 288 2,26413 2,2003 (s) 36 9 2 1,030 1,041 303 2,27,742 2,2004 (s) 38 5 1 864 870 311 2,20,204 (s) 38 5 1 864 870 8311 2,20,204 (s) 38 5 1 864 889 857 8649 30,544 2,2006 (s) 36 3 2 886 881 857 8649 30,544 2,2007 (s) 38 2 (s) 846 848 651 3,4,437 3,4,437 3,2,267 2,2,267 3,2,267 3,2,267 3,2,267 3,2,267 3,2,267 3,2,267				15,378				/82	772	(s)		30	(S)	1990
1998 (s) 36				10,030				707	78/	2		28	(e)	1995
1998 (s) 36				20.683				729	720			31		1997
2000 (s) 35 4 1 1,250 1,255 487 24,844 2001 (s) 36 7 1 1,181 1,188 284 26,200 2002 (s) 35 9 1 1,200 1,210 288 26,413 2003 (s) 35 9 1 1,200 1,210 288 26,413 2003 (s) 36 9 2 1,030 1,041 303 27,742 2004 (s) 38 5 1 864 870 311 28,921 2005 (s) 36 3 4 849 857 8649 32,367 2006 (s) 36 3 2 886 891 8591 8591 32,367 2007 (s) 38 2 (s) 846 848 651 32,367 2007 (s) 38 2 (s) 846 848 651 32,3437 2007 (s) 38 3 2 (s) 846 848 651 33,437 2007 (s) 38 3 2 (s) 846 848 651 34,437 34,437 34,437 2005 (s) 38 3 2 (s) 846 848 651 34,437 2005 (s) 38 3 2 (s) 846 848 651 32,267 34,437 2007 (s) 38 3 2 (s) 32 3 3 2 6 0.0 0.0 0.0 4.6 37.6 11.4 1965 0.0 27.1 0.3 (s) 2.9 3.3 2.6 0.0 0.0 0.0 7.6 40.6 18.2 195 (s) 314 0.6 0.4 3.2 4.1 3.0 0.0 0.0 0.0 7.6 40.6 18.2 195 (s) 318 (s) 3.0 0.0 2.4 2.4 8.8 0.0 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 0.0 32.9 74.9 79.3 1990 (s) 31.3 0.1 (s) 3.4 3.5 14.8 0.0 0.0 0.0 41.8 50.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 3.5 3.6 8.2 (s) 3.7 7.7 (s) 4.0 67.4 110.8 153.2 1999 (s) 33.5 (s) (s) 3.5 3.6 8.2 (s) 3.7 7.7 (s) 4.0 67.4 110.8 153.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 1928 1999 (s) 3.3 5.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 1928 1999 (s) 3.5 3.5 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 1928				21,611			431	1,036	1.028		4			1998
2002 (s) 35 9 1 1 1,200 1,210 288 26,413 2003 (s) 36 9 2 1 1,030 1,041 303 27,742 2004 (s) 38 5 1 864 870 311 20,05 (s) 38 5 1 864 870 311 20,05 (s) 36 3 4 849 857 8649 30,544 2006 (s) 36 3 2 886 8891 8591 30,544 2007 (s) 38 2 (s) 846 848 651 34,437				22,517			453	1.429	1.423	2	4	33	(s)	1999
2002 (s) 35 9 1 1 1,200 1,210 288 26,413 2003 (s) 36 9 2 1 1,030 1,041 303 27,742 2004 (s) 38 5 1 864 870 311 20,05 (s) 38 5 1 864 870 311 20,05 (s) 36 3 4 849 857 8649 30,544 2006 (s) 36 3 2 886 8891 8591 30,544 2007 (s) 38 2 (s) 846 848 651 34,437				24,844			487	1,255	1,250	1	4	35	(-)	2000
2004 (s) 38 5 1 864 870 311 28,921 2005 (s) 36 3 4 849 857 8649 30,544 2006 (s) 36 3 2 886 891 8591 32,367 2007 (s) 38 2 (s) 846 848 651 34,437 34,437 32,2367 34,437				26,200			284	1,188	1,181	1	/	36		2001
2004 (s) 38 5 1 864 870 311 28,921 2005 (s) 36 3 4 849 857 8649 30,544 2006 (s) 36 3 2 886 891 8591 32,367 2007 (s) 38 2 (s) 846 848 651 34,437 34,437 32,2367 34,437				20,413			∠00 303	1,210	1,200	2		36	(S)	2002
2006 (s) 36 3 2 (s) 846 848 651 32,367 2007 (s) 38 2 2 (s) 846 848 651 34,437 34,437 34,437 34,437				28 921			311	870	864	1		38	(s)	2003
2006 (s) 36 3 2 (s) 846 889				30.544			R 649	857	849	4		36	(s)	2005
Trillion Btu 1960 0.0 28.4 0.3 0.0 1.6 1.9 2.8 0.0 0.0 0.0 4.6 37.6 11.4 1965 0.0 27.1 0.3 (s) 2.9 3.3 2.6 0.0 0.0 0.0 0.0 4.6 18.2 1970 0.0 31.4 0.6 0.4 3.2 4.1 3.0 0.0 0.0 0.0 14.8 53.3 35.7 1975 0.0 39.8 1.3 0.4 2.0 3.7 3.4 0.0 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 0.0 32.9 74.9 79.3 1985 (s) 29.9 0.1 (s) 3.4 3.5 14.8 0.0 0.0 0.0 41.8 90.1 96.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 61.5 105.2 139.7 1998 (s) 31.8 (s) (s) 2.8 2.9 8.5 (s) 4.0 61.5 105.2 139.7 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 33.5 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8 137.7 132.8 137.7 132.8 137.7				32,367			^R 591	^R 891	R 886			36		2006
1960				34,437			651	848	846	(s)	2	38	(s)	2007
19/5 0.0 39.8 1.3 0.4 2.0 3.7 3.4 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 32.9 74.9 79.3 1985 (s) 29.9 0.1 (s) 3.4 3.5 14.8 0.0 0.0 41.8 90.1 96.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 35.1 (s) (s) 4.5<							rillion Btu	Т						
19/5 0.0 39.8 1.3 0.4 2.0 3.7 3.4 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 32.9 74.9 79.3 1985 (s) 29.9 0.1 (s) 3.4 3.5 14.8 0.0 0.0 41.8 90.1 96.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 33.5 (s) (s) 5.1<	49.1	11.4	37.6	4.6	0.0	0.0	2.8	1.9	1.6	0.0	0.3	28.4	0.0	1960
19/5 0.0 39.8 1.3 0.4 2.0 3.7 3.4 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 32.9 74.9 79.3 1985 (s) 29.9 0.1 (s) 3.4 3.5 14.8 0.0 0.0 41.8 90.1 96.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 35.1 (s) (s) 4.5<	58.8	18.2	40.6	7.6	0.0	0.0	2.6	3.3	2.9	(s)	0.3	27.1	0.0	1965
19/5 0.0 39.8 1.3 0.4 2.0 3.7 3.4 0.0 0.0 24.4 71.3 58.6 1980 0.0 30.9 (s) 0.0 2.4 2.4 8.8 0.0 0.0 32.9 74.9 79.3 1985 (s) 29.9 0.1 (s) 3.4 3.5 14.8 0.0 0.0 41.8 90.1 96.3 1990 (s) 31.3 0.1 (s) 2.8 2.9 8.2 (s) 3.7 52.5 98.6 121.3 1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 35.1 (s) (s) 4.5<	89.1	35.7	53.3	14.8	0.0	0.0	3.0	4.1	3.2	0.4	0.6	31.4	0.0	1970
1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 167.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	129.8	58.6	71.3	24.4	0.0	0.0	3.4	3.7	2.0	0.4	1.3	39.8		1975
1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 167.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	154.2 186.3	79.3	74.9	32.9	0.0	0.0	8.8	2.4	2.4	0.0	(S)	30.9		1980
1995 (s) 27.9 (s) (s) 3.5 3.6 8.2 (s) 4.0 61.5 105.2 139.7 1996 (s) 28.0 0.1 (s) 2.8 2.9 8.5 (s) 4.0 67.4 110.8 153.2 1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 167.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	219.9	90.3	90.1	41.8 52.5	0.0 3.7		14.8	3.5	3.4 2.8		0.1	29.9		1985
1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	219.9	121.3	105.2	61.5	3.7 4.0	(3)	8.2	3.6	2.0 3.5		(s)	27.9		1990
1997 (s) 31.8 (s) (s) 2.6 2.7 9.7 (s) 4.0 70.6 118.7 159.9 1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	245.0 264.0	153.2	110.8		4.0	(s)	8.5	2.9	2.8		0.1	28.0		1996
1998 (s) 36.7 (s) (s) 3.7 3.8 8.6 (s) 3.9 73.7 126.7 167.2 1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	278.5	159.9	118.7	70.6	4.0	(s)	9.7	2.7	2.6		(s)	31.8	(s)	1997
1999 (s) 33.5 (s) (s) 5.1 5.2 9.1 (s) 3.8 76.8 128.3 175.7 2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	293.9	167.2	126.7	73.7	3.9	(s)	8.6	3.8	3.7		(s)	36.7	(s)	1998
2000 (s) 35.1 (s) (s) 4.5 4.5 9.7 (s) 3.6 84.8 137.7 192.8	304.1				3.8	(s)		5.2		(s)	(s)	33.5	(s)	
	330.5 338.5	192.8	137.7		3.6	(s)	9.7	4.5	4.5		(s)	35.1		2000
ZUUT (5) 30.5 (5) (5) 4.3 4.3 5.7 (5) 3.4 89.4 139.2 199.2	338.5	199.2	139.2	89.4	3.4 3.2	(s)	5.7	4.3	4.3	(s)	(s)	36.5	(s)	2001
	340.9 352.4	200.9	140.0 143.5	90.1	3.2	(S)	5.8	4.4	4.3			35.5		2002
2003 (s) 35.9 0.1 (s) 3.7 3.8 6.1 (s) 3.1 94.7 143.5 208.9 2004 (s) 37.7 (s) (s) 3.1 3.2 6.2 (s) 3.0 98.7 148.8 218.3	352.4 367 1	200.9 218 3	148 8	94.7 98.7	3.1 3.0	(5)	6.1 6.2	3.0 3.2	3. <i>1</i> 3.1			35.9 37.7	(0)	2003
2005 (s) 36.0 (s) (s) (s) 3.1 3.1 $R13.0$ (s) 3.0 104.2 $R159.4$ 227.9	R 387.3	227.9	R 159 4		3.0	(s)	R 13.0	3.1	3.1					2005
2006 (s) 36.5 (s) (s) ^K 3.2 ^K 3.2 ^K 11.8 (s) 3.3 110.4 ^K 165.3 238.8	367.1 R 387.3 R 404.1	238.8	R 165.3	110.4	3.3	(s)	K 11.8	R 3.2	R 3.2			36.5		2006
2007 (s) 39.3 (s) (s) 3.0 3.1 13.0 (s) 3.7 117.5 176.6 253.5	430.1	253.5	176.6	117.5	3.7	(s)	13.0	3.1	3.0			39.3		

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

net energy and total.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arizona

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	0	25	106	0	70	89	39	305	0			3,302			
1965	Ő	19	131	2	128	137	17	416	ő			3,044			
1970	0	23	220	12	148	146	31	557	0			4,690			
1975	0	33 27	485	14	96	177	83	855	0			7,162			
1980	0	27	280	0	116	179	0	576	0			9,122			
1985	1	25	463	2	169	140	(s)	774	0			12,295			
1990 1995	(s)	28 28	456 354	2	136 171	257	0	851 562	0			16,058 18,562			
1995	(s)	29	592	2	138	35 35 35	5	772	0			19,555			
1997	(s)	30	655	4	127	35	0	821	0			20,520			
1998	(s)	32	1,122	i	181	36	ő	1.340	Õ			21,683			
1999	(s)	31	945	5	251	36	Ō	1,237	Ō			22,688			
2000	(s)	32	867	3	221	37	0	1,127	0			24,311			
2001	1	31	766	3	208	40	0	1,017	0			24,697			
2002		32 32	832	2	212	41	0	1,086	0			25,162			
2003	1	32	476	1	182	40	0	700	0			25,425			
2004 2005	1	33 32	346 473	2 2	153 150	40 40	0	541 665	0			26,106 27,468			
2005	1	32	473	2	R 156	43	0	R 660	0			28,626			
2007	i	33 33	641	2	149	45	ő	837	ŏ			30,475			
								Trillion Btu							
1960	0.0	26.2	0.6	0.0	0.3	0.5	0.2	1.6	0.0	0.1	0.0	11.3	39.1	27.9	67.0
1965	0.0	20.7	0.8	(s)	0.5	0.7	0.1	2.1	0.0	(s) 0.1	0.0	10.4	33.2	24.8	58.0
1970	0.0	24.0	1.3	0.1	0.6	0.8	0.2	2.9	0.0		0.0	16.0	43.0	38.7	81.7
1975 1980	0.0	34.3 28.7	2.8	0.1	0.4 0.4	0.9 0.9	0.5	4.7	0.0	0.1	0.0 0.0	24.4 31.1	63.5	58.8 75.0	122.2
1985	0.0	26.7	1.6 2.7	0.0	0.4	0.9	0.0	3.0 4.1	0.0 0.0	0.2 0.4	0.0	41.9	63.1 72.9	75.0 96.6	138.1 169.5
1905	(s) (s)	29.3	2.7	(s) (s)	0.6	1.3	(s) 0.0	4.1	0.0	0.4	(s)	54.8	72.9 89.5	126.7	216.2
1995	0.1	29.3	2.1	(s)	0.6	0.2	0.0	2.0	0.0	1.1	(5)	63.3	96.7	143.8	240.5
1996	(s)	29.3	3.4	(s)	0.5	0.2	(s)	2.9 4.2	0.0	1.2	(s) (s)	66.7	101.4	151.7	240.5 253.1
1997	(s)	30.8	3.8	(s)	0.5	0.2	(s) 0.0	4.5	0.0	1.6	(s)	70.0	106.9	158.6	265.6
1998	(s)	32.3	6.5	(s)	0.7	0.2	0.0	7.4	0.0	1.4		74.0	115.1	167.8	282.9
1999	(s)	31.8	5.5	(s)	0.9	0.2	0.0	6.6	0.0	1.6	(s) (s)	77.4	117.4	177.1	294.5
2000	(s)	32.5	5.1	(s)	0.8	0.2	0.0	6.1	0.0	1.7	(s)	82.9	123.2	188.7	311.8
2001	(s)	31.3	4.5	(s)	0.8	0.2	0.0	5.4	0.0	1.1	(s) 0.1	84.3	122.1	187.8	309.9 317.0
2002	(s)	32.8	4.8	(s)	0.8	0.2	0.0	5.8	0.0	1.1		85.9	125.6	191.4	317.0
2003 2004	(S)	32.4 32.7	2.8	(s)	0.7	0.2 0.2	0.0	3.7 2.8	0.0 0.0	1.1	0.1	86.7 89.1	123.9 125.7	191.4 197.1	315.4 R 322.8 R 336.6 R 347.6 368.5
2004	(S) (S)	32.7 32.1	2.0 2.8	(s)	0.6 0.5	0.2	0.0 0.0	2.8	0.0	1.0 R 2.1	0.1 0.1	89.1 93.7	125.7	205.0	R 322.8
2005	(S)	32.1	2.0 2.7	(s)	0.5 R n e	0.2	0.0	R 3.5	0.0	R 2.1	0.1	93.7 97.7	136.4	205.0	R 247 6
2007	(S)	33.2 33.5	2.7 3.7	(s) (s)	R 0.6 0.5	0.2	0.0	4.5	0.0	R 2.0 2.1	(s)	104.0	144.2	224.4	368.5

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arizona

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	10	14	1,227	222	515	27	1,008	3,000	0			1,481			
1965	4	55	1,545	161	437	20	1,224	3,387	0			3,331			
1970 1975	5	58 51	1,387 3,113	253 430	456 440	55 102	3,879 2,696	6,031 6,781	13 14			4,751 6,868			
1975	133 643	38	3,570	739		154	2,469	7,241	15			8,003			
1985	1,915	17	1,799	505	404	31	2,815	5,554	15			8.457			
1990	660	18	2,768	545		18	2,783	6,617	0			10,034			
1995	657	28	3,590	745	410	69	3,504	8,317	Ŏ			11,992			
1996	675	27 28	4,066	667	437	80	4,371	9,621	0			12,783			
1997	702	28	4,229	331	457	14	4,769	9,801	0			13,253			
1998	698	28	3,620	128	473	20	6,062	10,302	0			12,549			
1999	684	27	4,157	116	334	27	5,905	10,540	0			12,456			
2000	720	21	4,222	167	339	23	5,493	10,243	0			11,975			
2001	672	21	4,338	249	913		3,245	8,771	0			11,377			
2002 2003	626 681	17	3,750	79 478		29 0	4,215	8,984 8,566	0			11,026			
2003	738	15 21	2,957 3,141	478 436	1,202	33	4,143 5,527	10,338	0			10,914 11,906			
2004	719	17	4,921	_ 193	1,202	21	5,323	_ 11,506	0			11,379			
2006	740	18	4,542	R 292	1,220	17	4,794	R 10,866	0			12,259			
2007	711	19	4,300	392	1,075	22	4,730	10,519	ő			12,281			
							Tri	Ilion Btu							
1960	0.2	14.2	7.1	0.9	2.7	0.2	6.6	17.5	0.0	1.0	0.0	5.1	37.9	12.5	50.4
1965	0.1	59.4	9.0	0.6		0.1	8.1	20.1	0.0	1.1	0.0	11.4	92.0	27.1	119.1
1970	0.1	61.2	8.1	1.0		0.3	25.6	37.4	0.1	1.3	0.0	16.2	116.3	39.2	155.5
1975	2.6	53.4	18.1	1.6	2.3	0.6	17.6	40.3	0.1	1.9	0.0	23.4	121.9	56.4	178.2
1980	13.1	39.5	20.8	2.7	1.6	1.0	16.1	42.2	0.2	8.9	0.0	27.3	131.2	65.8	197.0
1985 1990	38.8 13.3	17.3 19.0	10.5 16.1	1.8		0.2	18.5 18.2	33.1 39.1	0.2 0.0	10.4 4.6	0.0 0.2	28.9 34.2	128.6 110.5	66.5	195.1
1990	13.1	28.8	20.9	2.0 2.7		0.1 0.4	23.0	49.1	0.0	5.0	0.2	40.9	137.2	79.2 92.9	189.6 230.1
1995	13.4	27.3	23.7	2.7	2.1	0.4	26.7	55.6	0.0	3.1	0.2		143.2	92.9	242.4
1990	13.7	28.6	24.6	1.2	2.3	0.5	29.3	57.6	0.0	3.1	0.2	45.0	148.5	102.5	250.9
1998	13.4	28.7	21.1	0.5	2.5	0.1	37.8	62.0	0.0	0.8	0.2		147.9	97.1	245.0
1999	13.2	27.5	24.2	0.4		0.2	36.7	63.3	0.0	0.8	0.2		147.5	97.2	244.7
2000	16.0	21.5	24.6	0.6		0.1	34.0	61.1	0.0	0.7	0.2		140.4	92.9	233.3
2001	14.7	21.4	25.3	0.9	4.8	0.2	20.9	52.0	0.0	1.3	0.2	38.8	128.4	86.5	214.9
2002	14.0	17.8	21.8	0.3	4.7	0.2	27.3	54.3	0.0	0.9	0.2	37.6	124.9	83.9	208.8
2003	15.2	15.3	17.2	1.7	5.1	0.0	26.8	50.9	0.0	0.9	0.2	37.2	119.8	82.2	202.0
2004	16.2	20.4	18.3	1.6		0.2	36.0	62.3	0.0	1.0	0.2		140.7	89.9	230.6
2005	15.9	17.1	28.7	0.7	5.5	0.1	34.6	69.6	0.0	1.0	0.2	38.8	142.7	84.9	227.6
2006 2007	16.3 15.3	18.7 19.9	26.5 25.0	R 1.1 1.4	6.4 5.6	0.1 0.1	31.2 30.8	R 65.2 63.0	0.0 0.0	1.0 1.1	0.2 0.2	41.8 41.9	R 143.2 141.3	90.5 90.4	R 233.7 231.7
2007	15.3	19.9	23.0	1.4	5.0	0.1	30.6	03.0	0.0	1.1	0.2	41.9	141.3	90.4	231.7

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arizona

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ^g	Total ^{e,f}
1960	(s)	16	699	1,404	4,721	34	193	11,759	17	18,829	0	0			
1965	(s)	18	478	1,790	5,545	40	206	14,423	0	22,482	Ö	Ő			
1970	(s)	24	427	3,192	6,644	63	229	20,940	0	31,494	0	0			
1975	(s)	17	358	4,756	6,995	51	267	27,087	0	39,514	0	0			
1980 1985	0	21 19	281 184	6,480 7,624	7,967 7,154	78 92	347 316	30,100 35,604	0	45,253 50,974	0	0			
1990	0	25	194	7,936	8,501	92 55	355	38,566	0	55,608	0	0			
1995	0	19	139	11.068	7.588	55 51	339	46,714	ŏ	65.899	649	0			
996	Ö	18	155	12,618	7 922	35 26 7	329	48,944	Ö	70 003	547	Ö			
1997	0	19	151	12,909	R 7,978 R 8,677	26	347	48,391	0	R 69,803 R 75,196	543	0			
1998	0	20	191	13,805	R 8,677	.7	364	52,152	0	R 75,196	419	0			
1999	0	19	157	14,987	9,627	18	368	54,484	0	79,642	363	0			
2000 2001	0	21	204	14,474	10,433	23	362	56,056	0	81,551	416	0			
2001	0	23 21	191 183	16,045 15,237	9,914 10,344	12 18	332 328	57,554 60,279	0	84,047 86,389	570 325	0			
2003	0	19	233	16,770	10,650	134	303	60,799	0	88,889	313	0			
2004	0	17	164	18,934	8,256	122	307	64,007	ŏ	91,789	301	0			
2005	Ö	19	188	20,456	8,018	203	305	66,394	Ö	95,564	R 3,897 R 4,116 4,592	Ö			
2006	0	23	177	21,703	7,721	233	298	68,043	0	98,175	R 4,116	0			
2007	0	22	145	21,303	6,612	181	307	68,890	0	97,438	4,592	0			
								Trillion Btu							
1960	(s)	16.5	3.5	8.2	25.3	0.1	1.2	61.8	0.1	100.2	0.0	0.0	116.7	0.0	116.7
1965	(s)	19.4	2.4	10.4 18.6	30.1 36.4	0.2	1.2 1.4	75.8	0.0	120.1	0.0	0.0	139.4 194.1	0.0	139.4 194.1
1970	(s)	25.4	2.2	18.6	36.4	0.2	1.4	110.0	0.0	168.8	0.0	0.0	194.1	0.0	194.1
975 980	(s) 0.0	17.9 22.3	1.8 1.4	27.7 37.7	38.6 43.9	0.2 0.3	1.6 2.1	142.3 158.1	0.0 0.0	212.2 243.6	0.0 0.0	0.0 0.0	230.1 265.9	0.0 0.0	230.1 265.9
985	0.0	19.4	0.9	44.4	39.4	0.3	1.9	187.0	0.0	274.0	0.0	0.0	203.9	0.0	293.4
990	0.0	26.1	1.0	46.2	47.3	0.3	2.2	202.6	0.0	299.5	0.0	0.0	325.6	0.0	325.6
995	0.0	19.3	0.7	64.5	43.0	0.2	2.1	243.6	0.0	354.0	2.3	0.0	373.4	0.0	373 4
996	0.0	17.8	0.8	73.5	44.9	0.1	2.0	255.3	0.0	376.6	1.9	0.0	394.4	0.0	394.4
997	0.0	19.4	0.8	75.2	45.2	0.1	2.1	252.3	0.0	R 375.7	1.9	0.0	394.4 R 395.1 R 425.2	0.0	394.4 R 395.2 R 425.2
998	0.0	20.5	1.0	80.4	49.2	(s) 0.1	2.2	271.8	0.0	404.6	1.5	0.0	R 425.2	0.0	R 425.2
999	0.0	19.6	0.8	87.3	54.6		2.2	283.9	0.0	428.9	1.3	0.0	448.5	0.0	448.5
2000	0.0	21.7	1.0	84.3	59.2	0.1	2.2	292.1	0.0	438.8	1.5	0.0	460.5	0.0	460.5
.001 .002	0.0 0.0	23.2 21.9	1.0 0.9	93.5 88.8	56.2 58.6	(s) 0.1	2.0 2.0	299.9 313.9	0.0 0.0	452.5 464.3	2.0 1.2	0.0 0.0	475.8 486.2	0.0 0.0	475.8 486.2
2002	0.0	19.4	1.2	97.7	60.4	0.1	1.8	316.6	0.0	404.3 478.2	1.2	0.0	486.2 497.6	0.0	486.2 497.6
003	0.0	17.0	0.8	110.3	46.8	0.5	1.9	333.8	0.0	494.0	1.1	0.0	511.0	0.0	511.0
2005	0.0	19.6	0.9	119.2	45.5	0.7	1.9	346.4	0.0	514.6	R 13.8	0.0	534.2	0.0	534.2
2006	0.0	R 22.9	0.9	126.4	43.8	0.8	1.8	355.1	0.0	528.8	1.1 R 13.8 R 14.6	0.0	551.7	0.0	551.7
2007	0.0	23.1	0.7	124.1	37.5	0.7	1.9	359.5	0.0	524.4	16.3	0.0	547.4	0.0	547.4

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Arizona

				Petro	leum				Biomass				= 1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Waad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	0	53	41	3	0	44	0	2,990		0	0	0	-15	
1965	333	53 37	44	3 3	0	47	0	4,439		0	0	0	-29	
1970	401	59	19	1	0	20	0	6,141		0	0	0	-51	
1975	4,259	18	5,756	1,653 436	0	7,410 1,622	0	7,240 9.820		0	0	0	-14 -41	
1980 1985	10,916 14,448	50 42	1,185 145	436 211	0	1,622 357	0 1,130	9,820 13,972		0	0	0	-41 0	
1900	15,758	24	145	200	0	210	20,598	7,418		0	0	0	-2	
1995	16,021	22	12	107	0	119	26,985	8,288		0	0	0	336	
1996	16,118	22 23	23	101	0	124	28,840	9,214		0	0	0	-3	
1997	17,504	27	(s)	110	Ŏ	110	29,314	12,049		Õ	Ŏ	Ö	115	
1998	18,316	42	0	117	0	117	30,301	10,970		0	0	0	4	
1999	19,025	55 96	12	75 357	0	88	30,416	9,759		0	0	0	0	
2000	20,408	96	46	357	0	402	30,381	8,354		0	0	0	47	
2001	20,158	129	225	435	0	660	28,724	7,624		0	(s)	0	55	
2002	19,328	145	0	100	0	100	30,862	7,427		0	(s)	0	14 R -16	
2003 2004	19,378	170 240	0	96	0	96	28,581	7,075 6,973		0	(s)	0		
2004	20,060 20,333	240 217	/	83 78	0	90 78	28,113 25,807	6,410		0	14	0	78 R -76	
2006	20,506	248	1	131	0	132	24,012	6,793		0	13	0	-182	
2007	21,189	280	Ö	85	ő	85	26,782	6,598		ő	9	ŏ	3	
							Trillion E	Btu						
1960 1965	0.0	55.1	0.3	(s)	0.0	0.3	0.0	32.2	0.2	0.0	0.0	0.0	-0.1	87.7
1965	6.9	39.5	0.3	(s)	0.0	0.3	0.0	46.4	0.0	0.0	0.0	0.0	-0.1	93.1
1970	8.5	62.4	0.1	(s)	0.0	0.1	0.0	64.4	0.0	0.0	0.0	0.0	-0.2	135.3
1975 1980	89.8 231.9	18.9 52.5	36.2 7.5	9.6 2.5	0.0 0.0	45.8 10.0	0.0 0.0	75.3 102.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	(s) -0.1	229.9 396.3
1985	303.2	52.5 44.2	7.5 0.9	2.5 1.2	0.0	2.1	12.0	146.0	0.0	0.0	0.0	0.0	0.0	507.5
1990	330.2	25.0	0.9	1.2	0.0	1.2	218.0	77.2	0.0	0.0	0.0	0.0	(s)	651.5
1995	329.7	22.7	0.1	0.6	0.0	0.7	283.5	85.5	0.0	0.0	0.0	0.0	1.1	723.2
1996	329.5	22.9	0.1	0.6	0.0	0.7	302.9	95.3	0.0	0.0	0.0	0.0	(s)	751.3
1996 1997	329.5 356.2	27.1	(s) 0.0	0.6	0.0	0.6	307.6	123.1	0.0	0.0	0.0	0.0	(s) 0.4	814.9
1998	373.3	42.9	Ô.Ó	0.7	0.0	0.7	317.9	111.9	0.0	0.0	0.0	0.0	(s)	846.6
1999	390.1	55.4	0.1	0.4	0.0	0.5	317.8	99.8	0.0	0.0	0.0	0.0	0.0	863.6
2000	416.9	97.4	0.3	2.1	0.0	2.4	316.8	85.2	0.0	0.0	0.0	0.0	0.2	918.9
2001	409.3	132.0	1.4	2.5	0.0	3.9	300.1	78.8	0.3	0.0	(s) (s)	0.0	0.2	924.7
2002 2003	392.5 391.3	148.0 171.6	0.0 0.0	0.6 0.6	0.0 0.0	0.6 0.6	322.2 297.8	75.6 72.5	0.4 0.3	0.0 0.0	(S) (S)	0.0 0.0	(s) R -0.1	939.2 934.0
2003	391.3 409.2	245.0	0.0 (s)	0.6 0.5	0.0	0.6	297.8 293.1	72.5 69.9	0.3 0.4	0.0		0.0	0.1	934.0 1,018.4
2004	412.5	222.8	(s)	0.5	0.0	0.5	269.3	64.1	0.4	0.0	(s) 0.1	0.0	0.3 R ₋ 0.3	R 969.6
2006	415.7	253.2	(5)	0.8	0.0	0.8	250.5	67.4	0.5	0.0	0.1	0.0	-0.6	987.6
2007	423.2	286.3	(s) 0.0	0.5	0.0	0.5	280.9	65.2	0.2	0.0	0.1	0.0	(s)	1,056.4
2007	423.2	286.3	0.0	0.5	0.0	0.5	280.9	65.2	0.2	0.0	0.1	0.0	(S)	1,056

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Arkansas

						Petroleum				Martan	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965 1970	14 6 0	215 277 382	2,021 2,828 5,462	2,237 2,094 2,204	4,823 5,599 10,198	14,675 17,922 22,457	539 453 935	4,180 5,437 6,579	28,475 34,332 47,835	0 0 0	992 1,080 2,160	 		 	 	
1975 1980 1985	40 2,076 12,682	258 274 196	9,566 10,686 12,804	1,995 2,035 2,030	9,467 4,847 3,673	27,611 26,490 26,607	9,086 4,981 735	6,852 8,292 4,576	64,577 57,331	4,874 7,833 9,889	3,433 1,695					
1990 1995	12,092 13,540	232 253	12,585 17,007	1,693 1,179	3,463 3,229	28,997 32,121	228 219	3,218 3,910	50,424 50,184 57,665	9,889 11,282 11,658	4,434 3,655 3,218					
1996 1997 1998	14,816 14,068 14,563	268 260 266	16,848 17,950 18,699	1,534 1,539 R 1,528	3,116 3,068 2,322	32,081 33,184 33,261	197 48 103	8,969 9,561 9,295	62,745 65,351 R 65,208	13,357 14,208 13,097	2,797 3,516 3,117					
1999 2000	15,299 15,249	253 251	17,781 18,815	4,575 4,868	5,973 6,522	33,698 33,297	109 302	9,466 9,256	71,602 73,060	12,920 11,652	2,694 2,370					
2001 2002 2003	15,547 14,587 14,726	228 242 247	20,897 21,682 22,044	1,036 794 822	6,152 4,047 3,211	33,246 34,103 34,343	1,543 226 570	7,493 9,218 8,643	70,367 70,070 69,633	14,781 14,559 14,689	2,548 3,436 2,655					
2004 2005	15,733 14,399	215 214	23,356 24,418	722 1,251	3,470 2.705	34,628 34,498	1,188 264	8,367 7,592	71,731 70,727	15,450 13,690	3,643 3,083					
2006 2007	14,979 16,027	234 226	23,624 24,072	1,183 1,226	R 2,767 2,749	34,560 34,962	223 139	8,402 8,062	R 70,759 71,209	15,233 15,486	1,551 3,237					
								Trillion Btu								
1960 1965 1970	0.4 0.2 0.0	222.2 277.7 383.5	11.8 16.5 31.8	12.0 11.2 11.9	19.3 22.5 38.5	77.1 94.1 118.0	3.4 2.8 5.9	25.4 32.9 40.3	148.9 180.0 246.3	0.0 0.0 0.0	10.7 11.3 22.7	37.4 35.1 34.3	0.0 0.0 0.0	7.3 25.5 21.9	0.0 0.0 0.0	426.9 529.8 708.7
1975 1980 1985	0.9 36.6 219.8	257.4 274.0 199.3	55.7 62.2 74.6	10.8 11.0 11.0	35.2 17.8 13.2	145.0 139.1 139.8	57.1 31.3 4.6	41.6 49.8 27.3	345.4 311.3 270.6	53.7 85.4 105.0	35.7 17.6 46.3	35.9 52.4 62.9	0.0 0.0 0.0	61.2 94.2 -106.6	0.0 (s) 0.1	790.2 871.6 797.4
1990 1995 1996	212.7 237.3 260.1	234.5 272.0 275.0	73.3 99.1 98.1	9.2 6.7 8.7	12.6 11.7 11.3	152.3 167.5 167.3	1.4 1.4 1.2	19.0 23.7 50.5	267.9 310.1 337.2	119.4 122.5 140.3	38.0 33.2 28.9	70.6 82.9 87.8	1.4 1.4 1.4	-88.5 -32.3 -53.1	0.5 0.0 0.0	856.4 1,027.1 1,077.5
1997 1998 1999	246.8 254.7 267.0	264.0 272.9 257.7	104.6 108.9 103.6	8.7 8.7 25.9	11.1 8.4 21.6	173.0 173.4 175.6	0.3 0.6 0.7	54.0 52.4 53.3	351.7 352.3 380.7	149.1 137.4 135.0	35.9 31.8 27.6	86.9 82.0 82.2	1.3 1.2 1.2	-40.3 -21.5 -18.0	0.0 0.0 0.0	1,095.4 1,110.8 1,133.3
2000 2001 2002	267.6 274.0 255.2	256.1 231.6 253.7	109.6 121.7 126.3	27.6 5.9 4.5	23.5 22.2 14.6	173.5 173.2 177.6	1.9 9.7 1.4	52.0 42.7 54.2	388.1 375.4 378.6	121.5 154.4 152.0	24.2 26.3 35.0	83.5 66.8 72.9	1.0 0.9 0.8	23.7 -20.1 -8.7	0.0 0.0 0.0	1,165.8 1,109.4 1,139.5
2003 2004 2005	253.7 270.2 247.2	258.5 224.2 216.0	128.4 136.0 142.2	4.7 4.1 7.1	11.7 12.6 9.8	178.8 180.6 180.0	3.6 7.5 1.7	50.1 47.6 43.0	377.3 388.3 383.7	153.1 161.1 142.9	27.2 36.5 30.8	80.4 75.9 77.8	0.7 0.6 0.5	-20.2 R -27.8 36.1	0.0 0.0 0.0	1,130.6 R 1,129.0 _ 1,134.9
2005 2006 2007	256.9 275.0	R 241.6 228.0	137.6 140.2	6.7 7.0	10.0 9.9	180.3 182.5	1.7 1.4 0.9	48.7 46.6	R 384.7 386.9	158.9 162.4	15.4 32.0	81.1 84.9	0.5 0.5 0.6	5.6 -20.4	0.0 0.0 0.0	R 1,144.7 1,149.3

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy. Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arkansas

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	0	33 37	24	62	2,831 3,420	2,918	969			1,339			
1965	0		43	63	3,420	3,527	667			2,333			
1970	0	60	70	147	6,552 5,162	6,769	417			4,321			
1975	0	49	161	128	5,162	5,451	430			7,751			
1980 1985	1	47	152	0	2,142 2,083	2,294	102			10,227			
1985	(s)	40 39	(0)	31 20	2,083 1,851	2,114 1,871	192 158			8,936 10,558			
1995	(s) 0	41	(s) 2	14	1,497	1,513	229			12,417			
1996	0	46	1	12	1,490	1,503	238			12,934			
1997	(s)	42	1	19	1,577	1,596	117			12,990			
1998	(s)	38	1	15	1,169	1,184	104			14,339			
1999	(s)	36	1	36	3.027	3,064	110			14,045			
2000	Ó	42 37	1	25	2,686	2,711	118			14,871			
2001	0	37	1	24	2,823	2,848	111			15,104			
2002	(s)	39	9	20	2,112	2,140	113			15,527			
2003	Ò	38	4	16	1,743	1,763	119			15,598			
2004	(s)	35	6	11	1,934	1,951	122			15,619			
2005	0	34	1	14	1,485 R 1,462	1,500 R 1,474	134			17,134			
2006 2007	(s)	31 33	3 3	9 6	1,462	1,474	122 135			17,065 17,415			
2007	(s)	აა	<u> </u>	0	1,377	· · · · · · · · · · · · · · · · · · ·				17,415			
						Tı	illion Btu						
1960	0.0	34.4	0.1	0.4	11.4	11.9	19.4	0.0	0.0	4.6	70.2	11.3	81.5
1965	0.0	36.5	0.3	0.4	13.7	14.3	13.3	0.0	0.0	8.0	72.2	19.0	91.2
1970	0.0	60.0	0.4	0.8	24.8	26.0	8.3	0.0	0.0	14.7	109.1	35.7	144.8
1975 1980	0.0	48.3	0.9	0.7	19.2 7.9	20.8	8.6	0.0	0.0	26.4	104.2 92.3	63.6	167.8
1980	(s)	46.6	0.9 (s)	0.0 0.2	7.9 7.5	8.8 7.7	2.0 3.8	0.0 0.0	0.0 0.0	34.9 30.5	92.3 82.9	84.1 70.2	176.4 153.1
1990	(s) (s)	40.9 39.5	(s)	0.2	6.7	6.8	3.2	0.0	1.3	36.0	86.9	83.3	170.2
1995	0.0	44.6	(s)	0.1	5.4	5.5	4.6	0.1	1.3	42.4	98.4	96.2	194.7
1996	0.0	44.6 47.5	(s)	0.1	5.4	5.5 5.5	4.8	0.1	1.3 1.2	44.1	103.2	100.4	203.6
1997	(s)	43.0	(s)	0.1	5.7	5.8	2.3	0.1	1.2	44.3	96.8	100.4	197.2
1998	(s)	39.1	(s)	0.1	4.2	4.3	2.1	0.1	1.1	48.9	95.7	111.0	206.7
1999	(s)	36.9	(s)	0.2	10.9	11.2	2.2	0.2	1.0	47.9	99.3	109.6	208.9
2000	0.0	43.2	(s)	0.1	9.7	9.8	2.4	0.2	0.9	50.7	107.1	115.4	222.5
2001	0.0	37.7	(s)	0.1	10.2	10.3	2.2	0.2	0.7	51.5	102.7	114.8	217.5
2002	(s) 0.0	41.2	(s)	0.1	7.6	7.8	2.3	0.2	0.6	53.0	105.0	118.1	223.1
2003		39.9	(s)	0.1	6.3	6.4	2.4	0.3	0.4	53.2	102.7	117.4	220.1
2004	(s)	36.3	(s)	0.1	7.0	7.1	2.4	0.3 0.3	0.3	53.3 58.5	99.7	117.9	217.6
2005	0.0	33.8	(s)	0.1	5.4 R 5.3	5.5 R 5.3	2.7	0.3	0.1	58.5	100.8 R 99.1	127.9	228.7 R 225.0
2006 2007	(s) (s)	32.6 32.7	(s) (s)	0.1 (s)	1\ 5.3 4.9	1\ 5.3 5.0	2.4 2.7	0.4 0.5	0.1 0.1	58.2 59.4	100.4	125.9 128.2	R 225.0 228.6
2001	(5)	32.1	(5)	(5)	4.3	5.0	2.1	0.5	0.1	33.4	100.4	120.2	220.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arkansas

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	0	17	14	38	500	151	103	806	0			1,161			
1965	0	28	24	39	604	127	88	883	0			1,834			
1970	0	39	40	90	1,156	181	41	1,508	0			2,789			
1975 1980	0 5	33 31	92 112	79 132	911 378	143 162	1,077 437	2,302 1,221	0			4,382 5,326			
1980	5 1	27	829	84	368	119	437	1,400	0			5,326			
1990	(s)	25	298	1	327	142	0	769	0			6,681			
1995	0	27	301	5	264	29	Ö	599	Ő			7,771			
1996	0	31	291	5	263	29	(s)	588	0			8,063			
1997	(s)	29	270	5	278	28	0	582	0			8,236			
1998 1999	(s) (s)	28 28	358 260	7 4	206 534	29 28	0	600 827	0			8,910 9,064			
2000	(S)	∠o 33	376	4	474	26 29	0	883	0			9,064			
2001	0	33 32	593	9	498	30	0	1,131	0			9,894			
2002	(s) 0	33	446	4	373	110	0	933	0			10,035			
2003		32	722	3	308	99	0	1,132	0			10,568			
2004	(s)	30	515	17	341	104	(s)	977	0			10,731			
2005 2006	(0)	32 31	714 93	20	262 R 258	140 145	0	1,137 R 508	0			11,366 11,581			
2007	(s)	32	90	12 9	243	123	0	465	0			11,801			
	·					.20		Trillion Btu				,			
1960 1965	0.0 0.0	17.8 28.0	0.1 0.1	0.2	2.0	0.8 0.7	0.6	3.7	0.0	0.4	0.0	4.0	25.8	9.8	35.6
1965	0.0	39.3	0.1	0.2 0.5	2.4 4.4	0.7	0.6 0.3	4.0 6.3	0.0 0.0	0.3 0.2	0.0 0.0	6.3 9.5	38.5 55.3	14.9 23.0	53.4 78.4
1975	0.0	33.1	0.5	0.4	3.4	0.8	6.8	11.9	0.0	0.2	0.0	15.0	60.1	36.0	96.1
1980	0.1	30.5	0.6	0.7	1.4	0.9	2.7	6.4	0.0	0.1	0.0	18.2	55.2	43.8	99.0
1985	(s) (s)	27.2	4.8	0.5	1.3	0.6	0.0	7.3	0.0	0.1	0.0	20.0	54.5	46.0	100.4
1990	(s)	25.3	1.7	(s)	1.2	0.7	0.0	3.7	0.0	0.5	(s)	22.8	52.3	52.7	105.0
1995 1996	0.0	29.7	1.8	(s)	1.0	0.2 0.2	0.0	2.9 2.8	0.0 0.0	0.8 0.8	(s)	26.5 27.5	60.0	60.2	120.2
1996	0.0 (s)	31.8 29.9	1.7 1.6	(s)	1.0 1.0	0.2	(s) 0.0	2.8	0.0	0.8	(s) (s)	27.5 28.1	63.0 61.3	62.6 63.7	125.6 124.9
1997	(S)	28.8	2.1	(s)	0.7	0.1	0.0	3.0	0.0	0.5	(S)	30.4	62.7	68.9	131.6
1999	(s)	28.4	1.5	(s)	1.9	0.1	0.0	3.6	0.0	0.6	(s) 0.0	30.9	63.5	70.7	134.3
2000	(s) (s) 0.0	33.8	2.2	(s)	1.7	0.1	0.0	4.1	0.0	0.6	0.0	32.3	70.8	73.5	144.3
2001	0.0	32.5	3.5	0.1	1.8	0.2	0.0	5.5	0.0	0.6	0.0	33.8	72.3	75.2	147.5
2002	(s) 0.0	34.7	2.6	(s)	1.3	0.6	0.0	4.5	0.0	0.6	0.0	34.2	74.0	76.3	150.4
2003		33.4	4.2	(s)	1.1	0.5	0.0	5.9	0.0	0.6	0.0	36.1	75.9	79.6	155.4
2004 2005	(s) 0.0	31.2 31.7	3.0 4.2	0.1 0.1	1.2 0.9	0.5 0.7	(s) 0.0	4.9 6.0	0.0 0.0	0.5 0.5	0.0 0.0	36.6 38.8	73.2 R 77.0	81.0 84.8	154.2 161.8
2005	(s)	32.4	0.5	0.1	0.9	0.8	0.0	2.3	0.0	R 0.5	0.0	39.5	74.7	85.4	160.1
2007	(s) (s)	32.2	0.5	0.1	0.9	0.6	0.0	2.1	0.0	0.5	0.0	40.3	75.0	86.9	161.9
	1-7			-											

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arkansas

Coal Natural Distillate LPG Discillate LPG Discillate LPG Discillate LPG Discillate LPG Discillate Residual Other Total Provertical Pr						Petro	leum				Biomass					
Thousand Billion Cubic Feet Thousand Barrels Million Wood and Geo-thermal Why Cases Total In		Coal	Natural Gas ^a		LPG b		Residual Fuel Oil	Other d	Total							
1986 6 134 1,057 1,141 485 291 4,548 7,522 0 4,883	Year					Thousand	d Barrels				Wood and Waste ^{f,g}			Net Energy ^{f,h}	Energy	Total f,h
1970 0 162 1962 1,798 291 191 5,750 9,992 0 6,333 6,331 1975 40 132 2,2841 2,715 169 3,634 6,081 15,440 0 10,946 1980 296 126 3,544 2,122 51 1,438 7,453 14,608 0 10,946 1980 296 126 3,544 2,122 51 1,438 7,453 14,608 0 10,946 1980 296 126 3,544 2,122 51 1,438 7,453 14,608 0 10,946 1980 296 127 1994 247 1,470 6,00 726 4,0	1960	14		1,055	1,183	431	315	3,629	6,614				3,161			
1975	1965	6	134	1,057	1,141		291	4,548	7,522				4,883			
1980									9,992				6,333			
1985 379 109 4,273 1,076 630 726 3,981 10,687 0 9,049 1995 325 140 4,041 1,416 449 204 3,326 9,436 0 14,483 1996 325 140 4,041 1,416 449 204 3,326 9,436 0 15,139 1997 286 152 3,987 1,171 472 21 8,989 14,630 0 15,632 1997 286 152 3,987 1,171 472 21 8,989 14,630 0 15,632 1997 286 152 3,987 1,171 472 21 8,989 14,630 0 15,632 1997 286 152 3,987 1,171 472 21 8,989 14,630 0 15,632 1998 324 140 3,628 1,955 44 71 8,881 14,899 0 16,680 2000 382 132 4,026 3,289 550 9 8,682 16,536 0 16,680 2001 437 124 4,589 2,741 936 203 6,884 15,532 0 16,734 2002 422 120 4,347 1,507 999 46 8,688 15,567 0 16,887 2004 415 102 5,583 1,143 1,257 446 7,830 16,259 0 17,322 2005 368 91 6,890 875 1,218 33 7,110 817,89 0 17,989 2006 365 89 6,852 9,966 1,368 4 7,900 17,759 0 0 17,832 2007 396 88 7,091 1,009 950 69 7,554 66 0 0 22,8 0 0 21,6 0 0 16,7 215,7 39.8 255,5 1970 0.0 162.8 11.4 6.8 1.5 1.2 35.6 56.6 0 0 27,1 0 0 10.8 178.3 26,7 205,0 1995 7.8 1518 23.5 5.1 2.3 1.3 20.4 52.8 60.5 0 25.8 0 0 21.6 266.7 52.3 319,0 1995 7.8 1518 23.5 5.1 2.3 1.3 20.4 52.6 0 0 77,5 0 0 49.4 39.2 112.2 451.4 1996 7.5 1518 23.5 5.1 2.3 3.3 3.0 0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	1975	40 206			2,715			0,081	15,440	•						
1990		290														
1995 325	1900			2 /2/	1,076			2,901	6 886	•						
1996 348	1995	325		4 041	1,202		204	3 326	9.436	•						
1997 296 152 3,997 1,171 472 21 8,969 14,630 0 15,632 1999 324 140 3,528 1,955 549 17 8,851 14,899 0 16,066 1999 324 140 3,528 1,955 549 17 8,851 14,899 0 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,066 16,0	1996	348			1,317			8 420	13 700							
1998 287	1997	296			1.171				14,630	ő						
1999 324	1998	287	149	3,816	915	648		8,698	14,079	0						
2001 437 124 4,589 2,741 936 203 6,864 15,332 0 16,734 2002 202 2 120 4,347 1,507 999 46 8,668 15,567 0 16,887 2003 417 112 5,173 1,113 1,071 188 8,143 15,688 0 16,942 2004 415 102 5,583 1,143 1,257 446 7,830 16,259 0 17,322 2005 368 91 6,892 896 1,336 4 7,900 8,71,10 16,128 0 17,665 2006 365 89 6,982 896 1,336 4 7,900 8,71,159 0 17,665 17,839 2007 396 88 7,091 1,069 950 69 7,554 16,734 0 17,839 2007 396 88 7,091 1,069 950 69 7,554 16,734 0 17,839	1999	324	140	3,528	1,955	549		8,851	14.899	0			16,680			
2002 422 120 4,347 1,507 999 46 8,668 15,567 0 16,887 2004 415 102 5,583 1,143 1,257 446 7,830 16,259 0 17,322 2006 368 91 6,890 875 1,218 33 7,110 16,128 0 17,665 2006 365 89 6,952 8966 1,336 4 7,900 817,159 0 17,890 17,890 17,200 88 7,091 1,069 950 69 7,554 16,734 0 17,839 17,890 1		382							16,536				17,268			
2003		437						6,864	15,332	•						
2004 415 102 5,583 1,143 1,257 446 7,830 16,259 0 17,322 2005 388 91 6,890 875 1,218 33 7,110 16,128 0 17,665 2006 365 89 6,952									15,567							
2005 368 91 6,890 875 1,218 33 7,110 16,128 0 17,665 2007 396 88 7,091 1,069 950 69 7,554 16,734 0 17,839 2007 396 88 7,091 1,069 950 69 7,554 16,734 0 17,839 2007 396 88 7,091 1,069 950 69 7,554 16,734 0 17,839	2003		112	5,173	1,113		188	8,143	15,688							
2006	2004	415	102	5,583	1,143	1,257			16,259				17,322			
Trillion Btu Tril	2005	368		6,890	8/5 R occ	1,218	33	7,110	16,128 R 47,450				17,665			
1960			88	7,091	1,069	950							17,839			
1965 0.2 134.2 6.2 4.6 2.5 1.8 28.0 43.1 0.0 21.6 0.0 16.7 215.7 39.8 255.5 1970 0.0 162.8 11.4 6.8 1.5 1.2 35.6 56.6 0.0 22.8 0.0 21.6 266.7 52.3 319.0 1975 0.9 131.7 16.5 10.1 0.9 22.8 37.2 87.6 0.0 27.1 0.0 20.5 267.7 49.2 316.9 1980 6.3 125.1 20.6 7.8 0.3 9.0 45.0 82.8 0.0 50.3 0.0 37.3 301.9 90.0 391.9 1985 8.1 110.9 24.9 3.9 3.3 4.6 23.8 60.5 0.0 58.9 0.0 30.9 269.3 71.1 340.4 1990 5.8 128.3 14.1 4.4 2.2 1.3 15.6 37.6								Tr	Ilion Btu							
1965 0.2 134.2 6.2 4.6 2.5 1.8 28.0 43.1 0.0 21.6 0.0 16.7 215.7 39.8 255.5 1975 0.9 131.7 16.5 10.1 0.9 22.8 37.2 87.6 0.0 27.1 0.0 20.5 267.7 49.2 316.9 1980 6.3 125.1 20.6 7.8 0.3 9.0 45.0 82.8 0.0 50.3 0.0 37.3 301.9 90.0 391.9 1985 8.1 110.9 24.9 3.9 3.3 4.6 23.8 60.5 0.0 58.9 0.0 30.9 269.3 71.1 340.4 1990 5.8 128.3 14.1 4.4 2.2 1.3 15.6 37.6 0.0 66.9 0.0 34.6 273.2 79.9 353.1 1995 7.8 151.8 23.5 5.1 2.3 1.3 20.4 52.6	1960	0.4	112.1	6.1	4.7	2.3	2.0	22.2	37.4	0.0	17.7	0.0	10.8	178.3	26.7	205.0
1975 0.9 131.7 16.5 10.1 0.9 22.8 37.2 87.6 0.0 27.1 0.0 20.5 267.7 49.2 316.9 1980 6.3 125.1 20.6 7.8 0.3 9.0 45.0 82.8 0.0 50.3 0.0 37.3 301.9 90.0 391.0 349.0 45.0 82.8 0.0 50.3 0.0 37.3 301.9 90.0 391.0 349.0 391.0 349.0 391.0 349.0 391.0 349.0 349.0 399.0 371.1 340.4 349.0 391.0 349.0 30	1965	0.2	134.2	6.2		2.5	1.8	28.0			21.6	0.0	16.7	215.7	39.8	255.5
1980 6.3 125.1 20.6 7.8 0.3 9.0 45.0 82.8 0.0 50.3 0.0 37.3 301.9 90.0 391.9 1985 8.1 110.9 24.9 3.9 3.3 4.6 23.8 60.5 0.0 58.9 0.0 30.9 269.3 71.1 340.4 1990 5.8 128.3 14.1 4.4 2.2 1.3 15.6 37.6 0.0 66.9 0.0 34.6 273.2 79.9 340.4 1995 7.8 151.8 23.5 5.1 2.3 1.3 20.4 52.6 0.0 77.5 0.0 49.4 339.2 112.2 451.4 1996 8.4 148.0 19.8 4.8 2.4 0.7 47.3 74.9 0.0 82.2 0.0 51.7 365.1 117.5 482.6 1997 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 53.3 378.9 120.8 499.7	1970	0.0			6.8						25.8	0.0	21.6	266.7		319.0
1985 8.1 110.9 24.9 3.9 3.3 4.6 23.8 60.5 0.0 58.9 0.0 30.9 269.3 71.1 340.4 1990 5.8 128.3 14.1 4.4 2.2 1.3 15.6 37.6 0.0 66.9 0.0 34.6 273.2 79.9 353.1 1995 7.8 151.8 23.5 5.1 2.3 1.3 20.4 52.6 0.0 77.5 0.0 49.4 339.2 112.2 451.4 1996 8.4 148.0 19.8 4.8 2.4 0.7 47.3 74.9 0.0 82.2 0.0 51.7 365.1 117.5 482.6 1997 7.0 153.9 23.3 4.2 2.5 0.1 50.6 80.7 0.0 84.0 0.0 53.3 378.9 120.8 499.7 1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 <td>1975</td> <td>0.9</td> <td></td> <td></td> <td></td> <td>0.9</td> <td></td> <td></td> <td></td> <td></td> <td>27.1</td> <td></td> <td></td> <td>267.7</td> <td>49.2</td> <td>316.9</td>	1975	0.9				0.9					27.1			267.7	49.2	316.9
1990 5.8 128.3 14.1 4.4 2.2 1.3 15.6 37.6 0.0 66.9 0.0 34.6 273.2 79.9 353.1 1995 7.8 151.8 23.5 5.1 2.3 1.3 20.4 52.6 0.0 77.5 0.0 49.4 339.2 112.2 451.4 1996 8.4 148.0 19.8 4.8 2.4 0.7 47.3 74.9 0.0 82.2 0.0 51.7 365.1 117.5 482.6 1997 7.0 153.9 23.3 4.2 2.5 0.1 50.6 80.7 0.0 84.0 0.0 53.3 378.9 120.8 499.6 1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 54.8 372.1 124.3 496.4 1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 </td <td>1980</td> <td>6.3</td> <td>125.1</td> <td>20.6</td> <td></td> <td>0.3</td> <td>9.0</td> <td></td> <td></td> <td>0.0</td> <td>50.3</td> <td></td> <td>37.3</td> <td>301.9</td> <td>90.0</td> <td>391.9</td>	1980	6.3	125.1	20.6		0.3	9.0			0.0	50.3		37.3	301.9	90.0	391.9
1995 7.8 151.8 23.5 5.1 2.3 1.3 20.4 52.6 0.0 77.5 0.0 49.4 339.2 112.2 451.4 1996 8.4 148.0 19.8 4.8 2.4 0.7 47.3 74.9 0.0 82.2 0.0 51.7 365.1 117.5 482.6 1997 7.0 153.9 23.3 4.2 2.5 0.1 50.6 80.7 0.0 84.0 0.0 51.7 365.1 117.5 482.6 1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 54.8 372.1 124.3 496.4 1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 0.0 79.4 (s) 56.9 366.6 130.2 496.8 2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8		8.1					4.6							269.3		
1996 8.4 148.0 19.8 4.8 2.4 0.7 47.3 74.9 0.0 82.2 0.0 51.7 365.1 117.5 482.6 1997 7.0 153.9 23.3 4.2 2.5 0.1 50.6 80.7 0.0 0.0 53.3 378.9 120.8 499.7 1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 54.8 372.1 124.3 496.4 1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 0.0 79.4 (s) 56.9 366.6 130.2 496.8 2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8 0.0 80.6 (s) 58.9 370.8 134.0 504.8 2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 58.9 370.8 134.0 504.8 2002		5.8													79.9	
1997 7.0 153.9 23.3 4.2 2.5 0.1 50.6 80.7 0.0 84.0 0.0 53.3 378.9 120.8 499.7 1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 54.8 372.1 124.3 496.4 1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 0.0 79.4 (s) 56.9 366.6 130.2 496.8 2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8 0.0 80.6 (s) 58.9 370.8 134.0 504.8 2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 57.1 339.3 127.2 466.5 2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1	1995	7.8		23.5			1.3				77.5			339.2	112.2	451.4
1998 7.0 153.1 22.2 3.3 3.4 (s) 48.9 77.8 0.0 79.4 0.0 54.8 372.1 124.3 496.4 1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 0.0 79.4 (s) 56.9 366.6 130.2 496.8 2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8 0.0 80.6 (s) 58.9 370.8 134.0 504.8 2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 57.1 339.3 127.2 466.5 2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1 2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 R 107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1<	1996	8.4	148.0	19.8	4.8	2.4		47.3			82.2		51.7	365.1	117.5	482.6
1999 7.9 142.1 20.6 7.1 2.9 0.1 49.7 80.2 0.0 79.4 (s) 56.9 366.6 130.2 496.8 2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8 0.0 80.6 (s) 58.9 370.8 134.0 504.8 2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 57.1 339.3 127.2 466.5 2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1 2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 8107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1 837.2 130.8 468.0 2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 <td></td> <td></td> <td></td> <td>23.3</td> <td>4.2</td> <td>2.5</td> <td></td>				23.3	4.2	2.5										
2000 9.6 134.8 23.4 11.8 2.9 0.1 48.6 86.8 0.0 80.6 (s) 58.9 370.8 134.0 504.8 2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 57.1 339.3 127.2 466.5 2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1 2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 R 107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1 R 337.2 130.8 468.0 2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9 </td <td>1990</td> <td>7.0</td> <td>100.1</td> <td>22.2</td> <td>3.3 7.1</td> <td></td> <td>(S)</td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td>3/2.1</td> <td>124.3</td> <td>490.4</td>	1990	7.0	100.1	22.2	3.3 7.1		(S)			0.0				3/2.1	124.3	490.4
2001 10.9 125.5 26.7 9.9 4.9 1.3 39.0 81.8 0.0 64.0 (s) 57.1 339.3 127.2 466.5 2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1 2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 P107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1 R 337.2 130.8 468.0 2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9																
2002 10.5 126.3 25.3 5.4 5.2 0.3 50.9 87.2 0.0 70.1 (s) 57.6 351.7 128.4 480.1 2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 P107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1 R337.2 130.8 468.9 2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9	2000	10.0	134.0		9.0	2.9 4 Q					64 N		57.9 57.1	330.3	134.0	466 5
2003 10.1 118.1 30.1 4.0 5.6 1.2 47.2 88.1 0.0 70.3 (s) 57.8 344.5 127.6 472.1 2004 10.1 R 107.0 32.5 4.1 6.6 2.8 44.5 90.5 0.0 70.5 (s) 59.1 R 337.2 130.8 468.0 2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9	2002	10.5	126.3	25.3		5.2	0.3		87.2					351.7	128.4	480.1
2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9	2003	10.1				5.6	1.2			0.0	70.3			344.5	127.6	472.1
2005 9.3 91.1 40.1 3.2 6.4 0.2 40.1 90.0 0.0 72.5 (s) 60.3 323.1 131.8 454.9	2004										70.5			R 337.2		468.0
2006 9.1 R 92.5 40.5 R 3.5 7.0 (s) 45.7 96.7 0.0 77.4 (s) 61.4 R 337.2 132.7 R 469.9 2007 9.8 87.7 41.3 3.8 5.0 0.4 43.6 94.1 0.0 79.9 (s) 60.9 332.4 131.3 463.7	2005	9.3	91.1	40.1	3.2	6.4	0.2	40.1	90.0	0.0	72.5			323.1	131.8	_ 454.9
2007 9.8 87.7 41.3 3.8 5.0 0.4 43.6 94.1 0.0 79.9 (s) 60.9 332.4 131.3 463.7		9.1	R 92.5	40.5	R 3.5		(s)			0.0	77.4			R 337.2	132.7	R 469.9
	2007	9.8	87.7	41.3	3.8	5.0	0.4	43.6	94.1	0.0	79.9	(s)	60.9	332.4	131.3	463.7

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Arkansas

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
960	(s)	9	177	926	2,237	309	274	14,093	3	18,019	0	0			
965	(s)	11	482	1,703	2,094	434	305	17,310	36	22,364	0	0			
970 975	0	13	293 254	3,383	2,204	692 679	300 308	21,985	5 11	28,862	0	0			
980	(s) 0	12 11	254 275	6,410 6,699	1,995 2,035	205	308 432	27,299 26,276	0	36,957 35,922	0	0			
985	0	8	86	7,690	2,030	147	393	25,857	0	36,203	18	0			
990	ŏ	9	125	9.722	1,693	83	442	28,438	ŏ	40,503	144	Ŏ			
995	0	11	143	12,569	1,179	51	422	31.644	Ö	46,008	9	Ō			
996	0	13	121	13,066	1,534	45	410	31,599	0	46,775	1	0			
997	0	12	135	13,582	1,539 R 1,528	42	433	32,684	0	R 48,415	0	0			
998	0	10	122 118	14,345	^K 1,528	33 457	453 458	32,585	0	R 49,066	0	0			
999	0	9	93	13,824 14,346	4,575 4,868	457 93	458 451	33,120 32,719	0	52,552 52,570	0	0			
2000	0	9	183	15,633	1,036	93 89	413	32,719	0	49,634	0	0			
002	0	8	118	16,811	794	54	408	32,995	0	51,180	0	0			
003	Õ	9	103	16,075	822	47	377	33,173	ő	50,597	Õ	Õ			
004	0	8	127	17,189	722	51	382	33,267	Ö	51,739	_ 0	(s)			
005	0	9	67	16,739	1,251	83	380	33,139	1	51,661	R 27	(s) (s)			
2006	0	11	111	16,529	1,183	81	371	33,079	0	51,352	R 25				
2007	0	10	110	16,825	1,226	59	383	33,889	0	52,491	80	(s)			
								Trillion Btu							
960	(s)	9.5	0.9	5.4	12.0	1.2	1.7	74.0	(s) 0.2	95.2	0.0	0.0	104.7	0.0	104.7
965	(s)	11.4	2.4	9.9	11.2	1.7	1.8	90.9	0.2	118.3	0.0	0.0	129.7	0.0	129.7
970 975	0.0	13.5 12.2	1.5 1.3	19.7 37.3	11.9 10.8	2.6 2.5	1.8 1.9	115.5 143.4	(s) 0.1	153.0 197.3	0.0 0.0	0.0 0.0	166.5 209.4	0.0 0.0	166.5 209.4
975 980	(s) 0.0	11.4	1.3	37.3 39.0	11.0	0.8	2.6	138.0	0.1	197.3	0.0	0.0	209.4	0.0	209.4
985	0.0	8.3	0.4	44.8	11.0	0.6	2.4	135.8	0.0	195.0	0.0	0.0	204.2	0.0	204.2
990	0.0	8.7	0.6	56.6	9.2	0.3	2.7	149.4	0.0	218.9	0.5	0.0	228.1	0.0	228.1
995	0.0	12.5	0.7	73.2	6.7	0.2	2.6	165.0	0.0	248.4	(s)	0.0	260.8	0.0	260.8
996	0.0	12.9	0.6	76.1	8.7	0.2	2.5	164.8	0.0	252.9	(s) (s) 0.0	0.0	265.8	0.0	265.8
997	0.0	11.8	0.7	79.1	8.7	0.2	2.6	170.4	0.0	261.7	0.0	0.0	273.5	0.0	273.5
998	0.0	10.5	0.6	83.6	8.7	0.1	2.7	169.8	0.0	265.5	0.0	0.0	276.1	0.0	276.
999	0.0	9.2	0.6	80.5	25.9	1.7	2.8	172.6	0.0	284.1	0.0	0.0	293.3	0.0	293.3
000 001	0.0 0.0	9.0 8.9	0.5 0.9	83.6 91.1	27.6	0.3 0.3	2.7 2.5	170.5 168.2	0.0 0.0	285.2 268.9	0.0 0.0	0.0 0.0	294.2 277.8	0.0 0.0	294.2 277.8
002	0.0	8.4	0.9	97.9	5.9 4.5	0.3	2.5	171.8	0.0	208.9 277.5	0.0	0.0	285.9	0.0	285.9
003	0.0	9.0	0.6	93.6	4.7	0.2	2.3	171.0	0.0	274.0	0.0	0.0	283.0	0.0	283.0
004	0.0	8.3	0.6	100.1	4.1	0.2	2.3	173.5	0.0	280.9	0.0		289.2	(s)	289.2
005	0.0	9.0	0.3	97.5	7.1	0.3	2.3	172.9	(s)	280.5	R 0.1	(s) (s)	289.5	(s)	289.5
006	0.0	11.0	0.6	96.3	6.7	0.3	2.2	172.6	0.0	278.7	R 0.1	(s)	289.7	(s)	289.7
2007	0.0	10.2	0.6	98.0	7.0	0.2	2.3	176.9	0.0	284.9	0.3	(s)	295.2	(s)	295.2

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Arkansas

Coal Gas Residual Perclaim Found F					Petro	oleum				Biomass					
Thousand Billion Thousand Barrels Million Kilowatthous Maste ol. Million Kilowatthous Total		Coal	Natural Gas ^a	Residual Fuel Oil ^b			Total		Hydroelectric Power ^d	Mand	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
1965 0 68 38 (s) 0 38 0 1,080 0 0 0 0 0 0 1970 0 107 688 8 0 0 705 4874 3,433 0 0 0 0 0 0 1976 1 70 32 4,365 62 0 4,427 4874 3,433 0 0 0 0 0 0 1976 1 70 1 32 4,365 62 0 0 3,288 7,833 1,343 0 0 0 0 0 0 0 1976 1 70 1 8 12 0 0 3,288 7,833 1,343 0 0 0 0 0 0 0 0 1990 11,836 32 15 140 0 155 11,282 3,655 0 0 0 0 0 0 0 1990 11,836 33 15 94 0 109 11,655 11,282 3,655 0 0 0 0 0 0 0 1996 14,467 34 81 97 0 179 13,357 2,797 0 0 0 0 0 0 0 1998 14,477 44 1 100 179 0 279 14,203 3,516 0 0 0 0 0 0 1998 14,478 41 100 179 0 279 13,357 2,797 0 0 0 0 0 0 0 1998 14,478 41 100 179 0 279 13,357 2,797 0 0 0 0 0 0 0 1998 14,486 35 23 65 67 0 280 14,487 2,370 0 0 0 0 0 0 0 0 2001 15,110 26 13,40 62 0 1,421 14,781 2,548 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year				Thousan	d Barrels		Million Ki	lowatthours	and		Million Kile	owatthours		Total ^{f,i}
1970	1960		47	118	1										
1975 0 32 4,365 62 0 4,427 4,874 3,433 0 0 0 0 0 1980 1,774 59 3,106 180 0 3,285 7,833 1,695 0 0 0 0 0 0 1985 12,302 11 8 12 0 21 9,889 4,434 0 0 0 0 0 0 1986 12,302 11 8 12 0 155 11,282 3,553 0 0 0 0 0 0 1989 11,836 33 15 40 0 155 11,282 3,553 0 0 0 0 0 0 0 1989 11,447 33 18 18 77 0 199 13,937 2,777 0 0 0 0 0 0 0 1998 14,476 41 100 179 0 279 13,997 3,117 0 0 0 0 0 0 1998 14,276 41 100 179 0 279 13,997 3,117 0 0 0 0 0 0 1998 14,866 35 293 67 0 360 11,652 2,370 0 0 0 0 0 0 2000 14,866 35 293 67 0 360 11,652 2,370 0 0 0 0 0 0 2001 15,110 26 1,340 82 0 1,421 14,781 2,548 0 0 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 0 2004 15,318 49 742 52 0 802 15,450 3,463 0 0 0 0 0 0 2004 15,318 49 742 52 0 802 15,450 3,463 0 0 0 0 0 0 0 2004 15,318 49 742 52 0 802 13,683 3,683 3,683 0 0 0 0 0 0 0 0 0 2006 14,646 11 219 68 0 287 15,450 3,468 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1965		68	38	(s)	•	_38		1,080		•			0	
1980 1,774 59 3,106 180 0 3,285 7,833 1,695 0 0 0 0 0 1985 12,302 11 8 12 0 21 9,889 4,434 0 0 0 0 0 0 0 1990 11,836 32 15 140 0 155 11,282 3,665 0 0 0 0 0 0 1995 13,216 33 15 94 0 109 11,658 3,218 0 0 0 0 0 0 1996 14,467 34 81 97 0 179 13,357 2,797 0 0 0 0 0 1997 13,772 25 27 100 0 1,27 14,208 3,516 0 0 0 0 0 0 1998 14,276 41 100 179 0 270 13,097 2,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1970		107	698	8	0	705		2,160		•	•	•	0	
1985 12,302 11 8 12 0 21 9,899 4,434 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1975		32 50	4,305 3.106		0	4,427 3.285	4,874 7,833	3,433 1,605		•	•		0	
1990 11,836 32 15 140 0 155 11,282 3,655 0 0 0 0 0 0 1996 13,216 33 15 94 0 109 11,658 3,218 0 0 0 0 0 0 1996 14,467 34 81 97 0 179 13,357 2,797 0 0 0 0 0 0 1997 13,772 25 27 100 0 179 0 279 13,097 3,117 0 0 0 0 0 0 1998 14,276 41 100 179 0 279 13,097 3,117 0 0 0 0 0 0 1998 14,974 40 92 167 0 260 12,222 2,694 0 0 0 0 0 0 2000 14,866 35 123 67 0 260 11,622 2,635 0 0 0 0 0 0 2000 14,866 35 2 23 67 0 3,601 11,632 2,344 0 0 0 0 0 2000 14,866 35 2 23 67 0 3,601 11,632 2,344 0 0 0 0 0 0 2001 14,866 35 2 23 67 0 3,601 11,632 2,344 0 0 0 0 0 0 2002 14,1310 56 182 71 0 0 249 14,559 3,448 0 0 0 0 0 0 0 2003 14,310 56 182 71 0 0 453 14,689 2,685 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		12 302				•			4 434		-	0		0	
1995 13,216 33 15 94 0 109 11,658 3,218 0 0 0 0 0 0 1996 14,467 34 81 97 0 179 13,357 2,797 0 0 0 0 0 0 0 0 0 0 1997 13,772 25 27 100 0 127 14,208 3,516 0 0 0 0 0 0 0 0 0 1998 14,276 41 100 179 0 279 13,097 3,117 0 0 0 0 0 0 0 0 0 0 1998 14,974 40 92 167 0 260 12,920 2,694 0 0 0 0 0 0 0 0 0 0 1998 14,974 40 92 167 0 260 12,920 2,694 0 0 0 0 0 0 0 0 0 0 1990 14,974 40 92 167 0 260 12,920 2,694 0 0 0 0 0 0 0 0 0 0 0 1991 15,110 26 1,340 82 0 1,421 14,781 2,548 0 0 0 0 0 0 0 0 0 0 0 0 0 100 15,110 26 1,340 82 0 1,421 14,781 2,548 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1990	11,836	32		140	ŏ		11,282	3,655		•	ő		ő	
1987 13,772 25 27 100 0 127 14,208 3,516 0 0 0 0 0 1998 14,276 41 100 179 0 279 13,097 3,117 0 0 0 0 0 0 1999 14,874 40 92 167 0 260 12,920 2,694 0 0 0 0 0 0 2001 15,110 26 1,340 82 0 1,421 14,781 2,548 0 0 0 0 0 0 2001 15,110 26 1,340 82 0 1,421 14,781 2,548 0 0 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 0 2003 14,310 56 382 71 0 453 14,689 2,655 0 0 0 0 0 0 2004 15,318 40 742 62 0 805 15,450 3,643 0 0 0 0 0 2005 14,031 49 230 72 0 302 13,690 3,083 0 0 0 0 0 2006 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 2007 1995 0 0 0 48,4 0,7 (s) 0,0 0,7 0,0 10,7 0,0 0,0 0,0 0,0 0,0 0,0 7,91 1970 0 0 107,9 4,4 (s) 0,0 4,4 0,0 22,7 0,0 0,0 0,0 0,0 0,0 0,0 149,4 1990 30,2 60,4 19,5 1,0 0,0 2,8 85,7 35,7 0,0 0,0 0,0 0,0 0,0 149,4 1990 30,2 60,4 19,5 1,0 0,0 2,8 80,4 17,6 0,0 0,0 0,0 0,0 0,0 0,0 0,0 149,4 1990 30,2 60,4 19,5 1,0 0,0 2,6 85,4 17,6 0,0 0,0 0,0 0,0 0,0 0,0 149,4 1995 211,7 12,0 0,1 0,1 0,1 0,0 0,6 85,4 17,6 0,0 0,0 0,0 0,0 0,0 0,0 375,2 1995 229,5 33,4 0,1 0,5 0,6 0,0 1,1 140,3 28,9 0,0 0,0 0,0 0,0 0,0 0,0 375,2 1995 229,5 33,4 0,1 0,5 0,6 0,0 1,1 140,3 28,9 0,0 0,0 0,0 0,0 0,0 0,0 0,0 44,4 0,6 1,0 0,9 119,4 38,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 44,8 0,5 0,6 0,0 1,1 140,3 28,9 0,0 0,0 0,0 0,0 0,0 0,0 0,0 44,9 0,0 1,1 140,3	1995	13,216	33	15	94	•			3,218			0		0	
1998 14,276 41 100 179 0 279 13,097 3,117 0 0 0 0 2000 14,866 35 293 67 0 360 11,652 2,370 0 0 0 0 0 200 0	1996	14,467	34	81	97	0	179	13,357	2,797			0		0	
1999	1997	13,772	25		100	0		14,208	3,516		•	0		0	
2000 14,866 35 293 67 0 360 11,652 2,370 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 2004 14,310 56 382 71 0 453 14,689 2,655 0 0 0 0 2004 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 2006 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 2007 15,529 64 70 63 0	1998	14,276	41	100	179	0		13,097	3,117 2,604			•		0	
2001 15,110 26 1,340 82 0 1,421 14,781 2,543 0 0 0 0 0 0 2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 0 2003 14,310 56 382 71 0 453 14,689 2,655 0 0 0 0 0 0 0 2003 14,310 56 382 71 0 3453 14,689 2,655 0 0 0 0 0 0 0 2005 15,318 40 742 62 0 855 15,450 3,643 0 0 0 0 0 0 0 2005 14,031 49 230 72 0 302 13,690 3,083 0 0 0 0 0 0 0 2005 14,031 49 230 72 0 302 13,690 3,083 0 0 0 0 0 0 0 2005 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 0 0 2005 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 0 0 2005 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 0 2005 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000		35	293		0		11,520	2,034		•	•	•	0	
2002 14,165 42 180 69 0 249 14,559 3,436 0 0 0 0 0 2003 14,310 56 382 71 0 453 14,689 2,655 0 0 0 0 0 0 2004 15,318 40 742 62 0 805 15,450 3,643 0 0 0 0 0 0 2005 14,031 49 230 72 0 302 13,690 3,083 0 0 0 0 0 0 2006 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 2008 14,614 71 219 48 0 0 267 15,233 1,551 0 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 2008 14,614 71 219 48 0 0 267 15,233 1,551 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2001	15.110	26	1.340	82	ŏ		14.781	2.548			•		ŏ	
2003 14,310 56 382 71 0 453 14,689 2,655 0 0 0 0 0 0 2004 15,318 40 742 62 0 805 15,450 3,643 0 0 0 0 0 0 2005 14,031 49 230 72 0 302 13,690 3,083 0 0 0 0 0 0 2006 14,614 71 219 48 0 267 15,233 1,551 0 0 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 2008 14,614 71 219 48 0 0 267 15,233 1,551 0 0 0 0 0 0 0 0 2007 15,629 64 70 63 0 133 15,486 3,237 0 0 0 0 0 0 0 0 2008 14,614 71 219 48 0 0 267 15,233 1,551 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2002	14,165	42	180	69	0	249	14,559	3,436		0	•		0	
2005	2003	14,310	56		71	U			2,655		•	0		0	
2006	2004	15,318		742	62	0		15,450	3,643		•	•		0	
15,629	2005	14,031	49		/2	0	302	13,690	3,083			•		0	
1960 0.0 48.4 0.7 (s) 0.0 0.7 0.0 10.7 0.0 0.0 0.0 0.0 0.0 0.0 59.8 1965 0.0 67.6 0.2 (s) 0.0 0.2 0.0 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1970 0.0 107.9 4.4 (s) 0.0 4.4 0.0 22.7 0.0 0.0 0.0 0.0 0.0 0.0 1975 0.0 32.2 27.4 0.4 0.0 27.8 53.7 35.7 0.0 0.0 0.0 0.0 0.0 0.0 1980 30.2 60.4 19.5 1.0 0.0 20.6 85.4 17.6 0.0 0.0 0.0 0.0 0.0 0.0 1985 211.7 12.0 0.1 0.1 0.0 0.1 105.0 46.3 0.0 0.0 0.0 0.0 0.0 0.0 1990 206.9 32.7 0.1 0.8 0.0 0.9 119.4 38.0 0.0 0.0 0.0 0.0 0.0 0.0 1995 229.5 33.4 0.1 0.5 0.0 0.6 122.5 33.2 0.0 0.0 0.0 0.0 0.0 0.0 1996 251.7 34.8 0.5 0.6 0.0 1.1 140.3 28.9 0.0 0.0 0.0 0.0 0.0 456.8 1997 239.8 254 0.2 0.6 0.0 1.1 140.3 28.9 0.0 0.0 0.0 0.0 0.0 456.8 1998 247.7 41.4 0.6 1.0 0.0 1.7 137.4 31.8 0.0 0.0 0.0 0.0 0.0 459.9 1999 259.1 41.1 0.6 1.0 0.0 1.7 137.4 31.8 0.0 0.0 0.0 0.0 0.0 0.0 459.9 1999 259.1 41.1 0.6 1.0 0.0 1.7 137.4 31.8 0.0 0.0 0.0 0.0 0.0 0.0 479.8 2001 263.1 27.1 8.4 0.5 0.0 8.9 154.4 26.3 0.0 0.0 0.0 0.0 0.0 0.0 479.8 2001 263.1 27.1 8.4 0.5 0.0 8.9 154.4 26.3 0.0 0.0 0.0 0.0 0.0 0.0 479.8 2002 244.8 43.1 1.1 0.4 0.0 1.5 152.0 35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 479.8 2004 260.1 41.3 4.7 0.4 0.0 5.0 161.1 36.5 2.4 0.0 0.0 0.0 0.0 0.0 465.9 2005 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0.0 0.0 0.0 0.0 0.0 465.9 2006 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0	2000	15,629	64	70	63		133	15,233	3.237						
1965 0.0 67.6 0.2 (\$) 0.0 0.2 0.0 11.3 0.0<		,	-					,	*						
1965 0.0 67.6 0.2 (s) 0.0 0.2 0.0 11.3 0.0 0.0 0.0 0.0 0.0 0.0 79.1 1970 0.0 107.9 4.4 (s) 0.0 4.4 0.0 27.8 53.7 35.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 149.4 1980 30.2 60.4 19.5 1.0 0.0 20.6 85.4 17.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 214.2 1985 211.7 12.0 0.1 0.1 0.1 0.0 0.1 105.0 46.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 375.2 1990 206.9 32.7 0.1 0.8 0.0 0.9 119.4 38.0 0.0 0.0 0.0 0.0 0.0 0.0 397.8 1995 229.5 33.4 0.1 0.5 0.0 0.6 122.5 33.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 397.8 1996 251.7 34.8 0.5 0.6 0.0 1.1 140.3 28.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 456.8 1997 239.8 25.4 0.2 0.6 0.0 1.1 140.3 28.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 456.8 1998 247.7 41.4 0.6 1.0 0.0 1.7 137.4 31.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 459.9 259.1 41.1 0.6 1.0 0.0 1.7 137.4 31.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 449.2 200 258.0 35.3 1.8 0.4 0.0 0.2 2.2 121.5 24.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 441.2 200 258.0 35.3 1.8 0.4 0.5 0.0 8.9 154.4 26.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 449.2 2001 263.1 27.1 8.4 0.5 0.0 8.9 154.4 26.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1960	0.0	48.4	0.7	(s)	0.0	0.7	0.0	10.7	0.0	0.0	0.0	0.0	0.0	59.8
1970 0.0 107.9 4.4 (s) 0.0 4.4 0.0 22.7 0.0	1965			0.2		0.0							0.0	0.0	
1880 30.2 60.4 19.5 1.0 0.0 20.6 85.4 17.6 0.0	1970	0.0	107.9	4.4	(s)	0.0	4.4	0.0	22.7	0.0	0.0	0.0	0.0	0.0	135.0
1985 211.7 12.0 0.1 0.1 0.0 0.1 105.0 46.3 0.0	1975		32.2	27.4	0.4		27.8	53.7	35.7	0.0				0.0	149.4
1990 206.9 32.7 0.1 0.8 0.0 0.9 119.4 38.0 0.0	1980			19.5		0.0			17.6					0.0	214.2
1995 229.5 33.4 0.1 0.5 0.0 0.6 122.5 33.2 0.0	1985	211.7	12.0						46.3					0.0	3/5.2
1996 251.7 34.8 0.5 0.6 0.0 1.1 140.3 28.9 0.0	1990	200.9	32.1 33.1		0.6	0.0	0.9	119.4	30.0					0.0	397.0 410.2
1997 239.8 25.4 0.2 0.6 0.0 0.8 149.1 35.9 0.0	1996	251.7	34.8	0.1	0.5	0.0	1.1	140.3	28.9	0.0	0.0	0.0	0.0	0.0	456.8
1998 247.7 41.4 0.6 1.0 0.0 1.7 137.4 31.8 0.0	1997								35.9					0.0	
2000 258.0 35.3 1.8 0.4 0.0 2.2 121.5 24.2 0.0 0.0 0.0 0.0 0.0 0.0 441.2 2001 263.1 27.1 8.4 0.5 0.0 8.9 154.4 26.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 479.8 2002 244.8 43.1 1.1 0.4 0.0 1.5 152.0 35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 476.4 2003 243.5 58.2 2.4 0.4 0.0 2.8 153.1 27.2 7.1 0.0 0.0 0.0 0.0 0.0 491.9 2004 260.1 41.3 4.7 0.4 0.0 5.0 161.1 36.5 2.4 0.0	1998	247.7	41.4	0.6	1.0	0.0	1.7	137.4	31.8	0.0	0.0		0.0	0.0	459.9
2001 263.1 27.1 8.4 0.5 0.0 8.9 154.4 26.3 0.0 <td< td=""><td></td><td>259.1</td><td>41.1</td><td>0.6</td><td>1.0</td><td></td><td>1.6</td><td>135.0</td><td>27.6</td><td></td><td></td><td></td><td></td><td>0.0</td><td></td></td<>		259.1	41.1	0.6	1.0		1.6	135.0	27.6					0.0	
2002 244.8 43.1 1.1 0.4 0.0 1.5 152.0 35.0 0.0 0.0 0.0 0.0 0.0 0.0 476.4 2003 243.5 58.2 2.4 0.4 0.0 2.8 153.1 27.2 7.1 0.0 0.0 0.0 0.0 0.0 491.9 2004 260.1 41.3 4.7 0.4 0.0 5.0 161.1 36.5 2.4 0.0 0.0 0.0 0.0 0.0 8506.5 2005 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0.0 0.0 0.0 0.0 465.9	2000	258.0	35.3				2.2		24.2	0.0				0.0	441.2
2003 243.5 58.2 2.4 0.4 0.0 2.8 153.1 27.2 7.1 0.0 0.0 0.0 0.0 0.0 491.9 2004 260.1 41.3 4.7 0.4 0.0 5.0 161.1 36.5 2.4 0.0 0.0 0.0 0.0 R 506.5 2005 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0.0 0.0 0.0 0.0 465.9	2001	263.1	27.1	8.4	0.5	0.0	8.9	154.4	26.3	0.0	0.0		0.0	0.0	4/9.8
2005 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0.0 0.0 0.0 465.9	2002	244.8 243.5	43.1 58.2	1.1 2.4			1.5		35.U 27.2						470.4 401 0
2005 237.9 50.4 1.4 0.4 0.0 1.9 142.9 30.8 2.1 0.0 0.0 0.0 0.0 465.9															R 506.5
2006 247.8 73.0 1.4 0.3 0.0 1.7 158.9 15.4 0.8 0.0 0.0 0.0 0.0 0.0 497.6 2007 265.2 65.2 0.4 0.4 0.0 0.8 162.4 32.0 1.7 0.0 0.0 0.0 0.0 0.0 527.4	2005	237.9	50.4	1.4	0.4	0.0	1.9	142.9	30.8	2.1	0.0	0.0	0.0	0.0	465.9
2007 265.2 65.2 0.4 0.4 0.0 0.8 162.4 32.0 1.7 0.0 0.0 0.0 0.0 527.4	2006	247.8	73.0	1.4	0.3	0.0	1.7	158.9	15.4	0.8	0.0	0.0	0.0	0.0	497.6
	2007	265.2	65.2	0.4	0.4	0.0	8.0	162.4	32.0	1.7	0.0	0.0	0.0	0.0	527.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, California

						Petroleum				Noodoo	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	1,342	1,258	26,683	25,818	8,888	137,025	80,575	46,536	325,526	(s) 270	17,445					
1965	2,379	1,690	35,105	40,150	11,029	169,900	69,745	49,197	375,126		30,523					
1970	2,327	2,126	39,221	59,614	15,532	214,064	70,324	55,062	453,818	3,132	38,082					
1975 1980	2,151 2.669	1,833 1,808	42,335 62,277	62,607 63,201	19,264 19,197	241,508 253,593	111,086 148,701	59,924 75,195	536,724 622,165	6,071 4,920	40,103 40,780					
1985	1,942	1,846	71,538	67,028	20,497	267,368	66,724	75,749	568,904	19,729	31,717					
1990	3,809	2,036	77,233	94.907	19,992	305.983	64,095	78,125	640.335	32,693	23,793					
1995	3,675	2,077	73,050	R 95,304	14,798	313,464	46,248	66,550	609,415	30,246	48,033					
1996 1997	3,444 3,628	1,955 2,146	73,677 79,624	103,773 R 103,188	10,914 8,854	318,257 322,871	40,283 21,420	71,219 68,918	618,122 R 604,874	34,097 30,512	44,751 41,055					
1997	2,903	2,140	79,024 78,526	R 105,482	10,936	329,943	17,194	67,773	R 609,854	34,594	49,548					
1999	3,005	2,340	82,748	98,673	12,171	337,791	23,794	73,346	628,524	33,372	40,737					
2000	2,954	2,509	93,456	103,001	12,558	342,890	33,734	68,472	654,112	35,176	38,334					
2001	2,834	2,465	97,376	97,216	11,060	351,981	25,470	78,628	661,731	33,220	25,542					
2002 2003	2,943 2,866	2,273 2,269	89,580 121,454	102,756 99,721	14,696 14,689	369,567 367,675	30,768 23,421	78,424 74,277	R 685,790 R 701,238	34,352 35,594	31,141 36,371					
2003	2,847	2,209	94,023	105,408	14,831	376,075	27,786	75,015	693,138	30,394	34,141					
2005	2,849	2.248	96,902	104,612	12 375	381,301	33,939	76,128	705 257	36,155	39,632					
2006	2,771	R 2,316	99,305	106,403	R 12,090	383,178	37,731	75,410	R 714,117	31,959	48,047					
2007	2,774	2,395	99,024	110,794	11,505	380,780	39,680	76,481	718,263	35,792	27,328					
								Trillion Btu								
1960	35.9	1,301.8	155.4	140.7	35.7	719.8	506.6	280.6	1,838.7	(s) 3.2	187.7	82.1	0.8	6.1	-1.4	3,451.7
1965 1970	63.7 61.8	1,813.2 2,241.3	204.5 228.5	222.2 332.9	44.2 58.7	892.5 1,124.5	438.5 442.1	296.3 331.5	2,098.2 2,518.2	3.2 34.4	319.1 399.6	97.5 116.8	4.2 11.3	-4.7 131.8	(s)	4,394.3 5,515.3
1975	56.4	1,937.3	246.6	350.7	71.6	1,124.5	698.4	361.4	2,997.3	66.9	417.3	127.5	70.2	383.9	(s) 0.0	6,056.7
1980	66.2	1,890.9	362.8	354.2	70.5	1,332.1	934.9	455.0	3,509.6	53.7	423.6	115.6	109.8	407.7	0.3	6,577.3
1985	45.3	1,925.5	416.7	375.8	73.8	1,404.5	419.5	458.2	3,148.5	209.6	331.3	165.3	195.7	595.9	15.4	6,632.5
1990	84.2	2,101.6	449.9	534.7	72.5	1,607.3	403.0	471.0	3,538.3	346.0	247.5	218.4	358.3	647.0	19.8	7,561.0
1995 1996	84.3 80.3	2,110.0 2,017.7	425.5 429.2	540.4	53.6 39.4	1,634.7 1,660.0	290.8 253.3	403.2 431.9	3,348.2	317.8 358.1	495.3 462.7	172.9 167.6	298.9 318.4	550.5 670.7	5.9 4.2	7,383.8 _ 7,481.8
1997	82.7	2,185.0	463.8	588.4 R 585.1	32.0	1,683.1	134.7	417.7	3,402.1 R 3,316.4	320.2	419.3	151.2	326.2	785.4	4.2	R 7,590.9
1998	66.2	2,418.7	457.4	R 598.1	39.5	1.719.7	108.1	414.2	R 3,337.0	362.9	505.2	141.1	325.3	696.4	-2.1	R 7,850.6
1999	69.5	2,379.6	482.0	559.5	44.0	1,760.2	149.6	449.9	3,445.2	348.7	416.6	151.5	333.4	705.0	0.6	7,850.1
2000	70.0	2,456.4	544.4	584.0	45.3	1,786.5	212.1	421.7	3,593.9	366.8	391.0	159.2	320.0	629.4	11.5	7,998.4
2001 2002	67.8 70.0	2,513.9 2,268.6	567.2 521.8	551.2 582.6	40.0 53.1	1,833.8 1,924.7	160.1 193.4	478.4 476.3	3,630.7 3,752.0	347.1 358.6	263.9 316.8	R 156.1 162.1	317.8 338.6	698.3 722.5	10.4 6.4	8,006.1 7,995.6
2002	69.5	2,200.0	707.5	565.4	53.3	1,924.7	193.4	448.6	3,836.6	370.9	372.5	155.3	337.1	R 745.8	14.1	_ 8,221.1
2004	68.9	2,457.4	547.7	597.7	53.7	1,961.2	174.7	453.2	3,788.2	315.6	342.2	R 155 8	343.5	R 866.7	4.2	R 8,342.4
2005	67.4	2,297.7	564.5	593.1	44.8	1,989.6	213.4	459.5	3,864.9	377.3	396.3	R 145 6	341.3	R 823.1	18.9	R 8,332.4
2006	67.0	R 2,355.1	578.5	603.3	R 43.6	1,999.4	237.2	454.9	R 3,916.9	333.5	476.6	R 146.1	344.3	781.1	8.1	R 8,428.7
2007	66.4	2,440.4	576.8	628.2	41.3	1,987.3	249.5	463.2	3,946.3	375.4	270.1	145.5	357.5	871.2	18.8	8,491.5

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy. Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, California

				Petro	leum		Biomass			-			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	4	365	485	15	3,778	4.277	1,263			14,975			
1965	6	365 489	427	31	5,095	4,277 5,553	1,083			23,800			
1970	61	553	500	166	5,167 2,708	5,833	1,209			35,777			
1975	0	631	493	211	2,708	3,412	1,374			44,257			
1980 1985	1	529 527	94	18 73	4,919 5,350	5,032 5,567	2,649 4,577			52,011			
1985	12	527	144	/3	5,350	5,567	4,5//			57,501			
1990 1995	5 17	515 477	202 175	88 81	5,750 4,884	6,040 5,140	3,659 2,832			66,575 68,783			
1995	21	411	148	103	4,079	4,331	2,032 2,941			71,396			
1997	12	473 479	159	135	3,686	3,979	1,883			73,086			
1998	13	550	169	237	6,092	6,498	1,674			75,205			
1999	3	568	171	187	5,711	6,069	1,762			75,303			
2000	3	517	241	281	5,328	5,850	1.894			79,241			
2001	(s)	513	293	350	3.657	4,301	1,894 1,777			76,668			
2002	(s)	511	147	216	4,256	4,619	1,804			77,202			
2003	(s)	498	117	196	6,386	6,699	1,899			82,926			
2004	1	512	142	276	8,120	8,539	1,947			83,361			
2005	2	484	156	304	8,313	8,773 R 7,429	R 1,294			85,610			
2006 2007	(s) 0	492 492	153	287 152	R 6,989 7,507	7,429	R 1,178 1,299			89,836 89,158			
2007	0	492	96	152	7,007	· · · · · · · · · · · · · · · · · · ·	*			89,138			
						Т	rillion Btu						
1960	0.1	377.6	2.8	0.1	15.2	18.1	25.3	0.0	0.0	51.1	472.1	126.4	598.4
1965	0.1	524.9	2.5	0.2	20.4	23.1	21.7	0.0	0.0	81.2	651.0	193.9	844.9
1970 1975	1.3 0.0	582.4 666.7	2.9	0.9	19.5	23.4 14.1	24.2 27.5	0.0 0.0	0.0 0.0	122.1 151.0	753.4 859.3	295.5 363.1	1,048.8 1,222.5
1975	(0.0	552.4	2.9 0.6	1.2 0.1	10.1 18.1	18.7	53.0	0.0	0.0	177.5	801.6	363.1 427.7	1,222.5
1985	(s) 0.3	547.8	0.8	0.1	19.3	20.5	91.5	0.0	0.0	196.2	856.3	451.9	1,308.2
1990	0.3	531.0	1.2	0.5	20.8	22.5	73.2	0.0	18.4	227.2	872.5	525.3	1,397.8
1995	0.4	482.7	1.0	0.5	17.7	19.2	56.6	0.2	20.5	234.7	814.3	533.0	1.347.3
1996	0.5	489.5	1.0 0.9	0.5 0.6	14.7	19.2 16.2	58.8	0.2 0.2	20.4	243.6	829.3	554.0	1,347.3 1,383.2
1997	0.3	487.1	0.9	0.8	13.3	15.0	37.7	0.2	20.1	249.4	809.7	565.0	1.374.7
1998	0.3	580.9	1.0	1.3	22.0	24.3	33.5	0.2	19.7	256.6	915.6	581.9	1,497.5
1999	0.1	576.9	1.0	1.1	20.7	22.7	35.2	0.1	19.2	256.9	911.2	587.7	1,498.9
2000	0.1	494.2	1.4	1.6	19.2	22.2	37.9	0.2	18.4	270.4	843.2	615.0	1,458.2
2001	(s)	520.6	1.7	2.0	13.2	16.9	35.6	0.2	17.8	261.6	852.7	582.9	1,435.6
2002	(s)	504.3	0.9	1.2	15.4	17.5	36.1	0.2	17.3	263.4	838.7	587.2	1,425.9
2003	(s)	508.6 R 520.8	0.7	1.1	23.2	25.0	38.0	0.2	17.1	282.9	871.7 R 902.2	624.4	1,496.1
2004 2005	(s)	R 520.8 492.8	0.8 0.9	1.6	29.4	31.8	38.9 R 25.9	0.2 0.2	17.2 17.4	284.4 292.1	R 893.3 R 861.1	629.3 638.9	1,522./ R 1,500.0
2005	(s)	R 496.4	0.9	1.7 1.6	30.1 R 25.2	32.7 R 27.7	R 23.6	0.2	17.4	306.5	R 873.7	662.8	1,522.7 R 1,500.0 R 1,536.5 1,535.2
2007	(s) 0.0	498.5	0.9	0.9	27.0	28.4	26.0	0.2	21.6	304.2	878.8	656.4	1,550.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, California

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	3	109	637	46	667	1,406	7,284	10,040	0			22,039			
1965	5	164	560	95	899	1,309	6,200	9.064	0			29,917			
1970	48	210	657	510	912	1,482	8,631	12,192	0			40,634			
1975 1980	0	240	647 3.225	650 222	478 868	1,622 1,795	4,377	7,774	0			57,846			
1980	3 41	258 205	3,225 3,416	353	944	1,795	6,811 35	12,921 6,507	0			63,465 73,592			
1990	20	285	4,094	19	1,015	1,739	882	7,937	7			88,311			
1995	116	279	3,164	27	862	236	4	4.292	4			86,032			
1996	156	235 254	2,559	69	720	231	12	3,591	11			88,605			
1997	97	254	2,487	41	650	233	2	3,414	5			92,299			
1998	103	282 245	2,657	63	1,075	250	59	4,104	12 11			99,067			
1999 2000	24 21	245	2,745 3,104	29 52	1,008 940	236 237	0	4,018 4,335	8			95,771 99,900			
2001		246	2,838	63	645	246	27	3,820	0			107,390			
2002	(s) (s) (s)	238	2,190	27	751	253	0	3,222	Ö			108,972			
2003	(s)	233	1,743	47	1,127	262	0	3,179	1			109,578			
2004	8	232	1,663	72	1,433	271	0	3,439	(s <u>)</u>			118,953			
2005 2006	18	233 244	1,968 1,481	59 54	1,467 R 1,233	274 285	0	3,768 R 3.053	5 7			117,551 121,255			
2006	0	2 44 251	1,461	34 31	1,325	280	0	3,469	13			123,690			
			1,001		1,020			Trillion Btu				.20,000			
1000	0.4	440.7	0.7			7.4	45.0			2.5		75.0	0.40.0	400.0	404.0
1960 1965	0.1	112.7 175.5	3.7	0.3	2.7	7.4 6.9	45.8 39.0	59.8	0.0	0.5	0.0	75.2	248.2	186.0	434.2 575.1
1965	0.1 1.1	221.3	3.3 3.8	0.5 2.9	3.6 3.4	7.8	54.3	53.3 72.2	0.0 0.0	0.4 0.5	0.0 0.0	102.1 138.6	331.3 433.6	243.7 335.6	769.2
1975	0.0	253.7	3.8	3.7	1.8	8.5	27.5	45.3	0.0	0.5	0.0	197.4	496.8	474.6	971.5
1980	0.1	269.4	18.8	1.3	3.2	9.4	42.8	75.5	0.0	1.3	0.0	216.5	562.8	521.9	1.084.8
1985	1.0	212.9	19.9	2.0	3.4	9.2	0.2	34.8	0.0	1.3 2.2	0.0	251.1	502.0	578.3	1,080.2
1990	0.5	294.2	23.8	0.1	3.7	10.1	5.5	43.3	0.1	8.4	0.3	301.3	648.1	696.8	1,344.9
1995 1996	2.7 3.6	281.8 243.1	18.4 14.9	0.2 0.4	3.1 2.6	1.2 1.2	(s) 0.1	23.0 19.2	(s) 0.1	11.4 11.2	0.4 0.5	293.5 302.3	612.8 580.1	666.6 687.5	1,279.5 1,267.6
1996	2.2	258.3	14.9	0.4	2.6	1.2	(s)	18.3	0.1	9.8	0.5 0.5	302.3 314.9	604.1	713.5	1,267.6
1998	2.4	298.1	15.5	0.4	3.9	1.3	0.4	21.4	0.1	8.6	0.7	338.0	669.3	766.6	1,317.0
1999	0.6	248.3	16.0	0.2	3.9 3.6	1.2	0.0	21.0	0.1	9.0	0.5	326.8	606.3	747.4	1,435.9 1,353.7
2000	0.5	235.7	18.1	0.3	3.4	1.2	(s)	23.0	0.1	10.8	0.6	340.9	611.4	775.3	1 386 8
2001	(s)	249.6	16.5	0.4	2.3	1.3	0.2	20.7	0.0	9.1	0.6	366.4	646.4	816.5	R 1,462.9
2002	(s) (s)	235.2	12.8	0.2	2.7	1.3	0.0	16.9	0.0	9.9	0.7	371.8	634.5	828.8	1,463.3
2003 2004	(s) 0.2	237.9 235.6	10.2 9.7	0.3 0.4	4.1 5.2	1.4 1.4	0.0 0.0	15.9 16.7	(s)	10.9 11.0	0.7 0.7	373.9 405.9	639.2 670.0	825.0 898.0	1,464.3 1,568.0
2004	0.2	235.6	9.7 11.5	0.4	5.3	1.4	0.0	18.5	(s) 0.1	Rga	0.7	405.9 401.1	667.9	877.3	R 1 545 1
2006	(s)	246.7	8.6	0.3	R 4.4	1.5	0.0	14.9	0.1	R 10.4	0.7	413.7	686.5	894.6	R 1,581.1
2007	(s) 0.0	254.0	10.7	0.2	4.8	1.5	0.0	17.1	0.1	9.4	0.6	422.0	703.3	910.6	1,613.9

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, California

					Petro	leum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	1,313	451	10,127	4,231	2,851	10,750	38,766	66,725	(s)			20,190			
1965	2,361	529	13,002	4,826	2,245	11,846	42,957	74,876	(s)			28,904			
1970 1975	2,215 2,151	711 666	8,510 10,519	9,147 15,688	1,942 1,338	12,121 8,308	49,746 55,037	81,466 90,890	(s) 0			42,169 46,053			
1980	2,665	486	15,576	12,887	1,698	12,554	71,866	114,581	0			51,888			
1985	1,889	433	17,779	12,977	3.065	18.732	71,418	123,971	ő			52,972			
1990	2,874	588	17,076	12,304	3,163	1,838	73,223	107.604	0			55,892			
1995	2,485	698	11,664	8,489	2,849	1,467	60,284	84,752	0			57,367			
1996	2,414 2,697	702	11,865 14,035	5,634	2,741	304	64,721	85,265	0			57,683			
1997 1998	2,697 1,885	794 819	12,849	4,169 3.100	2,910 3,263	102 31	62,361 60,548	83,577 79,791	0			62,017 61,641			
1999	2,034	792	14,766	5,068	1,922	570	66,301	88,627	0			63,217			
2000	1,992	841	18,686	5,948	1,971	108	61,170	87,884	ŏ			64,311			
2001	1.937	719	21,700	6,367	4,533	333	71,799	104,733	0			63,041			
2002	1,973	785	14,644	9,188	4,821	194	71,580	100,426	0			48,448			
2003	1,976	821	10,432	6,703	5,009	53	67,353	89,550	0			49,909			
2004 2005	1,914 1,956	876 822	14,218 13,230	4,799 _ 1,752	5,720 5,375	14 11	68,158 68,905	92,910 _ 89,273	0			48,812 50,242			
2005	1,870	R 792	13,861	R 3,000	5,503	102	68,645	R 91,111	0			'			
2007	1,813	798	11,461	1,913	4,448	11	69,815	87,646	ő						
			-	<u> </u>	<u> </u>		Tri	illion Btu				<u> </u>			
1960	35.2	466.3	59.0	17.0	15.0	67.6	238.9	397.5	(s)	56.3	0.0	68.9	1,024.2	170.4	1,194.6
1965	63.2	567.4	75.7	19.4	11.8	74.5	261.9	443.3	(s)	74.8	0.0		1,247.3	235.5	1,482.8
1970	59.3	749.1	49.6	34.6	10.2	76.2	301.8	472.3	(s)	91.7	0.0		1,516.4	348.3	1.864.6
1975	56.4	703.6	61.3	58.3	7.0	52.2	333.7	512.5	0.0	99.3	0.0	157.1	1,529.0	377.9	1,906.9
1980	66.1	507.4	90.7	47.3	8.9	78.9	435.2	661.2	0.0	61.1	0.0		1,472.7	426.7	1,899.5
1985	44.0	449.5	103.6	46.8	16.1	117.8	433.5	717.6	0.0	71.6	0.0		1,463.5	416.3	1,879.8
1990	64.7	606.7	99.5	44.6	16.6	11.6	442.5	614.7	0.0		0.6		1,542.9	441.0	1,983.8
1995 1996	57.9 56.2	705.4 726.4	67.9 69.1	30.8 20.4	14.9 14.3	9.2 1.9	366.2 393.4	489.0 499.1	0.0	42.3 35.6	1.4		1,491.7 1.515.4	444.5 447.6	1,936.2 1,963.0
1996	62.2	807.3	81.8	15.1	14.3	0.6	378.9	499.1	0.0		1.4 1.6		1,616.3	447.6	2,095.7
1998	43.3	864.8	74.8	11.2	17.0	0.0	371.3	474.5	0.0	34.7	1.6	210.3	1,629.2	477.0	2,106.2
1999	46.8	803.6	86.0	18.3	10.0	3.6	408.2	526.1	0.0	37.6	1.2		1,631.1	493.4	2,124.4
2000	47.4	803.8	108.8	21.5	10.3	0.7	378.4	519.7	0.0	41.1	1.3		1,632.8	499.1	2,131.9
2001	46.7	730.3	126.4	23.0	23.6	2.1	437.8	612.9	0.0	50.9	1.4		1,657.2	479.3	2,136.6
2002	47.1	774.6	85.3	33.2	25.1	1.2	435.6	580.5	0.0	34.9	1.4		1,603.8	368.5	1,972.3
2003	47.7	838.7	60.8	24.3	26.1	0.3	407.5	519.0	0.0		1.0		1,610.5	375.8	1,986.3
2004	46.2	891.0	82.8	17.4	29.8	0.1	412.5	542.6	0.0	34.0	1.1	166.5	1,681.4	368.5	2,049.9
2005 2006	46.3 45.1	837.6 R 799.1	77.1 80.7	6.3 R 10.8	28.0 28.7	0.1 0.6	416.5 414.7	528.0 R 535.6	0.0	37.0 R 37.3	1.3 1.3		1,621.6 R 1,592.3	375.0 376.2	1,996.5 R 1,968.5
2007	43.0	807.9	66.8	6.9	23.2	0.6	423.4	520.3	0.0	38.6	1.4		1,583.7	370.2	1,955.7
	.0.0	007.0		0.5	20.2	J.1	120.4	020.0	0.0		1	1,2,4	1,000.7	0.2.0	1,000.7

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, California

ŀ						Pe	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	23	11	5,383	15,313	25,818	214	2,327	132,768	38,610	220,432	0	66			
1965	8	16	3,342	21,032	40,150	208	2,772	166,346	35,109	268,960	0	66			
1970	4	17	2,184	29,448	59,614	305	2,457	210,641	27,982	332,632	0	65			
1975 1980	(s) 0	20 15	1,640 285	30,528 41,801	62,509 62,224	390 522	2,386 2,804	238,548 250,100	20,056 66,673	356,057	0 0	265 203			
1985	0	14	1,354	49,892	67,028	1,225	2,552	262,544	43,340	424,409 427,934	421	266			
1990	0	20	1,106	55,598	94 907	923	2,871	300,893	54,206	510 503	1,114	315			
1995	Ŏ	20	807	57.940	94,907 R 95,304	564	2.739	310.379	44.043	510,503 R 511,776	2.499	423			
1996	0	19	769	58,960	102 772	481	2,658	315.285	38,983	520,908	2,499 2,108	429			
1997	0	24	836	62,659	R 103,188 R 105,482	349	2,808	319,727 326,430	21,272	520,908 R 510,840 R 515,744	2.113	478			
1998	0	10	574	62,554	R 105,482	670	2,940	326,430	17,094	K 515,744	1,593	521			
1999	0	11	825	64,787	98,673	384	2,971	335,633	23,223	526,496	1,386	540			
2000 2001	0	12 14	723 536	70,525 71,172	103,001 97,216	341 390	2,926 2,681	340,681 347,202	33,540 24,617	551,739 543,814	1,579 2,175	606 660			
2001	0	12	599	71,172	102,756	501	2,649	364,493	30,534	573,906	2,173	591			
2002	0	12	601	108,907	99,721	472	2,449	362,405	23,358	597,914	14 204	809			
2004	Ő	17	553	77,767	105.408	478	2.481	370,084	27,772	584,543	20.482	900			
2005	0	20	530	81,307	104,612	842	2,468	375,652	33 924	599.335	R 22,432	846			
2006	0	17	461	83,608	104,612 106,403	868	2,405	377,390	37,614	608,749	2,175 2,551 14,204 20,482 R 22,432 R 22,157	877			
2007	0	19	443	85,465	110,794	760	2,483	376,053	39,652	615,649	23,298	848			
								Trillion Btu							
1960	0.6	11.0	27.2	89.2	140.7	0.9	14.1	697.4	242.7	1,212.2	0.0	0.2	1,223.9	0.6	1,224.5
1965	0.2	16.8	16.9	122.5	222.2	0.8	16.8	873.8	220.7	1,473.8	0.0	0.2	1,491.0	0.5	1,491.5
1970 1975	0.1	17.9	11.0	171.5	332.9	1.2	14.9	1,106.5	175.9	1,814.0 1,931.4	0.0	0.2	1,832.2 1,953.7	0.5	1,832.7 1,955.9
1975	(s) 0.0	21.4 15.9	8.3 1.4	177.8	350.2 348.7	1.5 1.9	14.5 17.0	1,253.1 1,313.8	126.1 419.2	1,931.4 2,345.5	0.0 0.0	0.9 0.7	2,362.1	2.2 1.7	2,363.8
1985	0.0	15.9	6.8	243.5 290.6	375.8	4.4	15.5	1,379.1	272.5	2,344.8	1.5	0.7	2,362.1	2.1	2,364.2
1990	0.0	20.8	5.6	323.9	534.7	3.3	17.4	1,580.6	340.8	2.806.2	3.9	1.1	2,832.0	2.5	2,834.5
1995	0.0	20.0	4.1	323.9 337.5	540.4	2.0	16.6	1,618.6	276.9	2.796.1	8.8	1.4	2,832.0 2,817.6	3.3	2,834.5 2,820.8
1996	0.0	20.1	3.9	343.4 365.0	588.4	1.7	16.1	1,644.5	245.1	2,843.2 R 2,773.1	7.5 7.5	1.5	2,864.7	3.3	2,868.0 R 2,802.8
1997	0.0	24.4	3.9 4.2	365.0	R 585.1	1.3	17.0	1,666.7	133.7	R 2,773.1	7.5	1.6	R 2,799.1	3.7	R 2,802.8
1998	0.0	10.9	2.9 4.2	364.4	R 598.1 559.5	2.4	17.8	1,701.4	107.5	R 2,794.4 2,855.4	5.6	1.8	2,864.7 R 2,799.1 R 2,807.1 2,868.9	4.0	K 2.811.1
1999	0.0	11.6	4.2	377.4	559.5	1.4	18.0	1,749.0	146.0	2,855.4	4.9	1.8	2,868.9	4.2	2,873.1
2000	0.0	11.5	3.7	410.8	584.0	1.2	17.7	1,774.9	210.9	3,003.3	5.6	2.1	3.016.9	4.7	3,021.6
2001	0.0	13.8	2.7	414.6	551.2	1.4	16.3	1,808.9	154.8	2,949.9	7.7	2.3	2,965.9	5.0	2,971.0
2002 2003	0.0 0.0	12.2 12.3	3.0 3.0	421.6 634.4	582.6 565.4	1.8 1.7	16.1 14.9	1,898.3 1,887.0	192.0 146.9	3,115.4 3,253.3	9.0 50.3	2.0 2.8	3,129.6 3,268.4	4.5 6.1	3,134.1 3,274.5
2003	0.0	12.3 17.1	2.8	453.0	597.7	1.7	15.0	1,887.0	174.6	3,253.3 3,174.8	72.5	3.1	3,268.4 3,195.0	6.8	3,274.5 3,201.8
2005	0.0	20.6	2.7	473.6	593.1	3.0	15.0	1,960.2	213.3	3,260.9	R 79 4	2.9	3.284.3	6.3	3,290.7
2006	0.0	R 17.1	2.3	487.0	603.3	3.1	14.6	1,969.2	236.5	3,316.1	R 79.4 R 78.4	3.0	3,284.3 R 3,336.1	6.5	3,290.7 R 3,342.6
2007	0.0	19.7	2.2	497.8	628.2	2.7	15.1	1,962.6	249.3	3,358.0	82.5	2.9	3,380.5	6.2	3,386.8

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, California

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	18/aad	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	0	323	23 931	120	0	24 051	(e)	17,445		33	0	0	-400	
1965	Ő	323 493	23,931 16,590	120 83	ő	24,051 16,673	(s) 270	30,523		189	Ő	0 0	-3	
1970	0	636	21.589	107	0	21 696	3,132	38 082		525	0	0	-11	
1975	0	275	78,345	247	0	78,592	6,071	40,103		3,246	0	0	0	
1980	0	519	62,663	2,559	0	65,222	4,920	40,780		5,073	0	0	89	
1985	0	666	4,617	308	0	4,925	19,729	31,717		9,197	11	3	4,055	
1990 1995	910	629 603	7,169	264 107	819 2,612	8,252	32,693 30,246	23,785 48,029		14,521	367 497	2,759 3,087	4,618 1,739	
1996	1,057 853	525	734 983	145	2,898	3,454 4,027	34,097	44,740		11,450 12,340	521	3,079	1,739	
1997	822	596	44	283	2,736	3,063	30,512	41,049		12,716	511	3,137	1,320	
1998	903	649	10	297	3,411	3,717	34,594	49,537		12,840	502	2,758	-617	
1999	943	723	2	279	3,034	3,314	33,372	40,726		13,046	495	3,230	188	
2000	939	893	86	899	3,319	4,304	35,176	38,326		12,308	493	3.518	3,381	
2001 2002	897	973 727	492	1,372 224	3,199	5,063	33,220	25,542		12,181	542	3,500 3,803	3,055	
2002	970	727	40	224	3,352	3,616	34,352	31,141		13,074	554	3,803	1,870	
2003 2004	890	705	11	255	3,631	3,896	35,594	36,370		12,982	534	3,895	R 4,126	
2004	924	771	0	233	3,474	3,707	30,268	34,141 39,626		13,105	571 537	4,306 4,262	1,243 R 5,527	
2005 2006	873 899	689 771	4 15	241 201	3,863 3,558	4,108	36,155 31,959	39,626		13,023 12,821	495	4,262	2,372	
2007	961	834	17	169	3,557	3,775 3,742	35,792	48,040 27,314		12,991	557	5,585	5,505	
					-,,,,,		Trillion E			,		-,,,,,		
1960	0.0	334.3	150.5	0.7	0.0	151.2	(0)	187.7	(a)	0.8	0.0	0.0	-1.4	672.6
1965	0.0	528.7	104.3	0.7	0.0	104.8	(s) 3.2	319.1	(s) 0.7	4.2	0.0	0.0	-1.4 (s)	960.6
1970	0.0	670.6	135.7	0.6	0.0	136.4	34.4	399.6	0.7	11.3	0.0	0.0	(s)	1,252.8
1975	0.0	291.9	492.6	1.4	0.0	494.0	66.9	417.3	0.2	70.2	0.0	0.0	0.0	1,202.0
1980	0.0	545.8	394.0	14.8	0.0	408.7	53.7	423.6	0.2	109.8	0.0	0.0	0.3	1,340.4 1,542.1
1985	0.0	700.3	29.0	1.8	0.0	30.8	209.6	331.3	(s) 71.5	195.6	0.1	(s) 28.7	13.8	1,481.6
1990	18.8	648.9	45.1	1.5	4.9	51.5	346.0	247.4	71.5	306.3	3.8	28.7	15.8	1,738.8
1995	23.3	620.0	4.6	0.6	15.7	21.0	317.8	495.3 462.6	62.6	239.5	5.1	31.8	5.9 4.2	1,822.3
1996	20.0	538.6	6.2	0.8	17.5	24.5	358.1	462.6	62.0	258.6	5.4	31.8	4.2	1,765.9
1997	18.0	607.9	0.3	1.7	16.5	18.4	320.2	419.2	61.7	266.5	5.2	32.0	4.5	1,753.7
1998 1999	20.1 22.1	664.0 739.2	0.1	1.7 1.6	20.5 18.3	22.3 19.9	362.9 348.7	505.1 416.5	64.3 69.6	269.9 274.2	5.1 5.1	28.1 33.0	-2.1 0.6	1,939.8 1,929.0
2000	22.1	911.2	(s) 0.5	5.2	20.0	25.8	346. <i>1</i> 366.8	391.0	69.4	274.2 258.7	5.0	35.0	11.5	2,097.5
2000	21.1	999.5	3.1	8.0	19.3	30.4	347.1	263.9	60.7	256.0	5.6	36.2	10.4	2,030.9
2002	22.9	742.3	0.2	1.3	20.2	21.7	358.6	316.8	81.2	274.8	5.6	38.7	6.4	1 869 0
2003	21.7	721.8	0.1	1.5	21.9	23.4	370.9	372.5	72.6	272.8	5.5	39.9	R 14.1	R 1.915.3
2004	22.5	792.9	0.0	1.4	20.9	22.3	315.6	342.2	71.9	275.4	5.7	43.2	4.2	1,895.9
2005	20.7	709.3	(s) 0.1	1.4	23.3	24.7	377.3	396.2	73.1	273.7	5.4	42.6	R 18.9	R 1,941.8
2006	21.9	795.8	0.1	1.2	21.4	22.7	333.5	476.5	74.9	269.5	4.9	48.4	8.1	2,056.2
2007	23.4	860.4	0.1	1.0	21.4	22.5	375.4	270.0	71.5	273.0	5.5	55.2	18.8	1,975.6

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Colorado

						Petroleum				Musless	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	2,940	188	4,194	480	3,153	16,461	1,883	4,072	30,242	0	970					
1965 1970	4,204 5,101	224 282	3,925 5,212	3,426 7,476	3,339 4,710	19,321 26,103	2,056 1,507	4,994 5,984	37,061 50,991	0	938 1,236					
1975	7,603	308	8,846	7,470	5,053	31,916	3,388	4,354	60,709	0	1,507					
1980	11,981	256	11,228	4,725	3,870	34,282	1,814	5,429	61,348	667	1,717					
1985 1990	15,241 17,102	219 247	9,149 10,116	7,861 6.109	2,324 3,045	35,742 35,562	194 13	5,135 5,481	60,404 60,326	-32 0	2,357 1,420					
1995	17,102	290	12,183	7,428	3,936	41,357	8	5,981	70,893	0	2,131					
1996	17,586	315	12,483	7,765	3,897	43,028	20	6,626	73 818	0	1,820					
1997 1998	18,297 18,429	315 330	11,863 14,517	R 7,177 R 6,798	1,954 1,413	43,744 44,841	3	5,342 7,408	R 70,083 R 74,981	0	2,032 1,462					
1990	18,573	333	15,025	7,800	2,973	47,069	3	4,907	77,778	0	1,462					
2000	19,652	368	15,566	7,582	6,484	47,424	7	6,413	83,476	ő	1,454					
2001	20,367	464	17,436	7,718	6,509	49,636	5	5,581	86,885	0	1,495					
2002 2003	19,877 20,153	459 436	17,412 17,664	7,131 5,652	5,597 6,965	49,151 48,708	0	3,997 7,752	83,287 86,741	0	1,209 1,262					
2003	19,766	440	16,614	12,354	7,169	50,824	1	6,737	93,698	0	1,195					
2005	19,445	470	17,562	12,320	5,707	51,312	0	5,684	92,584	0	1,415					
2006 2007	20,059 19,777	R 451 505	18,962 19,736	12,987 13,530	R 6,751 5,996	51,702 52,238	29 0	5,701 6,283	R 96,132 97.783	0	1,791 1,730					
	15,777		10,700	10,000	0,000	32,200			31,100		1,700					
								Trillion Btu								
1960 1965	68.2 98.1	195.0 204.5	24.4 22.9	2.6 19.3	12.6 13.4	86.5 101.5	11.8 12.9	24.3 29.4	162.3 199.3	0.0 0.0	10.4 9.8	6.5 6.6	0.0 0.0	-17.2 -8.8	0.0 0.0	425.1 509.5
1970	115.7	275.0	30.4	42.3	17.8	137.1	9.5	37.2	274.2	0.0	13.0	8.4	0.0	-7.7	0.0	678.5
1975 1980	159.3 247.6	281.0 R 254.6	51.5 65.4	40.4 26.7	18.8 14.2	167.7 180.1	21.3 11.4	27.1 33.2	326.8 331.0	0.0 7.3	15.7 17.8	9.0 10.7	0.0 0.0	-6.8 -17.4	0.0 -9.8	785.0 841.9
1985	299.1	R 218.7	53.3	44.5	8.4	187.8	1.2	32.6	327.7	-0.3	24.6	16.9	0.0	-7.8	-7.3	871.6
1990	337.4	R 247 8	58.9	34.6	11.0	186.8	0.1	34.8	326.2	0.0	14.8	10.9	0.6	-0.4	-14.6	922.5
1995 1996	344.2 350.7	R 295.7 R 322.8	71.0 72.7	42.0 44.0	14.3 14.1	215.7 224.4	0.1	38.2 41.9	381.1 397.3	0.0 0.0	22.0 18.8	10.7 10.9	0.6	20.5 24.1	-7.3 -7.0	1,067.6
1996	350.7 362.4	R 318.3	69.1	44.0 40.7	7.1	224.4	0.1 (s)	33.4	397.3 378.3	0.0	20.8	11.8	0.6 0.6	30.2	-7.0 -6.2	1,118.4 R 1,116.2
1998	364.9	R 334.3	84.6	38.5	5.1	233.7	(s)	47.2	409.1	0.0	14.9	10.6	0.6	35.6	-5.4	1,164.6
1999	364.2	R 335.5	87.5	44.2	10.8	245.3	(s)	30.4	418.2	0.0	16.0	11.3	0.8	43.4	-4.6	1,184.9
2000 2001	387.9 400.0	R 370.9 R 469.8	90.7 101.6	43.0 43.8	23.4 23.5	247.1 258.6	(s) (s)	40.6 34.7	444.8 462.2	0.0 0.0	14.8 15.4	11.5 6.8	0.8 1.3	21.7 -6.7	-4.8 -5.6	1,247.7 1,343.3
2001	390.5	R 461 7	101.4	40.4	20.2	256.0	0.0	24.4	442.5	0.0	12.3	6.4	2.2	32.6	-5.8	1,342.4
2003	394.2	K 438 4	102.9	32.0	25.3	253.6	0.0	49.3	463.1	0.0	12.9	6.6	2.3	32.6	-5.4	1,344.8
2004 2005	390.2 386.7	R 437.7 R 483.5	96.8 102.3	70.0 69.9	25.9 20.7	265.0 267.7	(s) 0.0	42.5 35.4	500.3 496.0	0.0	12.0 14.2	7.3 R 13.1	3.0 8.6	32.6 R 31.8	-5.2 -5.4	1,378.0 R 1,428.3
2005	394.3	R 466.2	102.3	73.6	R 24.3	267.7 269.8	0.0	35.4 35.5	R 513.9	0.0	17.8	R 12.0	9.5	28.0	-5.4 -6.4	R 1,428.3
2007	388.5	515.9	115.0	76.7	21.5	272.6	0.0	39.5	525.4	0.0	17.1	13.2	13.7	12.5	-7.0	1,479.3

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Colorado

				Petro	leum		Biomass			D-(-il			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	152	52	148	50	2,097	2,294	212			1,776			
1965	152 182	52 65	90	285	2,224	2,294 2,599	179			2.521			
1970	129	83	168	112	3,080	3,361	195			3,859			
1975	6	100	283	36 23	2,862	3,181	233			5,142			
1980	21	90	78	23	1,670	1,772	462			6,693			
1985	34	90	95 27	49	1,390	1,534	753			8,861			
1990 1995	12 3	92 104	21	22 20	1,697 2,188	1,747 2,243	366 360			9,787 11,307			
1995	2	111	35 45 52	20	2,100	2,243	373			11,871			
1997	7	116	52	19	330	400	418			12,261			
1998	2	111	19	24	171	214	372			12,652			
1999	12	112	19 10	16	2.011	2.037	391			13,131			
2000	9	116	62 56 25	29	2,821	2,912	421 236			14,029			
2001	32	124	56	18	2,639	2.713	236			14,470			
2002	27	129	25	9	2,683	2,716	239			15,425			
2003	36	124	11	35	3,875	3,921	252			15,725			
2004	22	121	16	45	3,380	3,441	258 R 500			15,532			
2005 2006	11 R 6	124 119	9	36 16	3,424 R 2,590	3,469 R 2,615	R 529 R 482			16,436 16,952			
2007	1	131	8	6	2,963	2,977	531			17,634			
						T	rillion Btu						
1960	3.5	54.1	0.9	0.3	8.4	9.6	4.2	0.0	0.0	6.1	77.4	15.0	92.4
1965 1970	4.2 2.8	59.6	0.5	1.6	8.9	11.1	3.6	0.0	0.0	8.6	87.0	20.5	107.6
1970	2.8	80.4	1.0	0.6	11.6	13.3	3.9	0.0	0.0	13.2	113.6	31.9	145.5
1975	0.1	89.5	1.6	0.2	10.6	12.5	4.7	0.0	0.0	17.5	124.3	42.2	166.5
1980 1985	0.5 0.7	R 89.2 R 90.1	0.5 0.6	0.1 0.3	6.1 5.0	6.7 5.8	9.2 15.1	0.0 0.0	0.0 0.0	22.8 30.2	124.8 138.0	55.0 69.6	179.9 207.6
1900	0.7	R 02 2	0.6	0.3	6.2	6.4	7.3	0.0	0.0	33.4	133.4	77.2	210.6
1995	0.2	R 92.2 R 105.8	0.2	0.1	7.9	8.2	7.2	0.1	0.2	38.6	157.1	87.6	244.8
1996	(s)	K 112 6	0.3	0.1	7.6	8.0	7.5	0.1	0.2	40.5	166.1	92.1	258.2
1997	(s) 0.1	^R 116.6	0.3	0.1	1.2	1.6	8.4	0.1	0.2	41.8	166.2	94.8	261.0
1998	(s)	K 111 5	0.1	0.1	0.6	0.9	7.4	0.1	0.2	43.2	161.3	97.9	259.2
1999	(s) 0.3	R 111 8	0.1	0.1	7.3	7.4	7.8	0.1	0.2	44.8	170.7	102.5	259.2 273.2
2000	0.2	R 116 1	0.4	0.2	10.2	10.7	8.4	0.1	0.2	47.9	181.9	108.9	290.8
2001	0.7	K 124.2	0.3	0.1	9.5	10.0	4.7	0.1	0.2	49.4	187.6	110.0	297.6
2002	0.6	R 129.2	0.1	0.1	9.7	9.9	4.8	0.1	0.2	52.6	195.6	117.3	312.9
2003	0.8	R 124.1	0.1	0.2	14.1	14.3	5.0	0.1	0.2	53.7	196.4	118.4	314.8
2004 2005	0.5 0.2	R 118.5 R 127.5	0.1 0.1	0.3 0.2	12.2	12.6 12.6	5.2 R_10.6	0.1 0.1	0.2 0.2	53.0	R 188.4 R 205.8	117.3 122.7	305.7 R 328.4
2005	0.2	R 123.2	0.1	0.2	12.4 R 9.3	R 9.5	R 9.6	0.1	0.2	56.1 57.8	R 198.7	122.7	R 323 8
2007	(s)	133.2	(s)	(s)	10.6	10.7	10.6	0.1	0.3	60.2	213.1	129.8	R 323.8 342.9
2001	(3)	100.2	(3)	(3)	10.0	10.7	10.0	0.2	0.0	00.2	210.1	120.0	072.0

^a Includes supplemental gaseous fuels.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

net energy and total.

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Colorado

Coal Year Thousand Short Tons 1960 105 1965 137 1970 101 1975 15 1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1985 2.6 1990 1.0 1995 0.4 1996 0.3	Natural Gas a Billion Cubic Fee 28 39 59 76 67 69 69 63 59 61 65 67 63 62 62	Fuel Oil 3	66 376 148 48 6 15 10 5 6 9 9 8 10 10 10 10 12 31	Thousal 370 393 544 505 295 245 299 386 371 58 30 355 498 466 473 684 596 604	Motor Gasoline c nd Barrels 135 186 124 109 312 176 265 58 265 37 38 166 128 40 41 41 41	56 49 38 75 3 1 0 0 0 0 0 0 0 0	750 1,078 993 972 955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021 1,039 972	Hydro- electric Power e.f Million Kilowatthours	Wood and Waste f.g	Geothermal f	Retail Electricity Sales Million Kilowatthours 1,772 2,842 4,594 6,276 7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	Net Energy f,h	Electrical System Energy Losses	Total f,h
Year Short Tons 1960 105 1965 137 1970 101 1975 15 1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	28 39 59 76 67 63 65 67 63 62 62	3 123 3 75 3 140 5 235 7 339 6 610 6 442 7 703 7 32 8 867 8 12 6 65 6 632 7 497 8 303 2 323 2 625	376 148 48 6 15 10 5 6 5 9 9 8 10 10 10 12 31	370 393 544 505 295 245 299 386 371 58 30 355 498 496 473 684 596	135 186 124 109 312 176 265 58 265 37 38 166 128 40 41 41	49 38 75 3 1 0 0 0 0 3 1 0 0	1,078 993 972 955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021	Kilowatthours	and Waste f.g		1,772 2,842 4,594 6,276 7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	Energy f,h	Energy Losses	
1965 137 1970 101 1975 15 1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	59 76 67 69 66 67 69 63 59 61 65 67 63	140 235 339 6 610 6 442 703 732 8 892 8 867 8 812 6 632 7 497 8 303 2 323 2 323	376 148 48 6 15 10 5 6 5 9 9 8 10 10 10 12 31	393 544 505 295 245 299 386 371 58 30 355 498 466 473 684 596	186 124 109 312 176 265 58 265 37 38 166 128 40 41 41	49 38 75 3 1 0 0 0 0 3 1 0 0	1,078 993 972 955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021	0 0 0 0 0 0 0 0 0 0			2,842 4,594 6,276 7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836			
1965 137 1970 101 1975 15 1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	59 76 67 69 66 67 69 63 59 61 65 67 63	140 235 339 6 610 6 442 703 732 8 892 8 867 8 812 6 632 7 497 8 303 2 323 2 323	376 148 48 6 15 10 5 6 5 9 9 8 10 10 10 12 31	393 544 505 295 245 299 386 371 58 30 355 498 466 473 684 596	186 124 109 312 176 265 58 265 37 38 166 128 40 41 41	49 38 75 3 1 0 0 0 0 3 1 0 0	1,078 993 972 955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021	0 0 0 0 0 0 0 0 0		 	2,842 4,594 6,276 7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	 		
1975 15 1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	76 67 69 66 67 69 63 59 61 65 67 63	235 339 61 6442 7 703 732 8 892 8 867 8 12 6 632 7 497 8 303 2 323 2 625	48 6 15 10 5 6 5 9 9 8 10 10 10 12 31	505 295 245 299 386 371 58 30 355 498 466 473 684 596	109 312 176 265 58 265 37 38 166 128 40 41	75 3 1 0 0 0 0 3 1 1 0 0	972 955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021 1,039	0 0 0 0 0 0 0 0	== == == == == == ==	 	6,276 7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1980 79 1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	67 69 66 67 69 63 59 61 65 67 63 62	339 610 6 442 7 703 7 32 9 892 8 867 8 812 6 605 6 632 7 497 8 303 2 323 2 625	6 15 10 5 6 5 9 9 8 10 10 10 10 12 31	295 245 299 386 371 58 30 355 498 466 473 684 596	312 176 265 58 265 37 38 166 128 40 41 41	3 1 0 0 0 0 0 3 1 0 0	955 1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021 1,039	0 0 0 0 0 0 0 0	 		7,277 12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1985 122 1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	69 66 67 69 69 63 59 61 65 67 63	610 6442 703 67732 892 882 8867 812 605 632 7497 833 833 823 825	15 10 5 6 5 9 9 8 10 10 10 12 31	245 299 386 371 58 30 355 498 466 473 684 596	176 265 58 265 37 38 166 128 40 41 41	1 0 0 0 0 3 1 0 0 0	1,047 1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021 1,039	0 0 0 0 0 0 0	 	 	12,344 14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1990 46 1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	66 67 69 69 63 59 61 65 67 63 62	442 703 732 892 8 867 8 812 6 605 6 632 7 497 8 303 2 323 2 625	10 5 6 5 9 9 8 10 10 10 12 31	299 386 371 58 30 355 498 466 473 684 596	265 58 265 37 38 166 128 40 41 41	0 0 0 0 3 1 0 0	1,016 1,152 1,374 992 948 1,344 1,239 1,149 1,021	0 0 0 0 0 0 0	 	== == == ==	14,420 14,300 15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1995 17 1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 860 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	67 69 69 63 59 61 65 67 63 62	703 732 892 8867 812 605 66632 7497 83303 223323 22655	5 6 5 9 9 8 10 10 10 12 31	386 371 58 30 355 498 466 473 684 596	58 265 37 38 166 128 40 41 41	0 0 0 0 3 1 0 0	1,152 1,374 992 948 1,344 1,239 1,149 1,021 1,039	0 0 0 0 0 0	 	 	14,300 15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1996 12 1997 57 1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	69 69 63 59 61 65 67 63 62	732 892 8 867 8 812 6 635 6 632 7 497 8 303 22 323 22 625	6 5 9 9 8 10 10 10 12 31	371 58 30 355 498 466 473 684 596	265 37 38 166 128 40 41 41	0 0 3 1 0 0	1,374 992 948 1,344 1,239 1,149 1,021 1,039	0 0 0 0	 	 	15,251 15,506 16,920 17,915 19,028 18,836	 	 	
1998 16 1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	63 59 61 65 67 63 62	8 867 812 605 6 632 7 497 8 303 2 323 2 625	9 9 8 10 10 10 12 31	30 355 498 466 473 684 596	38 166 128 40 41 41 41	3 1 0 0 0	948 1,344 1,239 1,149 1,021 1,039	0 0 0 0	 	 	16,920 17,915 19,028 18,836	 		
1999 90 2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	59 61 65 67 63 62	812 605 632 7 497 8 303 2 323 2 625	9 8 10 10 10 12 31	355 498 466 473 684 596	166 128 40 41 41 41	1 0 0 0	1,344 1,239 1,149 1,021 1,039	0 0 0 0	 	 	17,915 19,028 18,836			
2000 71 2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	61 65 67 63 62	605 632 7 497 8 303 2 323 2 625	8 10 10 10 12 31	498 466 473 684 596	128 40 41 41 41	0 0 0	1,239 1,149 1,021 1,039	0 0 0			19,028 18,836			
2001 259 2002 201 2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	65 67 63 62	632 7 497 8 303 2 323 2 625	10 10 10 12 31	466 473 684 596	40 41 41 41	0 0 0	1,149 1,021 1,039	0			18,836			
2002 201 2003 240 2004 200 2005 122 2006 860 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	67 63 62	7 497 3 303 2 323 2 625	10 10 12 31	473 684 596	41 41 41	0	1,021 1,039	0			10,030			
2003 240 2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4	63 62	303 2 323 2 625	10 12 31	684 596	41 41	Ö	1,039	0			19,802			
2004 200 2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	62	2 323 2 625	12 31	596	41	-					19,657			
2005 122 2006 R 60 2007 11 1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	60	625	31	604			9/2	Ŏ			19,498			
1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3		0.50			41	Ō	1.301	Ō			19,846			
1960 2.4 1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	60		16	R 457	42	0	R 1,174	0			20,153			
1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	63	3 447	5	523	43	0	1,018	0			20,508			
1965 3.1 1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3							Trillion Btu							
1970 2.2 1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	29.5		0.4	1.5	0.7	0.4	3.6	0.0	0.1	0.0	6.0	41.7	15.0	56.6
1975 0.3 1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	35.8	0.4	2.1	1.6	1.0	0.3	5.4	0.0	0.1	0.0	9.7	54.1	23.2	77.3
1980 1.7 1985 2.6 1990 1.0 1995 0.4 1996 0.3	57.5		0.8	2.1	0.7	0.2	4.6	0.0	0.1	0.0	15.7	80.1	37.9	118.1
1985 2.6 1990 1.0 1995 0.4 1996 0.3	68.3 R 66.6	3 1.4 5 2.0	0.3	1.9	0.6	0.5	4.6 4.7	0.0	0.1	0.0 0.0	21.4	94.7 95.4	51.5	146.2 155.2
1990 1.0 1995 0.4 1996 0.3	Rego	3.6	(s) 0.1	1.1 0.9	1.6 0.9	(s) (s)	5.5	0.0 0.0	0.2 0.4	0.0	24.8 42.1	116.4	59.8 97.0	213.4
1995 0.4 1996 0.3	R 66.5	5 2.6	0.1	1.1	1.4	0.0	5.1	0.0	1.1	0.0	49.2	118.4	113.8	232.2
1996 0.3	K 67 6	3 41	(s)	1.4	0.3	0.0	5.8	0.0	1.4	0.2	48.8	122.2	110.8	233.0
	R 70.0) 4.3	(s)	1.3	1.4	0.0	7.0	0.0	1.4	0.2	52.0	129.2	118.3	247.5
1997 1.1	R 69.7	7 5.2	(s)	0.2	0.2	0.0	5.6	0.0	1.7	0.2	52.9	129.6	119.9	249.4
1998 0.4	R 63.5	5.1	(s)	0.1	0.2	(s) (s)	5.4	0.0	1.6	0.2	57.7	127.6	130.9	258.5
1999 2.0	R 59.4	4.7	0.1	1.3	0.9	(s)	6.9	0.0	1.9	0.2	61.1	130.6	139.8	270.5
2000 1.5 2001 5.8	R 60.8 R 65.4	3.5 3.7	(s)	1.8	0.7 0.2	0.0	6.0 5.6	0.0	1.5	0.2 0.2	64.9 64.3	134.1	147.7 143.2	281.8 284.9
2001 5.8 2002 4.5	., 00.4	2.0	0.1 0.1	1.7 1.7	0.2	0.0 0.0	0.0	0.0 0.0	1.3 0.8	0.2	64.3 67.6	141.7 144.2	150.6	294.8
2002 4.5	R 67 1	18	0.1	2.5	0.2	0.0	4.9 4.5	0.0	0.8	0.2	67.1	139.8	148.0	287.8
2004 4.5	R 67.1 R 62.5	19	0.1	2.2	0.2	0.0	4.3	0.0	0.9	0.2	66.5	136.5	147.2	283.7
2005 2.7	R 67.1 R 62.5 R 60.9	3.6	0.2	22	0.2	0.0	6.2	0.0	0.9 R 1.7	0.2	67.7	141.5	148.1	283.7 R 289.6
2006 R 1.3	R 67.1 R 62.5 R 60.9 R 63.7	0.0	0.1	R 1.6	0.2	0.0	5.8	0.0	R 1.6	0.2 0.2	68.8	138.5	148.7	R 287.2 291.1
2007 0.2	R 67.1 R 62.5	3.8	(s)	1.9	0.2	0.0	4.7	0.0	1.7	0.2	70.0	140.1	151.0	291.1

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Colorado

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	1,438	69	1,768	593	1,303	1,583	2,551	7,798	1			1,289			
1965 1970	1,698 1,657	82 88	1,994 2,228	641 953	1,039 1,036	1,254 1,128	2,937 5,100	7,865 10,444	1			1,576 2,334			
1970	1,871	73	3,419	1,498	860	2,327	3,701	11,805	1			4,407			
1980	1,757	60	3,983	1,860	695	1,640	4,732	12,910	1			6,900			
1985	791	48	2,054	621	580	40	4 562	7,857	1			5,468			
1990	729	66	2,712	975	408	13	4,870	8,978	Ó			6,587			
1995	729	85	2,749	1,294	541	(s) 4	5,440	10,023	0			9,706			
1996	367	98	3,058	1,357	631		6,094	11,144	0			9,947			
1997	728	90	3,059	1,536	681	3	4,773	10,051	0			10,297			
1998	392	114	3,366	1,186	625	(s)	6,810	11,987	0			9,998			
1999 2000	429 427	112 118	3,186 3,274	538 3,108	564 546	0	4,260 5,800	8,549 12,728	0			9,521 9,955			
2001	311	178	3,370	3,345	1,171	4	4,898	12,728	0			10,918			
2002	202	174	3,333	2,389	1,229	Ó	3,439	10,390	ő			10,672			
2003	281	161	2,982	2,355	1,268	0	7,217	13.822	Ō			11,076			
2004	293	163	3,270	3,116	1,401	0	6,203	13,990	0			11,675			
2005	300	178	3,658	1,602	1,378	0	5,135	11,773	0			12,052			
2006	286	R 166	4,270	R 3,624	1,441	1	5,172	R 14,508	0			12,605			
2007	233	173	4,829	2,463	810	0	5,814	13,917	0			13,113			
							Tri	Ilion Btu							
1960	36.6	71.8	10.3	2.4	6.8	10.0	16.3	45.8	(s)	2.2	0.0		160.7	10.9	171.6
1965	44.2	74.9	11.6	2.6		7.9	18.3	45.8	(s)	2.9	0.0		173.2	12.8	186.1
1970 1975	41.4 45.8	85.3 65.6	13.0 19.9	3.6 5.6	5.4 4.5	7.1 14.6	32.3 23.4	61.4 68.1	(s) (s)	4.4 4.3	0.0 0.0	8.0 15.0	200.5 198.8	19.3 36.2	219.8 235.0
1975	43.1	R 59.9	23.2	6.8			29.3	73.3	(s)	1.3	0.0	23.5	198.9	56.7	255.0 255.7
1985	17.1	R 47 7	12.0	2.2	3.0	0.2	29.3	46.8	(s)	1.5	0.0	18.7	130.1	43.0	173.1
1990	15.4	R 66 5	15.8	3.5	2.1	0.1	31.3	52.8	0.0		0.2	22.5	156.3	52.0	208.2
1995	15.8	R 86 6	16.0	4.7	2.8	(s)	35.0	58.5	0.0	2.1	0.2	33.1	194.6	75.2	269.8
1996	7.9	Raga	17.8	4.9	3.3		38.9	64.9	0.0		0.2		207.0	77.2	284.2
1997	15.7	R 91.2	17.8	5.6	3.5	(s)	30.1	57.0	0.0		0.2	35.1	199.4	79.6	279.0
1998	8.3	R 114.8	19.6	4.3	3.3	(s)	43.7	70.8	0.0	1.6	0.2	34.1	228.3	77.4	305.7
1999 2000	9.1 9.3	R 112.3 R 117.4	18.6 19.1	1.9 11.2	2.9 2.8	(s) 0.0	26.7 37.1	50.1 70.2	0.0 0.0		0.2 0.3	32.5 34.0	204.7 231.3	74.3 77.3	279.0 308.5
2000	9.3 6.8	R 117.4 R 179.4	19.1 19.6	11.2 12.1	6.1	0.0 (s)	37.1	70.2 68.7	0.0		0.3	34.0	231.3	77.3 83.0	308.5 373.9
2001	4.7	K 174 4	19.4	8.6	6.4	0.0	21.2	55.7	0.0		0.3	36.4	269.8	81.2	351.0
2002	6.5	R 161.0	17.4	8.5	6.6	0.0	46.2	78.7	0.0		0.3	37.8	282.9	83.4	366.2
2004	6.7	R 160.7	19.0	11.3	7.3		39.4	77.1	0.0	0.3	0.2		283.2	88.1	371.4
2005	6.9	R 182.5	21.3	5.9	7.2	0.0	32.3	66.6	0.0	0.3	0.2	41.1	296.0	89.9	385.9
2006	6.5	R 171.1	24.9	R 13.1	7.5	(s)	32.5	R 78.0	0.0		0.2		R 297.3	93.0	R 390.3
2007	5.3	175.7	28.1	8.8	4.2	Ô.Ó	36.8	78.0	0.0	0.3	0.2	44.7	302.5	96.5	399.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Colorado

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	25	1	1,125	2,146	480	93	280	15,023	137	19,284	0	0			
1965	6	2	1,111 337	1,763	3,426	81	286	18,097	713	25,476	0	0			
1970 1975	(s)	2 5	337 267	2,655 4,290	7,476 7,151	133 188	286 302	24,943 30,948	99 104	35,929 43,250	0	0			
1980	(3)	8	265	6,554	4,725	45	402	33,275	0	45,267	0	0			
1985	0	7	142	6,277	7,861	68	366	34,986	146	49,845	437	0			
1990	0	9	167	6,884	6,109	75	412	34,889	0	48,535	225	0			
1995	0	11	124	8,669	7,428	69	393	40,757	0	57,440	884	4			
1996 1997	0	11 13	124 143	8,613 7,822	7,765 R 7,177	70 31	382 403	42,132 43,026	(s) 0	59,085 R 58,602	1,515 1,496	4			
1998	0	10	143	10,179	R 6,798	25	422	44,178	0	R 61,747	1,490	5			
1999	Ő	9	195	10,947	7,800	70	426	46,339	Ő	65,776	1,482 1,256	5			
2000	0	10	156	11,435	7,582	56	420	46,750	0	66,400	1,422 1,921	9			
2001	0	11	270	13,040	7,718	59	385	48,425	0	69,897	1,921	11			
2002	0	12	158	13,506	7,131	52	380	47,881	0	69,108	1,706	37			
2003 2004	0 0	10 11	138 121	14,297 12,974	5,652 12,354	51 77	352 356	47,399 49,382	0	67,889 75,264	1,976 _ 1,889	37 19			
2004	0	13	128	13,226	12,334	77	354	49,893	0	75,204	R 1,066	19			
2006	ő	13	151	13,981	12,987	80	345	50,219	ő	77,763	Ř 953	25			
2007	0	14	101	14,388	13,530	47	356	51,385	0	79,808	1,644	44			
								Trillion Btu							
1960	0.6	1.3	5.7	12.5	2.6	0.4	1.7	78.9	0.9	102.6	0.0	0.0	104.5	0.0	104.5
1965 1970	0.1	1.7 1.8	5.6 1.7	10.3	19.3 42.3	0.3 0.5	1.7 1.7	95.1	4.5 0.6	136.8	0.0	0.0	138.6 195.2	0.0	138.6
1970	0.1	4.8	1.7	15.5 25.0	42.3 40.4	0.5	1.7	131.0 162.6	0.6	193.3 232.5	0.0 0.0	0.0 0.0	237.3	0.0 0.0	195.2 237.3
1980	(s) 0.0	7.5	1.3	38.2	26.7	0.7	2.4	174.8	0.0	243.6	0.0	0.0	251.1	0.0	251.1
1985	0.0	7.1	0.7	36.6	44.5	0.2	2.2	183.8	0.9	268.9	1.5	0.0	277.6	0.0	277.6
1990	0.0	9.2	0.8	40.1	34.6	0.3	2.5	183.3	0.0	261.5	0.8	0.0	271.5	0.0	271.5
1995	0.0	11.6	0.6	50.5 50.2	42.0	0.2	2.4	212.6	0.0	308.3	3.1	(s)	320.0	(s)	320.0
1996	0.0	11.3	0.6	50.2	44.0	0.3	2.3	219.8	(s) 0.0	317.1	5.4	(s)	328.4	(s)	328.5
1997	0.0	12.8	0.7	45.6 59.3	40.7	0.1	2.4 2.6	224.3 230.3	0.0	313.8 R 224.5	5.3 5.2	(s)	326.7 R 341.2	(s)	326.7 341.2
1998 1999	0.0 0.0	9.7 8.9	0.7 1.0	59.3 63.8	38.5 44.2	0.1 0.3	2.6	230.3 241.5	0.0	R 331.5 353.3	5.2 4.4	(s) (s)	362.2	(s) (s)	341.2 362.2
2000	0.0	9.8	0.8	66.6	43.0	0.3	2.5	243.6	0.0	356.7	5.0	(S)	366.5	0.1	366.6
2001	0.0	10.8	1.4	76.0	43.8	0.2	2.3	252.3	0.0	375.9	6.8	(s)	386.8	0.1	386.9
2002	0.0	11.5	0.8	78.7	40.4	0.2	2.3	249.4	0.0	371.8	6.0	0.1	383.4	0.3	383.7
2003	0.0	10.4	0.7	83.3	32.0	0.2	2.1	246.8	0.0	365.1	7.0	0.1	375.6	0.3	375.9
2004	0.0	10.8	0.6	75.6	70.0	0.3	2.2	257.5	0.0	406.2	6.7	0.1	417.1	0.1	417.2
2005	0.0	13.8 R 12.5	0.6	77.0	69.9	0.3	2.1	260.3	0.0	410.3	R 3.8	0.1	424.2 R 422.0	0.1	424.3 R 424.0
2006 2007	0.0 0.0	R 13.5 14.2	0.8 0.5	81.4 83.8	73.6 76.7	0.3 0.2	2.1 2.2	262.0 268.2	0.0 0.0	420.3 431.5	R 3.4 5.8	0.1 0.2	R 433.9 445.9	0.2 0.3	R 434.0 446.3
2001	0.0	14.2	0.5	03.0	10.1	0.2	۷.۷	200.2	0.0	451.5	5.0	0.2	440.3	0.3	440.3

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Colorado

				Petro	oleum				Biomass				=	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kil	owatthours		Total ^{f,i}
1960	1,221 2,181	37 36	106	10	0	116	0	969		0	0	0	0	
1960 1965	2,181	36	40	4	0	43	0	937		0	0	0	0	
1970 1975	3,212	51	242	22	0	264	0	1,234		0	0	0	0	
1975 1980	5,710 10,124	53 32	882 171	619 273	0	1,501 444	0 667	1,506 1,716		0	0	0	0	
1985	14,295	5	8	113	0	121	-32	2,357		0	0	0	0	
1990	16,315	13		50	ő	50	0	1,420		0	0	0	0	
1995	16.581	23 26 27	(s) 8	50 28 35 38	0	36	0	2,131		0	0	0	0	
1996	17,205	26	16	35	0	51	0	1,820		0	0	0	0	
1997	17,505	27	(s)	38	0	38	0	2,032		0	0	0	43	
1998 1999	18,020 18,042	33 41	(s)	85 71	0	85 72	0	1,462 1,562		0	0	0	1 2	
2000	19,145	63	7	190	0	197	0	1,454		0	0	0	11	
2001	19,765	86	1	338	0	339	0	1,495		0	0	49		
2001 2002	19,446	86 78	0	338 52	Ö	52	Ö	1,209		Ö	Ö	139	36 7	
2003	19.596	78	0	70 30	0	70	0	1,262		0	0	147	R ₂	
2004	19,251	83	1	30	0	31	0	1,195		0	0	220	37 R 6	
2005	19,013	93 93	0	43	0	43	0	1,415		0	0	776	K 6	
2006 2007	19,707 19,533	93 124	28 0	44 65	0	72 65	0	1,791 1,730		0	0 2	866 1,292	(s)	
	-,				-		Trillion E	,				, -	(-)	
1960	25.1	38.3	0.7	0.1	0.0	0.7	0.0	10.4	0.0	0.0	0.0	0.0	0.0	74.6
1965	46.5	32.4	0.3	(s)	0.0	0.3	0.0	9.8	0.0	0.0	0.0	0.0	0.0	89.0
1970	69.1	49.9	1.5	0.1	0.0	1.6	0.0	13.0	0.0	0.0	0.0	0.0	0.0	133.6
1975	113.1	52.7 R 31.3 R 4.9	5.5	3.6	0.0	9.2	0.0	15.7	0.0	0.0	0.0	0.0	0.0	190.6
1980	202.4	K _{31.3}	1.1	1.6	0.0	2.7	7.3	17.8	0.0	0.0	0.0	0.0	0.0	260.2
1985	278.7	R 13.4	(s)	0.7	0.0	0.7	-0.3	24.6	(s) 0.1	0.0	0.0	0.0	0.0	308.4
1990 1995	320.8 328.0	N 13.4 R 24.4	(S)	0.3 0.2	0.0 0.0	0.3 0.2	0.0 0.0	14.8 22.0	0.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	348.4 373.6
1995	342.5	R 24.1 R 29.1 R 27.9	(s) (s) (s) 0.1	0.2	0.0	0.2	0.0	18.8	0.1	0.0	0.0	0.0	0.0	390.0
1997	345.5	R 27.9	(s)	0.2	0.0	0.3	0.0	20.8	0.1	0.0	0.0	0.0	0.0	394.0
1998	356.2	R 34.7 R 43.1	(s) (s) (s)	0.5	0.0	0.5	0.0	14.9	0.0	0.0	0.0	0.0	(s)	405.7
1999	352.8	R 43.1	(s)	0.4	0.0	0.4	0.0	16.0	0.0	0.0	0.0	0.0	(s)	411.7
2000	376.9	R 66 8	(s)	1.1	0.0	1.2	0.0	14.8	0.2	0.0	0.0	0.0	(s)	458.9
2001	386.7	R 90.0	(s) (s) 0.0	2.0 0.3	0.0	2.0	0.0	15.4	0.5	0.0	0.0	0.5	0.1	494.0
2002 2003	380.6 381.4	R 79.5 R 80.5	0.0	0.3 0.4	0.0 0.0	0.3	0.0 0.0	12.3 12.9	0.5 0.4	0.0 0.0	0.0 0.0	1.4	(s)	473.5 476.1
2003	378.5	R 86.7	0.0 (s)	0.4	0.0	0.4 0.2	0.0	12.9	1.0	0.0	0.0	1.5 2.2	(s) 0.1	R 479.6
2004	376.8	R 95 9	0.0	0.2	0.0	0.2	0.0	14.2	0.5	0.0	0.0	7.8	R (s)	494.1
2006	386.4	R 96.5	0.0	0.3	0.0	0.4	0.0	17.8	0.5	0.0	0.0	8.6	(s)	508.6
2007	382.9	128.4	0.0	0.4	0.0	0.4	0.0	17.1	0.6	0.0	(s)	12.8	(s)	540.2
											. , ,			

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Connecticut

						Petroleum				Nueleen	Uhadas	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	3,851	28	23,369	1,129	1,092	19,349	14,622	3,678	63,238	0	424					
1965 1970	4,957 2,060	41 61	21,186 24,117	1,411 2,897	1,383 1,854	22,933 28,638	17,159 35,595	4,029 8,680	68,100 101,782	0 3,604	187 329					
1975	2,000	64	21,613	2,097	2.209	31,822	32,512	2,953	93,233	8,135	493					
1980	16	73	22,304	1,973	1,501	30,205	29,334	3,677	88,994	11,835	256					
1985 1990	815 1,493	78 105	20,680 23,264	1,085 2,344	1,283 1,592	30,999 31,140	21,040 16,554	5,149 3,765	80,236 78,659	12,721 19,776	264 571					
1990	1,493	141	23,264	2,344 2,489	1,392	30,591	6,803	3,765 4,194	66,808	18,776	364					
1996	1,606	135	22,170	2 718	1,517	32,663	10,407	6,326	75,802	6,225	626					
1997	1,745	145	22,176	R 2,372	1,732	32,934	14,673	6,393	R 80,281	-125	447					
1998 1999	1,272 619	132 152	19,886 22,407	R 2,214 2,456	2,243 1,673	33,589 36,283	14,982 14,429	5,870 5,980	R 78,785 83,228	3,243 12,675	448 422					
2000	1,477	160	23,578	2,599	2,130	34.933	11.835	6,077	81,151	16,365	526					
2001	1,627	146	24,817	2,356	2,422	35,437	9,033	2,582	76,646	15,428	286					
2002	1,512	178	22,382	2,201	2,065	37,436 40,498	4,437	2,318 3,673	70,840 79,816	14,918	335 564					
2003 2004	2,055 2,136	154 163	25,891 28,850	2,108 2,382	2,954 3,057	40,498 43,565	4,692 4,093	3,673 4,018	79,816 85,966	16,078 16,539	463					
2005	2 076	168	26,518	2,461	3,973	38,601	6,609	4,501	82,663	15,562	478					
2006	R 2,248	173	24,317	2,249	3,698	37,710	3,071	3,917	74,961	16,589	544					
2007	1,939	180	24,281	2,056	3,364	37,906	2,793	2,723	73,123	16,386	363					
								Trillion Btu								
1960 1965	101.7 128.6	29.4 41.7	136.1 123.4	6.4 8.0	4.4 5.5	101.6 120.5	91.9 107.9	22.0 24.2	362.4 389.4	0.0 0.0	4.6 2.0	12.8 13.5	0.0 0.0	-2.8 -3.2	0.0 0.0	508.2 572.0
1970	48.6	61.5	140.5	16.4	7.0	150.4	223.8	49.3	587.4	39.6	3.5	15.8	0.0	-34.0	0.0	722.4
1975	1.3	64.3	125.9	12.0	8.2	167.2	204.4	18.0	535.7	89.6	5.1	17.1	0.0	-20.8	0.0	692.3
1980 1985	0.4 21.3	R 74.2 _R 80.6	129.9 120.5	11.2 6.1	5.5 4.6	158.7 162.8	184.4 132.3	21.2 30.9	510.9 457.2	129.1 135.1	2.7 2.8	41.1 37.5	0.0 0.0	-20.7 -2.7	-0.1 -0.1	737.4 731.7
1990	38.5	R 109.0	135.5	13.3	5.8	163.6	104.1	22.7	444.9	209.3	5.9	28.7	0.0	-64.4		772.0
1995	40.8	144.9	124.2	14.1	5.1	159.5	42.8	25.3	371.1	197.0	3.8	42.2	0.2	-26.2	(s) 4.3	778.0
1996 1997	41.1	R 139.2	129.1 129.2	15.4	5.5	170.4 171.7	65.4 92.3	36.3 36.4	422.1 449.2	65.4	6.5	49.4 45.9	0.2	101.3	4.5	829.6 824.6
1997	45.0 32.6	148.6 134.9	129.2	13.4 R 12.6	6.3 8.1	171.7	92.3 94.2	30.4 32.8	449.2 438.5	-1.3 34.0	4.6 4.6	45.9 44.4	0.2 0.2	126.6 109.8	5.8 6.0	824.6 805.0
1999	15.2	155.9	130.5	13.9	6.1	189.1	90.7	33.4	463.7	132.5	4.3	44.9	0.3	31.1	6.6	854.5
2000	36.2	163.7	137.3	14.7	7.7	182.0	74.4	33.9	450.1	170.7	5.4	45.1	0.3	-20.1	5.4	856.8
2001 2002	40.0 34.2	R 149.4 _ 182.9	144.6 130.4	13.4 12.5	8.8 7.5	184.6 195.0	56.8 27.9	15.2 13.7	423.3 386.9	161.2 155.7	3.0 3.4	26.5 24.5	0.3 0.4	30.3 43.0	2.6 1.1	836.6 832.2
2002	34.2 41.9	R 155 0	150.4	12.5	10.7	210.9	27.9	22.3	386.9 436.2	167.5	5.4 5.8	24.5 25.1	0.4	43.0 54.0	1.1	832.2 887.0
2004	44.0	R 163.1	168.1	13.5	11.1	227.2	25.7	24.3	469.9	172.5	4.6	25.1	0.5	38.3	3.2	921.3
2005	42.0	R 171.9	154.5	14.0	14.4	201.4	41.6	27.3	453.1	162.4	4.8	R 22.9	0.7	36.0	3.6	R 897.4
2006 2007	45.7 39.9	R 177.7 184.1	141.6 141.4	12.8 11.7	13.3 12.1	196.8 197.8	19.3 17.6	23.7 16.3	407.5 396.8	173.1 171.9	5.4 3.6	R 22.6 22.7	0.9 1.0	9.4 45.4	3.9 5.1	^R 846.1 870.7
2001	33.3	104.1	141.4	11.7	14.1	151.0	17.0	10.5	0.080	171.9	3.0	22.1	1.0	40.4	J. I	010.1

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Connecticut

				Petro	leum		Biomass			5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total ^{d,f}
1960	114	16	15,480	1,507	624	17,611	255			2,724			
1965	46	22	13,649	1,101	692	15,442	239			3,812			
1970	24	31	14.239	526	802	15.568	308			6,396			
1975	7	32	12,950	291	768	14,009	332			7,449			
1980	3	32 32	13,468	233	595	14,296	1,104			8,218			
1985	8	33	10,896	605	639	12,140	776			8,638			
1990	2	37	13,576	196	857	14,628	483			10,376			
1995	3	41	12,528	122	875	13,525	523			10,760			
1996 1997	1	44 41	13,202 12,949	124 143	1,061 1,208	14,388 14,301	543 390			10,943 10,859			
1998	1	35	11,060	126	1,530	12,716	346			10,935			
1999	1	38	12,905	177	1,182	14,264	365			11,619			
2000	(s)	42	14,123	199	1,335	15.656	392			11,645			
2001	(s)	41	13,603	161	1,387	15,151 14,683	304			11,975			
2002	(s)	40	13,095	92	1,496	14,683	308			12,473			
2003	, 1	46	15,298	270	1,833	17,401	325			13,178			
2004	(s)	44	17,021	349	1,724	19,093	333			13,211			
2005 2006	(s)	45 39	14,916 12,895	326 232	1,577 R 1,308	16,819 R 14,435	333 R 231 R 210			13,803 12,963			
2007	(s) (s)	43	13,037	129	1,531	14,697	232			13,372			
2007	(3)		10,007	123	1,551					10,572			
-						- 11	illion Btu						
1960	2.8	16.6	90.2	8.5	2.5	101.2	5.1	0.0	0.0	9.3	135.0	23.0	158.0
1965	1.1	22.7 31.7	79.5	6.2	2.8 3.0	88.5	4.8 6.2	0.0	0.0	13.0	130.2	31.1	161.2
1970	0.6	31.7	82.9	3.0	3.0	89.0	6.2	0.0	0.0	21.8	149.2	52.8	202.0
1975 1980	0.1	32.3 _ 32.7	75.4	1.7	2.9 2.2	79.9 82.0	6.6	0.0	0.0	25.4	144.4	61.1	205.6 232.4
1980	0.1 0.2	R 33.8	78.5 63.5	1.3 3.4	2.2	69.2	22.1 15.5	0.0 0.0	0.0 0.0	28.0 29.5	164.8 148.0	67.6 67.9	232.4 215.9
1990	0.2	38.7	79.1	1.1	3.1	83.3	9.7	0.0	0.0	35.4	167.1	81.9	249.0
1995	0.1	42.0	73.0	0.7	3.2	76.8	10.5	0.0	0.2	36.7	166.3	83.4	249.6
1996	(s)	45.0	76.9	0.7	3.2 3.8	81.4	10.9	0.0 0.0	0.2	37.3	174.9	84.9	259.8
1997	(s)	41.7	75.4	0.8	4.4	80.6	7.8	0.0	0.2	37.1	167.4	83.9	251.3
1998	(s)	36.2	64.4	0.7	5.5	70.7	6.9	0.0	0.2	37.3	151.4	84.6	236.0
1999	(s)	39.3	75.2	1.0	4.3	80.4	7.3	(s)	0.3	39.6	167.0	90.7	257.6
2000	(s)	42.7	82.3	1.1	4.8	88.2	7.8	(s)	0.3	39.7	178.8	90.4	269.2
2001 2002	(s)	42.0 41.7	79.2 76.3	0.9	5.0	85.2	6.1	(s)	0.3	40.9 42.6	174.4 173.0	91.0	265.5 267.9
2002	(s)	41.7 45.9	76.3 89.1	0.5 1.5	5.4 6.7	82.2 97.3	6.2 6.5	(s) (s)	0.4 0.5	42.6 45.0	173.0 195.1	94.9 99.2	267.9 294.3
2003	(s) (s)	R 44.0	99.1	2.0	6.2	97.3 107.4	6.7	(s)	0.5	45.0 45.1	203.6	99.2 99.7	204.3 203.3
2005	(s)	R 45.9	86.9	1.8	5.7	94.4	R 4 6	(s)	0.7	47.1	203.6 R 192.6	103.0	303.3 R 295.7 R 266.9
2006	(s)	40.8	75.1	1.3	5.7 R 4.7	R 81.1	R 4.2	(s)	0.9	44.2	^R 171.2	95.6	R 266.9
2007	(s)	44.6	75.9	1.3 0.7	5.5	82.2	4.6	(s)	1.0	45.6	178.1	98.4	276.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Connecticut

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	79	3	5,029	52	110	63	871	6,125	0			1,825			
1965	79 35	6	4.434	52 38	122	76	958	5.629	0			2,873			
1970	19	15	4,626	18	142	97	995	5,877	0			4,649			
1975 1980	16 13	16 20	4,207 2,905	10 7	136 105	239 275	656 1.171	5,248 4,463	0			6,000 7,039			
1980	29	25	2,905 3,961	64	113	142	1,171	4,463 5,960	0			7,039 8,731			
1990	10	29	3,481	51	151	204	1,079	4,921	0			10,711			
1995	22	38	3,017	27	154	250	447	3,896	Ö			11,297			
1996	5	40	2,958	72	187	823	455	4,495	0			11,546			
1997	7	43	2,935	104	213	983	321	4,556	0			11,654			
1998 1999	6	42	2,630 2,649	176	270 209	725 778	160 210	3,961 3,928	0			12,184 12,349			
2000	4	48 48	2,049	82 119	209	825	218	4,380	0			12,349			
2001	4	44	3,403	231	245	290	165	4,334	0			12,490			
2002	4	41	2,885	132	264	821	321	4,423	Ö			13,162			
2003	3	39	3,495	125	323	1,850	705	6,498	0			13,094			
2004	4	36	3,547	172	304	152	329	4,504	0			13,455			
2005 2006	5 R 3	36 33	3,008 2,726	266 181	278 R 231	190 46	353 317	4,095 R 3,500	0			13,949 13,611			
2006	3	36	2,726	34	270	40	190	3,141	0			15,126			
			2,007		270		100	Trillion Btu				10,120			
1960	2.0	3.3	29.3	0.3	0.4	0.3	5.5	35.8	0.0	0.1	0.0	6.2	47.4	15.4	62.8
1965	0.8	5.9	25.8 26.9	0.2	0.5	0.4	6.0	33.0	0.0	0.1	0.0	9.8	49.6	23.4	73.0
1970 1975	0.4 0.3	14.7 16.0	26.9	0.1 0.1	0.5 0.5	0.5 1.3	6.3 4.1	34.3 30.4	0.0 0.0	0.1 0.1	0.0 0.0	15.9 20.5	65.5 67.4	38.4 49.2	103.9 116.6
1975	0.3	20.6	16.9	(s)	0.3	1.4	7.4	26.2	0.0	0.1	0.0	24.0	71.6	57.9	129.5
1985	0.7	R 25.3	23.1	0.4	0.4	0.7	10.6	35.1	0.0	0.4	0.0	29.8	91.2	68.6	159.8
1990	0.2	30.4	20.3	0.3	0.5	1.1	6.5	28.7	0.0	1.1	0.0	36.5	96.9	84.5	181.4
1995	0.5	39.0	17.6	0.2	0.6	1.3	2.8	22.4	0.0	1.4	0.0	38.5	101.9	87.5	189.4
1996	0.1	40.9	17.2	0.4	0.7	4.3	2.9	25.5	0.0	9.1	0.0	39.4	115.0	89.6	204.6
1997	0.2	43.8	17.1	0.6	0.8	5.1	2.0	25.6	0.0	8.9	0.0	39.8	118.2	90.1	208.3
1998 1999	0.2 0.1	43.4 48.7	15.3 15.4	1.0 0.5	1.0 0.8	3.8 4.1	1.0 1.3	22.1 22.0	0.0 0.0	9.0 9.2	0.0 0.0	41.6 42.1	116.3 122.1	94.3 96.4	210.5 218.5
2000	0.1	R 49.9	17.4	0.5	0.8	4.1	1.3	24.6	0.0	1.3	0.0	42.1	118.4	97.0	215.4
2001	0.1	45.4	19.8	1.3	0.9	1.5	1.0	24.6	0.0	1.1	0.0	44.3	115.5	98.8	214.3
2002	0.1	42.0	16.8	0.7	1.0	4.3	2.0	24.8	0.0	1.1	0.0	44.9	112.9	100.1	213.0
2003	0.1	39.0	20.4	0.7	1.2	9.6	4.4	36.3	0.0	1.1	0.0	44.7	121.2	98.6	219.7
2004	0.1	R 35.4	20.7	1.0	1.1	0.8	2.1	25.6	0.0	_P 1.1	0.0	45.9	108.0	101.6	209.6 R 212.6
2005 2006	0.1	36.8	17.5	1.5	1.0	1.0	2.2	23.2	0.0	R 0.7 R 0.7	0.0 0.0	47.6	108.5	104.1	N 212.6
2006	0.1 0.1	34.1 37.0	15.9 15.2	1.0 0.2	0.8 1.0	0.2 0.2	2.0 1.2	20.0 17.8	0.0 0.0	0.7	0.0	46.4 51.6	101.3 107.2	100.4 111.4	R 201.7 218.5
2001	V. I	37.0	10.2	0.2	1.0	0.2	1.4	17.0	0.0	0.1	0.0	51.0	101.2	111.7	210.5

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Connecticut

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	866	7	1,665	355	243	11,950	1,756	15,968	26			2,837			
1965	776	12	1,561	564	248	13,180	2,463	18,016	9		==	3,862			
1970	142	15	1,968	890	269	13,710	7,773	24,611	3			5,094			
1975	29	16	1,944	1,280	36	9,124	2,365	14,750	7			5,050			
1980 1985	0	20	3,235 1,197	785 499	66 225	6,683	3,101 4,185	13,870 8,308	6			5,944 6,113			
1985	4	19 25	1,197	499 548	263	2,202 1,415	3,171	6,605	8			6,100			
1995	Ó	32	852	355	195	755	3,762	5,918	6			5,913			
1996	0	32 32	811	247	223	964	5,858	8,102	8			5,928			
1997	0	35	847	295	232	387	5,875	7,636	8			5,919			
1998	0	32	780	391	138	308	5,257	6,873	0			5,838			
1999 2000	0	32 32	783 859	249 526	210 233	405 380	5,428 5,472	7,075 7,470	0			5,836 5,811			
2000	0	32 26	1,026	697	233 536	598	1,877	4,733	0			5,572			
2002	Ő	26 29	848	271	499	347	1,808	3,773	0			5,370			
2003	0	24	1,703	772	560	764	3,017	6,815	0			5,366			
2004	0	21	1,091	997	634	1,103	3,219	7,044	0			5,358			
2005	1	20	930	2,080 R 2,136	561	1,109	3,504	8,184 R 7,446	0			5,153			
2006 2007	0	22 23	979 896	1,546	578 445	590 393	3,164 2,215	5,495	0			4,926 5,433			
2007	0	23	090	1,540	440	393	· · · · · · · · · · · · · · · · · · ·	,	0			3,433			
							Tr	Ilion Btu							
1960 1965	22.8 20.4	7.5 12.7	9.7 9.1	1.4	1.3 1.3	75.1 82.9	11.1	98.6	0.3	7.6 8.7	0.0		146.5 165.9	23.9	170.5 197.3
1965	3.4	14.9	9.1	2.3 3.4	1.3	86.2	15.3 44.1	110.8 146.6	0.1	9.6	0.0		191.9	31.5 42.1	233.9
1975	0.7	15.6	11.3	4.8	0.2	57.4	14.6	88.3	(s) 0.1	10.3	0.0		132.2	41.4	173.6
1980	0.0	R 20.8	18.8	2.9	0.3	42.0	17.9	82.0	0.1	18.5	0.0	20.3	141.5	48.9	190.4
1985	0.1	^R 19.5	7.0	1.8	1.2		25.3	49.1	0.1	21.6	0.0		111.2	48.0	159.2
1990	(s)	26.3	7.0	2.0		8.9	19.3	38.6	0.1	2.1	0.0		87.9	48.1	136.0
1995	0.0	33.1	5.0	1.3	1.0		22.8	34.8	0.1	2.9	0.0		91.1	45.8	136.9
1996 1997	0.0 0.0	33.4 35.5	4.7 4.9	0.9 1.1	1.2 1.2	6.1	33.5 33.4	46.4 43.0	0.1 0.1	5.8 6.1	0.0 0.0		105.8 104.9	46.0 45.8	151.8 150.7
1997	0.0	33.3	4.9 4.5	1.1	0.7	2.4 1.9	29.2	43.0 37.8	0.1	5.1	0.0	19.9	96.2	45.6 45.2	141.4
1999	0.0	32.8	4.6	0.9	1.1	2.5	30.2	39.3	0.0	5.3	0.0		97.2	45.5	142.8
2000	0.0	33.1	5.0	1.9	1.2		30.4	40.9	0.0	5.0	0.0		98.8	45.1	143.9
2001	0.0	26.2	6.0	2.5	2.8	3.8	11.2	26.2	0.0	5.1	0.0	19.0	76.5	42.4	118.8
2002	0.0	30.1	4.9	1.0		2.2	10.7	21.4	0.0	3.6	0.0		73.4	40.8	114.2
2003	0.0	23.7	9.9	2.8	2.9	4.8	18.5	39.0	0.0	3.6	0.0		84.6	40.4	125.0
2004	0.0	20.4	6.4	3.6		6.9	19.8	40.0	0.0	3.8	0.0		82.5	40.5	123.0
2005 2006	(s) 0.0	21.1 22.6	5.4 5.7	7.5 R 7.7	2.9 3.0	7.0 3.7	21.7 19.4	44.6 R 39.6	0.0	3.9 4.1	0.0 0.0		87.1 R 83.0	38.5 36.3	125.6 R 119.4
2007	0.0	23.5	5.2	5.6	2.3	2.5	13.4	28.9	0.0	4.1	0.0		75.2	40.0	115.2
	0.0	20.0	J.2	5.0	2.0		10.4	20.0	0.0	7.2	0.0	10.0	70.2	10.0	110.2

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Connecticut

						Pe	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses ⁹	Total e,f
1960	15	(s)	104	1,117	1,129	2	258	19,044	204	21,857	0	0			
1965	3	(s)	172	1,415	1,411	5	255	22,609	471	26,338	0	0			
1970	(s)	(s)	124	2,266	2,897	21	238	28,273	359	34,177	0	0			
1975 1980	(s)	(s) (s)	90 89	2,391 2,580	2,013 1,921	26 15	196 247	31,547 29,864	581 53	36,844 34,768	0	0			
1980	0	(S) (S)	71	2,580 4,542	1,921	32	247	29,864 30,631	152	34,768 36,738	30	0			
1990	0	(s)	94	4,800	2,344	36	253	30,673	84	38,285	0	0			
1995	Ő	1	41	4,756	2,489	36 26	242	30,146	11	37,711	23	Õ			
1996	0	1	37	5,086	2 718	21	235	31,617	36	39 750	78	0			
1997	0	3	23	5,320	R 2,372	16	248	31,719	25	R 39,722	82	0			
1998	0	1	52	5,302	R 2,214	52 34	259 262	32,726	14	R 40,620	80	0			
1999 2000	0	3	32 30	5,598 5,470	2,456 2,599	33	262 258	35,294 33,875	12 22	43,689 42,287	85 94	0			
2000	0	3	78	6,683	2,356	93	237	34,611	10	44,067	29	0			
2002	Ŏ	3	52	5,478	2,201	35	234	36,116	1	44,117	81	Ŏ			
2003	0	4	45	5,213	2,108	26	216	38,088	2	45,698	471	192			
2004	0	4	59	7,079	2,382	32	219	42,779	22	52,573	3,614 R 964	190			
2005	0	3	187	7,562	2,461	38	218	37,850	22	48,339	R 964	190			
2006 2007	0 0	3	127 126	7,646 7,669	2,249 2,056	23 17	212 219	37,086 37,422	5 15	47,349 47.524	R 2,824 3,459	177 198			
2007	U	4	120	7,009	2,056	17	219	· · · · · · · · · · · · · · · · · · ·	10	47,524	3,439	190			
								Trillion Btu							
1960	0.4	0.2	0.5	6.5	6.4	(s) (s)	1.6	100.0	1.3	116.3	0.0	0.0	116.9	0.0	116.9
1965	0.1	0.1	0.9	8.2	8.0	(s)	1.5	118.8	3.0	140.4	0.0	0.0	140.5	0.0	140.5
1970 1975	(s)	0.1	0.6 0.5	13.2 13.9	16.4 11.4	0.1 0.1	1.4 1.2	148.5 165.7	2.3 3.7	182.5 196.4	0.0 0.0	0.0 0.0	182.6 196.5	0.0 0.0	182.6 196.5
1975	(s) 0.0	(s) 0.1	0.5	15.0	10.9	0.1	1.5	156.9	0.3	185.1	0.0	0.0	185.2	0.0	185.2
1985	0.0	0.1	0.4	26.5	6.1	0.1	1.4	160.9	1.0	196.3	0.0	0.0	196.8	0.0	196.8
1990	0.0	0.5	0.5	28.0	13.3	0.1	1.5	161.1	0.5	205.0	0.0	0.0	205.5	0.0	205.5
1995	0.0	1.2	0.2	27.7	14.1	0.1	1.5	157.2	0.1	200.9	0.1	0.0	202.1	0.0	202.1
1996	0.0	1.5	0.2	29.6	15.4	0.1	1.4	164.9	0.2	211.9	0.3	0.0	213.4	0.0	213.4
1997	0.0	2.6	0.1	31.0	13.4	0.1	1.5	165.4	0.2	211.6	0.3	0.0	214.3	0.0	214.3
1998 1999	0.0 0.0	1.0	0.3 0.2	30.9 32.6	R 12.6 13.9	0.2	1.6 1.6	170.6 183.9	0.1 0.1	216.1 232.4	0.3 0.3	0.0 0.0	217.1 235.5	0.0	217.1 235.5
2000	0.0	3.1 3.2	0.2	32.b 31.9	13.9	0.1 0.1	1.6	183.9 176.5	0.1	232.4 225.1	0.3	0.0	235.5	0.0	235.5
2000	0.0	3.2	0.2	38.9	13.4	0.1	1.6	180.3	0.1	234.8	0.3	0.0	220.3	0.0	220.3
2002	0.0	2.8	0.4	31.9	12.5	0.3	1.4	188.1	(s)	234.3	0.3	0.0	237.1	0.0	237.1
2003	0.0	3.6	0.2	30.4	12.0	0.1	1.3	198.3	(s) (s)	242.3	1.7	0.7	246.5	1.4	248.0
2004	0.0	3.6	0.3	41.2	13.5	0.1	1.3	223.1	0.1	279.7	12.8 R 3.4	0.6	283.9	1.4	285.4
2005	0.0	3.5	0.9	44.1	14.0	0.1	1.3	197.5	0.1	258.1	R 3.4	0.6	262.2	1.4	263.6
2006 2007	0.0 0.0	3.4 4.6	0.6 0.6	44.5 44.7	12.8 11.7	0.1 0.1	1.3 1.3	193.5 195.3	(s) 0.1	252.8 253.8	R 10.0 12.2	0.6 0.7	256.9 259.0	1.3 1.5	258.2 260.5
2007	0.0	4.0	0.0	44.7	11.7	0.1	1.3	190.3	0.1	200.8	12.2	0.7	259.0	6.1	∠00.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Connecticut

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	18/aad	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	2,776	2	1,597	79	0	1,676	0	398		0	0	0	0	
1965 1970	4,097 1,875	(s) (s) (s)	2,550 20,531	126	0	2,676 21,550	0	179		0	0	0	0	
1970	1,875 4	(s)	20,531	1,018 232	0	21,550	3,604 8,135	327 487		0	0	0	0	
975 980	0	(S) 0	22,150 21,428	232 168	0	22,382 21,596	11,835	250		0	0	0	0	
985	774	2	17,006	83	0	17 080	12,721	258		0	0	0		
990	1,480	13	14,021	199	0	17,089 14,219	19,776	563		0	0	0	42 37	
995	1,569	29	5,589	169	Ö	5,758	18.749	358		Ŏ	Ŏ	Ŏ	1,276	
995 996 997	1,600	18	8,953	113	0	9,066	6,225	618		0	0	0	1,325	
997	1,738	24	13,941	125	0	14,066	-125	438		0	0	0	1,699	
998 999	1,265	20	14,500	113	0	14,613	3,243	448		0	0	0	1,759	
999	614	31	13,802	471	0	14,273	12,675	422		0	0	0	1,934	
000	1,473 1.623	34	11,215 8,259	142	0	11,357 8,362	16,365	526		0	0	0	1,585 766	
001 002	1,523	32 65	3,768	102 77	0	3,844	15,428 14,918	286 335		0	0	0	326	
003	2,051	43	3,221	183	0	3,403	16,078	564		0	0	0	346	
003	2,132	59	2,638	113	0	2,751	16,539	463		0	0	0	995	
005	2,070	64	5,125	101	Ö	5.227	15,562	478		Ŏ	Ŏ	Ö	1,140	
006	2,245	76	2,160	71	0	5,227 2,231	16,589	544		Ō	Ō	0	1,165	
2007	1,936	74	2,195	71	0	2,266	16,386	363		0	0	0	1,509	
							Trillion I	Btu						
960 965	73.7	1.8	10.0	0.5	0.0	10.5	0.0	4.3	0.0	0.0	0.0	0.0	0.0	90.3
905	106.2 44.2	0.3 0.1	16.0 129.1	0.7 5.9	0.0 0.0	16.8 135.0	0.0 39.6	1.9 3.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	125.1 222.3
970 975 980	0.1	0.1	139.3	1.3	0.0	140.6	89.6	5.4 5.1	0.0	0.0	0.0	0.0	0.0	222.3
980	0.0	0.0	134.7	1.0	0.0	135.7	129.1	2.6	0.0	0.0	0.0	0.0	0.0	235.7 267.4
985	20.4	1.6	106.9	0.5	0.0	107.4	135.1	2.7	0.0	0.0	0.0	0.0	0.1	267.3
990	38.2	13.1	88.1	1.2	0.0	89.3	209.3	5.9	15.9	0.0	0.0	0.0	0.1	371.7
995 996	40.2	29.5	35.1	1.0 0.7	0.0	36.1	197.0	3.7	27.5	0.0	0.0	0.0	4.4 4.5 5.8	338 3
996	41.0	18.3	56.3	0.7	0.0	56.9	65.4	6.4	23.6	0.0	0.0	0.0	4.5	216.2
997	44.8	24.9	87.6	0.7	0.0	88.4	-1.3	4.5	23.1	0.0	0.0	0.0	5.8	190.2
998 999	32.4	20.9 32.0	91.2 86.8	0.7 2.7	0.0 0.0	91.8	34.0	4.6 4.3	23.3 23.2	0.0	0.0	0.0	6.0 6.6	213.1
999	15.1	32.0 34.8	86.8 70.5	0.8	0.0	89.5 71.3	132.5 170.7	4.3 5.4	23.2	0.0 0.0	0.0 0.0	0.0 0.0	5.4	303.1
000 001	36.1 39.9	34.8 32.6	70.5 51.9	0.8	0.0	71.3 52.5	170.7	3.4 3.0	31.0 14.3	0.0	0.0	0.0	5.4 2.6	354.8 306.
002	34.1	66.4	23.7	0.4	0.0	24.1	155.7	3.4	13.7	0.0	0.0	0.0	1.1	298.6
003	41.8	42.9	20.2	1.1	0.0	21.3	167.5	5.8	13.8	0.0	0.0	0.0	1.2	294.3
004	43.9	59.7	16.6	0.7	0.0	17.2	172.5	4.6	13.5	0.0	0.0	0.0	3.4	314.8
005	41.9	R 64.6	32.2	0.6	0.0	32.8	162.4	4.8	13.6	0.0	0.0	0.0	3.9	323.9
006	45.6	76.7	13.6	0.4	0.0	14.0	173.1	5.4	13.6	0.0	0.0	0.0	4.0	332.4 322.3
2007	39.8	74.5	13.8	0.4	0.0	14.2	171.9	3.6	13.1	0.0	0.0	0.0	5.1	322.3

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Delaware

						Petroleum				Marelean	II. de	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millior	kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	791	9	2,712	2,144	1,007	4,314	6,246	5,175	21,599	0	0					
1965 1970	1,103 1,541	18 26	3,275 4,308	2,086 2,062	1,507 2,255	5,076 6,247	5,538 6,588	6,040 5,832	23,522 27,293	0	0					
1975	937	19	4,309	1,654	2,654	7,069	10,218	5,114	31,018	ő	0					
1980	1,130	30	3,716	1,573	3,199	6,614	12,717	6,253	34,072	0	0					
1985 1990	2,766 2,293	38 39	3,696 3,518	1,569 1,306	994 1,043	7,556 8,012	3,602 3,804	5,114 7,758	22,532 25,441	0	0					
1995	2,011	61	3,386	1,306 R 76	1,361	8,471	4,066	6,467	25,441 R 23,827	ŏ	Ő					
1996	1,956	54	3,755	62 P 70	1,707	8,453	5,425	7,482	26,883 R 25,032	0	0					
1997 1998	1,866 1,773	47 41	3,339 3,164	R 73 R 87	1,217 1,427	8,587 9,079	4,389 4,465	7,426 7,044	R 25,032	0	0					
1999	1,393	56	3,322	105	1,118	9,259	4,858	7,152	25,814	0	0					
2000	1,934	48	4,309	104	1,006	8,999	4,170	6,302	24,891	0	0					
2001 2002	1,653 1,640	50 52	3,508 3,607	129 124	1,352 1,290	9,299 9,945	5,021 3,599	7,404 7,531	26,713 26,096	0	0					
2002	1,887	52 46	3,847	142	1,393	9,945	3,573	7,783	26,096	0	0					
2004	2,174	48	3,412	166	1,355	10,065	2,904	7,583	25,484	Ö	Ö					
2005	2,325	47	3,476	167	1,401	10,530	3,176	8,111	26,862	0	0					
2006 2007	2,291 2,566	43 48	3,216 3,033	144 113	1,249 1,124	10,827 11,034	2,046 2,134	7,615 7,258	25,096 24,697	0	0					
								Trillion Btu								
1960	20.5	9.4	15.8	11.5	4.0	22.7	39.3	30.9	124.2	0.0	0.0	5.0	0.0	-2.4	0.0	156.6
1965 1970	29.0 37.2	18.7 26.9	19.1 25.1	11.2 11.1	6.0 8.5	26.7 32.8	34.8 41.4	36.2 35.2	134.0 154.2	0.0 0.0	0.0 0.0	5.6 7.0	0.0 0.0	-2.8 -5.4	0.0	184.6 219.9
1975	22.9	19.0	25.1	8.9	9.9	37.1	64.2	30.9	176.1	0.0	0.0	7.9	0.0	-5.2	0.0	220.6
1980	28.1	30.8	21.6	8.4	11.8	34.7	80.0	36.6	193.2	0.0	0.0	2.5	0.0	-3.6	-0.1	250.9
1985 1990	71.4 59.5	R 39.5 R 40.1	21.5 20.5	8.4 7.0	3.6 3.8	39.7 42.1	22.6 23.9	30.9 46.4	126.8 143.7	0.0 0.0	0.0 0.0	3.0 1.6	0.0 0.1	-21.7 8.2	(s) -4.5	219.0 248.6
1995	52.4	62.7	19.7	0.4	4.9	44.2	25.6	38.1	132.9	0.0	0.0	2.4	0.1	22.2	(s)	272.8
1996	50.8	55.9	21.9	0.4	6.2	44.1	34.1	43.9	150.5	0.0	0.0	2.5	0.1	24.7	(s)	284.6
1997	48.6	48.1	19.5	0.4	4.4	44.8	27.6	43.5	140.1	0.0	0.0	2.1	0.1	43.1	(s)	R 282.2
1998 1999	45.8 35.9	42.3 58.1	18.4 19.3	R 0.5 0.6	5.2 4.0	47.3 48.3	28.1 30.5	41.2 41.8	R 140.7 144.6	0.0 0.0	0.0 0.0	1.8 1.9	0.1 0.1	50.7 53.8	0.0 0.0	R 281.4 294.5
2000	50.1	50.2	25.1	0.6	3.6	46.9	26.2	36.9	139.4	0.0	0.0	2.2	0.1	64.8	(s)	306.8
2001	38.3	51.8	20.4	0.7	4.9	48.4	31.6	43.5	149.6	0.0	0.0	1.2	0.1	61.0	(s)	302.0
2002 2003	40.5 47.0	54.3 48.2	21.0 22.4	0.7 0.8	4.7 5.1	51.8 51.5	22.6 22.5	44.5 45.7	145.3 148.0	0.0 0.0	0.0 0.0	1.2 1.2	0.1 0.2	69.0 67.7	0.0 (s)	310.4 312.2
2003	53.6	49.9	19.9	0.9	4.9	52.5	18.3	44.3	140.8	0.0	0.0	1.3	0.2	58.5	(S)	304.2
2005	56.7	48.6	20.2	0.9	5.1	54.9	20.0	47.4	148.6	0.0	0.0	R15	0.2	56.9	(s)	R 312.6
2006 2007	56.6 63.8	44.7 49.8	18.7 17.7	0.8 0.6	4.5 4.0	56.5 57.6	12.9 13.4	44.7 42.5	138.1 135.8	0.0 0.0	0.0 0.0	R 1.4 2.1	0.2 0.3	59.7 50.3	(s)	R 300.8 302.0
2007	03.8	49.8	17.7	0.6	4.0	5/.6	15.4	42.5	135.8	0.0	0.0	2.1	0.3	50.3	(s)	302.

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Delaware

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	12 7	4	1,485	807	176	2,468	76			496			
1965	7	6	1,651	604	288	2,543	58			729			
1970	4	8	2,037	365	416	2,818	54			1,169			
1975	1	7	1,866	215	394	2,474	63			1,640			
1980 1985	1	7	1,316	275 649	375	1,966 2,727	121 147			1,866			
1985 1990	1	6	1,486 1,149	649 144	593 573	1,866	147			1,924 2,651			
1990	(s)	9	1,149	120	859	2,092	91			2,651 3,168			
1996	(5)	10	1,091	180	913	2,185	94			3,271			
1997	1	9	905	121	982	2,009	71			3,257			
1998	i	8	805	164	1,041	2,010	63			3,339			
1999	(s)	9	912	164 125	931	1.968	67			3,532			
2000	(s)	9	1,138	131	734	2,004	72			3,575			
2001	(s)	9	1,004	113	935	2.052	47			3,734			
2002	Ó	10	990	65	996	2,052	47			4,020			
2003	0	11	1,057	.87	973	2,117	50			4,190			
2004	0	10	965	127	986	2,078	51 R 63			4,305			
2005 2006	R (s)	10	908 707	134 108	897 R 741	1,938 R 1,555	R 57			4,594			
2006	(s)	9 10	638	49	769	1,455	63			4,259 4,470			
2001	(3)	10	000		703	· · · · · · · · · · · · · · · · · · ·				7,770			
							rillion Btu						
1960	0.3 0.2	3.9 5.9 8.0	8.6	4.6	0.7	13.9	1.5	0.0	0.0	1.7	21.4	4.2	25.6
1965	0.2	5.9	9.6	3.4	1.2	14.2	1.2	0.0	0.0	2.5	24.0	5.9	29.9
1970	0.1	8.0	11.9	2.1	1.6	15.5	1.1	0.0	0.0	4.0	28.7	9.7	38.3
1975	(s)	7.1	10.9 7.7	1.2	1.5	13.5	1.3 2.4	0.0	0.0	5.6	27.5	13.5	41.0
1980	(s)	7.1	7.7	1.6	1.4	10.6	2.4	0.0	0.0	6.4	26.5	15.3	41.9
1985 1990	(s) 0.1	6.3 R 7.3	8.7 6.7	3.7	2.1	14.5	2.9 1.2	0.0	0.0	6.6	30.4	15.1 20.9	45.5 47.5
1990		1.7.3	0.7 6.5	0.8 0.7	2.1	9.6	1.2	0.1 0.1	(s)	9.0	26.5 31.8	20.9 24.5	47.5 FC 4
1995 1996	(s) (s)	8.8 10.1	6.5 6.4	1.0	3.1 3.3	10.3 10.7	1.8 1.9	0.1	(s) (s)	10.8 11.2	34.0	25.4	56.4 59.4
1997	(5)	9.3	5.3	0.7	3.6	9.5	1.4	0.1	(s)	11.1	31.5	25.2	56.6
1998	(s)	8.2	4.7	0.7	3.8	9.4	1.3	0.1	(s)	11.4	30.4	25.8	56.2
1999	(s)	9.3 8.2 9.5	5.3	0.7	3.4	9.4	1.3	0.1	(s)	12.1	32.3	27.6	59.9
2000	(s)	9.9	6.6	0.7	2.6	10.0	1.4	0.1	(s)	12.2	33.6	27.7	61.4
2001	(s)	9.9 9.5	5.8	0.6	3.4	9.9	0.9	0.1	(s)	12.7	33.1	28.4	61.5
2002	0.0	10.0	5.8 6.2	0.4	3.6	9.7	0.9	0.1	(s)	13.7	34.5	30.6	65.1
2003	0.0	11.2	6.2	0.5	3.5	10.2	1.0	0.1	(s)	14.3	36.9	31.5	68.4
2004	0.0	10.8	5.6 5.3	0.7	3.6	9.9 9.3	1.0	0.2 0.2	(s)	14.7	36.6	32.5	69.1 R 71.4
2005	0.0 R (s)	10.7	5.3	0.8	3.2	9.3	R 1.3 R 1.1	0.2	(s)	15.7	R 37.1 R 32.7	34.3	1 /1.4
2006 2007	(s)	9.4 10.4	4.1 3.7	0.6 0.3	2.7 2.8	7.4 6.8	1.3	0.2 0.2	(s) (s)	14.5 15.3	33.9	31.4 32.9	64.1 66.8
2001	(3)	10.7	5.7	0.5	2.0	0.0	1.5	0.2	(3)	10.0	55.5	02.0	00.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Delaware

					Petro	oleum				Biomass		5.1			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	8	1	572	114	31	13	1,812	2,542	0			361			
1965	6	1	636	85	51	11	2,081	2,864	0			536			
1970	3	3	785	51	73	24	1,736	2,670	0			889			
1975 1980	3 3	3 3	719 634	30 9	70 66	32 45	1,204 4,265	2,054 5,020	0			1,333 1,514			
1985	ა 5	3	373	51	105	38	4,265	638	0			1,698			
1990	18	4	401	10	101	35	178	725	0			2,361			
1995	1	6	282	2	152	8	131	575	0			2,900			
1996	4	7	383	6	161	8	221	779	0			2,970			
1997	5	7	338	16	173	8	194	729	0			3,124			
1998 1999	6	6	290 324	12 52	184 164	11 20	124 99	620 659	0			3,280 3,407			
2000	1	5	274	136	130	12	226	777	0			4.099			
2001	i	6	303	127	165	30	215	841	ŏ			3,667			
2002	0	7	339	4	176	11	214	744	0			3,847			
2003	0	8	293	7	172	11	272	756	0			3,886			
2004 2005	0	8 8	300 238	10 15	174 158	6 10	191 178	681 600	0			4,033 4,238			
2005	R (s)	8	283	27	R 131	7	164	R 611	0			4,236 4,196			
2007	(s)	9	239	11	136	7	107	499	ő			4,321			
								Trillion Btu							
1960	0.2	0.6	3.3	0.6	0.1	0.1	11.4	15.6	0.0	(s)	0.0	1.2	17.6	3.0	20.7
1965	0.1	1.4	3.7	0.5	0.2	0.1	13.1	17.5	0.0	(s)	0.0	1.8	20.9	4.4	25.2
1970	0.1	2.9	4.6	0.3	0.3	0.1	10.9	16.2	0.0	(s)	0.0	3.0	22.2	7.3	29.5
1975 1980	0.1 0.1	R 3.0	4.2 3.7	0.2 0.1	0.3 0.2	0.2 0.2	7.6 26.8	12.4 31.0	0.0 0.0	(s) 0.1	0.0 0.0	4.5 5.2	20.0 39.7	10.9 12.5	30.9 52.1
1985	0.1	3.4	2.2	0.1	0.4	0.2	0.4	3.5	0.0	0.1	0.0	5.8	12.9	13.3	26.3
1990	0.4	3.5 R 4.1	2.3	0.1	0.4	0.2	1.1	4.1	0.0	0.1	0.0	8.1	16.3	18.6	34.9
1995	(s) 0.1	5.9 6.9	1.6	(s)	0.5 0.6	(s)	0.8	3.1	0.0	0.2	0.0	9.9	19.2	22.5	41.7
1996	0.1	6.9	2.2	(s) 0.1	0.6	(s)	1.4	4.3	0.0	0.3	0.0	10.1	21.7	23.0	44.8
1997	0.1	6.8	2.0	0.1	0.6	(s)	1.2	3.9	0.0	0.2	0.0	10.7	21.8	24.1	46.0
1998 1999	0.2	5.9 6.5	1.7 1.9	0.1 0.3	0.7 0.6	0.1 0.1	0.8 0.6	3.3 3.5	0.0 0.0	0.2 0.2	0.0 0.0	11.2 11.6	20.8 21.9	25.4 26.6	46.1 48.5
2000	(s) (s)	5.3	1.6	0.8	0.6	0.1	1.4	3.5 4.3	0.0	0.2	0.0	14.0	23.9	31.8	55.7
2001	(s)	5.9	1.8	0.7	0.6	0.2	1.4	4.6	0.0	0.2	0.0	12.5	23.2	27.9	51.0
2002	0.0	7.9	2.0	(s)	0.6	0.1	1.3	4.0	0.0	0.2	0.0	13.1	25.2	29.3	54.4
2003	0.0	8.8	1.7	(s)	0.6	0.1	1.7	4.1	0.0	0.2	0.0	13.3	26.4	29.3	55.6
2004 2005	0.0	8.8 8.7	1.8	0.1	0.6 0.6	(s)	1.2	3.7 3.2	0.0	0.2 0.2	0.0 0.0	13.8 14.5	26.4 R 26.6	R 30.5 31.6	56.9 58.2
2005	0.0 R (s)	8.7	1.4 1.6	0.1 0.2		0.1	1.1 1.0		0.0 0.0		0.0	14.5 14.3	R 26.3	31.6	58.2 57.2
2007	R (s) (s)	9.0	1.4	0.2	0.5 0.5	(s) (s)	0.7	3.3 2.6	0.0	0.2 0.2	0.0	14.7	26.6	31.8	58.4

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Delaware

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	32 35	1	482	798	205	2,931	4,161	8,577	0			863			
1965 1970	35	6 12	715 794	1,165 1,753	144 92	2,785 2,643	5,130 4.088	9,939 9,370	0			1,373 2,527			
1970	27	7	1,079	2,154	63	1,878	4,066	9,370	0			2,527			
1980	184	13	616	2,744	35	1,808	5,424	10,628	0			2,439			
1985	217	22	473	293	54	649	3,989	5,457	Ő			2,693			
1990	215	17	516	363	48	736	6,051	7,715	ő			3,272			
1995	194	19	339	346	64	1,570	6,230	8,548	0			3,511			
1996	164	14	503	628	70	1,460	7,183	9,845	0						
1997	174	15	452	55	70	1,215	7,161	8,953	0			3,741			
1998	174	16	431 475	199	86	978	6,746	8,440	0			3,779			
1999 2000	148 179	21 25	475 485	20 140	77 58	1,169 1.437	6,893 5,949	8,635 8,069	0			3,613 3,601			
2000	179	20	596	251	99	1,342	7,041	9,330	0			3,978			
2002	99	18	613	115	113	1,159	7,311	9,311	0			4,151			
2003	100	15	498	247	117	647	7,553	9,062	0			4,523			
2004	119	16	468	192	132	775	7,315	8.882	Ö			3,423			
2005	117	15	573	_ 342	102	714	7,770	9,501 R 8,852	0			3,305			
2006	102	16	470	R 374	114	609	7,285	R 8,852	0			3,100			
2007	103	16	439	218	193	519	7,004	8,374	0			3,078			
							Tri	Ilion Btu							
1960	0.8	1.5	2.8	3.2	1.1	18.4	25.1	50.7	0.0	3.4	0.0		59.4	7.3	66.7
1965	0.9	6.6	4.2	4.7	0.8	17.5	31.1	58.2	0.0		0.0		74.8	11.2	86.0
1970	0.8	12.3	4.6	6.6	0.5	16.6	24.9	53.2	0.0		0.0		80.9	20.9	101.8
1975 1980	0.6 4.5	7.1 R 13.1	6.3 3.6	8.0 10.1	0.3 0.2	11.8 11.4	27.6 31.8	54.1 57.0	0.0 0.0		0.0 0.0		75.8 82.8	17.9 20.1	93.7 102.9
1985	5.4	22.1	2.8	1.1	0.2	4.1	24.4	32.6	0.0		0.0		69.2	20.1	90.3
1990	5.3	R 17.2	3.0	1.3	0.3	4.6	36.3	45.5	0.0		0.0		77.5	25.8	103.3
1995	4.9	20.1	2.0	1.3	0.3	9.9	36.8	50.2	0.0		0.0		87.5	27.2	114.7
1996	4.1	14.7	2.9	2.3	0.4	9.2	42.2	57.0	0.0	0.4	0.0	11.6	87.8	26.4	114.1
1997	4.4	15.3	2.6	0.2	0.4	7.6	42.0	52.8	0.0	0.4	0.0	12.8	85.7	28.9	114.7
1998	4.4	17.3	2.5	0.7	0.4	6.1	39.5	49.4	0.0	0.4	0.0	12.9	84.3	29.2	113.5
1999	3.7	22.5	2.8	0.1	0.4	7.4	40.3	50.9	0.0		0.0		89.8	28.2	118.0
2000	4.7	26.4	2.8	0.5	0.3	9.0	34.9	47.6	0.0		0.0		91.3	27.9	119.2
2001 2002	4.5	20.7	3.5	0.9	0.5	8.4	41.4	54.8	0.0		0.0		93.7	30.2	123.9
2002	2.6 2.6	18.5 15.8	3.6 2.9	0.4 0.9	0.6 0.6	7.3 4.1	43.3 44.4	55.1 52.9	0.0		0.0		90.4 86.8	31.6 34.1	122.0 120.9
2003	3.1	16.7	2.9	0.9	0.6	4.1	42.8	52.9 51.8	0.0		0.0		83.3	25.8	109.2
2004	3.1	15.8	3.3	1.2	0.7	4.5	45.5		0.0		0.0		85.4	24.7	110.1
2006	2.7	17.0	2.7	1.3	0.6	3.8	42.9	55.1 R 51.4	0.0	0.1	0.0		81.7	22.9	104.6
2007	2.7	16.4	2.6	0.8	1.0	3.3	41.1	48.7	0.0		0.0		78.5	22.7	101.1

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Delaware

						Pe	troleum					D-4-H			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	1	0	19	166	2,144	2	74	4,096	1,464	7,965	0	0			
1965	(s)	0	150	256	2,086	3	71	4,921	589	8,076	0	0			
1970	(s)	0	20	385	2,062	13	67	6,131	671	9,350	0	0			
1975 1980	(s) 0	0 0	15 10	510 963	1,654 1,573	36 14	52 64	6,973 6,533	961 812	10,201 9,970	0	0			
1985	0	(s)	16	1,264	1,569	5	58	7,464	232	10,608	0	0			
1990	0	(s)	78	1,342	1,306 R 76	6	65	7,929	900	11 625	0	0			
1995	0	(s)	53	1,493	R 76	5	62	8,398	1,030	R 11,117	0	0			
1996 1997	0	(s)	52	1,555 1,522	62 R 73	4	60 64	8,375 8,510	1,997 1,666	12,105 R 11,006	0	0			
1997	0	(s) (s)	64 55	1,522 1,519	R 87	3	67	8,982	1,372	R 11,906 R 12,085	0	0			
1999	Ö	(s)	15	1,398	105	2	67	9,163	1,743	12,493	Ő	Ŏ			
2000	0	(s)	20	2,151	104	2	66	8,928	1,635	12,908	0	0			
2001	0	(s)	62	1,384	129	(s) 3	61	9,170	1,304	12,110	0	0			
2002 2003	0	(s)	90 79	1,483 1,468	124 142	3 2	60 56	9,821 9,766	1,167 995	12,749 12,508	0	0			
2003 2004	0	(S)	79 75	1,400	166	3	56	9,766	988	12,810	0	0			
2005	Ö	(s)	136	1,662	167	4	56	10,418	1,090	13,533	R 264	Ŏ			
2006	0	(s)	140	1,683	144	4	55	10,706	1,150	13,882	R 780	0			
2007	0	(s)	138	1,660	113	2	56	10,834	1,243	14,047	970	0			
								Trillion Btu							
1960	(s)	0.0	0.1	1.0	11.5	(s)	0.5	21.5	9.2	43.7	0.0	0.0	43.7	0.0	43.7
1965	(s)	0.0	0.8	1.5 2.2	11.2	(s) 0.1	0.4	25.8	3.7	43.4 50.3	0.0	0.0	43.4	0.0	43.4
1970 1975	(s)	0.0 0.0	0.1 0.1	3.0	11.1 8.9	0.1 0.1	0.4 0.3	32.2 36.6	4.2 6.0	50.3 55.0	0.0 0.0	0.0 0.0	50.3 55.0	0.0 0.0	50.3 55.0
1980	(s) 0.0	0.0	0.1	5.6	8.4	0.1	0.3	34.3	5.1	54.0	0.0	0.0	55.0 54.0	0.0	54.0
1985	0.0	(s)	0.1	7.4	8.4	(s)	0.4	39.2	1.5	56.9	0.0	0.0	56.9	0.0	56.9
1990	0.0	(s)	0.4	7.8	7.0	(s)	0.4	41.6	5.7	63.0	0.0	0.0	63.0	0.0	63.0
1995	0.0	(s)	0.3	8.7	0.4	(s)	0.4	43.8	6.5	R 60.1	0.0	0.0	60.1	0.0	60.1
1996	0.0 0.0	(s)	0.3	9.1	0.4	(s)	0.4 0.4	43.7	12.6	66.3 R 64.9	0.0	0.0	66.3	0.0	66.3
1997 1998	0.0	(s) (s)	0.3 0.3	8.9 8.8	0.4 R 0.5	(s) (s)	0.4	44.4 46.8	10.5 8.6	R 65.5	0.0 0.0	0.0 0.0	64.9 R 65.5	0.0 0.0	64.9 R 65.5
1999	0.0	0.1	0.3	8.1	0.6	(s)	0.4	47.7	11.0	67.9	0.0	0.0	68.0	0.0	68.0
2000	0.0	0.1	0.1	12.5	0.6	(s)	0.4	46.5	10.3	70.4	0.0	0.0	70.5	0.0	70.5
2001	0.0	0.1	0.3	8.1	0.7	(s)	0.4	47.8	8.2	65.4	0.0	0.0	65.5	0.0	65.5
2002	0.0	0.1	0.5	8.6	0.7	(s)	0.4	51.1	7.3	68.7	0.0	0.0	68.8	0.0	68.8
2003 2004	0.0 0.0	0.1 0.1	0.4 0.4	8.6 9.3	0.8 0.9	(s) (s)	0.3 0.3	50.9 51.8	6.3 6.2	67.2 68.9	0.0 _ 0.0	0.0 0.0	67.3 69.0	0.0 0.0	67.3 69.0
2004	0.0	0.1	0.4	9.7	0.9	(S)	0.3	54.4	6.9	72.9	R 0.9	0.0	72.9	0.0	72.9
2006	0.0		0.7	9.8	0.8	(s)	0.3	55.9	7.2	74.8	R 2.8	0.0	74.8	0.0	74.8
2007	0.0	(s) (s)	0.7	9.7	0.6	(s)	0.3	56.5	7.8	75.7	3.4	0.0	75.7	0.0	75.7

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Delaware

				Petro	oleum		Nortee		Biomass				Electricity.	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965 1970 1975	737	3	40	8	0	48	0	0		0	0	0	0	
1965	1,055	5	84	17	0	100	0	0		0	0	0	0	
1970	1,497 905	4	1,537 6,176	307 135	1,240 237	3,084 6,547	0	0		0	0	0	0	
1975	905 942	2 7	5,831	187	470	6,488	0	0		0	0	0	0	
1985	2,543	7	2,650	101	351	3,102	0	0		0	0	0	0	
1990	2,056	11	1,991	110	1,410	3,510	ő	Ŏ		Ŏ	ŏ	Õ	Õ	
1995 1996	1,816	27 23	1,335	160	0	1,495	0	0		0	0	0	0	
1996	1,787	23	1,747	222	0	1,969	0	0		0	0	0	0	
1997	1,685	16	1,313	122	0	1,435	0	0		0	0	0	0	
1998	1,592	11	1,991	120	0	2,111	0	0		0	0	0	0	
1999 2000	1,244 1,755	20 8	1,846 872	213	0	2,059	0	0		0	0	0	0	
2000	1,755	0 15	2,160	261 221	0	1,133 2,381	0	0		0	0	0	0	
2002	1,541	17	1,058	221 182	0	1,240	0	0		0	0	0	0	
2003	1,787	12	1,659	531	0	2,190	0	0		0	0	0	0	
2003 2004	2,055	13	950	83	Ō	1,033	Ö	0		Ö	Ö	Ō	Ō	
2005	2.208	13	1,193	96	0	1 290	0	0		0	0	0	0	
2006	2,189	10	123	531 83 96 74 57	0	196	0	0		0	0	0	0	
2007	2,462	13	265	5/	0	322	0	0		0	0	0	0	
							Trillion E	Btu						
1960 1965	19.1	3.3	0.2	(s) 0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7
1965	27.8 36.2	4.8	0.5	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3
1970 1975 1980	36.2	3.8	9.7	1.8	7.5	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0
1975	22.2 23.5	1.8 7.3	38.8 36.7	0.8 1.1	1.4 2.8	41.0 40.6	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	65.1 71.3
1985	23.3 65.9	7.5	16.7	0.6	2.1	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.8
1985 1990	65.9 53.6	R 11.5	12.5	0.6	8.5	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.5
1995	47.5	27.9	8.4	0.9	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.7
1995 1996	46.5	24.2	11.0	0.9 1.3	0.0	9.3 12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0
1997	44.0	16.6	8.3	0.7	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.7
1998	41.3	10.8	12.5	0.7	0.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.3
1999	32.2	19.5	11.6	1.2	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.5
2000 2001	45.5 33.8	8.5 15.7	5.5 13.6	1.5	0.0 0.0	7.0	0.0 0.0	0.0 0.0	0.2 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	61.2
2001	38.0	17.8	6.7	1.5 1.3 1.1	0.0	14.9 7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4 63.4
2002	44.4	12.2	10.4	3.1	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.2
2003	50.5	13.5	6.0	0.5	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.4
2005	53.6	13.4	7.5	0.6	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0
2006	53.9	9.9	0.8	0.4	0.0	1.2	0.0	0.0	(s) 0.5	0.0	0.0	0.0	0.0	65.0
2007	61.1	14.0	1.7	0.3	0.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	77.6

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, District of Columbia

						Petroleum				Nuclean	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	1,051	13	2,894	, 0	2	4,957	2,428	292	10,573	0	3					
1965 1970	526 1,128	17 26	3,435 4,934	(s) (s)	2	5,469 5,688	6,749 11,144	194 119	15,850 21,889	0	3					
1975	418	26	3,157	Ó	4	5,748	4,174	190	13,273	0	i					
1980 1985	134 140	28	2,284 2,394	329 7	4	3,881 3,802	1,612 740	345 151	8,455 7,098	0	0					
1990	69	29 29	1,652	5	4	3,602 4,043	1,020	104	6.829	0	0					
1995	6	29 33	1,839	R 0	5	4,142	532	224	R 6,742	0	0					
1996 1997	23 40	34 34	2,004 1,474	0 R 0	6	3,862 4.066	337 160	187 307	6,396 R 6,015	0	0					
1998	6	30	1,284	R ₀	3	4,000	454	393	R 6,165	0	0					
1999	6	32	1,380	0	3	3,979	442	326	6,130	0	0					
2000 2001	7 30	33 30	1,710 1.660	0	7 5	4,070 3,890	210 285	340 293	6,337 6,134	0	0					
2002	4	33	2,131	0	3	3,927	0	88	6.149	0	0					
2003	7	33 33	1,859	0	5	3,497	0	77	5,437	0	0					
2004 2005	30 38	32 32	1,960 1,873	0	4	3,590 3,366	0	74 78	5,629 5,322	0	0					
2006	0	29 33	1,046	0	4	3,188	0	79	4,318	0	0					
2007	19	33	1,030	0	5	3,057	0	87	4,178	0	0					
								Trillion Btu								
1960 1965	27.8 13.8	13.0 17.3	16.9 20.0	0.0 (s)	(s) (s)	26.0 28.7	15.3 42.4	1.7 1.1	59.9 92.3	0.0 0.0	(s) (s)	0.1 0.1	0.0 0.0	19.1 35.6	0.0 0.0	119.9 159.2
1970	28.4	26.4	28.7	(s)	(s)	29.9	70.1	0.7	129.4	0.0	(s)	0.1	0.0	21.6	0.0	205.9
1975 1980	10.1	26.2 R 28.0	18.4	0.0	(s)	30.2	26.2	1.1	76.0 47.7	0.0	(s) 0.0	0.1	0.0	50.8	0.0	163.3
1980	3.3 3.5	29.3	13.3 13.9	1.9 (s)	(S)	20.4 20.0	10.1 4.7	2.0 0.9	47.7 39.5	0.0 0.0	0.0	2.8 3.3	0.0 0.0	71.7 90.6	(s) (s)	153.5 166.3
1990	1.7	29.1	9.6	(s)	(s)	21.2	6.4	0.6	38.0	0.0	0.0	1.3	(s) (s)	105.9	0.0	175.9
1995	0.1	33.2 34.2	10.7	R 0.0	(s)	21.6	3.3	1.3	37.0	0.0	0.0	1.9	(s)	112.2	0.0	184.4
1996 1997	0.6 1.0	34.2 34.8	11.7 8.6	0.0 R 0.0	(s)	20.1 21.2	2.1 1.0	1.1 1.8	35.1 R 32.6	0.0 0.0	0.0 0.0	1.9 1.4	(s) (s)	111.4 111.4	0.0	183.2 R 181.2
1998	0.2	31.2	7.5	R 0.0	(s)	21.0	2.9	2.3	R 33.6	0.0	0.0	1.2	(s)	111.1	0.0	R 177.4
1999	0.2	33.0 34.4	8.0	0.0	(s)	20.7	2.8	1.9	33.5 34.5	0.0	0.0	1.3	(s)	113.5 116.3	0.0	181.3
2000 2001	0.2 0.7	34.4 30.6	10.0 9.7	0.0 0.0	(S)	21.2 20.3	1.3 1.8	2.0 1.7	34.5 33.5	0.0 0.0	0.0 0.0	1.4 0.9	(s) (s)	110.3	0.0 0.0	186.7 183.4
2002	0.1	33.7	12.4	0.0	(s)	20.5	0.0	0.5	33.4	0.0	0.0	0.9	(s)	119.0	0.0	187.1
2003 2004	0.2 0.7	33.7 33.1	10.8 11.4	0.0 0.0	(s)	18.2 18.7	0.0 0.0	0.5 0.5	29.5 30.6	0.0 0.0	0.0 0.0	0.9 0.9	(s)	118.7 124.4	0.0 0.0	183.0 189.8
2004	0.7	33.1	11.4	0.0	(S)	17.6	0.0	0.5	30.6 29.0	0.0	0.0	R11	(s) (s)	124.4	0.0	R 190.1
2006	0.0	29.8	6.1	0.0	(s)	16.6	0.0	0.5	23.2	0.0	0.0	R 1.0	(s) (s)	121.6	0.0	175.6
2007	0.5	33.9	6.0	0.0	(s)	16.0	0.0	0.5	22.5	0.0	0.0	1.1	(s)	129.3	0.0	187.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, District of Columbia

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	l Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	79	9	1,314	67	1	1,382	6			429			
1965	59	11	1,241	43	1	1,285	4			578			
1970	22	14	1,622	21	1	1,644	5			830			
1975	5	13	1,161	7	1	1,169 755	6			909			
1980 1985	23 31	14	749 553	5	1	755 564	139 162			1,085 1,233			
1905	14	17 15	178	10	1	182	58			1,480			
1995	14	16	284	6	2	292	81			1,608			
1996	3	17	302	6	2	310	84			1,614			
1997	4	16	258	6	2	266	59			1,554			
1998	i	13	258 235	6	2	243	59 52 55 59			1,596			
1999	1	14	209	5	2	216	55			1.643			
2000	1	15	218	3	1	222	59			1,624			
2001	3	13	199	(s)	2 2	201	37			1,699			
2002	(s)	14	352	(s)		354	37			1,790			
2003	1	15	352	(s)	2	354	39			1,754			
2004	3	14	387	(s)	2	389	40			1,834			
2005	3	14	351	(s)	2	353	R 47			1,938			
2006	0	11 13	183 205	0	2 2	185 207	R 43 47			1,822			
2007	2	13	205	0						1,970			
						Т	rillion Btu						
1960	2.0 1.5	9.0	7.7 7.2	0.4 0.2	(s)	8.0 7.5	0.1	0.0	0.0	1.5 2.0	20.6	3.6 4.7	24.3
1965	1.5	11.1	7.2	0.2	(s)	7.5	0.1	0.0	0.0	2.0	22.1	4.7	26.8
1970	0.5	14.1	9.4	0.1	(s)	9.6	0.1	0.0	0.0	2.8	27.2	6.9	34.0
1975	0.1	13.3	6.8	(s)	(s)	6.8	0.1	0.0	0.0	3.1	23.5	7.5	30.9
1980 1985	0.6	13.8 16.9	4.4 3.2	(s) 0.1	(s)	4.4 3.3	2.8 3.2	0.0 0.0	0.0	3.7 4.2	25.2 28.4	8.9 9.7	34.1
1985	0.8	16.9	3.2		(s)	3.3	3.2	0.0	0.0	4.2	28.4	9.7	38.1
1990	0.3	15.3	1.0	(s)	(s)	1.1	1.2	0.0	(s)	5.1	22.9	11.7	34.5
1995	(s) 0.1	15.8	1.7	(s)	(s)	1.7	1.6	0.0	(s)	5.5	24.6	12.5	37.1
1996 1997	0.1	17.4 16.1	1.8 1.5	(s)	(s)	1.8 1.5	1.7 1.2	0.0 0.0	(s)	5.5 5.3	26.5 24.3	12.5 12.0	39.0 36.3
1997		13.6		(s) (s)	(S) (S)	1.5		0.0	(5)	5.3 5.4	24.3 21.5	12.0	30.3 22.0
1999	(s) (s)	14.4	1.4 1.2	(S)	(S)	1.4 1.3	1.0 1.1	0.0 0.0	(s)	5.6	22.4	12.8	33.9 35.2
2000	(S)	15.9	1.3	(s)	(s)	1.3	1.2	0.0	(5)	5.5	23.9	12.6	36.5
2001	(s) 0.1	13.3	1.2	(s)	(s)	1.2	0.7	0.0	(3)	5.8	21.1	12.9	34.0
2002	(s)	14.6	2.0	(s)	(s)	2.1	0.7	0.0	(s)	6.1	23.5	13.6	37.1
2003	(s) (s) 0.1	15.6	2.0	(s)	(s)	2.1	0.8	0.0	(s)	6.0	24.4	13.2	37.6
2004	0.1	14.7	2.3	(s)	(s)	2.3	0.8	0.0	(s)	6.3	24.1	13.8	37.9
2005	0.1	14.6	2.0		(s)	2.0	0.9	0.0	(s)	6.6	24.2	14.5	38.7
2006	0.0	11.7	1.1	(s) 0.0	(s)	1.1	0.9 R 0.9	0.0	(s)	6.2 6.7	19.8	13.4	R 33.3
2007	(s)	13.7	1.2	0.0	(s)	1.2	0.9	0.0	(s)	6.7	22.6	14.5	37.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not egual sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, District of Columbia

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	55	4	1,060	34	(s)	85	1,443	2,621	0			955			
1965	45	6	1,001 1,308	22	(s) (s)	78 65	4,044	5,144	0			1,359			
1970 1975	18	12 12	1,308 936	10		65	5,081	6,464 2,068	0			1,935			
1975 1980	11 86	12 14	936 647	4 1	(s) (s)	78 40	1,051 37	2,068 725	0			2,355 2,457			
1985	109	12	836	55	(S)	27	286	1,205	0			4,317			
1990	56	13	596	8	(s)	71	218	893	0			5,250			
1995	5	17	830	129	(s)	101	130	1,190	Ŏ			8,275			
1996	20	16	961	101	(s)	20	96	1.178	0			8,108			
1997	36	18	506	202	(s)	49	34	792	0			8,132			
1998	5	17	318	293	(s)	170	4	786	0			8,261			
1999	5	18	335	227	(s)	22	2	587	0			8,354			
2000	6	18 17	561 541	243 207	(s)	54 253	1	859	0			8,540			
2001 2002	27 4	17	541 296	207 (s)	(s)	253 511	0	1,003 807	0			8,716 8,878			
2002	6	17	371	(S)	(s) (s)	243	0	616	0			8,639			
2003	27	17	457	1	(s)	178	0	637	0			8,994			
2005	35	18	404	3	(s)	246	ő	653	0			9,296			
2006	0	17	348	3	(s)	66	Ö	417	0			9,030			
2007	17	19	304	1	(s)	24	0	330	0			9,519			
								Trillion Btu							
1960	1.4	3.7	6.2	0.2	(s)	0.4	9.1	15.9	0.0	(s)	0.0	3.3 4.6	24.2	8.1	32.3
1965	1.1	6.0	5.8	0.1	(s)	0.4	25.4	31.8	0.0	(s)	0.0	4.6	43.5	11.1	54.6
1970	0.4	11.8	7.6	0.1	(s)	0.3	31.9	40.0	0.0	(s)	0.0	6.6	58.8	16.0	74.8
1975	0.2	12.4	5.5	(s)	(s)	0.4	6.6	12.5	0.0	(s) 0.1	0.0	8.0	33.2	19.3	52.5
1980	2.1	13.8	3.8	(s)	(s)	0.2	0.2	4.2	0.0		0.0	8.4	28.6	20.2	48.8
1985	2.7	12.1	4.9 3.5	0.3	(s)	0.1	1.8	7.1	0.0	0.1	0.0	14.7	36.8	33.9	70.7
1990	1.4	13.6	3.5	(s) 0.7	(s)	0.4	1.4	5.3	0.0	0.1	0.0	17.9	38.3	41.4	79.7
1995 1996	0.1 0.5	17.1 16.5	4.8 5.6	0.7	(s) (s)	0.5 0.1	0.8 0.6	6.9 6.9	0.0 0.0	0.2 0.2	0.0 0.0	28.2 27.7	52.6 51.8	64.1 62.9	116.7 114.7
1997	0.9	18.4	2.9	1.1	(s)	0.3	0.0	4.6	0.0	0.2	0.0	27.7	51.8	62.9	114.7
1998	0.1	17.3	1.9	1.7	(s)	0.9		4.4	0.0	0.2	0.0	28.2	50.2	63.9	114.2
1999	0.1	18.2	2.0	1.3	(s)	0.1	(s) (s)	3.4	0.0	0.2	0.0	28.5	50.4	65.2	115.6
2000	0.2	18.2	3.3	1.4	(s)	0.3	(s)	4.9	0.0	0.2	0.0	29.1	52.6	66.3	118.9
2001	0.7	17.0	3.2	1.2	(s)	1.3	(s) (s)	5.7	0.0	0.1	0.0	29.7	53.2	66.3	119.4
2002	0.1	18.8	1.7	(s)	(s)	2.7	0.0	4.4	0.0	0.1	0.0	30.3	53.7	67.5	121.2
2003	0.2	17.6	2.2	(s)	(s)	1.3	0.0	3.4	0.0	0.1	0.0	29.5	50.8	65.0	115.8
2004	0.7	17.9	2.7	(s)	(s)	0.9	0.0	3.6	0.0	0.1	0.0	30.7	52.9	67.9	120.8
2005	0.9	18.6	2.4	(s)	(s)	1.3	0.0	3.7	0.0	0.1	0.0	31.7	55.0	69.4	R 124.4
2006 2007	0.0 0.4	17.5 19.6	2.0 1.8	(s)	(s)	0.3 0.1	0.0 0.0	2.4 1.9	0.0 0.0	0.1 0.1	0.0 0.0	30.8 32.5	50.9 54.5	66.6 70.1	117.5 124.6
2007	0.4	19.0	1.8	(s)	(s)	0.1	0.0	1.9	0.0	0.1	0.0	3∠.5	54.5	70.1	124.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, District of Columbia

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste f,g	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	463	(s)	211	1	0		80	1,241	0			1,237			
1965	129	(s)	316	1	0		70	3,076	0			1,836			
1970 1975	414 292	(s)	377 150	2		3,296 686	35 132	3,710 970	0			2,627 2,532			
1975	292	(s) (s)	192	3			285	534	0			3,356			
1985	0	(3)	40	2		1	37	139	0			2,534			
1990	0		2	2		i	38	133	0			2,976			
1995	0		16	3	44	(s)	33	95	Ö			262			
1996	0		18	3		(s)	33 29 42	89	0			252			
1997	0		21	4	56		42	121	0			262			
1998	0		17	1	27	0	36	81	0						
1999 2000	0	0	140 34	1 5	18 23	0	34	194 98	0			249 273			
2000	0		36 36	3	126	(s) 0	36 33	197	0						
2002	0		69	1	96	0	34	201	0			282			
2003	Ö		94	2		Ö	27	284	ő						
2004	0		47	2	133	Ō	25	207	Ö			282			
2005	0		39	1	112	0	24	177	0			256			
2006	0		42	1	112		24	179	0						
2007	0	0	49	2	55	0	32	138	0			297			
							Tr	illion Btu							
1960	12.0	0.2	1.2	(s) (s)	0.0	6.0	0.5	7.7	0.0	0.0	0.0	4.2	24.0	10.4	34.5
1965	3.3	0.3	1.8		0.0	16.9	0.4	19.2	0.0		0.0		29.0	15.0	44.0
1970	10.0	0.4	2.2	(s)	0.0	20.7	0.2	23.1	0.0		0.0		42.6	21.7	64.3
1975	7.0	0.4	0.9	(s)	0.0	4.3	0.8	6.0	0.0		0.0		22.0	20.8	42.8
1980 1985	0.6 0.0	0.4 0.0	1.1	(s)	0.0 0.3	0.3	1.6 0.2	3.1 0.8	0.0	0.0 0.0	0.0		15.5 9.4	27.6 19.9	43.1 29.4
1905	0.0	0.0	0.2 (s)	(s) (s)	0.5	(s) (s)	0.2	0.6	0.0		0.0		10.9	23.5	34.4
1995	0.0	0.0	0.1	(s)	0.3		0.2	0.7	0.0		0.0		1.4	2.0	3.5
1996	0.0	0.0	0.1	(s)	0.2	(s)	0.2	0.5	0.0		0.0	0.9	1.4	2.0	3.3
1997	0.0	0.0	0.1	(s)	0.3	0.0	0.3	0.7	0.0		0.0		1.6	2.0	3.6
1998	0.0	0.0	0.1	(s)	0.1	0.0	0.2	0.5	0.0	0.0	0.0	0.9	1.4	2.0	3.4
1999	0.0	0.0	0.8	(s)	0.1	0.0	0.2	1.1	0.0		0.0		2.0	1.9	3.9
2000	0.0	0.0	0.2	(s)	0.1	(s)	0.2	0.6	0.0	0.0	0.0		1.5	2.1	3.6
2001	0.0	0.0	0.2	(s)	0.7	0.0	0.2	1.1	0.0	0.0	0.0		2.0	2.1	4.2 4.2
2002 2003	0.0 0.0	0.0	0.4 0.5	(s)	0.5	0.0	0.2 0.2	1.1	0.0 0.0	0.0	0.0		2.1 2.5	2.1 2.0	4.2
2003	0.0	0.0	0.5	(s) (s)	0.8 0.7	0.0	0.2	1.6 1.1	0.0		0.0 0.0		2.5	2.0	4.5 4.2
2004	0.0	0.0	0.2	(s)	0.7	0.0	0.2	1.0	0.0		0.0		1.8	1.9	3.8
2005	0.0	0.0	0.2	(s)	0.6		0.2	1.0	0.0		0.0		1.8	1.8	3.6
2007	0.0		0.2 0.3	(s) (s)	0.3	0.0	0.2	0.8	0.0	0.0	0.0		1.8	2.2	4.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

C Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, District of Columbia

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960 1965 1970	. 8	(s) 0	0	305 874	,0	(s) (s)	112	4,872	28	5,317	0	32			
1965	(s)	(0)	0	874 492	(s)	(S)	59 53	5,391	6	6,331	0	0			
1970	(s)	(s) (s)	0	492 820	(s) 0	(s)	46	5,623 5,670	13 350	6,182 6,887	0	0			
1975 1980	(5)	(5)	0	587	329	(s)	54	3,841	59	4,870	0	106			
1985	Ö		Ö	898	7	1	49	3,716	202	4,873	(s)	130			
1990	0	(s) (s)	0	804	_ 5	1	49 55	3,882	3	4.750	0	142			
1995	0	(s)	4	634	RÕ	1	53 51	3,997	0	R 4,688	0	170			
1996	0	(s)	(s) 3	674	R 0	1	51	3,803	0	4,529	0	163			
1997 1998	0	(s) (s)	3	619 598	R ₀	1	54 56 57 56	3,962 3,833	0 0	R 4,639 R 4,490	0	158 162			
1990	0	(S)	3	588	0	(s) (s)	50 57	ა,იაა ვ ე ვგ	0	4,490	0	172			
1999 2000	0	(s)	2	728	0	(3)	56	3,938 3,993	0	4,586 4,779	0	179			
2001	Ö	(s)	2	832	Ö	(s)	51	3,511		4,396	Ö	185			
2002	0	(s)	2	794	0	(s)	51	3,320	(s) 0	4,167	0	179			
2003	0	`1	2	852	0	(s)	47	3.093	0	3,994	0	285			
2004	0	1	(s) 4	938	0	(s)	48	3,280	0	4,266	_B 0	304			
2005 2006	0	1		541 242	0	1	47	3,007	0	3,600	R 55 R 154	326 305			
2006	0	1	6 6	242 274	0	(s) (s)	46 48	3,010 2,978	0 0	3,306 3,307	191	305			
								Trillion Btu							
1960 1965	0.2 (s)	(s) 0.0	0.0	1.8 5.1	0.0 (s)	(s)	0.7	25.6	0.2	28.2 33.8	0.0	0.1	28.5	0.3	28.8
1965	(s)	0.0	0.0	5.1	(s)	(s) (s)	0.4	28.3	(s) 0.1	33.8	0.0	0.0	33.8	0.0	33.8
1970	(s)	(s) (s)	0.0	2.9 4.8	(s) 0.0	(s)	0.3	29.5	0.1	32.8	0.0	0.0	32.8 37.1	0.0	32.8
1975	(s) 0.0 0.0	(s)	0.0	4.8	0.0	(s)	0.3	29.8	2.2	37.0	0.0	0.0	37.1	0.0	37.1
1980 1985	0.0	0.0 0.4	0.0 0.0	3.4 5.2	1.9 (s)	(s) (s)	0.3 0.3	20.2 19.5	0.4 1.3	26.2 26.4	0.0 (s) 0.0	0.4 0.4	26.5 27.2	0.9 1.0	27.4 28.2
1990	0.0	0.4	0.0	5.2 4.7	(S) (S)	(S)	0.3	20.4	(s)	25.5 25.5	(S)	0.4	26.2	1.0	27.3
1995	0.0	0.3	(s)	4.7 3.7	R 0.0	(s)	0.3	20.4	0.0	24.9	0.0	0.6	26.2 R 25.7	1.3	27.1
1996	0.0	0.3	(s) (s)	3.9	0.0	(s)	0.3	19.8	0.0	24.1	0.0	0.6	24.9	1.3	26.2
1997	0.0	0.3 0.3	(s)	3.9 3.6	R 0.0	(s)	0.3	20.7	0.0	R 24.6	0.0	0.5	R 25.4	1.3 1.2	26.2 R 26.7
1998 1999	0.0	0.3	(s) (s)	3.5 3.4	R 0.0	(s)	0.3 0.3	20.0 20.5	0.0	R 23.8 24.3	0.0	0.6	24.9 R 25.4 R 24.7	1.3	R 25.9 26.5
1999	0.0	0.3		3.4	0.0	(s)	0.3	20.5	0.0	24.3	0.0	0.6	25.2	1.3	26.5
2000	0.0	0.3	(s)	4.2	0.0	(s)	0.3	20.8	0.0	25.4	0.0	0.6	26.3	1.4	27.7
2001 2002	0.0 0.0	0.3 0.3	(s)	4.8 4.6	0.0	(s)	0.3 0.3	18.3 17.3	(s) 0.0	23.5 22.2	0.0 0.0	0.6 0.6	24.4 23.2	1.4 1.4	25.8 24.5
2002	0.0	0.3	(s) (s)	4.6 5.0	0.0 0.0	(s) (s)	0.3	16.1	0.0	21.4	0.0	1.0	23.2	2.1	24.5 25.1
2003	0.0	0.6	(s)	5.5	0.0	(s)	0.3	17.1	0.0	21.4		1.0	24.5	2.3	26.8
2005	0.0	0.6	(s)	3.1	0.0	(s)	0.3	15.7	0.0	22.9 19.1	0.0 R 0.2	1.1	20.8	2.4	23.3
2006	0.0	0.5	(s) (s)	1.4	0.0	(s) (s)	0.3	15.7	0.0	17.4	R 0.5	1.0	19.0	2.2 2.4	21.3
2007	0.0	0.6	(s)	1.6	0.0	(s)	0.3	15.5	0.0	17.5	0.7	1.1	19.1	2.4	21.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, District of Columbia

				Petro	leum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kil	owatthours		Total ^{f,i}
1960 1965 1970	446 293 673	0 0 0	9 10 2,755	4 4 1,135	0 0	12 14 3,889	0	3 3		0 0	0 0	0	0 0 0	
1975 1980 1985	111 0	0 0 0	2,088 1,462 250	90 109 66	0 0 0	2,178 1,572 316	0	1 0		0 0 0	0	0	0 0 0	
1990 1995 1996	0 0 0	0 0	798 402 241	72 75 49	0 0 0	871 477 290	0 0 0	0 0 0	 	0 0 0	0 0 0	0 0 0	0 0 0	
1997 1998 1999	0 0 0	0 0 0	126 450 440	71 116 107	0 0 0	197 566 547	0 0 0	0 0 0	 	0 0 0	0 0 0	0 0 0	0 0 0	
2000 2001 2002	0 0 0	0 0	209 284 0	169 52 620	0 0 0	379 336 620	0 0 0	0 0 0	 	0 0 0	0 0 0	0 0 0	0 0 0	
2003 2004 2005 2006	0 0 0	0 0 0	0 0 0	190 130 540 231	0 0 0	190 130 540 231	0	0 0 0	 	0 0 0	0 0 0	0 0	0 0 0	
2007	Ö	0	Ö	197	Ö	197	Trillion E	0		Ö	Ö	Ö	0	
1960	12.2	0.0 0.0	0.1	(s)	0.0	0.1	0.0	(s) (s)	0.0	0.0	0.0	0.0	0.0	12.4 8.0
1965 1970 1975 1980	7.9 17.4 2.8 0.0	0.0 0.0 0.0 0.0	0.1 17.3 13.1 9.2	(s) 6.6 0.5 0.6	0.0 0.0 0.0 0.0	0.1 23.9 13.6 9.8	0.0 0.0 0.0 0.0	(s) (s) (s) 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	41.4 16.5
1985 1990 1995	0.0 0.0 0.0	0.0 0.0 0.0	1.6 5.0 2.5	0.4 0.4 0.4	0.0 0.0 0.0	2.0 5.4 3.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	9.8 2.0 5.4 3.0 1.8
1996 1997 1998	0.0 0.0 0.0	0.0 0.0 0.0	1.5 0.8 2.8	0.3 0.4 0.7	0.0 0.0 0.0	1.8 1.2 3.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	1.8 1.2 3.5 3.4
1999 2000 2001 2002	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	2.8 1.3 1.8 0.0	0.6 1.0 0.3 3.6	0.0 0.0 0.0 0.0	3.4 2.3 2.1 3.6	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	2.3 2.1 3.6
2002 2003 2004 2005	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	1.1 0.8 3.1	0.0 0.0 0.0	1.1 0.8 3.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	1.1 0.8 3.1
2006 2007	0.0 0.0	0.0 0.0	0.0 0.0	1.3 1.1	0.0 0.0	1.3 1.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1.3 1.1

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Florida

						Petroleum				Martage	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003	1,104 2,323 5,131 5,779 9,543 19,305 25,512 28,223 30,551 30,842 29,368 31,100 29,927 29,345 29,450	138 185 337 280 317 290 328 561 534 522 504 559 542 543 689 690	8,621 12,279 15,639 23,387 29,431 31,906 35,310 39,733 38,333 41,584 43,644 46,011 47,692 49,243 50,084 53,719	9,482 17,525 23,840 24,224 35,911 23,101 31,958 28,045 29,345 R 30,520 R 28,508 28,977 35,134 30,658 27,035 25,653	4,936 5,663 7,828 7,478 10,718 9,932 7,744 7,796 8,081 5,839 6,269 7,170 7,386 7,170 6,047 6,259	43,148 53,136 76,254 100,592 109,279 125,346 142,351 157,657 159,028 161,878 169,201 173,543 178,336 181,063 188,082	30,199 43,344 53,642 79,315 96,756 37,777 54,283 47,245 47,414 49,697 70,590 63,926 65,253 69,088 55,210 53,424	13,050 14,590 13,340 9,300 11,223 14,420 13,060 12,029 18,485 20,003 21,705 21,735 20,398 15,447 18,928 20,798	109,435 146,537 190,543 244,296 293,318 242,481 284,708 292,505 300,686 R 309,521 R 339,916 341,362 354,199 352,669 345,386 R 351,432	0 0 0 8.370 16,737 23,461 21,780 28,741 25,470 22,968 31,115 31,526 32,291 31,583 33,704	278 298 292 234 215 244 175 231 216 241 199 140 87 148					
2004 2005 2006 2007	28,689 27,672 28,883 29,923	734 778 892 917	57,724 60,982 62,235 55,874	29,246 27,891 27,631 31,161	7,498 6,979 7,152 6,254	201,705 207,482 210,006 208,744	62,471 61,033 40,915 38,786	24,026 25,777 25,407 20,484 Trillion Btu	382,670 390,144 373,348 361,302	31,216 28,759 31,426 29,289	265 266 203 154	 	 	 	=======================================	
1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	27.2 55.2 116.7 133.5 225.5 472.4 633.4 686.9 745.8 751.3 749.5 716.3 760.4 725.9 719.7 723.8 699.1 672.3 696.2 720.8	142.9 191.7 350.6 292.1 329.6 305.1 342.0 579.3 561.1 547.2 529.6 583.4 574.5 569.8 705.9 720.3 755.5 814.0 916.6 950.3	50.2 71.5 91.1 136.2 171.4 185.9 205.7 231.4 223.3 242.2 254.2 268.0 277.8 286.8 291.7 312.9 336.2 355.2 362.5	51.5 97.2 133.2 135.7 201.6 129.2 179.6 159.0 166.4 173.0 R 161.6 164.3 199.2 173.8 153.3 145.5 165.8 158.1	19.8 22.7 29.6 27.8 39.4 35.8 28.1 28.2 29.2 21.1 22.7 25.9 26.6 25.9 21.8 22.7 27.1 25.3 25.8 22.5	226.7 279.1 400.6 528.4 574.0 658.4 747.8 822.2 829.5 843.9 904.3 929.1 943.3 979.5 997.5 1,081.9 1,082.6	189.9 272.5 337.2 498.7 608.3 237.5 341.3 297.0 298.1 312.4 443.8 401.9 410.2 434.4 347.1 335.9 392.8 383.7 257.2 243.8	74.8 83.6 77.7 55.3 67.1 87.4 79.8 73.9 107.7 115.2 125.7 125.3 117.4 93.7 114.8 125.8 146.1 156.2	612.8 826.6 1,069.4 1,382.0 1,661.9 1,334.1 1,582.1 1,611.8 1,654.1 R 1,707.9 R 1,889.9 1,889.8 1,960.5 1,988.0 1,908.3 1,940.3 2,119.9 2,161.2 2,053.4 1,983.5	0.0 0.0 0.0 92.2 182.6 249.2 230.5 302.0 267.5 241.0 336.8 330.0 351.8 322.8 325.5 307.2	3.0 3.1 3.1 2.4 2.2 2.5 1.8 2.4 2.2 2.5 2.0 1.4 0.9 1.5 1.9 2.7 2.7 2.7 2.7 2.7	32.7 36.8 48.0 47.6 87.8 108.1 170.3 186.3 206.0 196.9 171.7 171.7 R 164.2 127.3 144.1 157.6 149.0 R 153.2 R 158.1 162.6	0.0 0.0 0.0 0.0 0.0 0.0 27.5 32.6 33.2 33.3 32.9 32.0 31.7 31.2 31.8 32.8 35.5 38.9	-8.1 2.1 -6.4 -4.7 36.0 238.3 309.9 252.3 287.4 298.1 220.9 253.2 313.2 354.5 356.3 363.3 416.8 416.6 437.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	810.5 1,115.5 1,581.4 1,945.1 2,525.5 2,713.6 3,298.1 3,653.6 3,757.5 3,778.2 R3,923.4 4,098.6 4,219.3 4,275.5 4,447.3 R4,553.1 R4,606.2 4,606.2 4,601.9

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Florida

				Petro	ieum		Biomass			D			
[Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	0	6	541	3,150	3,458	7,149	436			7,258			
1965	0	8	976	3,001	4,095	8,073	292			12,283			
1970	0	15	1,010	2,414 724	5,698	9,121	373			24,610			
1975	0	15	1,097	724	5,157	6,977	481			34,756			
1980 1985	2	15 14	1,215	774	4,434 5,994	6,422	2,290 2,942			44,746			
1985 1990	24	14 13	634 277	864	5,994 4,989	7,492	1,266			54,118			
1990	(0)	13 15	228	154 211	4,989 3,944	5,421 4,382	487			71,115 85,770			
1995	(s) (s)	16	213	264	4,030	4,507	505			88,315			
1997	(3)	13	145	202	3,992	4,340	319			87,845			
1998	1	14	109	167	4,455	4,731	284			95,768			
1999	1	14	101	161	4.433	4,695	298			93,846			
2000	1	15	119	99	4,387	4,605	321			99,006			
2001	7	16	122	91	3,663	3,876	238			101,377			
2002	1	15	94	63	3,965	4,122	242			108,164			
2003	1	16	111	97	3,872	4,080	254			112,650			
2004	,0	16	127	95	5,193	5,414	261			112,203			
2005	(s)	16	99	82	4,138 R 3,942	4,318 R 4,080	R 110 R 100			115,791			
2006 2007	(s)	16 15	84 50	54 20	3,827	3,898	111			117,053 117,816			
2007	(s)	15	50	20	3,021	· · · · · · · · · · · · · · · · · · ·				117,010			
						Tı	rillion Btu						
1960	0.0	6.6	3.2	17.9	13.9	34.9	8.7	0.0	0.0	24.8	75.0	61.2	136.2
1965	0.0	8.4	5.7	17.0	16.4	39.1	5.8	0.0	0.0	41.9	95.3	100.1	195.4
1970 1975	0.0 0.0	15.3 16.4	5.9 6.4	13.7	21.5	41.1	7.5 9.6	0.0 0.0	0.0 0.0	84.0 118.6	147.8 174.2	203.2 285.2	351.1 459.4
1975	0.0	16.2	6. 4 7.1	4.1 4.4	19.2 16.3	29.6 27.8	9.6 45.8	0.0	0.0	152.7	174.2 242.5	285.2 368.0	459.4 610.5
1985	0.6	15.0	3.7	4.4	21.6	30.2	58.8	0.0	0.0	184.7	289.3	425.3	714.6
1990	(s)	14.1	1.6	0.9	18.1	20.6	25.3	1.1	26.2	242.6	330.0	561.1	891.1
1995	(s)	15.6	1.3	1.2	14.3	16.8	9.7		31.0	292.6	367.1	664.6	1.031.7
1996	(s)	15.6 18.2	1.3 1.2	1.2 1.5	14.6	17.3	9.7 10.1	1.4 1.5	31.4	301.3	379.8	685.2	1,031.7 1,065.0
1997	(s) 0.0	13.9	0.8	1.1	14.4	16.4	6.4	1.6	31.3	299.7	369.3	679.1	1,048.4
1998	(s)	14.9	0.6	0.9	16.1	17.7	5.7	1.6	31.2	326.8	397.8	741.0	1.138.8
1999	(s)	14.4	0.6	0.9	16.0	17.5	6.0	1.6	30.8	320.2	390.6	732.4	1,123.0
2000	(s) 0.2	16.8	0.7	0.6	15.8	17.1	6.4	1.6	29.9	337.8	409.6	768.4	1,178.0
2001	0.2	16.6	0.7	0.5	13.2	14.5	4.8	1.9	29.3	345.9	413.0	770.8	1,183.8
2002	(s)	15.4	0.5	0.4	14.3	15.2	4.8	2.0	28.6	369.1	435.2	822.7	1,257.8
2003	(s) 0.0	17.1	0.6	0.5	14.1	15.2	5.1	2.6	28.1	384.4	452.5	848.1	1,300.7 R 4 200.2
2004 2005		16.3 17.7	0.7 0.6	0.5 0.5	18.8	20.1	5.2 R 2.2	2.9 3.3	28.0 28.4	382.8 395.1	455.2 R 462.6	847.1 864.1	R 1,302.3
2005	(s) (s)	16.0	0.6	0.5	15.0 R 14.2	16.0 R 15.0	R 2.2	3.3 3.8	30.4	395.1	R 466.7	863.6	R 1 330 3
2007	(s)	16.3	0.3	0.3	13.7	14.2	2.2	4.6	33.0	402.0	472.2	867.3	1,300.7 R 1,302.3 R 1,326.8 R 1,330.3 1,339.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Florida

Coal						Petro	oleum				Biomass		B . "			
Thousand Post Thousand Post Thousand Post Thousand Post Thousand Post P		Coal			Kerosene	LPG ^b	Motor Gasoline ^C		Total ^d		Weed					
1995 0 13 1,981 166 723 712 1,008 5,190 0 9,389 1975 0 27 2,049 134 1,005 1,382 1,467 6,038 0 16,244 1975 0 32 2,226 40 910 1,038 1,555 5,769 0 22,904 1985 8 30 1,926 28 782 1,340 1,476 5,552 0 27,422 1985 86 31 4,083 1,047 1,058 1,388 2,170 9,726 0 41,280 41,280 1985 1 4 38 3,383 1,25 880 1,1047 1,058 1,386 2,170 9,726 0 41,280 41,280 1985 1 4 38 3,383 1,25 880 1,1047 1,068 1,388 2,170 9,726 0 41,280 66,285 1996 1 4 38 3,373 1,285 1,381 1,383	Year					Thousar	nd Barrels				and	Geothermal f		Net Energy ^{f,h}	Energy	Total f,h
1970 0 27 2,049 134 1,005 1,382 1,467 6,038 0 16,244 1970 0 32 2,226 40 910 1,038 1,555 5,79 0 16,244 1980 8 30 1,926 28 782 1,340 1,476 5,552 0 77,422 1980 8 31 4,083 1,047 1,058 1,382 2,770 9,726 0 74,422 1990 4 36 3,853 1,047 1,058 1,382 2,770 9,726 0 55,769 1990 4 36 3,853 1,25 880 1,412 2,265 8,636 0 55,769 1996 1 4 40 2,944 95 656 100 138 3,973 0 66,2255 1996 1 4 40 2,944 95 656 100 138 3,973 0 66,2255 1996 1 4 47 2,120 106 711 100 99 3,138 0 66,2255 1998 1 4 4 5 5 656 100 138 3,973 0 66,2255 1998 1 5 37 1,763 5 5 766 27 10 2,931 0 0 66,2255 1998 6 38 8 1,801 61 782 251 13 2,208 0 0 74,770 2001 5 3 48 2,264 28 774 30 3 15 3,761 0 77,790 2001 5 3 48 2,264 28 774 30 3 15 3,761 0 77,790 2001 5 3 49 3,037 25 646 243 15 3,965 0 79,455 2002 9 56 2,588 16 700 397 71 3,751 0 85,277 2003 7 54 2,261 19 683 260 17 3,641 0 85,277 2004 0 56 3,980 20 916 281 117 5,315 0 85,277 2004 0 56 3,980 20 916 281 117 5,315 0 88,410 85,277 2006 (s) 51 3,732 17 78,666 446 82 R,972 0 89,410 80,765 2006 (s) 51 3,732 17 78,666 446 82 R,972 0 89,410 89,410 80,775 1 0 89,410 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410 80,775 1 0 89,410		0	7	1,097	175		685	2,126	4,693	0			5,586			
1975 0 32 2 226 40 910 1038 1.555 5.769 0 22.904 1980 8 30 1.926 28 782 1.340 1.476 5.552 0 27.422 1985 86 31 4.083 1.947 1.058 1.368 2.170 9.726 0 41.290 41.290 1985 86 31 4.083 1.047 1.058 1.368 2.170 9.726 0 41.290 41.290 1985 1 4 40 2.544 35 680 1.00 1.33 3.973 0 65.201 65.201 1985 1 4 40 2.544 35 680 1.00 1.33 3.973 0 65.201 65.201 1985 1 4 40 2.544 35 680 1.00 1.33 3.973 0 65.201 65.201 1985 1 1.340 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.0	1965			1,981	166	723		1,608	5,190	•			9,369			
1980 8 30 1,926 28 782 1,340 1,476 5,552 0 27,422 1990 4 36 3,653 1,047 1,058 1,368 2,170 9,726 0 41,220 1990 4 36 3,653 1,25 880 1,412 2,365 8,636 0 55,769 1995 1 40 2,944 95 696 100 138 3,973 0 65,201 1996 1 42 2,120 106 711 100 99 3,136 0 66,255 1997 0 37 1,785 54 705 241 124 2,909 0 68,279 68,279 1998 5 336 1,338 65 782 247 10 2,501 0 68,279 68,779 1998 5 38 1,333 65 772 241 124 2,909 0 77,367 68,779 2001 53 48 8 1,41 69 772 25 646 243 15 3,965 0 77,400 77,400 2001 53 48 3,579 25 646 243 15 3,965 0 83,279 2003 7 54 2,661 19 683 260 17 3,961 0 85,257 83,279 2003 7 54 2,661 19 683 260 17 3,961 0 85,257 86,765 2004 0 56 3,880 20 916 281 117 5,315 0 86,765 2006 (s) 51 3,732 17 8,664 281 117 5,315 0 86,765 2006 (s) 51 3,732 17 8,664 281 117 5,315 0 86,765 2006 (s) 51 3,732 17 8,664 448 82 84,972 0 86,765 91,300 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 93,931 189,900 1 1,000 132 115 0 9 2.9 37 10.1 26.2 0.0 0.1 0.0 13.1 53.2 47.1 1985 0.0 13.2 115 0.9 2.9 37 10.1 26.2 0.0 0.1 0.0 14.0 0.554 116,6 194.1 1975 0.0 24 3.6 13.4 28.8 0.0 0.0 1.0 0.0 32.0 74.5 76.3 1980 0.0 1.2 0.0 14.4 3,711 0 0 93,931 189,990 0.1 0.0 0.2 0.0 74.5 76.3 1980 0.0 0.2 0.0 78.1 144.3 1879 0.0 24.2 13.0 0.2 3.4 5.5 9.8 31.8 0.0 0.0 1.1 0.0 32.0 74.5 76.3 1985 0.0 1.3 2.1 1.5 0.9 2.9 3.7 10.1 26.2 0.0 0.1 1.0 0.0 32.0 74.5 76.3 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.3 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.3 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.3 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.3 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 1.0 0.0 32.0 74.5 76.5 1985 0.0 0.1 1.0 0.0 32.0 74										0						
1985 86 31 4,083 1,047 1,058 1,368 2,170 9,726 0 41,290 1995 1 4 0 2,944 95 696 100 138 3,973 0 65,255 1996 1 42 2,120 106 711 100 99 3,136 0 66,255 1997 0 37 1,785 54 705 241 124 2,999 0 66,255 1998 5 38 1,393 65 786 247 10 2,591 0 73,087 1998 5 38 1,393 65 786 247 10 2,591 0 73,087 1999 6 36 1,801 61 782 251 13 2,908 0 74,790 74,790 2001 53 49 3,037 25 646 243 15 3,965 0 77,900 77,900 2002 9 56 2,568 16 700 397 71 3,751 0 73,275 2002 9 56 2,568 16 700 397 71 3,751 0 83,279 2003 7 7 54 2,661 19 833 263 260 117 3,641 0 83,279 83,279 2004 (s) 58 3,942 52 730 383 351 8,057 0 86,740 89,740 0				2,226 1 926		910 782		1,555	5,769 5,552	0						
1990									9.726	Ő						
1996	1990		36	3,853	125	880	1,412	2,365	8,636	0			55,769			
1998 5 38 1,393 65 786 247 10 2,501 07,30878 1999 6 36 1,801 61 782 251 13 2,908 07,74,799 2000 8 48 2,641 28 774 303 15 3,761 07,7900 2002 9 56 2,588 16 700 397 71 3,751 083,279 2003 7 54 2,661 19 663 260 17 3,641 0 83,279 2004 0 56 3,980 20 916 281 117 5,315 0 88,765 2005 (s) 58 3,542 52 730 383 351 5,5057 0 88,765 2006 (s) 51 3,732 17 6,966 446 82 8,472 0 83,481 0 2007 (s) 51 2,306 12 675 676 41 3,711 0 83,331 2008	1995		40	2,944	95	696		138	3,973	0			65,201			
1998 5 38 1,393 65 786 247 10 2,501 07,30878 1999 6 36 1,801 61 782 251 13 2,908 07,74,799 2000 8 48 2,641 28 774 303 15 3,761 07,7900 2002 9 56 2,588 16 700 397 71 3,751 083,279 2003 7 54 2,661 19 663 260 17 3,641 0 83,279 2004 0 56 3,980 20 916 281 117 5,315 0 88,765 2005 (s) 58 3,542 52 730 383 351 5,5057 0 88,765 2006 (s) 51 3,732 17 6,966 446 82 8,472 0 83,481 0 2007 (s) 51 2,306 12 675 676 41 3,711 0 83,331 2008		1			106			99		0						
999 6 36 1,801 61 782 251 13 2,908 0 74,790 2001 53 49 3,037 25 646 243 15 3,761 0 79,455 2001 53 49 3,037 25 646 243 15 3,965 0 79,455 2002 9 56 2,568 16 700 397 71 3,751 0 83,279 2003 7 54 2,661 19 683 260 17 3,641 0 85,257 2004 0 56 3,980 20 916 281 117 3,641 0 86,765 2005 (s) 58 3,842 52 730 383 351 5,057 0 89,410 2006 (s) 51 3,732 17 8,696 446 82 8,4972 0 91,300 91,300 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,331 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,331 191,300 1				1,700	5 4 65		241 247		2,909 2,501	0						
2000 8 48 2,641 28 774 303 15 3,761 0 77,900 2001 53 49 3,037 25 646 243 15 3,965 0 83,279 2002 9 56 2,588 16 700 397 71 3,751 0 82,279 2004 0 56 3,980 20 916 281 117 5,315 0 86,765 2006 (s) 51 3,732 17 8,966 446 82 R4,972 0 89,410 2006 (s) 51 2,306 12 675 676 41 26.8 0.0 0.2 0.0 19,1 53.2 47.1 196										Ő						
2002 9 56 2,568 16 700 397 71 3,751 0 83,279 2020 916 281 117 5,315 0 86,765 2006 (s) 58 3,842 52 730 383 351 5,057 0 86,765 2006 (s) 51 3,732 17 868 446 82 R4,972 0 91,300 2007 (s) 51 2,306 12 675 676 41 3,711 0 91,300 93,931 2007 (s) 18.1 53.2 47.1 37.1 0 93,931 93,931 93,931	2000		48	2,641	28	774	303	15	3,761	0			77,900			
2003 7 54 2,661 19 683 260 17 3,641 0 85,257 2005 (s) 58 3,542 52 730 383 351 5,057 0 89,410 89,410 2006 (s) 58 3,542 52 730 383 351 5,057 0 89,410 2006 (s) 51 3,732 17 8696 446 82 8,4972 0 91,330 2007 (s) 51 2,306 12 875 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 875 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 875 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 875 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 875 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 875 676 81 3,4 26.8 0.0 0.2 0.0 19,1 53.2 47.1 1965 0.0 13.2 11.5 0.9 2.9 3.7 10.1 29.2 0.0 0.1 0.0 32.0 74.5 76.3 1970 0.0 28.0 11.9 0.8 3.8 7.3 9.2 33.0 0.0 0.0 1.0 0.0 32.0 74.5 76.3 1975 0.0 34.2 13.0 0.2 3.4 5.5 9.8 31.8 0.0 0.2 0.0 0.1 0.0 55.4 116.6 134.1 1975 0.0 34.2 13.0 0.2 3.4 5.5 9.8 31.8 0.0 0.2 0.0 78.1 144.3 187.9 1985 2.1 34.0 23.8 5.9 3.8 7.2 13.6 54.4 0.0 1.4 0.0 14.0 9.36 15.7 225.5 1985 2.1 34.0 23.8 5.9 3.8 7.2 13.6 54.4 0.0 1.4 0.0 14.0 9.32.8 324.5 1980 0.1 39.3 22.4 17.1 0.5 2.5 0.5 0.9 21.6 0.0 1.7 0.3 22.5 289.2 505.2 1995 (s) 43.2 17.1 0.5 2.5 0.5 0.9 21.6 0.0 17. 0.3 22.5 289.2 505.2 1996 (s) 46.7 12.4 0.6 2.6 0.5 0.6 16.7 0.0 18 0.3 22.5 289.2 505.2 1998 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.4 235.0 291.0 532.5 1998 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 24.4 303.8 565.5 1999 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 24.4 303.8 565.5 1999 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 24.4 303.8 565.5 1999 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 24.4 303.8 565.5 1999 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 24.4 303.8 565.5 200.0 0.2 56.9 15.0 0.1 2.5 1.1 0.4 20.0 0.0 1.5 0.5 265.8 341.1 604.6 200.0 0.2 56.9 15.0 0.1 2.5 1.1 0.4 20.1 0.0 1.3 0.6 24.1 363.3 633.4 200.0 0.2 56.9 15.0 0.1 2.5 1.1 0.4 20.1 0.0 1.3 0.6 24.1 363.3 633.4 200.0 0.2 56.9 15.0 0.1 2.5 1.4 0.1 19.6 0.0 1.4 1.0 296.0 384.9 655.0 200.0 0.2 56.9 15.0 0.3 34.9 655.0 200.0 0.2 56				3,037			243		3,965	0						
2004	2002			2,568		700	397		3,751	0			83,279			
2005 (s) 58 3,542 52 730 383 351 5,057 0 88,410 2006 (s) 51 3,732 17 8696 446 82 82 84,972 0 91,300 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 0 93,931 20,93,93,93 20,93,93,93 20,93,93,93,93,93,93,93,93,93,93,93,93,93,		•								0						
2006 (s) 51 3,732 17 R696 446 82 R4,972 0 91,300 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 91,300 93,931 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 0 93,931 2007 (s) 51 2,306 12 675 676 41 3,711 0 0 93,931 2007 (s) 51 2,506 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 676 12 677 677 677 677 677 677 677 677 677 67	2004			3,542		730	383			0						
Trillion Btu Tril	2006	(s)	51	3,732	17	R 696	446	82	R 4,972	Ő			91,300			
1960 0.0 7.2 6.4 1.0 2.4 3.6 13.4 26.8 0.0 0.2 0.0 19.1 53.2 47.1 1965 0.0 13.2 11.5 0.9 2.9 3.7 10.1 29.2 0.0 0.1 0.0 32.0 74.5 76.3 1970 0.0 28.0 11.9 0.8 3.8 7.3 9.2 33.0 0.0 0.1 0.0 55.4 116.6 134.1 1975 0.0 34.2 13.0 0.2 3.4 5.5 9.8 31.8 0.0 0.2 0.0 78.1 144.3 187.9 1980 0.2 32.3 11.2 0.2 2.9 7.0 9.3 30.6 0.0 1.1 0.0 93.6 157.7 225.5 1985 2.1 34.0 23.8 5.9 3.8 7.2 13.6 54.4 0.0 1.4 0.0 140.9 232.8 324.5 1990 0.1 39.3 22.4 0.7 3.2 7.4 14.9 48.6 0.0 3.2 0.2 190.3 281.7 440.0 1995 (s) 43.2 17.1 0.5 2.5 0.5 0.9 21.6 0.0 1.7 0.3 222.5 289.2 505.2 1996 (s) 46.7 12.4 0.6 2.6 0.5 0.6 16.7 0.0 1.8 0.3 226.1 291.5 514.1 1997 0.0 38.8 10.4 0.3 2.5 1.3 0.8 15.3 0.0 1.4 0.4 235.0 291.0 532.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 12.7 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 16 0.1 20.0 0.0 1.5 0.5 255.2 310.3 583.7 2000 0.2 55.1 15.5 0.1 2.5 14.4 0.1 19.6 0.0 1.1 0.0 1.3 0.9 290.9 371.1 641.9 2004 0.0 87.6 25.0 25.0 0.3 2.6 2.0 2.2 27.8 0.0 8.0 1.4 1.0 296.0 389.1 667.3 2005 (s) 63.2 20.6 0.3 2.6 0.3 2.6 0.3 2.6 2.0 2.2 27.8 0.0 8.0 1.4 1.0 296.0 389.1 667.3	2007	(s)	51	2,306	12	675	676	41	3,711	0			93,931			
1965 0.0 13.2 11.5 0.9 2.9 3.7 10.1 29.2 0.0 0.1 0.0 32.0 74.5 76.3 1970 0.0 28.0 11.9 0.8 3.8 7.3 9.2 33.0 0.0 0.1 0.0 55.4 116.6 134.1 1975 0.0 34.2 13.0 0.2 3.4 5.5 9.8 31.8 0.0 0.2 0.0 78.1 144.3 187.9 1980 0.2 32.3 11.2 0.2 2.9 7.0 9.3 30.6 0.0 1.1 0.0 93.6 157.7 225.5 1985 2.1 34.0 23.8 5.9 3.8 7.2 13.6 54.4 0.0 1.4 0.0 140.9 232.8 324.5 1990 0.1 39.3 22.4 0.7 3.2 7.4 14.9 48.6 0.0 3.2 0.2 199.3 281.7 440.0 1995 (s) 43.2 17.1 0.5 2.5 0.5 0.9 21.6 0.0 1.7 0.3 222.5 289.2 505.2 1996 (s) 46.7 12.4 0.6 2.6 0.5 0.6 16.7 0.0 1.8 0.3 225.5 289.2 505.2 1997 0.0 38.8 10.4 0.3 2.5 1.3 0.8 15.3 0.0 1.4 0.4 235.0 291.0 532.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 12.7 0.0 1.4 0.4 235.0 291.0 532.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 12.7 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 1.3 0.1 12.7 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 348.2 604.1 2002 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 348.2 604.1 2002 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.9 0.0 8.8 0.0 1.4 0.9 290.9 371.1 641.9 2004 0.0 8.6 5.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 8.0 0.0 8.8 1.2 305.1 398.1 667.3									Trillion Btu							
1970																100.4
1975			13.2			2.9	3.7	10.1		0.0						150.8
1980								9.2								250.7
1985	1975		34.Z 32.3	13.0	0.2	3.4 2.0		9.8	31.8 30.6	0.0	0.2 1.1				187.9	332.3 383.3
1990						3.8										557.3
1996 (s) 46.7 12.4 0.6 2.6 0.5 0.6 16.7 0.0 1.8 0.3 226.1 291.5 514.1 1997 0.0 38.8 10.4 0.3 2.5 1.3 0.8 15.3 0.0 1.4 0.4 235.0 291.0 532.5 1998 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 225.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 1.6 0.1 20.0 0.0 1.5 0.5 265.8 341.1 60	1990		39.3	22.4	0.7	3.2	7.4	14.9	48.6	0.0	3.2	0.2	190.3	281.7	440.0	721.7
1998 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 1.6 0.1 20.0 0.0 1.5 0.5 265.8 341.1 604.6 2001 1.2 52.5 17.7 0.1 2.3 1.3 0.1 21.5 0.0 1.5 0.5 265.8 341.1 604.6 2002 0.2 56.9 15.0 0.1 2.3 1.3 0.1 21.5 0.0 1.2 0.6 271.1 348.2 604.1 2003 0.2 58.5 15.5 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 363.3 633.4 2004 0.0 87.6 23.2 0.1 3.3 1.5	1995	(s)	43.2	17.1	0.5	2.5	0.5	0.9	21.6	0.0	1.7	0.3	222.5	289.2	505.2	794.5
1998 0.1 39.7 8.1 0.4 2.8 1.3 0.1 12.7 0.0 1.4 0.5 249.4 303.8 565.5 1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 1.6 0.1 20.0 0.0 1.5 0.5 265.8 341.1 604.6 2001 1.2 52.5 17.7 0.1 2.3 1.3 0.1 21.5 0.0 1.5 0.5 265.8 341.1 604.6 2002 0.2 56.9 15.0 0.1 2.3 1.3 0.1 21.5 0.0 1.2 0.6 271.1 348.2 604.1 2003 0.2 58.5 15.5 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 363.3 633.4 2004 0.0 87.6 23.2 0.1 3.3 1.5	1996	(s)	46.7			2.6			16.7			0.3	226.1			805.6
1999 0.1 37.9 10.5 0.3 2.8 1.3 0.1 15.1 0.0 1.4 0.5 255.2 310.3 583.7 2000 0.2 53.1 15.4 0.2 2.8 1.6 0.1 20.0 0.0 1.5 0.5 265.8 341.1 604.6 2001 1.2 52.5 17.7 0.1 2.3 1.3 0.1 21.5 0.0 1.2 0.6 271.1 348.2 604.1 2002 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 363.3 633.4 2003 0.2 58.5 15.5 0.1 2.5 1.4 0.1 19.6 0.0 1.1 0.9 290.9 371.1 641.9 2004 0.0 875.6 23.2 0.1 3.3 1.5 0.7 28.8 0.0 1.4 1.0 296.0 384.9 655.0 2005 (s) 63.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 8.8 1.2 305.1 398.1 667.3																823.4 869.4
2000 0.2 53.1 15.4 0.2 2.8 1.6 0.1 20.0 0.0 1.5 0.5 265.8 341.1 604.6 2001 1.2 52.5 17.7 0.1 2.3 1.3 0.1 21.5 0.0 1.2 0.6 271.1 348.2 604.1 2002 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 363.3 633.4 2003 0.2 58.5 15.5 0.1 2.5 1.4 0.1 19.6 0.0 1.1 0.9 290.9 371.1 641.9 2004 0.0 R.57.6 23.2 0.1 3.3 1.5 0.7 28.8 0.0 1.4 1.0 290.0 384.9 655.0 2005 (s) 63.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 R.8 1.2 305.1 398.1 667.3	1999		37.9		0.4	2.0 2.8			15.1	0.0		0.5	249.4 255.2	310.3	583.7	894.0
2001 1.2 52.5 17.7 0.1 2.3 1.3 0.1 21.5 0.0 1.2 0.6 271.1 348.2 604.1 2002 0.2 56.9 15.0 0.1 2.5 2.1 0.4 20.1 0.0 1.3 0.6 284.1 363.3 633.4 2003 0.2 58.5 15.5 0.1 2.5 1.4 0.1 19.6 0.0 1.1 0.9 290.9 371.1 641.9 2004 0.0 R 57.6 23.2 0.1 3.3 1.5 0.7 28.8 0.0 1.4 1.0 296.0 384.9 655.0 2005 (s) 63.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 R 0.8 1.2 305.1 398.1 667.3			53.1	15.4		2.8					1.5	0.5		341.1		945.7
2003	2001	1.2	52.5	17.7	0.1	2.3	1.3	0.1	21.5	0.0	1.2	0.6	271.1	348.2	604.1	952.3
2004 0.0 R57.6 23.2 0.1 3.3 1.5 0.7 28.8 0.0 1.4 1.0 296.0 384.9 655.0 2005 (s) 63.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 R0.8 1.2 305.1 398.1 667.3			56.9	15.0									284.1	363.3		996.7
2005 (s) 63.2 20.6 0.3 2.6 2.0 2.2 27.8 0.0 ^R 0.8 1.2 305.1 398.1 667.3			58.5 R 57.6													1,013.0
0) 00.2 20.0 0.0 2.0 2.0 2.0 2.0 0.0 0.0 0				23.2 20.6							R n g					1,039.9 R 1,065.3
ZUUD ISI DI.9 ZI.7 U.1 "Z.D Z.S U.D Z7.Z U.U "U.B 1.2 311.5 392.7 b7.5.b	2006	(s)	51.9	21.7	0.3	R 2.5	2.3	0.5	27.2	0.0	R 0.8	1.2	311.5	392.7	673.6	K 1.066.3
2007 (s) 55.2 13.4 0.1 2.4 3.5 0.3 19.7 0.0 0.9 1.3 320.5 397.7 691.5		(s)	55.2			2.4		0.3			0.9	1.3		397.7		1,089.2

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Florida

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	0	35	2,934	785	182	10,883	4,535	19,320	0			3,963			
1965 1970	0	74 92	4,451 4,494	711 928	180 202	9,636 8,148	6,426 6,985	21,404 20,757	0			6,449 9,365			
1970	21	90	4,494	1,242	92	7,369	5,993	19,421	0			13,294			
1980	748	102	7,077	5,341	86	13,673	8,277	34,453	0			18,598			
1985	911	76	5,181	2,489	1,022	6,283	10,936	25,910	0			15,742			
1990	1,207	87	4,148	1,662	1,069	3,220	11,149	21,248	0			16,605			
1995	1,325	129	5,792	3,008	1,148	4,980	10,338	25,265	0			16,473			
1996	1,270	133	5,649	3,221	1,139	3,903	16,520	30,432	0			17,212			
1997	1,347	128	5,740	1,039	1,144	3,440	15,038	26,401	0			18,266			
1998 1999	1,279 1,189	124 137	5,515 6,361	936 1,822	1,900 1,069	4,137 3,174	15,576 15,445	28,063 27,872	0			18,448 18,579			
2000	1,169	107	6,230	2,087	1,069	3,174	15,445	28,565	0			18,884			
2001	1,171	97	6,820	2,547	2,371	2,804	9,438	23,981	0			19,854			
2002	1,196	85	7,115	1,211	2,452	1,589	9,721	22,088	Ö			18,959			
2003	1,111	75	10,195	1,531	2,665	1,882	9,134	25,406	Ō			19,375			
2004	1,045	65	8,401	1.121	2,875	3,066	11,156	26.619	0			19,518			
2005	1,068	64	8,939	1,770 R 2,190	2,795	2,851	10,076	26,431 R 27,543	0			19,676			
2006	1,128	71	8,283	K 2,190	2,875	2,426	11,769	K 27,543	0			19,768			
2007	1,096	68	6,362	1,554	3,507	1,759	11,335	24,517	0			19,241			
							Tri	Ilion Btu							
1960	0.0	36.4	17.1	3.2		68.4	29.0	118.7	0.0	23.8	0.0		192.4	33.4	225.9
1965	0.0	77.2	25.9	2.9		60.6	39.7	130.0	0.0	30.8	0.0		260.0	52.5	312.5
1970 1975	0.0	96.3	26.2	3.5	1.1	51.2	43.4	125.4	0.0	40.4	0.0	32.0	294.0	77.3	371.3
1975	0.5 17.1	96.6 108.6	27.5 41.2	4.6 19.6	0.5 0.5	46.3 86.0	37.5 50.9	116.4 198.2	0.0 0.0	37.8 40.9	0.0 0.0	45.4 63.5	296.7 428.3	109.1 153.0	405.7 581.3
1985	22.6	84.2	30.2	9.0	5.4	39.5	67.9	151.9	0.0	47.9	0.0	53.7	360.3	123.7	484.0
1990	30.2	93.9	24.2	6.0	5.6	20.2	69.1	125.2	0.0	111.0	0.0	56.7	416.9	131.0	547.9
1995	33.3	137.9	33.7	10.9	6.0	31.3	64.4	146.3	0.0	112.9	0.0	56.2	486.6	127.6	614.2
1996	31.9	148.6	32.9	11.6	5.9	24.5	96.4	171.5	0.0	120.4	0.0	58.7	531.1	133.5	664.7
1997	33.7	135.0	33.4	3.8	6.0	21.6	85.9	150.7	0.0	117.3	0.0	62.3	499.0	141.2	640.2
1998	32.0	131.0	32.1	3.4	9.9	26.0	89.3	160.7	0.0	99.8	0.0	62.9	486.4	142.7	629.1
1999	29.7	142.9	37.1	6.6	5.6	20.0	88.0	157.2	0.0	95.8	0.0	63.4	489.1	145.0	634.0
2000	32.1	118.7	36.3	7.5	5.9	22.0	89.2	161.0	0.0	90.2	0.0	64.4	466.3	146.6	612.9
2001	30.1	103.3	39.7	9.2	12.4	17.6	58.0	136.9	0.0	87.9	0.0	67.7	425.9	151.0	576.9
2002 2003	30.6 28.3	86.6 80.3	41.4 59.4	4.4 5.6	12.8 13.9	10.0 11.8	59.8 55.9	128.4 146.5	0.0	93.0 100.2	0.0	64.7 66.1	403.3 421.6	144.2 145.9	547.5 567.5
2003	26.3 27.0	66.4	48.9	5.0 4.1	15.9	19.3	68.9	156.2	0.0	91.2	0.0	66.6	407.4	R 147.4	554.7
2004	27.6	70.6	52.1	6.4	14 6	17.9	62.1	153 1	0.0	99.7	0.0	67.1	418 1	146.8	_ 564.9
2006	28.7	73.2	48.3	R 7.9	15.0	15.3	73.6	R 160.0	0.0	R 104.8	0.0	67.4	R 434.2	145.8	R 580.0
2007	27.9	73.2	37.1	5.6	18.3	11.1	70.8	142.8	0.0	107.7	0.0		417.2	141.6	558.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Florida

						Pe	troleum					D		1	
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	0	1	4,517	3,858	9,482	82	674	42,281	3,770	64,663	0	0			
1965	0	3	4,273	4,482 7,493	17,525	134 197	723 669	52,244	4,751	84,132	0	0			
1970 1975	(s)	2	3,138 1,921	10,160	23,840 24,199	169	622	74,670 99,462	2,244 2,211	112,252 138,744	0	0			
1980	0	4	1,339	16,014	35.911	161	805	107.853	11,613	173,695	0	0			
1985	0	4	841	20,762	35,911 23,101	390	733	107,853 122,956	6,892	175,675	1,072	18			
1990	0	3	808	25,155	31,958	213	824	139,870	9,946	208,776	180	46			
1995 1996	0	8	599 519	28,915 28,649	28,045	148 120	786 763	156,410	8,435 8,126	223,338	57 20	49 51			
1996	0	6	567	32,321	29,345 R 30,520 R 28,508	103	806	157,789 160,492	8,485	225,310 R 233 204	34	51 51			
1998	0	4	431	33,143	R 28.508	92	844	167,054	7,664	R 233,294 R 237,736	35	51			
1999	Ö	7	591	34,490	28.977	132	853	172.223	7,609	244.875	24	55			
2000	0	8	612	35,141	35,134	138	840	176,893	9,977	258,735	44	54			
2001	0	.7	483	36,439	30,658	314	770	178,449	8,488	255,601	26	66			
2002	0	12	492	36,609	27,035	171 173	761	185,233 188,653	10,437 4,525	260,739	10 0	72 97			
2003 2004	0	10 11	398 393	37,634 42,771	25,653 29,246	269	703 712	198,549	4,525 12,752	257,740 284,692	0	97 98			
2005	0	10	443	46,030	27,891	342	709	204,304	13,428	293.145	R 1.249	99			
2006	Ő	12	418	48,968	27,631	324	690	206,686	14,030	298,747	R 1,249 R 1,778	99			
2007	0	10	370	45,932	31,161	197	713	204,560	13,260	296,193	2,569	96			
								Trillion Btu							
1960	0.0	1.0	22.8	22.5	51.5	0.3	4.1	222.1	23.7	347.0	0.0	0.0	348.0	0.0	348.0
1965 1970	0.0	2.6	21.6	26.1 43.6	97.2	0.5 0.7	4.4	274.4 392.2	29.9 14.1	454.1 603.8	0.0	0.0	456.7 608.3	0.0	456.7 608.3
1970	0.0	4.5 2.5	15.8 9.7	43.6 59.2	133.2 135.5	0.7	4.1 3.8	522.5	13.9	745.2	0.0 0.0	0.0 0.0	747.7	0.0 0.0	747.7
1980	(s) 0.0	3.9	6.8	93.3	201.6	0.6	4.9	566.6	73.0	946.6	0.0	0.0	950.6	0.0	950.6
1985	0.0	4.3	4.2	120.9	129.2	1.4	4.4	645.9	43.3	949.4	3.8	0.1	957.6	0.1	957.7
1990	0.0	3.0	4.1	146.5	179.6	0.8	5.0	734.7	62.5	1,133.2	0.6	0.2	1,137.0	0.4	1,137.4
1995	0.0	8.2	3.0	168.4	159.0	0.5	4.8	815.7	53.0	1,204.5	0.2	0.2	1,212.8	0.4	1,213.2
1996	0.0	6.6	2.6	166.9	166.4	0.4	4.6	823.0	51.1	1,215.1	0.1	0.2	1,221.8	0.4	1,222.2
1997 1998	0.0 0.0	6.2 4.3	2.9 2.2	188.3 193.1	173.0 R 161.6	0.4 0.3	4.9 5.1	836.6 870.7	53.3 48.2	1,259.4 R 1,281.2	0.1 0.1	0.2 0.2	1,265.8 R 1,285.7	0.4 0.4	1,266.2 R 1,286.1
1990	0.0	4.5 7.5	3.0	200.9	164.3	0.5	5.1	897.5	40.2 47.8	1,319.1	0.1	0.2	1,326.8	0.4	1,327.2
2000	0.0	8.3	3.1	204.7	199.2	0.5	5.1	921.6	62.7	1,396.9	0.1	0.2	1,405.4	0.4	1.405.8
2001	0.0	7.5	2.4	212.3	173.8	1.1	4.7	929.7	53.4	1,377.4	0.1	0.2	1,385.1	0.5	1,385.6
2002	0.0	11.8	2.5	213.2	153.3	0.6	4.6	964.7	65.6	1,404.6	(s)	0.2	1,416.6	0.5	1,417.2
2003	0.0	10.9	2.0	219.2	145.5	0.6	4.3	982.3	28.4	1,382.3	0.0	0.3	1,393.6	0.7	1,394.3
2004	0.0	11.5	2.0	249.1	165.8	1.0	4.3	1,035.4	80.2	1,537.8	(s) R 4.4	0.3	1,549.7	0.7	1,550.4
2005 2006	0.0 0.0	10.5 12.5	2.2	268.1 285.2	158.1 156.7	1.2	4.3 4.2	1,066.1 1,078.5	84.4 88.2	1,584.5 1,616.1	R 6.3	0.3 0.3	1,595.3 1,628.9	0.7	1,596.1 1,629.6
2006	0.0	11.2	2.1 1.9	267.6	176.7	1.2 0.7	4.2	1,067.6	83.4	1,602.1	9.1	0.3	1,626.9	0.7 0.7	1,629.6

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Florida

	Coal Thousand Short Tons 1,104 2,323 5,131 5,758	Natural Gas ^a Billion Cubic Feet	Residual Fuel Oil ^b	Distillate Fuel Oil ^c Thousan	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d		Geothermal f	Solar/PV ^{f,g}	Wind ^f	Electricity Net Imports ^h	
Year SI 1960 1965 1970 1975	1,104 2,323 5,131 5,758	Cubic Feet 89 87	12 /10	Thousan	d Barrels				14/		Joidin V	Willu	illiports	
1965 1970 1975	5,131 5,758	87	12 /10		a Daireis		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1965 1970 1975	5,131 5,758	87	13.419	191	0	13,610	0	278		0	0	0	0	
1975	5,131 5,758		27.349	388	0	27.737	0	298		0	0	0	0	
1975	5,758	198	41,783	593	0	42,376	0	292		0	0	0	0	
1000		141	68,180	5,205	0	73,385	8,370	234		0	0	0	0	
1900	8,785	166	69,994	3,200	0	73,194	16,737	215		0	0	0	0	
1985	18,283	166	22,432	1,246	0	23,678	23,461	244		0	0	0	0	
1990	24,301	189	38,752	1,877	0	40,628	21,780	175		0	0	0	0	
1995	26,897	369	33,692	1,854	0	35,546	28,741	231 216		0	0	0	0	
1996	29,280	337	35,286	1,701	313	37,301	25,470			0	0	0	0	
1997	29,495	339	37,648	1,592	3,336	42,577	22,968	241		0	0	0	0	
1998 1999	29,557 28,173	324 366	58,780 53,130	3,484 3,259	4,622 4,624	66,885 61,012	31,115 31,526	199 140		0	0	0	0	
2000	29,846	364	51,766	3,259	3,205	58,533	32,291	87		0	0	0	0	
2000	28,696	374	57,781	2,825	4,640	65,246	31,583	148		0	0	0	0	
2001	28,139	522	43,112	3,698	7,876	54,686	33,704	184		0	0	0	0	
2002	28,331	535	47,001	3,117	10,447	60,565	30,979	263		0	0	0	0	
2004	27,644	586	46,536	2,445	11,649	60,630	31,216	265		0	0	0	0	
2005	26,603	630	44,403	2,373	14,416	61,192	28,759	266		0	0	0	0	
2006	27,755	742	24,378	1,167	12,459	38,004	31,426	203		ŏ	ŏ	ŏ	Õ	
2007	28,826	773	23,726	1,223	8,034	32,983	29,289	154		Ō	Ö	0	Ō	
							Trillion E	3tu						
1960	27.2	91.6	84.4	1.1	0.0	85.5	0.0	3.0	0.0	0.0	0.0	0.0	0.0	207.3
1965	55.2	90.2	171.9	2.3	0.0	174.2	0.0	3.1	0.0	0.0	0.0	0.0	0.0	322.7
1970 1975	116.7	206.5	262.7	3.5	0.0	266.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	592.4
1975	133.0	142.4	428.6	30.3	0.0	459.0	92.2	2.4	0.0	0.0	0.0	0.0	0.0	829.0
1980	208.1	168.5	440.1	18.6	0.0 0.0	458.7	182.6	2.2	0.0	0.0	0.0	0.0	0.0	1,020.1
1985 1990	447.0 603.1	167.5 191.6	141.0 243.6	7.3 10.9	0.0	148.3 254.6	249.2 230.5	2.5 1.8	0.0 30.8	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,014.6 1,312.4
1990	653.6	374.5	211.8	10.9	0.0	222.6	302.0	2.4	30.6 61.9	0.0	0.0	0.0	0.0	1,312.4 1,617.0
1996	713.9	341.1	221.8	9.9	1.9	233.6	267.5	2.4	73.8	0.0	0.0	0.0	0.0	1,632.1
1997	717.6	353.3	236.7	9.3	20.1	266.1	241.0	2.5	71.8	0.0	0.0	0.0	0.0	1,652.2
1998	717.4	339.7	369.5	20.3	27.8	417.7	326.4	2.0	64.8	0.0	0.0	0.0	0.0	1,868.0
1999	686.4	380.7	334.0	19.0	27.9	380.9	329.4	1.4	68.5	0.0	0.0	0.0	0.0	1,847.3
2000	728.1	377.5	325.5	20.7	19.3	365.5	336.8	0.9	66.1	0.0	0.0	0.0	0.0	1,874.9
2001	694.4	389.9	363.3	16.5	27.9	407.7	330.0	1.5	33.4	0.0	0.0	0.0	0.0	1,856.9
2002	688.8	535.2	271.0	21.5	47.4	340.0	351.8	1.9	45.0	0.0	0.0	0.0	0.0	1,962.7
2003	695.3	553.5	295.5	18.2	62.9	376.6	322.8	2.7	51.1	0.0	0.0	0.0	0.0	2,002.0
2004	672.0	R 603.7	292.6	14.2	70.2	377.0	325.5	2.7	51.2	0.0	0.0	0.0	0.0	R 2,032.1
2005	644.7	652.1	279.2	13.8	86.8	379.8	300.1	2.7	50.4	0.0	0.0	0.0	0.0	2,029.8
2006	667.5	762.9	153.3	6.8	75.1	235.1	327.9	2.0	50.4	0.0	0.0	0.0	0.0	2,045.9
2007	692.9	794.4	149.2	7.1	48.4	204.7	307.2	1.5	51.7	0.0	0.0	0.0	0.0	2,052.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Georgia

						Petroleum				Martan	II. In	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	3,548	182	5,140	2,306	4,253	32,079	6,551	5,390	55,720	0	2,306					
1965 1970	6,116 8,131	211 333	8,531 12,781	2,158 10,506	5,424 7,430	39,136 54,081	8,413 10,279	8,205 7,026	71,867 102,104	0	3,234 2,519					
1975	13,141	327	16,115	12,887	8,168	65,541	10,809	8,006	121,527	3,093	4,334					
1980	21,892	315	19,437	16,421	7,444	65,506	9,036	12,255	130.097	8,436	4,423					
1985	29,898	282	24,639	16,236	6,825	72,993	11,931	10,668	143,292 153,179	10,130	2,826					
1990	30,067	311	28,927	18,439	6,021	83,148	3,491	13,153	153,179	24,797	4,589					
1995 1996	31,288 31,158	374 385	34,292 40,426	18,451	7,288 7,490	97,672 101,063	4,103 4,777	15,926 14,216	R 177,731	30,661 29,925	4,197 4,679					
1990	32,846	372	36,178	17,293 R 15,240	7,490	101,576	4,777	14,216	185,265 R 179,330 R 183,310	30,414	4,079					
1998	32,720	369	37,511	R 15,148	6,188	106,860	2,367	15,237	R 183.310	31,380	5,235					
1999	33,491	338	40,637	15,316	6,899	109,920	2,199	17,609	192,580	31,478	2,751					
2000	35,149	414	42,597	13,046	9,112	111,119	2,710	15,137	193,720	32,473	2,481					
2001	32,896	351	45,554 41,946	9,903	6,692	113,550	1,726	15,530	192,955	33,682 31,108	2,596					
2002 2003	34,470 35,111	384 380	41,946 42,889	7,430 R 8,790	6,820 6,290	116,875 118,244	3,699 4,429	15,763 15,495	192,533 196,136	31,108	2,716 4,140					
2003	37,872	395	45,732	9,177	6,504	120,751	6,753	17,334	206,251	33,748	3,692					
2005	40,887	413	50,768	9,576	6,310	122,294	7.648	16,698	213,294	31,534	4,032					
2006	40,477	420	47,937	6,552	6,090	120,440	9,937	16,804	207,759	32,006	2,569					
2007	42,313	441	45,635	6,726	5,729	121,069	7,029	16,552	202,740	32,545	2,236					
								Trillion Btu								
1960 1965	89.0 152.6	188.5 219.8	29.9 49.7	12.4 11.6	17.1 21.8	168.5 205.6	41.2 52.9	33.1 49.9	302.2 391.4	0.0 0.0	24.8 33.8	71.2 74.2	0.0 0.0	26.2 46.4	0.0 0.0	701.8 918.2
1905	193.2	342.8	74.5	59.0	28.1	284.1	64.6	43.4	553.6	0.0	26.4	71.8	0.0	93.2	0.0	1,281.0
1975	312.0	335.4	93.9	72.6	30.3	344.3	68.0	49.3	658.3	34.1	45.1	78.3	0.0	30.3	0.0	1,493.4
1980	521.5	325.3	113.2	92.6	27.3	344.1	56.8	73.3	707.3	92.0	45.9	98.1	0.0	-56.4	(s)	1,733.8
1985	725.7	R 289.7	143.5	91.5	24.6	383.4	75.0	64.2	782.3	107.6	29.5	116.7	0.0	-107.0	-0.1	1,944.4
1990	714.1 723.8	R 319.4 R 383.5	168.5	104.2	21.8	436.8	21.9	80.1	833.3 960.2	262.4 322.2	47.7	187.6	0.1	-62.0 20.7	0.5	2,303.2
1995 1996	723.0	R 393.5	199.8 235.5	104.6 98.0	26.4 27.1	509.4 527.1	25.8 30.0	94.2 84.8	1 002 6	314.3	43.3 48.4	205.6 208.3	0.2 0.2	86.4	-0.1 -0.1	2,659.4 2,776.6
1997	768.0	381.7	210.7	86.4	28.2	529.5	26.7	84.9	1,002.6 R 966.5	319.2	43.7	218.5	0.2	38.7		2,736.5
1998	767.4	R 378.6	218.5	R 85.9	22.4	557.0	14.9	90.9	R 989.5	329.2	53.4	202.9	0.3	90.5	(s) (s)	R 2,811.7
1999	782.6	347.1	236.7	86.8	24.9	572.8	13.8	106.0	1,041.1	328.9	28.1	203.0	0.3	131.6	(s) -0.1	2,862.8
2000	819.5	421.3 R 202.7	248.1	74.0	32.9	578.9	17.0	90.2	1,041.1	338.7	25.3	196.9	0.3	147.3		2,990.4 2,878.5
2001 2002	772.0 807.1	R 362.7 R 392.8	265.4 244.3	56.2 42.1	24.2 24.6	591.6 608.7	10.8 23.3	92.7 93.8	1,040.9 1,036.8	351.9 324.7	26.8 27.6	164.9 255.7	0.3 0.4	158.9 190.9	-0.1 (s)	2,878.5 3,036.1
2002	819.0	396.1	244.3	42.1	22.8	615.7	23.3 27.8	93.6 92.1	1,058.1	346.6	42.4	179.4	0.4	153.3	(S)	2,995.3
2004	835.0	412.0	266.4	52.0	23.5	629.7	42.5	103.5	1,117.7	351.9	37.0	189.4	0.4	191.6	(s)	3,134.9
2005	901.0	425.8	295.7	54.3	22.8	638.1	48.1	99.9	1,158.9	329.1	40.3	R 182.3	0.4	134.3	(s)	3,134.9 R 3,172.1
2006	892.7	R 433.5	279.2	37.1	22.0	628.5	62.5	101.1	1,130.4	333.9	25.5	R 189.3	0.5	143.1	(s) (s)	R 3,148.9
2007	934.7	453.9	265.8	38.1	20.6	631.9	44.2	99.6	1,100.2	341.3	22.1	186.4	0.6	93.9	(S)	3,133.0

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

h Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Georgia

Coal Gas					Petro	leum		Biomass			5.1			
Thousand Shift Thousand Shift Cubic Pet Thousand Cubic Pet Charge Cubic Pet Charge Cubic Pet		Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c						
1965 110 67 211 460 3,092 3,764 1,173 6,936 1 1970 71 87 250 121 4,164 4,536 729 12,474 1 1975 15 87 298 34 3,896 4,229 758 16,457 1 1980 5 90 578 91 3,553 4,624 1,233 20,033 1 1985 8 8 84 395 257 3,952 4,604 1,297 23,503 1 1985 8 8 84 395 257 3,952 4,604 1,297 23,503 1 1985 8 8 14 195 1,144 1,144 1,145 1,145 1,1	Year				Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e		Net Energy ^{d,f}	Energy	Total d,f
1965 110 67 211 460 3,092 3,764 1,173 6,936 1 1970 71 87 250 121 4,164 4,536 729 12,474 1 1975 15 87 298 34 3,896 4,229 758 16,457 1 1980 5 90 578 91 3,553 4,624 1,233 20,033 1 1985 8 8 84 395 257 3,952 4,604 1,297 23,505 1 1986 8 1 84 395 257 3,952 4,604 1,297 23,505 1 1986 8 1 84 395 257 3,952 4,604 1,297 23,505 1 1986 8 1 10 10 10 10 10 10 10 10 10 10 10 10 1	1960	226	56	131	633	2.279	3.042	1.719			4.469			
1970 71 87 250 121 4,164 4,536 729 12,474 1975 15 87 298 34 3,896 4,229 758 16,457 1980 5 90 578 91 3,553 4,222 1,033 20,033 1980 4 90 297 111 3,400 3,808 548 2,25,055 1990 4 90 297 111 3,400 3,808 548 23,505 1996 8 115 164 126 4,072 4,280 829 23,5812 1996 8 115 164 126 4,072 4,280 829 33,812 1997 1998 1 1 107 93 171 3,770 4,055 669 34,519 1998 2 2 99 55 241 4,106 4,401 641 41,767 41,767 20,01 1 120 61 181 3,285 3,527 453 44,380 44,380 20,01 1 120 61 181 3,285 3,527 453 44,380 44,380 20,01 1 120 61 181 3,285 3,527 463 44,380 44,380 20,01 1 126 64 0 93 3,388 66 3,528 3,362 484 44,560 48,600 20,03 0 130 38 66 3,528 3,362 484 44,774 20,007 (s) 112 28 39 2,321 2,988 630 52,827 20,007 (s) 112 28 39 2,321 2,988 630 56,223	1965	110	67	211	460	3,092	3,764	1,173			6,936			
1980 5 90 578 91 3,553 4,222 1,033 20,033 1986 8 84 395 257 3,952 4,664 1,2972,3505 1990 4 90 297 111 3,400 3,808 548 29,933 1986 (s) 127 151 144 4,072 4,868 861 35,812 1986 (s) 127 151 144 4,072 4,868 861 37,763 1988 1 107 393 171 4,707 4,015 669 4,4519 1999 2 1 999 55 241 4,106 4,401 669 44,519 1999 2 1 999 55 241 4,106 4,401 669 44,519 2000 1 1 141 72 198 4,671 4,941 669 44,560 2001 1 1 120 61 181 3,285 3,527 453 44,360 2002 1 1 127 55 81 3,289 3,425 460 48,600 48,600 2003 0 130 38 66 3,528 3,632 484 48,174 2004 1 1 26 40 93 3,848 3,982 496 51,124 2005 4 125 42 68 3,134 3,243 8,628 52,827 2006 0 110 31 63 8,299 8,291 2,988 630 56,223 2007 (s) 112 28 39 2,921 2,988 630 56,223 Trillion Btu	1970		87	250	121	4,164	4,536	729			12,474			
1990	1975	15	87	298	34	3,896	4,229	758			16,457			
1990	1980	5	90	578	91	3,553	4,222	1,033			20,033			
1995 8 115 164 126 4,001 4,290 829 35,812 1997 1251 144 4,072 4,387 861 37,763 1997 2 114 79 135 4,387 4,601 686 36,831 1998 1 1 107 93 171 3,770 4,035 609 41,519 1999 2 99 55 241 4,106 4,401 641 41,767 2001 1 120 61 181 3,285 3,527 453 44,380 2001 1 120 61 181 3,285 3,527 453 48,600 2002 1 127 55 81 3,289 3,425 460 48,600 2003 0 130 38 66 3,528 3,632 484 48,174 2004 1 126 40 93 3,848 3,982 496 51,124 2005 4 125 42 68 3,134 3,243 8,628 52,827 54,521 2007 (s) 112 28 39 2,921 2,988 630 56,223 56,223 19,007 (s) 112 28 39 2,921 2,988 630 56,223 19,007 (s) 112 28 39 2,921 2,988 630 56,223 19,009 1,009	1985	8	84	395	257	3,952	4,604	1,297			23,505			
1996 (s) 127 151 144 4,072 4,387 861 37,763 1998 1 107 93 171 3,770 4,035 609 41,519 1998 1 107 93 171 3,770 4,035 609 41,519 2000 1 141 72 198 4,671 4,941 689 44,560 2001 1 120 61 181 3,285 3,527 453 43,500 2002 1 127 55 81 3,289 3,425 460 48,600 2003 0 130 38 66 3,528 3,632 484 48,774 2004 1 126 40 93 3,848 3,982 496 52,627 2005 0 110 31 63 82,894 82,898 872 54,521 2006 0 110 31 63 82,894 82,898 872 54,521 2007 (s) 112 28 39 2,921 2,988 630 56,223 1960 5,6 57,8 0,8 3,6 9,1 13,5 34,4 0,0 0,0 15,2 126,5 37,7 1965 2,7 69,9 1,2 2,6 12,4 16,2 23,5 0,0 0,0 23,7 135,9 565 1970 1,7 90,1 1,5 0,7 15,7 17,9 14,6 0,0 0,0 0,2 2,7 135,9 565 1975 0,4 89,5 1,7 0,2 14,5 16,4 15,2 0,0 0,0 0,6 4,4 19,2 1,4 1980 0,1 83,1 3,4 0,5 31,1 16,9 20,7 0,0 0,0 68,4 19,2 14,7 1980 0,1 83,1 3,4 0,5 31,1 16,9 20,7 0,0 0,0 68,4 19,2 27,5 1985 0,2 86,4 2,3 1,5 14,2 18,0 25,9 0,0 0,0 0,0 80,2 210,7 184,7 1980 0,1 83,1 3,4 0,5 1,4 14,8 16,5 17,5 17,0 1,5 17,5 1,5 1,5 1,4 1,5 1,5 1,5 1,4 1,5 1,5 1,5 1,4 1,5 1,5 1,5 1,5 1,4 1,5 1,5 1,5 1,5 1,4 1,5	1990	4		297		3,400					29,933			
1997	1995		115	164	126	4,001	4,290	829			35,812			
1	1990	(S)	127		144	4,072	4,307	108						
1999	1000	<u> </u>	114 107	79	133	4,307 3.770	4,001	600			30,031 41,510			
2001	1000	2	99	93 55		3,770 4.106	4,033	6/1			41,519			
2001		1	141	72		4,100	4 941	689						
2002	2001	i	120	61		3.285	3.527				44.380			
2004	2002	1	127	55	81	3,289	3,425	460			48.600			
2004	2003	0	130	38	66	3.528	3.632	484						
2005		1	126	40	93	3,848	3,982	_ 496						
Trillion Btu Tril	2005	4	125	42		_ 3,134	_ 3,243	R 628			52,827			
Trillion Btu Tril	2006	•	110	31		R 2,894	R 2,988	R 572			54,521			
1960	2007	(s)	112	28	39	2,921	2,988	630			56,223			
1965 2.7 69.9 1.2 2.6 12.4 16.2 23.5 0.0 0.0 23.7 135.9 56.5 1970 1.7 90.1 1.5 0.7 15.7 17.9 14.6 0.0 0.0 42.6 166.8 103.0 1975 0.4 89.5 1.7 0.2 14.5 16.4 15.2 0.0 0.0 56.2 177.6 135.0 1980 0.1 93.1 3.4 0.5 13.1 16.9 20.7 0.0 0.0 68.4 199.2 164.8 1985 0.2 86.4 2.3 1.5 14.2 18.0 25.9 0.0 0.0 0.0 80.2 210.7 184.7 1990 0.1 892.7 1.7 0.6 12.3 14.7 11.0 (s) 0.1 102.1 220.7 236.2 1995 0.2 117.6 1.0 0.7 14.5 16.2 16.6 (s) 0.2 122.2 272.9 277.5 1996 (s) 8130.0 0.9 0.8 14.7 16.4 17.2 (s) 0.2 122.2 272.9 277.5 1997 (s) 117.6 0.5 0.8 15.9 17.1 13.7 0.1 0.2 125.7 274.3 284.7 1998 (s) 110.3 0.5 1.0 13.6 15.1 12.2 0.1 0.2 141.7 279.6 321.3 1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 125.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 360.0 82005 0.1 128.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.5 13.9 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.6 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.5 13.9 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.2 0.2 0.4 11.3 12.0 813.5 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.2 0.2 0.4 11.3 12.0 813.5 14.7 9.9 0.1 0.3 164.4 323.5 360.0 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 3							Tı	illion Btu						
1965 2.7 69.9 1.2 2.6 12.4 16.2 23.5 0.0 0.0 23.7 135.9 56.5 1970 1.7 90.1 1.5 0.7 15.7 17.9 14.6 0.0 0.0 42.6 166.8 103.0 1975 0.4 89.5 1.7 0.2 14.5 16.4 15.2 0.0 0.0 56.2 177.6 135.0 1980 0.1 93.1 3.4 0.5 13.1 16.9 20.7 0.0 0.0 68.4 199.2 164.8 1985 0.2 86.4 2.3 1.5 14.2 18.0 25.9 0.0 0.0 0.0 80.2 210.7 184.7 1990 0.1 892.7 1.7 0.6 12.3 14.7 11.0 (s) 0.1 102.1 220.7 236.2 1995 0.2 117.6 1.0 0.7 14.5 16.2 16.6 (s) 0.2 122.2 272.9 277.5 1996 (s) 8130.0 0.9 0.8 14.7 16.4 17.2 (s) 0.2 122.2 272.9 277.5 1997 (s) 117.6 0.5 0.8 15.9 17.1 13.7 0.1 0.2 125.7 274.3 284.7 1998 (s) 110.3 0.5 1.0 13.6 15.1 12.2 0.1 0.2 141.7 279.6 321.3 1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 125.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 360.0 82005 0.1 128.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.5 9.1 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.5 13.9 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.4 11.3 12.0 813.6 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.2 0.5 13.9 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.2 0.2 0.4 11.3 12.0 813.5 14.7 9.9 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.2 0.2 0.4 11.3 12.0 813.5 14.7 9.9 0.1 0.3 164.4 323.5 360.0 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 340.2 833.5 3	1960	5.6	57.8	0.8	3.6	9.1	13.5	34.4	0.0	0.0	15.2	126.5	37.7	164.2
1975		2.7	69.9	1.2	2.6	12.4	16.2	23.5	0.0		23.7			192.4
1980	1970	1.7	90.1	1.5			17.9	14.6			42.6		103.0	269.8
1985	1975		89.5	1.7	0.2	14.5	16.4	15.2	0.0	0.0	56.2	177.6	135.0	312.6
1990	1980	0.1	93.1	3.4	0.5	13.1	16.9	20.7	0.0		68.4	199.2		363.9
1995			K 86.4	2.3	1.5	14.2								395.4
1997 (s) 117.6 0.5 0.8 15.9 17.1 13.7 0.1 0.2 125.7 274.3 284.7 1998 (s) 110.3 0.5 1.0 13.6 15.1 12.2 0.1 0.2 141.7 279.6 321.3 1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 142.5 273.7 326.0 2000 (s) 143.4 0.4 1.1 16.8 18.4 13.8 0.1 0.2 152.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R	1990	0.1	N 92.7	1./		12.3	14.7	11.0		0.1	102.1	220.7	236.2	456.8
1997 (s) 117.6 0.5 0.8 15.9 17.1 13.7 0.1 0.2 125.7 274.3 284.7 1998 (s) 110.3 0.5 1.0 13.6 15.1 12.2 0.1 0.2 141.7 279.6 321.3 1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 142.5 273.7 326.0 2000 (s) 143.4 0.4 1.1 16.8 18.4 13.8 0.1 0.2 152.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R	1995	0.2	117.6	1.0	0.7	14.5	16.2	16.6	(S)	0.2	122.2	272.9	2//.5	550.4 585.7
1998 (s) 110.3 0.5 1.0 13.6 15.1 12.2 0.1 0.2 141.7 279.6 321.3 1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 142.5 273.7 326.0 2000 (s) 143.4 0.4 1.1 16.8 18.4 13.8 0.1 0.2 152.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 113 12.0 812.6 0.1 0.3 180.2 8 335.5 394.2 R	1996	(S)	130.0	0.9	0.8	14.7	16.4	17.2	(S)	0.2	128.8	292.7	293.0	585.7 559.0
1999 0.1 101.4 0.3 1.4 14.8 16.5 12.8 0.1 0.2 142.5 273.7 326.0 2000 (s) 143.4 0.4 1.1 16.8 18.4 13.8 0.1 0.2 152.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R	1997	(8)		0.5					0.1	0.2		270.6	∠ŏ4./ 221.2	559.0 600.9
2000 (s) 143.4 0.4 1.1 16.8 18.4 13.8 0.1 0.2 152.0 327.9 345.8 2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 113 12.0 R12.6 0.1 0.3 180.2 R 335.5 394.2 R	1000	(5) 0.1	10.3	0.5	1.0	10.0	15.1	12.Z 12.Q		0.2	141.7	273.0	321.3 326.0	599.6
2001 (s) 124.1 0.4 1.0 11.9 13.3 9.1 0.1 0.2 151.4 298.2 337.4 2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 11.3 12.0 R 12.6 0.1 0.3 180.2 R 335.5 394.2 R														673.7
2002 (s) 129.8 0.3 0.5 11.9 12.7 9.2 0.1 0.3 165.8 317.8 369.6 2003 0.0 135.7 0.2 0.4 12.8 13.4 9.7 0.1 0.3 164.4 323.5 362.7 2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 11.3 12.0 R 12.6 0.1 0.3 180.2 R 333.5 394.2 R	2000	(5)	190.4	0.4			10.4			0.2	152.0	298.2	343.0 337 <i>4</i>	635.6
2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 11.3 12.0 R12.6 0.1 0.3 180.2 R 333.5 394.2 R		(s)	129.8	0.4	0.5	11.9	12.7	9.1		0.2		317.8	369.6	687.4
2004 (s) 132.1 0.2 0.5 13.9 14.7 9.9 0.1 0.3 174.4 331.6 386.0 R 2005 0.1 128.2 0.2 0.4 11.3 12.0 R12.6 0.1 0.3 180.2 R 333.5 394.2 R		0.0		0.2				9.7						686.2
2005	2004	(s)	132.1	0.2		13.9		9.9		0.3	174.4	331.6		686.2 R 717.6
Decision of the control of the contr	2005	0.1	128.2	0.2		11.3	12.0	R 12.6		0.3	180.2	R 333.5		K 727 7
2006 0.0 113.4 0.2 0.4 ^K 10.4 ^K 11.0 ^K 11.4 0.1 0.3 186.0 ^K 322.3 402.3 ^K	2006	0.0	113.4	0.2	0.4	R 10.4	R 11.0	R 11.4	0.1	0.3	186.0	R 322.3	402.3	R 724.5 744.4
2007 (s) 114.7 0.2 0.2 10.5 10.9 12.6 0.2 0.3 191.8 330.5 413.9	2007	(s)	114.7	0.2	0.2	10.5	10.9	12.6	0.2	0.3	191.8	330.5	413.9	744.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Georgia

Cal						Petro	oleum				Biomass					
Thousand Peter Thousand Barrels Thousand Ba		Coal			Kerosene	LPG b	Motor Gasoline ^c		Total ^d		Waad	-				
1965 83 26 603 149 546 306 83 1,687 0 4,560 1778 1970 56 39 713 39 735 349 108 1,945 0 8,174 1779 36 49 851 11 1 688 372 80 2,002 0 11,226 11,226 1779 1970 1970 1970 1970 1970 1970 1970	Year					Thousan	d Barrels				and	Geothermal f		Net Energy ^{f,h}	Energy	Total f,h
1965 83 26 603 149 546 306 83 1,687 0 4,560 1778 1970 56 39 713 39 735 349 108 1,945 0 8,174 1779 36 49 851 11 1 688 372 80 2,002 0 11,226 11,226 1779 1970 1970 1970 1970 1970 1970 1970	1960	157	21	373	206	402	269	59	1,308	0			2,765			
1975 36 49 851 11 688 372 80 2,002 0 11,226 11,955 1 1980 17 59 315 12 627 363 10 1,327 0 11,955 1985 30 52 1,726 46 697 310 468 3,247 0 17,009 1990 18 49 1,510 64 600 519 68 2,761 0 2,23715 1995 52 57 1,453 35 706 62 11 2,297 0 2,2873 1995 52 57 1,453 35 706 62 11 2,297 0 2,2873 1997 1,453 1,	1965	83	26	603	149	546	306	83	1,687	•			4,560			
1980 17 59 315 12 627 363 10 1.327 0 11,965 17,009 1 1990 18 49 1,510 64 600 519 68 2,761 0 23,715 1990 18 49 1,510 64 600 519 68 2,761 0 23,715 1996 52 57 1,453 35 706 62 111 2,267 0 28,793 1998 13 61 1,156 31 719 62 111 1,979 0 30,273 1998 15 57 869 28 774 632 6 2,309 0 30,273 31,352 1998 11 5 54 71 1,156 31 719 62 111 1,979 0 30,273 1998 11 5 54 71 1,27 665 155 1 1,565 0 30,273 1998 11 5 54 71 1,27 665 155 1 1,565 0 30,352 1998 11 5 54 1,133 37 723 142 23 5 2,309 0 30,354 30,354 1998 11 5 54 1,133 37 723 142 32 3 5 2,309 0 30,354 30,354 1999 11 5 54 1,133 37 723 143 58 0 58 0 59 0 59 0 59 0 59 0 59 0 59 0										0						
1985 30 52 1,726 46 66 97 310 488 3,247 0 17,009 17,009 1 1990 18 49 1,510 64 600 519 68 2,761 0 23,715 1995 52 57 1,453 35 706 62 11 2,267 0 28,793 1996 3 61 1,156 31 719 62 11 1,979 0 30,273 1997 15 57 869 28 774 632 6 2,309 0 31,352 1998 10 55 716 27 665 155 1,565 0 34,026 34,026 1999 15 44 1,211 37 7,25 142 (s) 2,115 0 35,536 34,026 2000 8 59 1,238 41 824 223 5 2,330 0 38,443 2000 8 59 1,238 41 824 223 5 2,330 0 38,443 2002 5 49 1,027 47 580 68 0 10 1,722 0 40,401 2003 0 5 50 1,077 2 67 58 8 11 1,662 0 40,401 2003 0 5 50 1,077 2 67 68 8 11 1,662 0 40,554 40,554 2005 6 55 1,077 2 67 68 8 11 1,662 0 40,554 40,554 2005 6 55 1,077 2 67 68 8 0 0 1,460 0 40,554 40,554 2005 6 55 1,077 2 67 68 8 0 0 1,460 0 40,554 2005 6 55 1,077 2 0 67 67 8 8 0 0 1,460 0 40,554 2005 6 5 53 1,077 2 0 67 67 8 8 0 0 1,460 0 40,554 2005 6 5 5 1,077 2 0 67 67 8 8 0 0 1,460 0 40,554 2005 6 5 5 1,077 2 0 67 67 8 8 0 0 1,460 0 40,554 2005 6 5 5 1,077 2 0 67 67 68 8 0 0 1,460 0 40,554 2005 6 5 5 1,077 2 0 67 67 68 8 0 0 1,460 0 40,554 2005 6 5 5 1,00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		36 17	49 59	315		688 627			2,002 1 327	0						
1990 18 49 1,510 64 600 519 68 2,761 0 23,715 1996 3 61 1,166 31 719 62 11 1,979 0 2,8793 1996 3 61 1,166 31 719 62 11 1,979 0 31,352 1997 15 57 669 28 774 632 6 2,309 0 31,352 1998 10 55 716 27 665 155 1 1,555 0 38,536 1998 10 55 716 27 665 155 1 1,555 0 38,536 1998 10 55 14 1,218 37 755 142 (8) 2,215 0 38,536 38,536 1998 10 5 54 1,218 37 755 142 (8) 2,215 0 38,536 1998 11 6 55 10 7 7 7 7 7 14 7 580 88 (9) 2,772 0 40,404 10,003 0 40,404 10,003 0 40,404 10,003 0 0 40,404 10,003 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					46				3.247	Ő						
1995 52 57 1,453 35 706 62 11 2,267 0 28,793 21,797 1996 3 61 1,156 31 719 62 11 1,979 0 30,273 1,1352 1,1352 1,1352 1,1352 1,1352 1,1352 1,1352	1990	18	49	1,510	64	600	519	68	2,761	0			23,715			
1997	1995	52	57	1,453	35	706	62		2,267	0			28,793			
1998 10 55 716 27 665 155 1 1,566 0 34,026							62		1,979	0						
1999 15 44 1,211 37 725 142 (s) 2,115 035,536 2000 8 59 1,238 41 824 223 5 2,330 0 38,443 2001 10 51 1,611 61 580 78 (s) 2,330 0 38,443 2002 5 49 1,027 47 580 68 0 1,722 0 40,401 2003 0 50 50 914 48 623 68 11 1,662 0 40,544 2004 6 55 1,077 21 679 68 0 1,846 0 40,546 2005 45 53 844 25 553 69 0 1,846 0 45,547 2006 45 53 844 25 553 69 0 1,490 0 44,663 2007 2 49 835 13 515 72 0 1,436 0 46,997 2007 2 49 835 13 515 72 0 1,436 0 46,997 2007 1 3 3 99 42 0 2 2 8 18 0.7 97 00 0.3 0.0 27 9 791 67.5 146. 1995 13 3 99 42 0.2 2 8 18 0.7 97 00 0.3 0.0 27.9 791 67.5 146. 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 1.2 (s) 80.9 147.8 197.1 335.0 1995 0.4 60.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 1.2 (s) 80.9 147.8 197.1 335.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1995 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.0 0.2 (s) 11.6 1.8 10.1 2.3 1.9 0.1 6.2 0.0 0.0 0.2 (s) 11.6 1.8 10.3 17.8 19.1 17.3 35.5 1.9 10.0 0.0 0.2 (s) 11.6 1.8 10.3 17.8 19.1 17.3 35.5 1.9 10.0 0.0 0.2 (s) 11.6 1.8 10.3 17.8 19.1 17.3 35.5 1.9 10.0 0.0 0.2 (s) 11.6			57 55	716	20 27		155	1	2,309 1 565	0			34,032			
2000 8 59 1,238 41 824 223 5 2,330 0 38,443 2002 101 10 51 1,811 61 580 78 (s) 2,330 0 39,364 2002 5 49 1,027 47 580 68 11 1 1,662 0 40,401 2003 0 40,401 2004 6 55 1,077 21 679 68 0 1,846 0 40,554 2004 6 55 1,077 21 679 68 0 1,846 0 42,316 2004 6 55 3 844 25 553 69 0 1,490 0 46,563 2006 0 48 813 7 8511 71 0 81,402 0 45,547 2007 2 49 835 13 515 72 0 1,486 0 46,937							142	(s)		Ő						
2002 5 49 1,027 47 580 68 0 1,722 0 40,401 2004 6 55 1,077 21 679 68 0 1,846 0 42,316 2004 6 55 1,077 21 679 68 0 1,846 0 42,316 2006 45 53 844 25 553 69 0 1,490 0 44,564 2006 0 48 813 7 8511 71 0 81,402 0 44,564 2007 2 49 835 13 515 72 0 1,436 0 46,997 46,997							223	5		0						
2003								(s)	2,330	0						
2004 6 55 1,077 21 679 68 0 1,846 0 42,316 42,316 44,663 <td>2002</td> <td></td> <td></td> <td>1,027</td> <td></td> <td>580</td> <td></td> <td></td> <td>1,722</td> <td>0</td> <td></td> <td></td> <td>40,401</td> <td></td> <td></td> <td></td>	2002			1,027		580			1,722	0			40,401			
2005		-								0						
2006 0 48 813 7	2005			844		553			1.490	Ő						
1960 3.9 22.1 2.2 1.2 1.6 1.4 0.4 6.7 0.0 0.7 0.0 9.4 42.8 23.3 66.2	2006	0	48	813	7	R 511	71		R 1,402				45,547			
1960 3.9 22.1 2.2 1.2 1.6 1.4 0.4 6.7 0.0 0.7 0.0 9.4 42.8 23.3 66.2 1965 2.0 27.1 3.5 0.8 2.2 1.6 0.5 8.7 0.0 0.4 0.0 15.6 53.8 37.2 91.0 1970 1.3 39.9 4.2 0.2 2.8 1.8 0.7 9.7 0.0 0.3 0.0 27.9 79.1 67.5 146.6 1975 0.8 50.8 50.8 50.0 1.1 2.6 2.0 0.5 10.0 0.0 0.3 0.0 38.3 100.2 92.1 192.3 1980 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 10.0 0.0 3.8 100.2 92.1 192.3 1985 0.7 853.0 10.1 0.3 2.5 1.6 2.9 17.4 0.0 0.6 0.0 58.0 129.7 133.7 263.4 1990 0.4 50.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 1.2 (s) 80.9 147.8 187.1 335.0 1995 1.3 58.0 8.5 0.2 2.6 0.3 0.1 11.6 0.0 2.3 (s) 98.2 171.4 223.1 394.5 1996 0.1 62.8 6.7 0.2 2.6 0.3 0.1 19.9 9 0.0 2.4 (s) 103.3 178.4 234.9 413.3 1996 0.1 62.8 6.7 0.2 2.6 0.3 0.1 9.9 0.0 2.4 (s) 103.3 178.4 234.9 413.3 1999 0.4 458.8 51.0 2.2 2.8 3.3 (s) 11.3 0.0 2.3 (s) 107.0 179.8 242.4 422.2 1998 0.2 56.9 4.2 0.2 2.4 0.8 (s) 7.5 0.0 2.0 (s) 116.1 182.8 263.3 446.1 1999 0.4 44.8 7.1 0.2 2.6 0.7 (s) 10.6 0.0 2.3 (s) 131.2 205.1 298.4 503.4 2001 0.3 52.4 9.4 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 137.8 120.3 179.1 277.3 456.5 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2007	2	49	835	13	515	72	0	1,436	0			46,997			
1965 2.0 27.1 3.5 0.8 2.2 1.6 0.5 8.7 0.0 0.4 0.0 15.6 53.8 37.2 91.0 1970 1.3 39.9 4.2 0.2 2.8 1.8 0.7 9.7 0.0 0.3 0.0 27.9 79.1 67.5 146.6 1975 0.8 50.8 50.8 5.0 0.1 2.6 2.0 0.5 10.0 0.0 0.3 0.0 38.3 100.2 92.1 192.3 1980 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1985 0.7 85.0 10.1 0.3 2.5 1.6 2.9 17.4 0.0 0.6 0.0 58.0 129.7 133.7 263.4 1990 0.4 50.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 1.2 (s) 80.9 147.8 187.1 335.0 1995 1.3 58.0 8.5 0.2 2.6 0.3 0.1 11.6 0.0 2.3 (s) 98.2 171.4 223.1 394.5 1996 0.1 62.8 6.7 0.2 2.6 0.3 0.1 11.6 0.0 2.3 (s) 98.2 171.4 223.1 394.5 1997 0.4 58.8 5.1 0.2 2.8 3.3 (s) 11.3 0.0 2.3 (s) 10.3 178.4 234.9 413.3 1997 0.4 58.8 5.1 0.2 2.8 3.3 (s) 11.3 0.0 2.3 (s) 10.7 0 179.8 242.4 422.2 1998 0.2 56.9 4.2 0.2 2.4 0.8 (s) 7.5 0.0 2.0 (s) 116.1 182.8 263.3 446.1 1999 0.4 44.8 7.1 0.2 2.6 0.7 (s) 10.6 0.0 2.3 (s) 116.1 182.8 263.3 446.1 2000 0.2 59.9 7.2 0.2 3.0 1.2 (s) 11.6 0.0 2.3 (s) 131.2 205.1 298.4 503.4 2001 0.3 52.4 9.4 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 134.3 200.8 299.3 500.1 2002 0.1 49.8 6.0 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 134.3 200.8 299.3 500.1 2002 0.1 49.8 6.0 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 134.4 20.9 305.3 506.2 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 7.4 0.0 8.7 (s) 152.4 (s) 144.4 21.9 319.5 552.4 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 7.4 0.0 8.7 (s) 152.4 217.4 333.3 8550.2 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 7.4 0.0 8.7 (s) 152.4 217.4 333.3 8550.7 2005 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.									Trillion Btu							
1970			22.1	2.2											23.3	
1975 0.8 50.8 5.0 0.1 2.6 2.0 0.5 10.0 0.0 0.3 0.0 38.3 100.2 92.1 192.3 1980 0.4 60.6 1.8 0.1 2.3 1.9 0.1 6.2 0.0 0.5 0.0 40.8 108.6 98.4 207.0 1985 0.7 R 53.0 10.1 0.3 2.5 1.6 2.9 17.4 0.0 0.6 0.0 58.0 129.7 133.7 263.4 1990 0.4 50.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 0.6 0.0 58.0 129.7 133.7 263.4 1995 1.3 58.0 8.5 0.2 2.6 0.3 0.1 11.6 0.0 2.3 (s) 98.2 171.4 223.1 394.5 1996 0.1 62.8 6.7 0.2 2.6 0.3 0.1 19.9 0.0 <td></td> <td>2.0</td> <td></td> <td>3.5</td> <td>0.8</td> <td>2.2</td> <td></td> <td>0.5</td> <td>8.7</td> <td>0.0</td> <td></td> <td></td> <td>15.6</td> <td></td> <td>37.2</td> <td></td>		2.0		3.5	0.8	2.2		0.5	8.7	0.0			15.6		37.2	
1980				4.2											67.5	146.6
1985	1975	0.6			0.1	2.0		0.5	6.2	0.0	0.5		30.3 40.8		92.1	207.0
1990 0.4 50.8 8.8 0.4 2.2 2.7 0.4 14.5 0.0 1.2 (s) 80.9 147.8 187.1 335.0 1995 1.3 58.0 8.5 0.2 2.6 0.3 0.1 11.6 0.0 2.3 (s) 98.2 171.4 223.1 394.5 1996 0.1 62.8 6.7 0.2 2.6 0.3 0.1 19.9 0.0 2.4 (s) 103.3 178.4 234.9 941.3 1997 0.4 58.8 5.1 0.2 2.8 3.3 (s) 11.3 0.0 2.3 (s) 107.0 179.8 242.4 422.2 1998 0.2 56.9 4.2 0.2 2.4 0.8 (s) 7.5 0.0 2.0 (s) 116.1 182.8 263.3 446.1 1999 0.4 44.8 7.1 0.2 2.6 0.7 (s) 10.6 0.0<		0.7	R 53.0			2.5										
1996	1990	0.4	50.8	8.8	0.4	2.2	2.7	0.4	14.5	0.0	1.2	(s)	80.9	147.8	187.1	335.0
1997	1995	1.3	58.0	8.5	0.2	2.6	0.3		11.6	0.0	2.3	(s)	98.2	171.4	223.1	394.5
1998 0.2 56.9 4.2 0.2 2.4 0.8 (s) 7.5 0.0 2.0 (s) 116.1 182.8 263.3 446.1 1999 0.4 44.8 7.1 0.2 2.6 0.7 (s) 10.6 0.0 2.1 (s) 121.3 179.1 277.3 456.5 2000 0.2 59.9 7.2 0.2 3.0 1.2 (s) 11.6 0.0 2.3 (s) 131.2 205.1 298.4 503.4 2001 0.3 52.4 9.4 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 134.3 200.8 299.3 500.1 2002 0.1 49.8 6.0 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 137.8 198.1 307.3 505.4 2003 0.0 52.5 5.3 0.3 2.3 0.4 0.1 8.3 0.0 1.7 (s) 138.4 200.9 305.3 506.2 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 1.7 (s) 144.4 212.9 319.5 532.4 2005 1.1 54.4 4.9 0.1 2.0 0.4 0.0 9.2 0.0 1.7 (s) 152.4 217.4 333.3 850.7	1996		62.8		0.2	2.6	0.3		9.9		2.4				234.9	413.3
1999																
2000 0.2 59.9 7.2 0.2 3.0 1.2 (s) 11.6 0.0 2.3 (s) 131.2 205.1 298.4 503.4 2001 0.3 52.4 9.4 0.3 2.1 0.4 (s) 12.2 0.0 1.6 (s) 134.3 200.8 299.3 500.1 2002 0.1 49.8 6.0 0.3 2.1 0.4 0.0 8.7 0.0 1.6 (s) 137.8 198.1 307.3 505.4 2003 0.0 52.5 5.3 0.3 2.3 0.4 0.1 8.3 0.0 1.7 (s) 138.4 200.9 305.3 505.4 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 1.7 (s) 144.4 212.9 319.5 532.4 2005 1 54.4 4.9 0.1 2.0 0.4 0.0 7.4 0.0 8.2 0.0 1.7 (s) 152.4 217.4 333.3 8.550.7 </td <td>1999</td> <td></td> <td>44.8</td> <td>7.1</td> <td>0.2</td> <td>2.6</td> <td>0.7</td> <td>(s)</td> <td>10.6</td> <td>0.0</td> <td>2.1</td> <td>(s)</td> <td>121.3</td> <td>179.1</td> <td>277.3</td> <td>456.5</td>	1999		44.8	7.1	0.2	2.6	0.7	(s)	10.6	0.0	2.1	(s)	121.3	179.1	277.3	456.5
2002 0.1 49.8 6.0 0.3 2.1 0.4 0.0 8.7 0.0 1.6 (s) 137.8 198.1 307.3 505.4 2003 0.0 52.5 5.3 0.3 2.3 0.4 0.1 8.3 0.0 1.7 (s) 138.4 200.9 305.3 506.2 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 1.7 (s) 144.4 212.9 319.5 532.4 200.5 1.1 54.4 4.9 0.1 2.0 0.4 0.0 7.4 0.0 82.0 (s) 152.4 217.4 333.3 850.7	2000	0.2	59.9	7.2	0.2	3.0	1.2	(s)	11.6	0.0	2.3	(s)	131.2	205.1	298.4	503.4
2003 0.0 52.5 5.3 0.3 2.3 0.4 0.1 8.3 0.0 1.7 (s) 138.4 200.9 305.3 506.2 2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 1.7 (s) 144.4 212.9 319.5 532.4 200.9 200.5 1.1 54.4 4.9 0.1 2.0 0.4 0.0 7.4 0.0 82.0 (s) 152.4 217.4 333.3 859.7								(s)								
2004 0.2 57.5 6.3 0.1 2.5 0.4 0.0 9.2 0.0 1.7 (s) 144.4 212.9 319.5 532.4 2005 1.1 54.4 4.9 0.1 2.0 0.4 0.0 7.4 0.0 R2.0 (s) 152.4 217.4 333.3 R550.7	2002		49.8		0.3		0.4		8.7	0.0				198.1	307.3	505.4
2005 1.1 54.4 4.9 0.1 2.0 0.4 0.0 7.4 0.0 R2.0 (s) 152.4 217.4 333.3 R550.7 2006 0.0 49.5 4.7 (s) R1.8 0.4 0.0 7.0 0.0 R1.9 (s) 155.4 213.8 336.0 R549.8 2007 (s) 50.2 4.9 0.1 1.9 0.4 0.0 7.2 0.0 2.0 (s) 160.4 219.7 346.0 565.7												(-)				500.∠ 532.⁄
2006 0.0 49.5 4.7 (s) R1.8 0.4 0.0 7.0 0.0 R1.9 (s) 155.4 213.8 336.0 R549.8 2007 (s) 50.2 4.9 0.1 1.9 0.4 0.0 7.2 0.0 2.0 (s) 160.4 219.7 346.0 565.7						2.0			7.4		R 2.0				333.3	R 550.7
2007 (s) 50.2 4.9 0.1 1.9 0.4 0.0 7.2 0.0 2.0 (s) 160.4 219.7 346.0 565.7	2006	0.0	49.5	4.7	(s)	R 1.8	0.4	0.0	7.0	0.0	R 1.9	(s)	155.4	213.8	336.0	R 549.8
	2007	(s)	50.2	4.9	0.1	1.9	0.4	0.0	7.2	0.0	2.0	(s)	160.4	219.7	346.0	565.7

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Georgia

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	548	76	2,043	1,507	936	4,909	3,759	13,153	63			4,713			
1965 1970	630 506	113 141	3,538 4,014	1,716 2,430	616 124	7,117 8.457	6,083 5,717	19,070 20,741	64 58			6,903 10,853			
1975	434	145	3,557	3,478	60	6,243	7,046	20,741	56						
1980	679	155	3,993	3,188	26	5,361	11,148	23,717	54						
1985	1.575	140	4,079	1,964	1,251	10,397	9,591	27,282	54			23,122			
1990	2.232	162	4,833	1,916	1,288	2,002	12,150	22,189	36						
1995	1,949 1,985	184	4,990	2,441	829	2,599	15,005	25,864	41						
1996	1,985	182	5,484	2,579	907	3,445	13,287	25,702	41						
1997 1998	2,046 1,978	175 164	4,873 5,246	2,503 1,711	890 954	3,058 1,209	13,347 14,253	24,670 23,373	40			00,007			
1996	1,968	154	6,224	1,711	982	1,053	16,528	26,736	26 20			05,055			
2000	1,990	166	6,475	3,498	981	1,300	14,147	26,401	22						
2001	1.994	138	7,900	2,708	2,338	922	14,605	28,473	29			00'044			
2002	1,828	143	6,556	2,823	2,387	1,812	14,937	28,515	29			34,603			
2003	1.761	159	6,332	1,956	2,556	2,297	14,701	27,842	27			07,700			
2004	1,771	161	6,167	1,788	2,811	2,853	16,464	30,084	24						
2005	1,700	156 R 160	6,846	2,345	2,710	3,013	15,839	30,754 R 29,064	20						
2006 2007	1,587 1,508	152	5,896 5,737	R 2,427 2,083	2,808 1,784	1,912 1,343	16,020 15,790	26,737	23 19			- :,			
2007	1,500	132	3,737	2,003	1,704	1,040			13			34,034			
							Tr	illion Btu							
1960	13.9	78.6	11.9	6.0	4.9	30.9	23.8	77.6	0.7	36.2	0.0		223.0	39.8	262.8
1965	15.9	117.0	20.6	6.9	3.2	44.7	38.2	113.7	0.7	50.3	0.0		321.1	56.2	377.4
1970	12.0	145.3	23.4	9.2	0.7	53.2	36.1	122.5	0.6	56.9	0.0		374.3	89.6	464.0
1975 1980	10.2 16.5	149.4 160.1	20.7 23.3	12.9 11.7	0.3 0.1	39.2 33.7	43.9 67.0	117.1 135.8	0.6 0.6	62.9 76.9	0.0 0.0		387.4 455.4	113.8 157.9	501.2 613.3
1985	39.1	143.9	23.8	7.1	6.6	65.4	58.0	160.8	0.6	90.1	0.0		513.3	181.7	695.0
1990	56.1	R 166.4	28.2	6.9	6.8	12.6	74.3	128.7	0.6	175.5	0.0		618.1	210.8	828.9
1995	49.1	R 188.5	29.1	8.8	4.3	16.3	88.9	147.4	0.4	186.5	0.0	107.5	679.3	244.0	923.4
1996	49.9	185.9	31.9	9.3	4.7	21.7	79.4	147.1	0.4	188.4	0.0	113.2	684.9	257.4	942.3
1997	51.3	179.6	28.4	9.0	4.6	19.2	79.4	140.7	0.4	201.0	0.0	115.9	688.9	262.5	951.4
1998	49.6	R 169.0	30.6	6.2	5.0	7.6	85.1	134.4	0.3	188.5	0.0		661.4	271.4	932.9
1999	49.4	158.0	36.3	7.0	5.1	6.6	99.7	154.7	0.2	187.8	(s)		670.4	275.1	945.6
2000	51.0	R 169.2	37.7	12.6	5.1	8.2	84.4	148.0	0.2	180.7	(s)		672.3	280.1	952.3
2001	51.3	R 142.7	46.0	9.8	12.2	5.8	87.3	161.1	0.3	154.0	(s)	115.8	625.1	258.1	883.2
2002 2003	47.3 45.5	146.6 166.5	38.2 36.9	10.2 7.1	12.4 13.3	11.4 14.4	89.0 87.4	161.2 159.2	0.3 0.3	244.7 167.8	(s) (s)	118.1 118.6	718.2 657.9	263.2 261.8	981.4
2003	45.5 45.5	167.7	35.9	6.5	14.7	17.9	98.5	173.5	0.3	177.6	(S)		686.8	270.6	919.7 R 957.5
2004	43.5	160.7	39.9	8.5	14.1	18.9	94.9	176.4	0.2	167.5	(s)		_ 666.4	258.2	924.6
2006	40.7	R 164.1	34.3	R 8.7	14.7	12.0	96.6	R 166.4	0.2	R 175.8	(s)	118.0	R 665.3	255.2	R 920.5
2007	38.8	156.1	33.4	7.5	9.3	8.4	95.2	153.8	0.2	171.6	(s)		636.7	250.7	887.4

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Georgia

Th	9 2 1 (s) 0	Natural Gas ^a Billion Cubic Feet 4 5 7	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year Sh 1960 1965 1970 1975 1980 1985	9 2 1 (s) 0	Cubic Feet 4 5	262	2 502		Thous									
1965 1970 1975 1980 1985	2 1 (s) 0	5	262	2 502			and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1970 1975 1980 1985	1 (s) 0		റാഠ	2,002	2,306	66	530	30,875	1,544	38,175	0	43			
1975 1980 1985	Ó	1		4,177	2,158	69	583	38,215	1,162	47,292	0	0			
1980 1985	Ó	4	600 399	7,747 10,331	10,506 12,887	100 106	549 516	53,608 65,110	172 427	73,283 89,776	0	0			
1985		7	386	14,135	16.421	76	618	65,116	2,995	99,747	0	16			
1000	0	5	212	18,205	16,236	212	562	71,432	1,009	107,868	0	61			
	0	7	196	22,069	18,439	105	632	81,341	1,307	124,089	205	75			
1995 1996	0	8	156	27,300	18,451	140	603	96,781	1,383	144,815	3	94 96			
1996	0	9 8	168 157	33,077 29,899	17,293 R 15,240 R 15,148	120 136	586 619	100,094 100,054	1,237 1,106	152,574 R 147,210 R 152,692	0	109			
1998	0	8	138	30,055	R 15,240	41	648	105,751	912	R 152 692	0	98			
1999	0	9	149	32,082	15,316	120	654	108,795	755	157,872	Ő	98			
2000	0	6	106	33,804	13,046	118	644	109,916	823	158,456	0	96			
2001	0	8	92	35,439	9,903	119	591	111,135	650	157,929	0	105			
2002	0	9	114	33,867	7,430 R 8,790	128	584	114,419	1,795	158,337	0	186			
2003 2004	0	8 7	140 209	34,991 38,197	1. 8,790 9.177	183 188	539 547	115,621 117,872	1,991 3,812	162,255 170,002	0	180 180			
2004	0	7	209	42.750	9,177	278	544	119,515	4,451	170,002	R 668	174			
2006	Õ	7	184	41,060	6,552	258	530	117,561	7,968	174,113	R 668 R 963	179			
2007	0	6	162	38,876	6,726	210	547	119,213	5,653	171,387	1,438	179			
								Trillion Btu							
1960	0.2	3.7	1.3	15.1	12.4	0.3	3.2	162.2	9.7	204.2	0.0	0.1	208.2	0.4	208.6
1965 1970	0.1	5.0	4.7	24.3	11.6	0.3 0.4	3.5 3.3	200.7 281.6	7.3	252.5	0.0 0.0	0.0	257.5 400.6	0.0	257.5 400.6
1970	(s)	7.1 4.3	3.0 2.0	45.1 60.2	59.0 72.6	0.4	3.3	342.0	1.1 2.7	393.5 483.0	0.0	0.0 0.0	400.6	0.0 0.0	400.6
1980	(s) 0.0	7.6	1.9	82.3	92.6	0.4	3.7	342.1	18.8	541.8	0.0	0.0	549.4	0.0	549.6
1985	0.0	5.5	1.1	106.0	91.5	0.8	3.4	375.2	6.3	584.4	0.0	0.2	590.1	0.5	590.6
1990	0.0	7.5	1.0	128.6	104.2	0.4	3.8	427.3	8.2	673.4	0.7	0.3	681.9	0.6	682.5
1995	0.0	8.0	0.8	159.0	104.6	0.5	3.7	504.7	8.7	782.0	(s) 0.0	0.3	790.3	0.7	791.1
1996	0.0	8.9	0.8	192.7	98.0	0.4	3.6	522.1	7.8	825.4	0.0	0.3	834.6	0.7	835.4
1997 1998	0.0 0.0	8.5 8.2	0.8 0.7	174.2 175.1	86.4 R 85.9	0.5 0.1	3.8 3.9	521.6 551.2	7.0 5.7	794.1 822.6	0.0 0.0	0.4 0.3	803.0 831.1	0.8 0.8	R 803.9 R 831.9
1998	0.0	9.5	0.7	186.9	86.8	0.1	3.9 4.0	566.9	5. <i>1</i> 4.7	850.6	0.0	0.3	860.4	0.8	861.2
2000	0.0	6.2	0.5	196.9	74.0	0.4	3.9	572.7	5.2	853.6	0.0	0.3	860.1	0.5	860.9
2001	0.0	8.2	0.5	206.4	56.2	0.4	3.6	579.0	4.1	850.2	0.0	0.4	858.7	0.8	859.5
2002	0.0	8.7	0.6	197.3	42.1	0.5	3.5	595.9	11.3	851.2	0.0	0.6	860.5	1.4	861.9
2003	0.0	8.3	0.7	203.8	49.8	0.7	3.3	602.0	12.5	872.9	0.0	0.6	881.7	1.4	883.1
2004	0.0	7.3	1.1	222.5	52.0	0.7	3.3	614.7	24.0	918.3	0.0 R 2.4	0.6	926.1	1.4	927.5
2005 2006	0.0 0.0	6.8 7.3	1.1 0.9	249.0 239.2	54.3 37.1	1.0 0.9	3.3 3.2	623.6 613.4	28.0 50.1	960.4 944.9	R 2.4 R 3.4	0.6 0.6	967.8 952.8	1.3 1.3	969.1 954.1
2006	0.0	7.3 6.4	0.9	239.2 226.5	38.1	0.9	3.2	622.2	35.5	944.9	5.1	0.6	934.2	1.3	934.1

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Georgia

				Petro	oleum				Biomass				= 1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	2.608	25	39	1	0	40	0	2,243		0	0	0	0	
1965	2,608 5,291	1	39 52	2	Ö	54	0	3,170		Ō	0	0	0	
1970	7,498	59	1,542	58	0	1,600	0	2,461		0	0	0	0	
1975	12,656	40	4,059	1,077	0	5,136	3,093	4,278		0	0	0	0	
1980	21,191	4	670 57	415	0	1,085	8,436	4,369		0	0	0	0	
1985 1990	28,285 27,812	1 2	57 115	235 218	0	292 333	10,130 24,797	2,772 4,553		0	0	0	0	
1995	29,280	11	109	386	0	495	30,661	4,156		0	0	0	0	
1996	29,200	6	84	559	0	643	29,925	4,638		0	0	0	0	
1997	30,784	17	81	458	0	539	30.414	4,239		0	ő	0	0	
1998	30,731	33	245	1,400	ŏ	1,645	31,380	5,209		0	ŏ	Ő	0	
1999	31,506	33	391	1,065	Ö	1,456	31,478	2,731		Õ	Ŏ	Ö	Ö	
2000	33,150	33 42	583	1,009	0	1,591	32,473	2.459		0	0	0	0	
2001	30,891	35 57	153	543	0	696	33,682	2,567 2,687		0	0	0	0	
2002	32,637	57	93	441	0	534	31,108	2,687		0	0	0	0	
2003	33,350	32	130	614	0	744	33,257	4,113		0	0	0	0	
2004	36,094	46	87	250	0	337	33,748	3,668		0	0	0	0	
2005	39,137	72 95	184	287	0	470	31,534	4,012		0	0	0	0	
2006 2007	38,890 40,803	122	56 34	136 159	0	192 193	32,006 32,545	2,546 2,217		0	0	0	0	
2001	+0,000	122		100		130	Trillion E			0	0	0		
1960	65.3	26.2	0.2	(s)	0.0	0.3	0.0	24.1	0.0	0.0	0.0	0.0	0.0	115.9
1965	131.9	0.9	0.3	(s)	0.0	0.3	0.0	33.1	0.0	0.0	0.0	0.0	0.0	166.3
1970 1975	178.1 300.6	60.5 41.5	9.7 25.5	0.3 6.3	0.0 0.0	10.0 31.8	0.0 34.1	25.8 44.5	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	274.5 452.4
1975	504.5	3.8	4.2	2.4	0.0	6.6	92.0	44.5 45.4	0.0	0.0 0.0	0.0	0.0	0.0	652.3
1985	685.7	0.9	0.4	1.4	0.0	1.7	107.6	29.0	0.0	0.0	0.0	0.0	0.0	824.8
1990	657.4	2.0	0.7	1.3	0.0	2.0	262.4	47.4	0.0	0.0	0.0	0.0	0.0	971.2
1995	673.2	11.4	0.7	2.2	0.0	2.9	322.2	42.9	0.2	0.0	0.0	0.0	0.0	1,052.8
1996	673.1	5.9	0.5	3.3	0.0	3.8	314.3	48.0	0.2 0.2	0.0	0.0	0.0	0.0	1.045.3
1997	716.2	17.2	0.5	27	0.0	3.2	319.2	43.3	1.5	0.0	0.0	0.0	0.0	1,100.6
1998	717.5	34.2	1.5	8.2	0.0	9.7	329.2	53.1	0.2	0.0	0.0	0.0	0.0	1,144.0
1999	732.8	33.4	2.5	6.2	0.0	8.7	328.9	27.9	0.2	0.0	0.0	0.0	0.0	1,132.0
2000	768.3	42.7	3.7	5.9 3.2	0.0	9.5	338.7	25.1	0.1	0.0	0.0	0.0	0.0	1,184.4
2001	720.5	35.3	1.0	3.2	0.0	4.1	351.9	26.5	0.2	0.0	0.0	0.0	0.0	1,138.6
2002 2003	759.7 773.5	57.8 33.0	0.6 0.8	2.6 3.6	0.0 0.0	3.2 4.4	324.7 346.6	27.3 42.1	0.2 0.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,172.9 1,199.8
2003	773.5 R 789.4	33.0 47.3	0.8 0.5	3.6 1.5	0.0	2.0	346.6 351.9	42.1 36.8	0.2	0.0	0.0	0.0	0.0	1,199.8
2004	856.3	75.6	1.2	1.7	0.0	2.8	329.1	40.1	0.2	0.0	0.0	0.0	0.0	1,304.1
2006	852.0	99.2	0.4	0.8	0.0	1.1	333.9	25.2	0.2	0.0	0.0	0.0	0.0	1,311.8
2007	895.8	126.6	0.2	0.9	0.0	1.1	341.3	21.9	0.2	0.0	0.0	0.0	0.0	1,387.0
						•								,

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Hawaii

						Petroleum				Nueleen	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millio	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ⁹
1960	0	0	886	4,321	112	3,429	4,766	3,331	16,844	0	27					
1965	0	0	1,612	7,618	219	4,082	7,230	1,717	22,478	0	105					
1970 1975	0	0	1,695 1,948	14,273 14,849	938 872	5,691 6,766	10,154 11,255	1,354 1,408	34,105 37,097	0	108 89					
1980	ő	3	5,987	14,116	1,573	7,231	13,196	1,459	43,562	ő	86					
1985	46	2	4,526	13,260	133	7,594	13,185	1,308	40,006	0	86					
1990 1995	29 895	3	6,489 5,787	12,646 9,940	178 1,316	8,670 9,416	19,067 14,473	2,965 2,909	50,015 43,842	0	80 98					
1995	930	3	4,950		1,319	9,374	12,667	3,233	41 631	0	104					
1997	933	3	4,640	10,087 R _{10,221}	241	9,358	12,218	3,152	R 39.829	Ő	115					
1998	822	3	4,451	R 9,999	844	9.342	13,243	2,613	R 40 493	0	121					
1999 2000	801 816	3	5,314 5,094	9,474 9,438	376 562	8,953 9,289	12,945 13,520	2,601 2,688	39,662 40,591	0	115 103					
2000	829	3	6,040	8,895	582	9,209	13,284	2,969	41,479	0	103					
2002	748	3	8.086	R 10 189	770	10,419	12.738	2,569	R 44 772	0	95					
2003	837	3	8,031	R 12.708	492	10,597	12,079	2,779	R 46,686	0	91					
2004 2005	857 805	3	8,634 7,307	R 13,379 16,372	462 _ 432	10,741 10,978	13,110 13,210	2,772 2,968	R 49,098	0	94 96					
2005	797	3	6,691	15,334	R 471	11,533	14,687	2,839	51,267 R 51,554	0	120					
2007	855	3	9,294	12,756	419	11,348	16,318	2,762	52,897	0	92					
								Trillion Btu								
1960 1965	0.0	0.0	5.2 9.4	23.5	0.4	18.0	30.0	17.5	94.6	0.0	0.3	0.0	0.0	0.0	0.0	94.9
1905	0.0 0.0	0.0 0.0	9.4	42.3 80.1	0.9 3.5	21.4 29.9	45.5 63.8	9.9 8.2	129.3 195.4	0.0 0.0	1.1 1.1	0.2 0.4	0.0 0.0	0.0 0.0	0.0	130.6 197.0
1975	0.0	0.0	11.3	83.5	3.2	35.5	70.8	8.6	212.9	0.0	0.9	0.6	0.0	0.0	0.0	214.4
1980	0.0	R 3.0	34.9	79.2	5.8	38.0	83.0	8.8	249.6	0.0	0.9	11.9	0.0	0.0	-3.0	262.4
1985 1990	1.1 0.7	R 2.7 R 3.0	26.4 37.8	74.4 71.1	0.5 0.6	39.9 45.5	82.9 119.9	8.0 17.8	232.1 292.7	0.0 0.0	0.9 0.8	14.2 25.9	0.4 1.2	0.0 0.0	-2.7 -3.0	248.7 321.4
1990	19.9	R 2.9	37.0	71.1 56.4	4.8	49.1	91.0	17.6	252.7 252.6	0.0	1.0	25.9 19.8	6.3	0.0	-3.0 -2.9	299.6
1996	20.4	Rag	28.8	57.2 R 58.0	4.8	48.9	79.6	19.5	238.9	0.0	1.1	19.1	6.6	0.0	-2.8	285.9
1997	20.5	R 2.7	27.0	R 58.0	0.9	48.8	76.8	19.1	230.5	0.0	1.2	17.4	6.6	0.0	-2.7	276.2
1998	18.2	R 2.8	25.9	R 56.7	3.1	48.7	83.3	15.9	R 233.5	0.0	1.2	16.5	6.5	0.0	-2.8	R 276.0
1999 2000	17.7 17.7	R 2.9 R 3.0	31.0 29.7	53.7 53.5	1.4 2.0	46.7 48.4	81.4 85.0	15.9 16.6	229.9 235.2	0.0 0.0	1.2 1.1	17.0 15.2	6.0 7.1	0.0 0.0	-2.9 -2.9	271.7 276.2
2001	17.8	R 2.9	35.2	50.4	2.1	50.6	83.5	18.0	239.8	0.0	1.0	15.2 R 7.9	5.7	0.0	-2.8	272.4
2002	16.6	R 2.9	47.1	R 57.8	2.8	54.3	80.1	15.5	R 257.5	0.0	1.0	7.5	2.9	0.0	-2.8	R 285.6
2003 2004	19.3 19.3	R 2.9 R 2.9	46.8 50.3	R 72.1 R 75.9	1.8 1.7	55.2 56.0	75.9 82.4	16.7 16.7	R 268.5 R 283.0	0.0 0.0	0.9 0.9	9.3 9.3	5.2 6.0	0.0 0.0	-2.7 -2.8	R 303.3 R 318.7
2004	18.0	R 2.9	42.6	92.8	16	57.3	83.0	17.9	_ 295.2	0.0	1.0	8.2	6.3	0.0	-2.0 -2.7	_ 328.8
2006	18.0	R 2.9 R 2.9	39.0	86.9	R 1.7	60.2	92.3	17.0	R 297.1	0.0	1.2	8.5	7.0	0.0	-2.7	R 332.1
2007	19.1	3.0	54.1	72.3	1.5	59.2	102.6	16.5	306.3	0.0	0.9	8.0	9.2	0.0	-2.8	343.7

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Hawaii

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	0	0	(s) 1	0	57	58	0			514			
1965	0	0	1	0	113	114	0			861			
1970	0	0	1	0	447 320	449	0			1,285 1,663			
1975 1980	0	0	1	0	430	321 431	0			1,841			
1985	0	1	(e)	0	101	101	0			1,879			
1990	0	1	(s) (s) 2	0	127	128	0			2,324			
1995	0	1	2	(s)	86	88	0			2,606			
1996	0	1	(s)	(s)	107	107	0			2,676			
1997	0	1	(s) (s)	(s)	198	198	Õ			2,668			
1997 1998	Ō	1	(s)	(s)	563	198 563	Ō			2,641			
1999 2000	0	1	(s)	(s)	319	319 437	0			2,689			
2000	0	1	(s)	(s)	436	437	0			2,765			
2001	0	1	(s)	(s)	443	443	0			2,802			
2002	0	1	(s) (s)	(s)	444	445	0			2,898			
2003	0	1	(s)	(s)	329	330	0			3,028			
2004	0		(s)	(s)	336	336	0			3,162			
2005 2006	0	1	(s) (s) 3	(s)	343 R 351	343 R 354	0			3,164			
2006	0	1	3	(s) (s)	296	299	0			3,182 3,201			
		<u> </u>		(0)			illion Btu			0,20			
1960 1965	0.0	0.0 0.0	(s) (s)	0.0	0.2 0.5 1.7	0.2 0.5 1.7	0.0	0.0	0.0	1.8 2.9	2.0	5.3 6.7	7.3
1965	0.0	0.0	(S)	0.0	0.5	0.5	0.0	0.0	0.0	2.9	3.4	6.7	10.1
1970 1975	0.0	0.0	(s)	0.0	1.7	1.7	0.0	0.0	0.0	4.4 5.7	6.1	10.3	16.4
1975	0.0	0.0 R 1.4	(s)	0.0	1.2	1.2	0.0	0.0	0.0 0.0	6.3	6.9	12.7 14.0	19.6
1980 1985	0.0 0.0	R 1.4 R 0.7	(s) (s)	0.0 0.0	1.6 0.4	1.6 0.4	0.0 0.0	0.0 0.0	0.0	6.4	7.9 6.8	13.4	21.9 20.2
1990	0.0	R 0.6	(s)	0.0	0.5	0.5	0.0	0.0	0.0	7.9	9.3	21.7	31.0
1995	0.0	R 0.6	(s)	(s)	0.3	0.3	0.0	0.0	1.2	8.9	10.4	21.7	31.0 32.2
1996	0.0	R 0.6	(s)	(s)	0.0	0.0	0.0	0.0	1.3	9.1	10.8	22.3	33.0
1996 1997	0.0	R 0.6 R 0.6 R 0.5	(s)	(s)	0.3 0.4 0.7	0.3 0.4 0.7	0.0	0.0	1.3	9.1 9.1	11.1	22.2	33.0 33.3
1998	0.0	r 0.6	(s)	(s)	2.0	2.0	0.0	0.0	1.3	9.0	12.4	21.8	34.2
1998 1999	0.0	Rns	(s)	(s)	2.0 1.2	2.0 1.2	0.0	0.0 0.0	1.4	9.0 9.2	11.7	22.0	34.2 33.7
2000	0.0	R 0.6 R 0.6	(s)	(s)	1.6	1.6	0.0	0.0	1.4	9.4	12.4	22.3	34.7
2001	0.0	R 0.6	(s)	(s)	1.6	1.6	0.0	0.0	1.3	9.6	12.5	21.2	33.8
2002	0.0	K 0.6	(s)	(s)	1.6 1.2	1.6 1.2	0.0	0.0	1.4	9.9	12.9	22.8	35.7
2003	0.0	R 0.6	(s)	(s)	1.2	1.2	0.0	0.0	1.4	10.3	13.0	22.0	35.0
2004	0.0	R 0.5	(s)	(s)	1.2	1.2	0.0	0.0	1.5	10.8	13.5	22.5	36.0
2005	0.0	R 0.5	(s)	(s)	1.2 R 1.3	1.2 R 1.3	0.0	0.0	1.6	10.8	13.7 R 13.9	22.9	36.6 R 37.1
2006 2007	0.0 0.0	R 0.5 0.5	(s) (s) (s)	(s) (s)	^K 1.3 1.1	^K 1.3 1.1	0.0 0.0	0.0 0.0	1.8 2.0	10.9 10.9	^ 13.9 14.1	23.2 23.7	* 37.1 37.7
2001	0.0	0.5	(5)	(9)	1.1	1.1	0.0	0.0	2.0	10.9	14.1	23.1	31.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Hawaii

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wasd		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	0	0	48	23	10	55	41	177	0			306			
1965	0	0	71	23 39	20	59	31	220	0			495			
1970	0	0	174	87	79	133	38	511	0			771			
1975 1980	0	0 2	84 398	45 0	57 76	98 54	15 25	299 552	0			1,109 1.462			
1985	0	2	132	1	18	47	25	219	0			1,402			
1990	0	2	453	(s)	22	59	825	1,360	0			2,253			
1995	Ö	2	343	(s)	15	11	62	432	Ö			2,779			
1996	0	2	224	(s)	19	11	13	266	0			2,819			
1997	0	2	392	(s)	35	11	_11	449	0			2,839			
1998	0	2	211	(s)	99 56	11	1,704	2,025	0			2,833			
1999 2000	0	2	260 218	(s) (s)	56 77	11 11	6 8	333 315	0			2,944 3.092			
2000	0	2	136	(S)	77 78	12	o 5	231	0			3,092 3,192			
2002	0	2	310	(s)	78	12	(s)	400	0			3,223			
2003	Ö	2	274	(s)	58	12	Ó	344	Õ			3,517			
2004	0	2	382	(s)	59	12	4	457	0			3,632			
2005	0	2	384	(s)	_ 60	12	3	_ 460	0			3,463			
2006	0	2	392	(s)	R 62	12	1	R 467	0			3,490			
2007	0	2	282	(s)	52	12	(s)	346	0			3,520			
								Trillion Btu							
1960	0.0	0.0	0.3	0.1	(s)	0.3	0.3	1.0	0.0	0.0	0.0	1.0	2.0	3.1	5.2
1965	0.0	0.0	0.4	0.2	0.1	0.3	0.2	1.2	0.0	0.0	0.0	1.7	2.9	3.9	6.8
1970	0.0	0.0	1.0	0.5	0.3	0.7	0.2	2.7	0.0	0.0	0.0	2.6	5.4	6.2	11.6
1975 1980	0.0	0.0 R 1.7	0.5	0.3 0.0	0.2 0.3	0.5 0.3	0.1	1.6	0.0	0.0	0.0 0.0	3.8	5.4 8.0	8.5 11.1	13.8
1980	0.0 0.0	R 2.0	2.3 0.8	0.0 (s)	0.3	0.3	0.2 0.1	3.0 1.2	0.0 0.0	0.0 0.0	0.0	5.0 5.5	6.7	11.1	19.1 18.2
1990	0.0	R 2.0 R 2.4	2.6	(s)	0.1	0.3	5.2	8.2	0.0	0.0	0.0	7.7	15.9	21.0	36.9
1995	0.0	R 2.3	2.0	(s)	0.1	0.1	0.4	2.5	0.0	0.0	0.0	9.5	12.0	23.2	35.2
1996	0.0	R 2.3	1.3	(s)	0.1	0.1	0.1	1.5	0.0	0.0	0.0	9.6	11.1	23.4	34.6
1997	0.0	R 1.8	2.3	(s)	0.1	0.1	0.1	2.5	0.0	0.0	0.0	9.7	12.2	23.6	35.9
1998	0.0	R 1.8	1.2 1.5	(s)	0.4	0.1	10.7	12.4	0.0	0.0	0.0	9.7	22.0	23.4	45.5
1999	0.0	R 1.8 R 1.9	1.5	(s)	0.2	0.1	(s) 0.1	1.8	0.0	0.0	(s) (s)	10.0	11.9	24.1	36.0
2000 2001	0.0 0.0	N 1.9 R 1.8	1.3 0.8	(s) (s)	0.3 0.3	0.1 0.1		1.7 1.2	0.0 0.0	0.0 0.0	(S) (S)	10.6 10.9	12.3 12.2	25.0 24.2	37.2 36.3
2001	0.0	R ₁ Q	1.8	(S)	0.3	0.1	(s)	2.2	0.0	0.0	(S)	11.0	13.2	25.4	38.6
2002	0.0	R 1 8	1.6	(s)	0.3	0.1	(s) 0.0	1.9	0.0	0.0	(s)	12.0	14.0	25.6	39.5
2004	0.0	R 1.9	2.2	(s)	0.2	0.1	(s)	2.5	0.0	2.5	(s)	12.4	17.6	25.9	43.5
2005	0.0	K19	2.2	(s)	0.2	0.1	(s)	2.5	0.0	2.2	(s)	11.8	16.7	25.1	41.8
2006	0.0	R 1.9 1.9	2.3	(s)	0.2	0.1	(s)	R 2.6	0.0	2.6	(s) (s)	11.9	R 17.2	25.4	R 42.6 42.4
2007	0.0	1.9	1.6	(s)	0.2	0.1	(s)	1.9	0.0	2.3	(s)	12.0	16.3	26.0	42.4

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Hawaii

Coal Coal Coal Coal Coal Coal Coal						Petro	leum				Biomass		D . !!			
Thousand Billion Club Feet Thousand Barrels Million Waste George Million Waste Million Waste Million		Coal	Natural Gas ^a		LPG b		Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}						
1965 0 0 0 635 82 76 1,712 992 3,467 83 1,096	Year					Thousand	d Barrels							Net Energy ^{f,h}	Energy	Total f,h
1965 0 0 0 635 82 76 1,712 992 3,467 83 1,096	1960	0	0	554	43	83	1.038	649	2 367	0			465			
1975 0 0 603 472 53 1,346 1,174 3,648 71 2,538	1965	Ő	Ö	635	82	76	1,712	992	3.497				1,096			
1980 0 0 1,369 1,041 49 1,491 1,186 5,135 67 3,028					386		1,671	1,066	3,874				1,720			
1985				603					3,648							
1990								1,186	5,135							
1995 192 0 548 1,207 245 1,024 2,618 5,643 64 3,803 1997 166 (s) 623 6 242 845 2,956 4,672 67 3,886 1998 146 (s) 584 181 266 305 2,428 845 2,956 4,672 67 3,877 1998 147 (s) 427 (s) 155 332 2,664 3,880 70 3,878 2000 1110 1 473 48 181 2,686 38 2,586 3,880 70 3,884 2000 110 1 1 473 48 181 2,484 2,586 3,880 70 3,884 2000 110 1 1 473 48 181 2,481 3,785 75 3,884 2000 110 1 1 473 48 181 2,481 3,785 75 3,884 2001 1 1 1 1 473 48 181 2,481 3,783 50 3,884 2001 1 1 1 1 473 48 181 2,481 3,779 50 3,870 2001 1 1 1 1 473 48 181 2,781 48 18 3,779 50 3,870 2001 50 (s) 459 247 145 446 2,481 3,779 50 3,870 3,870 2001 53 (s) 407 67 169 395 2,667 3,704 37 3,912 2006 77 (s) 456 841 141 811 2,734 8,484 38 3,912 2006 77 (s) 456 841 141 811 2,734 8,484 38 3,896 2007 77 7 1 451 58 244 428 2,665 3,836 38 3,864 2007 77 7 1 451 58 244 428 2,665 3,836 38 3,864		40 28						2 617	2,997 5,231							
1996	1995	192		548	1.207	245		2.618	5.643				3.803			
1998	1996	169		475		259	957	2,998	5,880				3,884			
1999																
2000	1998	146		584			305	2,428	3,765	75						
2001 113 1 473 61 122 8 2,849 3,513 50 3,770			(s)	427	(s)		332		3,380							
2002 50 (s) 459 247 145 446 2,481 3,779 60 3,770 2004 53 (s) 407 67 189 395 2,667 3,704 37 3,937 2005 59 (s) 512 14 133 781 2,289 4,288 34 3,912 <	2000	110	1	4/3	49	160	438	2,566	3,685				3,834			
2003	2001	50	(9)						3,313							
2004 53 (s) 407 67 169 395 2,667 3,704 37 3,937 2005 59 (s) 512 14 133 781 2,859 4,298 34 3,896 3,896 2007 77 (s) 456 R41 141 811 2,734 R4,184 38 3,896 3,896 2007 77 1 451 858 244 428 2,655 3,836 38 3,896 2007 2007 77 1 451 858 244 428 2,655 3,836 38 3,896 2007 2007 2007		52														
2005		53							3 704							
Trillion Btu 1960	2005	59		512	1/	133	781	2,859	_ 4,298	34			3,912			
Trillion Btu Tril		77	(s)	456	R 41			2,734	R 4,184				3,896			
1960	2007	77	1	451	58	244	428	2,655	3,836	38			3,864			
1970								Tr	illion Btu							
1970	1960			3.2												20.6
1975											0.2		3.7	26.1		
1980 0.0 0.0 8.0 3.8 0.3 9.4 7.3 28.7 0.7 11.9 0.0 10.3 51.7 23.0 74.7 1985 1.1 0.0 2.7 (s) 0.5 8.4 6.8 18.5 0.7 14.0 0.0 10.7 45.0 22.4 67.4 1990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 (s) 12.7 64.1 34.9 98.9 1995 4.1 0.0 3.2 4.4 1.3 6.4 16.1 31.4 0.7 13.3 (s) 13.0 62.4 31.7 94.1 1996 3.6 0.0 2.8 4.3 1.3 6.0 18.3 32.7 0.7 14.1 (s) 13.3 64.4 32.3 96.7 1997 3.7 R.0.4 3.4 0.7 1.4 1.9 12.2 0.8 11.1													5.9 8.7			
1985						0.3									23.0	74.7
1990 0.7 0.0 4.2 0.1 0.7 10.9 16.0 31.9 0.6 18.2 (s) 12.7 64.1 34.9 98.9 1995 4.1 0.0 3.2 4.4 1.3 6.4 16.1 31.4 0.7 13.3 (s) 13.0 62.4 31.7 94.1 1996 3.6 0.0 2.8 4.3 1.3 6.0 18.3 32.7 0.7 14.1 (s) 13.3 64.4 32.3 96.7 1997 3.7 80.4 3.6 (s) 1.3 5.3 18.0 28.2 0.7 11.8 (s) 13.2 57.6 32.1 89.8 1998 3.4 80.4 3.4 0.7 1.4 1.9 14.9 22.2 0.8 11.1 (s) 12.9 50.4 31.3 81.7 1999 2.7 80.5 2.5 (s) 0.8 2.1 15.1 20.5 0.7 11.6 (s) 12.8 48.2 30.7 78.9 2000 2.1 80.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 80.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 80.5 2.7 0.9 0.8 2.8 15.0 22.1 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 80.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.4 29.7 71.1 2003 1.4 80.5 2.5 0.3 0.7 2.3 16.3 22.1 0.5 1.7 (s) 13.1 38.8 28.0 26.8 2004 1.3 80.5 2.4 0.2 0.9 2.5 16.1 22.1 0.5 1.7 (s) 13.1 38.8 28.0 26.8 2004 1.3 80.5 2.4 0.2 0.9 2.5 16.1 22.1 0.5 1.7 (s) 13.1 38.8 28.0 26.8 2004 1.3 80.5 2.4 0.2 0.9 2.5 16.1 22.1 0.5 1.7 (s) 13.1 38.8 28.0 28.1 67.0 2005 1.4 80.5 2.7 80.5 2.7 80.1 0.7 4.9 17.3 25.9 0.3 1.7 (s) 13.3 82.7 28.3 71.8 2006 2.2 80.5 2.7 80.5 2.7 80.1 0.7 5.1 16.4 825.0 0.4 1.5 (s) 13.3 82.7 28.4 22.4 28.4 87.0.8	1985			2.7	(s)	0.5	8.4	6.8		0.7	14.0				22.4	67.4
1996 3.6 0.0 2.8 4.3 1.3 6.0 18.3 32.7 0.7 14.1 (s) 13.3 64.4 32.3 96.7 1997 3.7 R 0.4 3.6 (s) 1.3 5.3 18.0 28.2 0.7 11.8 (s) 13.2 57.6 32.1 89.8 1998 3.4 R 0.4 3.4 0.7 1.4 1.9 14.9 22.2 0.8 11.1 (s) 12.9 50.4 31.3 81.8 1999 2.7 R 0.5 2.5 (s) 0.8 2.1 15.1 20.5 0.7 11.6 (s) 12.8 48.2 30.7 78.9 2000 2.1 R 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 13.1 48.1 31.0 79.1 2002 0	1990				0.1		10.9					(s)				98.9
1997 3.7 R 0.4 3.6 (s) 1.3 5.3 18.0 28.2 0.7 11.8 (s) 13.2 57.6 32.1 89.8 1998 3.4 R 0.4 3.4 0.7 1.4 1.9 14.9 22.2 0.8 11.1 (s) 12.9 50.4 31.3 81.7 1999 2.7 R 0.5 2.5 (s) 0.8 2.1 15.1 20.5 0.7 11.6 (s) 12.8 48.2 30.7 78.9 2000 2.1 R 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 R 0.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.6 28.7 71.1 2003	1995			3.2		1.3	6.4								31.7	94.1
1998 3.4 R 0.4 3.4 0.7 1.4 1.9 14.9 22.2 0.8 11.1 (s) 12.9 50.4 31.3 81.7 1999 2.7 R 0.5 2.5 (s) 0.8 2.1 15.1 20.5 0.7 11.6 (s) 12.9 50.4 31.3 81.7 2000 2.1 R 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 R 0.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.4 29.7 71.1 2003 1.4 R 0.5 2.5 0.3 0.7 2.3 16.3 22.1 0.5 1.7 (s) 13.1 38.8 28.0 66.8 2004 1			0.0													96.7
1999 2.7 R 0.5 2.5 (s) 0.8 2.1 15.1 20.5 0.7 11.6 (s) 12.8 48.2 30.7 78.9 2000 2.1 R 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 R 0.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.4 29.7 71.1 2003 1.4 R 0.5 2.5 0.3 0.7 2.3 16.3 22.1 0.5 1.7 (s) 13.1 38.8 28.0 66.8 2004 1.3 R 0.5 2.4 0.2 0.9 2.5 16.1 22.1 0.4 1.8 (s) 13.4 R 39.0 28.1 67.0 2005	1997	3.7	K 0.4	3.6	(s)		5.3		28.2	0.7	11.8		13.2	57.6	32.1	89.8
2000 2.1 R 0.6 2.8 0.2 0.8 2.8 15.9 22.4 0.6 9.9 (s) 13.1 48.1 31.0 79.1 2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 R 0.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.4 29.7 71.1 2003 1.4 R 0.5 2.5 0.3 0.7 2.3 16.3 22.1 0.5 1.7 (s) 13.1 38.8 28.0 66.8 2004 1.3 R 0.5 2.4 0.2 0.9 2.5 16.1 22.1 0.4 1.8 (s) 13.4 R 39.0 28.1 67.0 2005 1.4 R 0.5 3.0 0.1 0.7 4.9 17.3 25.9 0.3 1.7 (s) 13.3 42.7 28.3 71.1 2006 2			N 0.4	3.4	0.7					0.8						
2001 2.0 R 0.6 2.8 0.2 0.6 0.1 17.3 21.0 0.5 5.1 (s) 12.9 41.6 28.7 70.3 2002 0.7 R 0.5 2.7 0.9 0.8 2.8 15.0 22.1 0.6 5.1 (s) 12.9 41.4 29.7 71.1 2003 1.4 R 0.5 2.5 0.3 0.7 2.3 16.3 22.1 0.5 1.7 (s) 13.1 38.8 28.0 66.8 2004 1.3 R 0.5 2.4 0.2 0.9 2.5 16.1 22.1 0.4 1.8 (s) 13.1 38.8 28.0 66.8 2005 1.4 R 0.5 3.0 0.1 0.7 4.9 17.3 25.9 0.3 1.7 (s) 13.3 42.7 28.3 71.1 2006 2.2 R 0.5 2.7 R 0.1 0.7 5.1 16.4 R 25.0 0.4 1.5 (s) 13.3 R 42.4 28.4 R 70.8			R 0.5		(8)											
2002 0.7			Rna	2.8							9.9 5.1					
2003 1.4	2002	0.7	K n s	27	0.9	0.8	2.8			0.6	5.1	(s)	12.9		29.7	71.1
2004 1.3 R 0.5 2.4 0.2 0.9 2.5 16.1 22.1 0.4 1.8 (s) 13.4 R 39.0 28.1 67.0 2005 1.4 R 0.5 3.0 0.1 0.7 4.9 17.3 25.9 0.3 1.7 (s) 13.3 42.7 28.3 71.1 2006 2.2 R 0.5 2.7 R 0.1 0.7 5.1 16.4 R 25.0 0.4 1.5 (s) 13.3 R 42.4 28.4 R 70.8	2003	1.4	K 0.5	2.5	0.3	0.7	2.3	16.3	22.1	0.5	1.7		13.1	38.8	28.0	66.8
2006 2.2 ^R 0.5 2.7 ^R 0.1 0.7 5.1 16.4 ^R 25.0 0.4 1.5 (s) 13.3 ^R 42.4 28.4 ^R 70.8			R 0.5	2.4			2.5		22.1	0.4		(s)		R 39.0		
2006 2.2 °0.5 2.7 °0.1 0.7 5.1 16.4 °25.0 0.4 1.5 (s) 13.3 °42.4 28.4 °70.8 2007 1.9 0.5 2.6 0.2 1.3 2.7 15.9 22.7 0.4 1.5 (s) 13.2 39.7 28.6 68.3		1.4	R 0.5	3.0	_B 0.1				25.9					_B 42.7		₂ 71.1
2001 1.9 0.5 2.6 0.2 1.3 2.7 15.9 22.7 0.4 1.5 (s) 13.2 39.7 28.6 68.3		2.2	r 0.5						r 25.0		1.5	(s)		r 42.4		^r 70.8
	2007	1.9	0.5	2.6	0.2	1.3	2.7	15.9	22.7	0.4	1.5	(s)	13.2	39.7	28.6	68.3

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Hawaii

						Pe	troleum					-			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	0	0	2,640	247	4,321	2	19	3,290	968	11,487	0	0			
1965	0	0	613	844	7,618	4	73	3,947	1,195	14,294	0	0			
1970 1975	0	0	133 116	722 831	14,273 14,849	26 22	68 74	5,508 6,615	1,744 1,013	22,473 23,520	0	0			
1980	0	0	199	3,331	14,116	26	74 74	7,129	1,441	25,520 26,317	0	0			
1985	Ő	Ő	155	3,184	13,260	6	68	7,443	1,526	25,641	0	Ö			
1990	0	0	272	3,498	12,646	13	76	8,477	2,657	27,639	0	0			
1995	0	0	218	2,683	9,940	8	73	9,160	2,677	24,759	0	0			
1996 1997	0	0	165 121	1,928	10,087 R 10,221	2	71	9,104 9,104	702 489	22,058 R 24, 224	0	0			
1997	0	0	107	1,322 1,242	R 9,999	<u> </u>	75 78	9,104 9,065	383	R 21,334 R 20,876	0	0			
1999	0	0	58	2,071	9,474	Ó	79	8,786	1,708	22,177	0	0			
2000	Ö	Ö	45	1,627	9,438	0	78	9,118	2,226	22,532	0	0			
2001	0	0	48	2,455	8,895	0	71	9,576	2,658	23.704	0	0			
2002	0	0	18	3,329	R 10,189 R 12,708	0	70	10,262	1,437	R 25,306	0	0			
2003 2004	0 0	0 (s)	15 39	5,033 5,359	R 12,708 R 13,379	10 0	65 66	10,448 10,560	914 1,493	R 29,194 R 30,897	0 0	0			
2004	0	(S)	39 44	3,827	16,372	15	65	10,833	1,493	32,278	R 337	0			
2006	ő	(s)	41	3,387	15,334	17	64	11,379	2,375	32,597	R 384	Ő			
2007	0	(s)	41	6,246	12,756	12	66	11,092	4,465	34,678	486	0			
								Trillion Btu							
1960	0.0	0.0	13.3	1.4 4.9	23.5	(s) (s) 0.1	0.1	17.3	6.1	61.8	0.0	0.0	61.8	0.0	61.8
1965 1970	0.0 0.0	0.0 0.0	3.1 0.7	4.9 4.2	42.3 80.1	(S)	0.4 0.4	20.7 28.9	7.5 11.0	79.0 125.3	0.0 0.0	0.0 0.0	79.0 125.3	0.0 0.0	79.0 125.3
1975	0.0	0.0	0.7	4.2	83.5	0.1	0.4	34.7	6.4	130.5	0.0	0.0	120.5	0.0	130.5
1980	0.0	0.0	1.0	19.4	79.2	0.1	0.5	37.4	9.1	146.7	0.0	0.0	146.7	0.0	146.7
1985	0.0	0.0	0.8	18.5	74.4	(s)	0.4	39.1	9.6	142.9	0.0	0.0	142.9	0.0	142.9
1990	0.0	0.0	1.4	20.4	71.1	(s)	0.5	44.5	16.7	154.5	0.0	0.0	154.5	0.0	154.5
1995	0.0	0.0	1.1	15.6	56.4 _ 57.2	(s)	0.4	47.8	16.8	138.2	0.0	0.0	138.2	0.0	138.2
1996 1997	0.0 0.0	0.0 0.0	0.8 0.6	11.2 7.7	R 58.0	(s)	0.4 0.5	47.5 47.5	4.4 3.1	121.6 R 117.3	0.0 0.0	0.0 0.0	121.6 R 117.3	0.0 0.0	121.6 R 117.3
1997	0.0	0.0	0.6	7.7 7.2	R 56.7	(s) (s)	0.5	47.5 47.2	2.4	114.6	0.0	0.0	114.6	0.0	114.6
1999	0.0	0.0	0.3	12.1	53.7	0.0	0.5	45.8	10.7	123.1	0.0	0.0	123.1	0.0	123.1
2000	0.0	0.0	0.2	9.5	53.5	0.0	0.5	47.5	14.0	125.2	0.0	0.0	125.2	0.0	125.2
2001	0.0	0.0	0.2	14.3	50.4	0.0	0.4	49.9	16.7	132.0	0.0	0.0	132.0	0.0	132.0
2002	0.0	0.0	0.1	19.4	R 57.8 R 72.1	0.0	0.4	53.4	9.0	R 140.2	0.0	0.0	R 140.2 R 162.0	0.0	R 140.2
2003 2004	0.0 0.0	0.0 (s)	0.1 0.2	29.3 31.2	R 75.9	(s) 0.0	0.4 0.4	54.4 55.1	5.7 9.4	R 162.0 R 172.1	0.0 0.0	0.0 0.0	R 162.0	0.0 0.0	R 162.0 R 172.1
2004	0.0	(S)	0.2	22.3	92.8	0.0	0.4	56.5	7.0	179.4	R ₁₂	0.0	179.4	0.0	179.4
2006	0.0	(s)	0.2	19.7	86.9	0.1	0.4	59.4	14.9	181.6	R 1.4	0.0	181.6	0.0	181.6
2007	0.0	(s)	0.2	36.4	72.3	(s)	0.4	57.9	28.1	195.3	1.7	0.0	195.3	0.0	195.3

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Hawaii

				Petro	oleum		Needeen		Biomass				Electricity	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960	0	0	2,719	37	0	2,756 4,353	0	27		0	0	0	0	
1965	0	0	4,292	61	0	4,353	0	22		0	0	0	0	
1970	0	0	6,702	96	0	6,798	0	22		0	0	0	0	
1975	0	0	8,880 10,239	429	0	9,309	0	18		0	0	0 0	0	
1980 1985	0	0	10,239	888 752	0	11,127 11,047	0	20 19		19	0	0	0	
1905	0	0	13,844	1,813	0	15,657	0	23		0	0	29	0	
1990	703	0	10,709	2 211	0	12,037	0	23		235	0	20	0	
1995 1996	761	0	10,996	2,211 2,323	0	12,921 13,319	0	34 39		242	0	23	0	
1997	767	ŏ	10,873	2,302 2,413 2,555 2,775	ŏ	13,175	ő	49		245	ŏ	16	Õ	
1998	676	0	10,851	2.413	0	13,264	Õ	46		237	Õ	19	0	
1999	684	Ō	10,898	2.555	0	13 453	Ō	45		211	Ō	16	0	
2000	706	0	10,848	2,775	0	13,623	0	43		262	0	17	0	
2001	716	0	10,613	2,975 3,987	0	13.588	0	50		207	0	2	0	
2002	698	0	10,855	3,987	0	14,842	0	35		73	0	2	0	
2003 2004	785	0	10,801	2,297 2,486	0	13,098 13,704	0	40		178	0	2	0	
2004	804	0	11,218	2,486	0	13,704	0	57		213	0	7	0	
2005	746	0	11,304	2,584	0	13,888	0	62		222	0	7	0	
2006 2007	720 778	0	11,499 11,426	2,453 2,313	0	13,952 13,738	0	82 55		212 230	0	80 238	0	
2007	110	0	11,420	2,313	0	13,730				230	0	236	0	
							Trillion E	Btu						
1960	0.0	0.0	17.1	0.2	0.0	17.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	17.6
1965	0.0	0.0	27.0	0.4	0.0	27.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	27.6
1970 1975 1980	0.0	0.0	42.1	0.6	0.0	42.7	0.0	0.2	0.3	0.0	0.0	0.0	0.0	43.2
1975	0.0	0.0	55.8	2.5	0.0	58.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0	58.8
1980	0.0 0.0	0.0	64.4 64.7	5.2 4.4	0.0 0.0	69.5 69.1	0.0	0.2 0.2	0.0	0.0	0.0	0.0	0.0	69.7
1985 1990		0.0 0.0	64.7 87.0	10.6	0.0	97.6	0.0 0.0	0.2	0.3 7.8	0.4 0.0	0.0 0.0	0.0 0.3	0.0 0.0	70.0 105.9
1990	(s) 15.8	0.0	67.0 67.3		0.0	97.6 80.2	0.0	0.2	7.6 6.5	4.9	0.0	0.3	0.0	108.0
1995 1996	16.7	0.0	69.1	12.9 13.5	0.0	82.7	0.0	0.4	4.9	5.1	0.0	0.2	0.0	110.0
1997	16.8	0.0	68.4	13.4	0.0	81.8	0.0	0.5	5.6	5.1	0.0	0.2	0.0	110.0
1998	14.9	0.0	68.2	14.1	0.0	82.3	0.0	0.5	5.4	5.0	0.0	0.2	0.0	108.2
1999	15.0	0.0	68.5	14.9	0.0	83.4	0.0	0.5	5.4	4.4	0.0	0.2	0.0	108.9
2000	15.5	0.0	68.2	16.2	0.0	84.4	0.0	0.4	5.3	5.5	0.0	0.2	0.0	111.3
2001	15.7	0.0	66.7	17.3	0.0	84.1	0.0	0.5	2.8	4.3	0.0	(s)	0.0	107.5
2002	16.0	0.0	68.2	23.2	0.0	91.5	0.0	0.4	2.4	1.5	0.0	(s)	0.0	111.7
2003	17.9	0.0	67.9	13.4	0.0	81.3	0.0	0.4	7.6	3.7	0.0	(s)	0.0	111.0
2004	18.0	0.0	70.5	14.5	0.0	85.0	0.0	0.6	5.0	4.5	0.0	0.1	0.0	113.1 112.2
2005	16.5	0.0	71.1	15.1	0.0	86.1	0.0	0.6	4.2	4.7	0.0	0.1	0.0	112.2
2006	15.9	0.0	72.3	14.3	0.0	86.6	0.0	0.8	4.4	4.5	0.0	0.8	0.0	113.0
2007	17.2	0.0	71.8	13.5	0.0	85.3	0.0	0.5	4.1	4.8	0.0	2.4	0.0	114.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Idaho

						Petroleum				Martan	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	699	22	4,072	899	455	6,965	205	887	13,484	0	6,165					
1965 1970	673 353	34 47	4,803 5,600	870 960	560 1,057	7,654 9,684	356 277	1,576 1,700	15,819 19,278	0	6,641 7,076					
1975	647	60	7.560	950	1,184	11,288	684	1,700	22,973	0	10,274					
1980	514	49	5,662	1,243	993	11,078	613	1,141	20,731	0	9,507					
1985	486	39	5,287	1,122	778	10,672	86	884	18,829	0	10,863					
1990 1995	549 465	46 64	7,079 7,567	1,143 1,568	610 758	11,453 13,521	47 7	1,516 2,280	21,847 25,702	0	9,115 10,989					
1996	397	67	8,023	874	2,656	14,174	7	2,305	28,039	0	13,283					
1997	361	69	8,478	760	550	14,462	2	2,376	26,627	0	14,676					
1998	479 430	69	7,813	718 856	419	15,284	5	3,346	R 27,585	0	12,936					
1999 2000	623	71 73	8,925 9,047	880	954 2,045	15,886 15,392	6 2	3,345 3,330	29,972 30,696	0	13,499 10,967					
2001	553	80	9,126	724	1,495	15,098	23	2,112	28,578	ő	7,223					
2002	487	71	8,893	793	926	15,511	80	2,909	29,112	0	8,769					
2003 2004	503 607	70 75	8,389 9,542	686 822	871 1.412	14,711 14,969	(s) 0	993	25,649 28,764	0	8,354 8,462					
2004	548	75 75	10,198	819	1,412	14,806	221	2,018 1,988	_ 29,545	0	8,542					
2006	403	76	9,970	981	R 1,575	15,681	145	2,282	R 30,633	ő	11,242					
2007	499	82	10,014	903	1,670	16,174	37	1,792	30,590	0	9,022					
								Trillion Btu								
1960 1965	16.8 15.9	22.8 36.1	23.7 28.0	4.8 4.7	1.8 2.2	36.6 40.2	1.3 2.2	5.5 9.6	73.7 86.9	0.0 0.0	66.3 69.4	11.4 10.4	0.0 0.0	-0.3 16.2	0.0 (s)	190.7 234.9
1970	7.9	49.4	32.6	5.2	4.0	50.9	1.7	10.7	105.1	0.0	74.3	11.5	0.0	48.2	(s)	296.4
1975	13.4	63.8	44.0	5.2	4.4	59.3	4.3	8.3	125.5	0.0	106.9	11.1	0.0	38.4	0.0	359.1
1980	9.6	51.6	33.0	6.8	3.7 2.8	58.2 56.1	3.9	7.2 5.6	112.7 101.9	0.0	98.8	14.6	0.0	60.7	0.0	348.1 355.1
1985 1990	8.9 10.1	41.1 46.8	30.8 41.2	6.1 6.3	2.8	60.2	0.5 0.3	5.6 9.9	120.1	0.0 0.0	113.5 94.8	18.3 23.5	0.0 0.5	71.1 107.1	0.3 0.9	403.8
1995	8.9	65.7	44.1	8.6	2.7	70.5	(s)	14.9	140.9	0.0	113.3	25.2	0.5	104.3	(s)	458.9
1996	7.3	69.2	46.7	4.9	9.6	73.9	(s)	15.1	150.3	0.0	137.3	26.0	0.5	104.0	0.6	495.3
1997 1998	6.4 8.8	70.8 71.9	49.4 45.5	4.3 4.1	2.0 1.5	75.4 79.7	(s) (s)	15.5 21.9	146.6 152.7	0.0 0.0	149.9 131.9	28.4 27.1	0.5 0.6	95.9 110.6	0.6 0.5	499.1 504.1
1998	8.0	71.9	45.5 52.0	4.1	3.5	79.7 82.8	(S) (S)	21.9	165.1	0.0	131.9	27.1	1.3	110.6	0.5	527.9
2000	13.7	74.5	52.7	5.0	7.4	80.2		21.9	167.2	0.0	111.9	27.6	1.3	140.3	0.4	537.0
2001	11.4	81.8	53.2	4.1	5.4	78.7	(s) 0.1	13.8	155.3	0.0	74.6	28.1	1.5	146.2	(s)	498.9
2002 2003	10.2 10.2	72.8 71.4	51.8 48.9	4.5 3.9	3.3 3.2	80.8 76.6	0.5	19.1 6.4	160.0 138.9	0.0 0.0	89.2 85.6	22.0 22.5	1.5 1.3	134.9 135.5	(s) (s)	490.7 465.4
2003	12.3	71.4 77.2	55.6	4.7	5.2 5.1	78.1	(s) 0.0	13.1	156.5	0.0	84.8	25.7	1.3	140.5	0.1	498.6
2005	11.3	78.2	59.4	4.6	5.5	77.3	1.4	12.9	161.1	0.0	85.4	R 28.3	1.5	138.7	0.3	R 504.9
2006	8.2	R 79.0	58.1	5.6	R 5.7	81.8	0.9	14.9	R 167.0	0.0	111.5	R 26.0	3.2	120.9	0.1	R 516.0
2007	10.2	83.9	58.3	5.1	6.0	84.4	0.2	11.7	165.8	0.0	89.2	26.6	3.3	150.7	0.2	529.6

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Idaho

				Petro	leum		Biomass			D-4-ii			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	279	2	663	0	314	977	278			1,463			
1965	200	2 5	708	0	348	1,056	200			1,463 1,779			
1970	102	8	837	0	711	1,548	146			2,354			
1975	57	14	972	0	712	1,684	160			3,870			
1980	24	7	485	0	316	801	144			4,936			
1985	10	8	569	2	328	898 859	222			5,780			
1990	12	9	535	.5	318	859	102			5,626			
1995	5	13	440	15	374 449	829	104			6,193			
1996	3	15	391	13	449	852	107			6,508			
1997	3	15	435	4	432	871	123			6,628			
1998 1999	6	16 18	372 475	14 6	177 733	563 1,215	109 115			6,610 6,806			
2000	2	10	396	10	1,460	1,866	110			7,006			
2000	2	19 19	365	5	1,195	1,566	123 68			6,906			
2001	2	20	350	3	754	1,107	69			7,056			
2002	2	19	313	4	640	957	73			7,090			
2004	1	21	414	7	1,098	1,519	75			7,314			
2005	1	22	322	5	1,017	1.345	R 154			7,601			
2006	1	22	373	3	R 1,036	1,345 R 1,412	R 140			8,057			
2007	4	23	248	2	1,032	1,283	154			8,339			
-						Ti	rillion Btu						
1960	6.9	2.3	3.9	0.0	1.3	5.1	5.6	0.0	0.0	5.0	24.9	12.3	37.2
1965 1970	4.9	5.2 8.2	4.1	0.0	1.4 2.7	5.5 7.6	4.0	0.0	0.0	6.1	25.7	14.5	40.2 48.6
1970	2.4	8.2	4.9	0.0	2.7	7.6	2.9	0.0	0.0	8.0	29.1	19.4	48.6
1975	1.3	14.9	5.7	0.0	2.6	8.3	3.2	0.0	0.0	13.2	40.9	31.8	72.6
1980	0.5	7.8 8.1	2.8	0.0	1.2	4.0	2.9	0.0	0.0 0.0	16.8	32.0 37.0	40.6	72.6
1985 1990	0.2 0.3	8.1 8.8	3.3 3.1	(s)	1.2 1.2	4.5 4.3	4.4 2.0	0.0 0.1		19.7 19.2	37.0 34.7	45.4 44.4	82.5 79.1
1990	0.3	13.4		(s) 0.1	1.2 1.4	4.3 4.0	2.0 2.1	0.1	(s)	21.1	34.7 40.8	44.4 48.0	79.1 88.8
1995	0.1	15.4	2.6	0.1	1.6	4.0	2.1	0.1	(s) (s)	22.2	43.9	50.5	94.4
1997	0.1	15.7	2.3 2.5	(s)	1.6	4.1	2.5	0.1	(s)	22.6	45.1	51.2	96.3
1998	0.1	16.6	2.2	0.1	0.6	20	2.5	0.1	(s)	22.6	44.5	51.2	95.6
1999	0.1	18.6	2.8	(s)	2.7	2.9 5.5	2.2 2.3	(s)	(s)	23.2	49.7	53.1	102.9
2000		19.6	2.3	0.1	5.3	7.6	2.5	0.1	(s)	23.9	53.7	54.4	108.1
2001	(s)	19.5	2.1	(s)	4.3	6.5	1.4	0.1	(s)	23.6	51.0	52.5	103.5
2002	(s) (s) (s)	20.8	2.0	(s)	4.3 2.7	4.8	1.4	0.1	(s)	24.1	51.2	53.7	104.8
2003	(s)	19.4	1.8	(s)	2.3	4.2	1.5	0.1	(s)	24.2	49.3	53.4	102.7
2004	(s)	21.2	2.4	(s)	4.0	6.4	1.5	0.1	(s)	25.0		55.2	_ 109.3
2005	(s)	22.8	1.9	(s)	3.7	5.6	R 3.1	0.1	(s)	25.9	54.1 R 57.5	56.7	109.3 R 114.2
2006	(s) (s) (s) 0.1	23.5 24.0	2.2	(s)	R 3.7	R 5.9	R 2.8	0.1	(s) (s)	27.5	R 59.8	59.4	R 119.3
2007	0.1	24.0	1.4	(s)	3.7	5.2	3.1	0.1	(s)	28.5	60.9	61.4	122.3

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Idaho

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	194	3	232	102	55	45	0	435	0			1,261			
1965	151	5 6	248	500	61	52 65	0	862	0			1,290			
1970	80		294	116	125	65	0	600	0			2,088			
1975	132	12	341	81	126	90	0	637	0			3,530			
1980 1985	89 36	6 9	218 328	0	56	100 134	487 25	860 548	0			3,973 4,592			
1985	36 48	9	328 344	3	58 56	134	25 19	548 568	0			4,592 5,212			
1995	34	10	392	3	66	38	4	504	0			5,584			
1996	25	12	455	4	79	167	4	709	0			6,231			
1997	27	11	351	1	76	39	1	468	0			6,285			
1998	51	12	412	3	31	33	3	483	0			6,273			
1999	48	13	515	1	129	40	0	685	0			6,745			
2000	17	13	432	2	258	32 32	0	724	0			7,420			
2001	17	14	372	5	211	32	0	619	0			6,885			
2002 2003	16	14 12	328 297	1	133 113	26 15	0	488 426	0			7,292 5,466			
2003	12 6	13	401	1	194	16	0	615	0			5,484			
2004	12	13	336	4	180	16	0	536	0			5,615			
2006	11	14	286	2	R 183	52	Ő	R 522	0			5,813			
2007	37	14	257	1	182	21	Ő	461	Ő			6,015			
								Trillion Btu							
1960	4.8	2.9	1.4	0.6	0.2	0.2	0.0	2.4	0.0	0.1	0.0	4.3	14.5	10.6	25.1
1965	3.7	5.4	1.4	2.8	0.2	0.3	0.0	4.8	0.0	0.1	0.0	4.4	18.4	10.5	28.9
1970	1.9	6.2	1.7	0.7	0.5	0.3	0.0	3.2	0.0	0.1	0.0	7.1	18.5	17.2	35.7
1975	3.0	12.8	2.0	0.5	0.5	0.5	0.0	3.4	0.0	0.1	0.0	12.0	31.3	29.0	60.3
1980	2.0	6.1	1.3	0.0	0.2	0.5	3.1	5.1	0.0	0.1	0.0	13.6	26.7	32.7	59.4
1985 1990	0.8	9.4 8.8	1.9 2.0	(s)	0.2 0.2	0.7 0.8	0.2	3.0	0.0 0.0	0.1 0.2	0.0 0.2	15.7 17.8	29.0 31.2	36.1 41.1	65.1
1990	1.1 0.7	10.7		(s)	0.2	0.8	0.1	3.1	0.0	0.2	0.2	17.8	31.2	43.3	72.3
1995	0.7	11.9	2.3 2.6	(S)	0.2	0.2	(s) (s)	2.8 3.9	0.0	0.3	0.2 0.2	21.3	38.0	48.3 48.3	76.9 86.3
1997	0.6	11.8	2.0	(5)	0.3	0.2	(s)	2.5	0.0	0.4	0.2	21.4	36.9	48.6	85.5
1998	1.0	12.1	2.4	(s)	0.1	0.2	(s)	2.7	0.0	0.4	0.2	21.4	37.8	48.5	86.4
1999	1.0	13.1	3.0	(s)	0.5	0.2	0.0	3.7	0.0	0.4	0.4	23.0	41.6	52.6	94.3
2000	0.4	13.7	2.5	(s)	0.9	0.2	0.0	3.6	0.0	0.4	0.5	25.3	43.9	57.6	101.5
2001	0.4	13.9	2.2	(s)	8.0	0.2	0.0	3.1	0.0	0.2	0.5	23.5	41.6	52.4	94.0
2002	0.4	13.9	1.9	(s)	0.5	0.1	0.0	2.5	0.0	0.2	0.5	24.9	42.4	55.5	97.9
2003	0.3	12.3	1.7	(s)	0.4	0.1	0.0	2.2	0.0	0.3	0.6	18.7	34.3	41.2	75.5
2004	0.1	13.3	2.3	(s)	0.7	0.1	0.0	3.1	0.0	0.2	0.6	18.7	36.1	41.4	77.5
2005	0.2	13.9	2.0	(s)	0.6	0.1	0.0	2.7	0.0	R 0.5	0.6	19.2	R 37.2 R 37.9	41.9	R 79.1
2006 2007	0.2 0.8	14.2 14.6	1.7 1.5	(s)	0.7 0.7	0.3 0.1	0.0 0.0	2.6 2.3	0.0 0.0	R 0.5 0.5	0.6 0.6	19.8 20.5	37.9	42.9 44.3	R 80.8 83.6
2001	0.0	14.0	1.3	(s)	0.7	0.1	0.0	2.3	0.0	0.5	0.0	20.0	33.3	44.0	03.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Idaho

Year St 1960 1965 1970	Coal Thousand Short Tons 222 321	Natural Gas ^a Billion Cubic Feet	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d		Hydro- electric			Retail			
Year St 1960 1965 1970	222 321						Other d	Total	Power e,f			Electricity Sales		Electrical	
1965 1970	321				Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1965 1970	321	17	2,529	79	930	153	525	4,217	(s)			2,849			
		23	2,768	146	859	301	771	4.846	(s)			4,340			
	171	29	3,206	212	626	275	1,311	5,630	`Ó			6,052			
1975	459	30	3,935	325	801	684	988	6,734	0			5,112			
1980	401	32	2,209	598	639	126	841	4,413	0			4,798			
1985 1990	439 489	19 23	1,568 2,756	333 187	511 352	61 28	674 1,329	3,147 4,652	0			6,029 7,165			
1995	426	34	2,756	291	400	3	2,079	5,038	0			7,103			
1996	369	35	2,169	2,106	412	2	2,103	6,793	0			9,042			
1997	330	35	2,351	31	425	1	2,161	4,970	Ő			9,481			
1998	421	34	2,039	209	425	1	3,122	5,796	0			9,193			
1999	376	34	2,450	82	335	6	3,124	5,998	0			9,171			
2000	603	32	2,414	307	309	2	3,147	6,179	0			8,408			
2001 2002	534 469	30 29	2,535	86		23	1,914	5,119	0			7,305			
2002	469 490	29 25	2,386 2.077	37 106	581 603	80	2,707 811	5,792 3,597	0			6,352 8,663			
2003	600	25 24	2,077 2,540	77	703	(s) 0	1,798	5,117	0			9,011			
2005	536	23	2,972	282	674	221	1,779	5 929	0			8,636			
2006	391	23	2,395	R 316	724	145	2,081	5,929 R 5,661	ő			8,891			
2007	458	24	2,307	428	670	37	1,591	5,033	0			9,401			
							Tri	llion Btu							
1960	5.0	17.1	14.7	0.3	4.9	1.0	3.5	24.4	(s)	5.7	0.0		61.9	24.0	86.0
1965	7.2	24.4	16.1	0.6		1.9	5.1	28.2	(s)	6.3	0.0	14.8	80.8	35.4	116.2
1970 1975	3.6 9.1	30.6 31.6	18.7 22.9	0.8 1.2	3.3 4.2	1.7 4.3	8.6 6.5	33.0 39.1	0.0	8.5 7.8	0.0	20.6 17.4	96.4	50.0 41.9	146.3 147.1
1975	7.1	33.3	12.9	2.2	3.4	0.8	5.6	24.8	0.0	11.7	0.0 0.0	16.4	105.1 93.3	39.5	132.7
1985	7.1	20.4	9.1	1.2	2.7	0.8	4.4	17.8	0.0	13.7	0.0	20.6	80.4	47.4	127.7
1990	8.7	24.0	16.1	0.7	1.9	0.2	8.8	27.5	0.0	20.0	0.3	24.4	105.0	56.5	161.5
1995	8.1	35.0	13.2	1.1	2.1	(s)	13.7	30.1	0.0	21.6	0.3	26.8	121.8	60.8	182.6
1996	6.7	35.6	12.6	7.6	2.1	(s)	13.9	36.3	0.0	22.4	0.3	30.9	132.1	70.2	202.3
1997	5.7	36.1	13.7	0.1	2.2	(s)	14.3	30.3	0.0	24.2	0.3	32.3	129.0	73.3	202.2
1998	7.6	35.6	11.9	0.8	2.2		20.7	35.5	0.0	23.2	0.3	31.4	133.6	71.1	204.8
1999	6.8	35.1	14.3	0.3	1.7	(s)	20.7	37.0	0.0	24.5 R 24.1	0.8	31.3	135.6	71.6	207.1
2000 2001	13.3 11.0	33.3 31.0	14.1 14.8	1.1 0.3	1.6 2.9	(s) 0.1	20.8 12.7	37.6 30.8	0.0 0.0	1 24.1 25.8	0.8 0.9	28.7 24.9	137.7 124.4	65.3 55.5	203.0 179.9
2001	9.8	29.3	13.9	0.3	3.0	0.1	17.9	35.5	0.0	25.6 19.1	0.9	24.9	116.3	48.3	164.6
2002	9.9	25.3	12.1	0.1	3.1	(s)	5.3	21.0	0.0	19.3	0.5	29.6	105.7	65.2	170.9
2004	12.2	24.5	14.8	0.3	3.7	0.0	11.9	30.6	0.0	22.5	0.7	30.7	121.3	68.0	189.4
2005	11.0	24.1	17.3	1.0	3.5	1.4	11.8	35.0 R 33.6	0.0	23.2	0.8	29.5	123.6	64.5	188 1
2006	8.0	24.6	14.0	R 1.1	3.8	0.9	13.8	R 33.6	0.0	21.2	0.9	30.3	R 118.5	65.6	R 184.1
2007	9.2	24.7	13.4	1.5	3.5	0.2	10.5	29.2	0.0	21.6	0.9	32.1	117.7	69.2	186.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Idaho

						Per	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	4	(s)	133	648	899	7	127	5,990	52 55	7,856	0	0			
1965 1970	1	1	177 154	1,079 1,263	870 960	4 9	128 119	6,743 8,993	55 2	9,055 11,500	0	0			
1970	(s) (s)	4 4	120	2,306	950 950	21	119	10,396	0	13,912	0	0			
1980	0	4	162	2,750	1,243	23	138	10,339	ŏ	14,655	Ö	ő			
1985	0	3	80	2,821	1,122	59	126	10,026	0	14,655 14,234	37	0			
1990	0	5	39	3,443	1,143	48	141	10,952	0	15,766	159	0			
1995 1996	0	6	48 55	4,470 5,008	1,568 874	27 21	135 131	13,083 13,595	0	19,331 19,684	10 0	0			
1997	0	5	72	5,341	760	10	138	13,998	0	20.318	0	0			
1998	Ö	6	61	4,989	718	2	145	14,827	Ö	20,318 R 20,742	Ö	Ö			
1999	0	5	67	5,484	856	10	146	15,511	0	22,075	0	0			
2000	0	6	27	5,799	880	20	144	15,051	0	21,922	0	0			
2001 2002	0	7	56 67	5,847 5,828	724 793	4 2	132 130	14,505 14,904	0	21,267 21,724	0	0			
2002	0	5	57	5,701	686	12	121	14,092	0	20,669	0	0			
2004	Ŏ	6	88	6,187	822	43	122	14,250	ő	21,513	Õ	ő			
2005	0	5	78	6,568	819	33	122	14,116	0	21,735	R 322	0			
2006	0	7	77	6,915	981	41	118	14,905	0	23,037	R 309	0			
2007	0	8	76	7,201	903	27	122	15,483	0	23,813	518	0			
								Trillion Btu							
1960	0.1	0.5	0.7	3.8	4.8 4.7	(s)	0.8	31.5	0.3	41.9	0.0	0.0	42.4	0.0	42.4
1965	(s)	1.1	0.9	6.3	4.7	(s) (s) (s)	0.8	35.4	0.3	48.4	0.0	0.0	49.6	0.0	49.6
1970 1975	(s)	4.5 4.5	0.8 0.6	7.4 13.4	5.2 5.2	(s) 0.1	0.7 0.7	47.2 54.6	(s) 0.0	61.3 74.6	0.0 0.0	0.0 0.0	65.8 79.1	0.0 0.0	65.8 79.1
1980	(s) 0.0	4.5	0.8	16.0	6.8	0.1	0.7	54.3	0.0	74.0 78.9	0.0	0.0	83.3	0.0	83.3
1985	0.0	3.1	0.4	16.4	6.1	0.2	0.8	52.7	0.0	76.6	0.1	0.0	79.8	0.0	79.8
1990	0.0	5.2	0.2	20.1	6.3	0.2	0.9	57.5	0.0	85.1	0.6	0.0	90.9	0.0	90.9
1995	0.0	6.6	0.2	26.0	8.6	0.1	0.8	68.2	0.0	104.0	(s) 0.0	0.0	110.6	0.0	110.6
1996 1997	0.0 0.0	6.1 5.4	0.3 0.4	29.2 31.1	4.9 4.3	0.1	0.8 0.8	70.9 73.0	0.0 0.0	106.1 109.6	0.0 0.0	0.0 0.0	112.3 115.0	0.0 0.0	112.3 115.0
1997	0.0	5.4 5.7	0.4	29.1	4.3 4.1	(s) (s)	0.8	73.0 77.3	0.0	109.6	0.0	0.0	117.3	0.0	117.3
1999	0.0	4.7	0.3	31.9	4.9	(s)	0.9	80.8	0.0	118.9	0.0	0.0	123.6	0.0	123.6
2000	0.0	6.1	0.1	33.8	5.0	0.1	0.9	78.4	0.0	118.3	0.0	0.0	124.4	0.0	124.4
2001	0.0	6.7	0.3	34.1	4.1	(s)	0.8	75.6	0.0	114.8	0.0	0.0	121.6	0.0	121.6
2002	0.0	6.2	0.3	33.9	4.5	(s) (s)	0.8	77.6	0.0	117.2	0.0	0.0	123.4	0.0	123.4
2003 2004	0.0 0.0	4.7 6.0	0.3 0.4	33.2 36.0	3.9 4.7	(s) 0.2	0.7 0.7	73.4 74.3	0.0 0.0	111.5 116.4	0.0 _ 0.0	0.0 0.0	116.3 122.4	0.0 0.0	116.3 122.4
2004	0.0	5.7	0.4	38.3	4.6	0.2	0.7	73.7	0.0	117.8	R 1.1	0.0	123.5	0.0	123.5
2006	0.0	6.9	0.4	40.3	5.6	0.1	0.7	77.8	0.0	124.9	R 1.1	0.0	131.8	0.0	131.8
2007	0.0	7.8	0.4	41.9	5.1	0.1	0.7	80.8	0.0	129.1	1.8	0.0	136.9	0.0	136.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Idaho

				Petro	leum				Biomass				=	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965	0	0	0	(s) (s)	0	(s) (s)	0	6,165 6,641		0	0	0	0 -1	
1970 1975 1980	0 0 0	0 (s) (s)	0 0 0	1 5 (s)	0 0 0	1 5 (s)	0 0 0	7,076 10,274 9,507	 	0 0 0	0 0 0	0 0 0	-1 0 0	
1985 1990 1995	0 0	(s) 0 0	0	1 2	0	1 2	0 0 0	10,863 9,115 10,989	 	0 0 0	0 0 0	0	56 106 3	
1996 1997	0	(s) 2	0	(s) (s)	0	(s) (s)	0	13,283 14,676		0	0	0	170 170	
1998 1999 2000	0 0 0	2 2 2	0 0 0	1 (s) 5	0 0 0	1 (s) 5	0 0 0	12,936 13,499 10,967		0 0 0	0 0 0	0 0 0	148 64 126	
2001 2002 2003	0 0 0	10 3 10	0 0 0	7 (s) (s)	0 0 0	7 (s) (s)	0 0 0	7,223 8,769 8,354		0 0 0	0 0 0	0 0 0	(s) (s) 2	
2004 2005 2006	0 0 0	12 11 10	0 0 0	(s) (s) (s)	0	(s) (s) (s) (s)	0 0 0	8,462 8,542 11,242	 	0 0 0	0 0 0	0 0 170	33 89 40	
2007	ő	13	Ö	(s)	ő	(s)	Trillion E	9,022		ő	Ö	172	44	
1960 1965 1970	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	66.3 69.4 74.3	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 (s) (s)	66.3 69.4 74.3
1975 1980 1985	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	106.9 98.8 113.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.2	107.0 98.8 113.7
1990 1995	0.0 0.0	0.0 0.0	0.0 0.0	(s) (s)	0.0 0.0	(s) (s)	0.0 0.0	94.8 113.3	1.2 1.3	0.0 0.0	0.0 0.0	0.0 0.0	0.4 (s)	96.4 114.7
1996 1997 1998	0.0 0.0 0.0	0.2 1.8 1.8	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	137.3 149.9 131.9	1.2 1.3 1.3	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.6 0.6 0.5	139.3 153.6 135.5
1999 2000 2001	0.0 0.0 0.0	1.8 1.8 10.8	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	138.0 111.9 74.6	0.7 0.7 0.7	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.2 0.4 (s)	140.8 114.8 86.2
2002 2003 2004	0.0 0.0 0.0	2.7 9.6 12.2	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s) (s)	0.0 0.0 0.0	89.2 85.6 84.8	1.3 1.4 1.4	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	(s) (s) (s) 0.1	93.1 96.6 98.6
2005 2006 2007	0.0 0.0 0.0	11.7 9.9 12.8	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	(s) (s) (s)	0.0 0.0 0.0	85.4 111.5 89.2	1.5 1.5 1.4	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1.7 1.7	0.3 0.1 0.2	98.9 124.7 105.2
	0.0	12.0	0.0	(5)	0.0	(5)	0.0	00.2	1.47		0.0	1.7	0.2	100.2

^a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4, 5 and 6

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Illinois

						Petroleum						Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965	39,673 44,714	518 757	42,592 41,011	4,356 12,176	14,958 18,763	78,026 88,769	26,533 23,091	32,744 38,504	199,209 222,314	254 965	185 175					
1970 1975	42,136 40,374	1,174 1,095	44,495 51.249	22,644 24,769	28,481 35,135	107,084 118.637	27,949 28,142	43,905	274,558 302,231	2,514 22.315	166 122					
1975	40,374 40,147	1,090	36,704	19,664	38,811	109,062	28,271	44,300 43,517	276,030	27,742	138					
1985	37,706	962	32,585	2,748	27,168	111,114	6,508	31,158	211,282	39,106	136					
1990 1995	33,904 39,623	940 1,078	43,227 35,309	3,952 10,360	12,471 25,822	105,948 111,207	3,594 1,457	43,042 45,882	212,234 230,037	71,887 78,481	144 124					
1996	44,431	1,119	37,003	12,076	25,109	111,554	1,996	43,195	230 933	69,774	106					
1997 1998	47,638 46,067	1,077 957	37,494 40,520	R 12,502 R 13,164	24,777 15,783	113,343 113,707	1,430 1,046	43,269 44,365	R 232,815 R 228,585	51,069 55,596	97 138					
1998	46,067 46,719	1,004	40,520	18,245	22,588	113,707	1,046	44,365 47,107	250,646	55,596 81,744	138					
2000	51,865	1,031	42,945	22,699	20,131	119,985	1,144	41,723	248,628	89,438	144					
2001 2002	50,671 53,619	952 1,050	42,195 39,798	18,664 13,583	18,346 20,185	121,126 122,661	3,176 392	39,507 41,037	243,014 237,656	92,358 90,860	144 129					
2003	54,751	998	46,732	13,365	15,477	122,747	2,228	42,677	243,226	94,733	139					
2004	58,523	953	46,746	21,547	17,553	125,954	1,512	42,383	255,695	92,047	154					
2005 2006	58,120 58,288	970 R 894	48,094 49,150	39,525 28,578	20,359 20,751	124,646 125,393	527 257	42,943 41,385	276,095 265,514	93,263 94,154	129 173					
2007	61,055	966	49,291	29,573	21,104	124,277	133	39,906	264,286	95,729	154					
								Trillion Btu								
1960 1965	914.6 1,014.5	536.1 778.7	248.1 238.9	24.4 68.8	60.0 75.3	409.9 466.3	166.8 145.2	195.8 231.6	1,105.0 1,226.0	3.0 11.4	2.0 1.8	31.0 33.2	0.0 0.0	-64.7 -29.9	0.0 0.0	2,527.0 3,035.6
1970	920.3	1,203.2	259.2	128.2	107.6	562.5	175.7	265.7	1,498.9	27.6	1.7	39.3	0.0	17.7	0.0	3,708.8
1975 1980	845.6 844.5	1,123.6 R 1,113.7	298.5 213.8	140.2 111.3	130.5 142.6	623.2 572.9	176.9 177.7	267.6 259.7	1,637.0 1.478.1	245.8 302.6	1.3 1.4	41.6 90.9	0.0 0.0	-17.1 7.4	0.0 -37.5	3,877.7 3,801.1
1985	811.1	R 1,000.5 R 960.2	189.8	15.4	97.9	583.7	40.9	188.1	1,115.8	415.4	1.4	99.2	0.0	13.0	-13.4	3,443.0
1990	748.2	R 960.2	251.8	22.3	45.2	556.5	22.6	256.1	1,154.5	760.7	1.5	69.6	0.3	-117.3	3.3	3,581.0
1995 1996	826.7 919.9	R 1,099.7 R 1,140.5	205.7 215.5	58.7 68.5	93.6 90.7	579.9 581.9	9.2 12.5	270.0 257.9	1,217.0 1,227.1	824.6 732.8	1.3 1.1	52.2 59.3	0.4 0.5	-149.8 -135.9	-6.4 -4.0	3,865.7 3,941.3
1997	974.9	R 1,099.8	218.4	70.9	89.6	590.9	9.0	257.8	1,236.5	535.9	1.0	53.2	0.5	2.8	-4.3	R 3,900.4
1998	949.0	R 978 3	236.0	74.6	57.0	592.6	6.6	265.4	1,232.3	583.3	1.4	46.6	0.6	15.9	-2.8	3,804.6
1999 2000	958.8 1,016.6	R 1,026.4 R 1,053.3	252.6 250.2	103.4 128.7	81.7 72.6	619.1 625.1	3.4 7.2	281.7 249.0	1,341.9 1,332.8	854.2 932.7	1.5 1.5	49.8 45.2	0.7 0.7	-244.2 -370.0	-14.5 -13.1	3,974.5 3,999.7
2001	983.7	K 970.6	245.8	105.8	66.3	631.1	20.0	236.3	1,305.3	965.0	1.5	42.0	0.7	-409.9	-12.2	3,846.7
2002	986.8	R 1,081.4 R 998.5	231.8	77.0	72.9	638.8	2.5	245.7	1,268.8	948.5	1.3	44.1	0.9	-404.7	-12.9	3,914.2
2003 2004	1,010.1 1.069.5	R 953.2	272.2 272.3	75.8 122.2	56.2 63.5	639.1 656.8	14.0 9.5	256.0 253.2	1,313.3 1,377.5	987.2 959.8	1.4 1.5	44.4 44.7	1.3 2.1	-459.2 -455.8	-12.3 -10.5	3,884.6 R 3,942.1
2005	1,047.5	R 984.2	280.1	224.1	73.7	650.4	3.3	257.0	1,488.7	973.2	1.3	R 51.3	3.1	-421.8	-11.5	R 4,116.0
2006 2007	1,044.1 1.090.3	R 908.3 979.3	286.3 287.1	162.0 167.7	74.8 75.8	654.3 648.6	1.6 0.8	247.5 238.1	1,426.6 1.418.1	982.4 1,004.0	1.7 1.5	R 48.0 52.3	4.5 9.0	-449.5 -500.2	-12.2 -11.2	R 3,954.0 4,043.2
2001	1,050.3	313.3	201.1	107.7	13.0	040.0	0.0	230.1	1,410.1	1,004.0	1.0	32.3	J.U	-300.2	-11.2	4,043.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Illinois

				Petro	leum		Biomass			D-(-il			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	3,761 2,250	232 342	15,330	2,052 2,518	5,192	22,574 21,661	739			9,969			
1965	2,250	342	13,154	2,518	5,989	21,661	550			14,173			
1970	1,231	439	11,980	1,336	8,616	21,932	634			22,533			
1975 1980	230	479 478	12,384 3,512	1,225	9,145	22,754	681 2,534			26,366			
1980	39 59 53	478 447	3,512 2,344	161 568	4,051 3,518	7,724 6,430	2,53 4 2,616			29,930 29,976			
1990	53	442	1,394	101	3,209	4,704	1,608			32,871			
1995	29	501	761	84	3,871	4,715	861			38,386			
1996	22	539	746	84 96	5.216	6,058	894			37.554			
1997	32	497	708	109	5,295	6.112	579			37,264			
1998	26 22	410	418	120	4.498	5,036 7,542	515			39,707			
1999	22	445	508	520	6,514	7,542	542			39,631			
2000	25 25	467	412	121	5,434 4,086	5,968	582 775			40,146			
2001	25	427	320	120	4,086	4,526	7/5			41,820			
2002	21	459 472	264	142	5,429	5,835	786 828			45,030			
2003 2004	35 25	473 443	246 304	106 100	4,700 4,416	5,052 4,820	828 949			43,161 43,443			
2004	12	438	212	117	4,386	4,715	848 R 1,171			48,593			
2006	12 R 12	398	180	68	R 4,681	R 4,929	R 1,066			46,381			
2007	15	433	155	52	5,125	5,332	1,175			48,036			
						Т	rillion Btu						
1960	90.4	240.2	89.3	11.6	20.8	121.8	14.8	0.0	0.0	34.0	501.2	84.1	585.3
1965 1970	53.8	351.9	76.6	14.3 7.6	24.0	114.9 109.9	11.0 12.7	0.0	0.0	48.4	580.0	115.5	695.5 864.1
1970	28.4	450.1	69.8	7.6	32.6 34.0	109.9	12.7	0.0	0.0	76.9	678.0 712.8	186.1	864.1 929.2
1975 1980	5.2	491.0 R 489.0	72.1 20.5	6.9	34.0 14.9	113.1 36.3	13.6 50.7	0.0 0.0	0.0 0.0	90.0 102.1	712.8 662.2	216.3 246.1	929.2 908.4
1985	0.9 1.3	R 464.5	13.7	0.9 3.2	12.7	29.5	52.3	0.0	0.0	102.1	640.2	235.6	875.8
1990	1.2	R 451.9	8.1	0.6	11.6	20.3	32.2	0.0	0.0	112.2	614.1	259.4	873.4
1995	0.7	K 510 9	4.4	0.5	14.0	18.9	17.2	0.3	0.1	131.0	676.1	297.4	973.5
1996	0.5	R 549.0	4.3	0.5	18.8	23.7	17.9	0.4	0.1	128.1	717.8	291.4	1,009.1
1997	0.7	K 507 8	4.1	0.6	19.1	23.9	11.6	0.4	0.1	127.1	669.7	288.1	957.7
1998	0.6	R 418.9 R 455.0	2.4	0.7	16.3	19.4	10.3	0.4	0.2	135.5	584.0	307.2	891.2
1999	0.5	R 455.0	3.0	2.9	23.6	29.5	10.8	0.4	0.2	135.2	625.1	309.3	934.4
2000	0.6	R 477.4	2.4	0.7	19.6	22.7	11.6	0.4	0.2	137.0	643.9	311.6	955.5
2001	0.6	R 435.6	1.9 1.5	0.7	14.8	17.3	15.5	0.5	0.3	142.7	606.9	318.0	924.9
2002 2003	0.5 0.8	R 473.9 R 473.2	1.5	0.8 0.6	19.6	22.0 19.1	15.7 16.6	0.5	0.4	153.6	661.0 652.4	342.5	1,003.5 977.4
2003	0.8 0.6	R 443.0	1.4 1.8	0.6	17.1 16.0	19.1 18.3		0.7 0.7	0.4 0.6	147.3 148.2	652.4	325.0 328.0	9//.4
2004	_ 0.3	R 444.0	1.0	0.6	_ 15.9	17.8	17.0 R 23.4	0.7	0.8	165.8	R 647.7	362.6	951.5 R 1,010.3
2006	R 0.3	R 404.5	1.0	0.7	R 16.9	R 18.3	R 21.3	1.0	1.0	158.3	R 599.2	342.2	R 941.4
2007	0.3	438.9	0.9	0.3	18.4	19.6	23.5	1.2	1.3	163.9	643.5	353.6	997.1
			· •					=	•				

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Illinois

			Petroleum							Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	2,614	47	4,834	78	916	358	8,336	14,523	0			10,002			
1965	1,697	129	4,148	96	1,057	469	7,453	13.223	0			15,059			
1970	967	193	3,778	51	1,520	533	7,627	13,509	0			22,406			
1975 1980	536 147	216 228	3,905 2,100	47 16	1,614 715	678 1.008	4,960 2,633	11,203 6,471	0			28,097 31,579			
1985	210	214	4,127	96	621	549	343	5,735	0			32,578			
1990	212	200	1,799	26	566	560	204	3,155	Ő			38,999			
1995	194	204	1,870	80	683	138	45	2,816	5			45,201			
1996	165	218	1,818	67	921	184	190	3,180	5			45,586			
1997 1998	263 211	203 175	2,205 1.862	108 39	934 794	224 228	129 115	3,600 3.038	2			46,426 48.191			
1999	159	189	1,466	84	1,150	152	78	2,930	3			50,642			
2000	205	202	1,602	68	959	223	14	2,866	2			53,152			
2001	203	189	1,815	65	721	253	58	2,913	3			52,976			
2002	152	205	1,640	37	958	379	1 <u>3</u>	3,027	(s)			53,654			
2003 2004	231 225	212 204	1,389 837	37 45	829 779	365 397	7 49	2,627 2,107	(s) 3			49,561 47,358			
2004	134	204	833	53	774	249	60	1,969	ა ი			49,977			
2006	R 122	196	923	33	R 826	427	1	R 2,211	ő			50,631			
2007	133	203	744	36	904	240	0	1,924	0			52,043			
								Trillion Btu							
1960	62.8	48.9	28.2	0.4	3.7	1.9	52.4	86.6	0.0	0.3	0.0	34.1	232.7	84.4	317.1
1965	40.6	132.7	24.2	0.5	4.2	2.5	46.9	78.3	0.0	0.2	0.0	51.4	303.2	122.7	425.9
1970 1975	22.3 12.1	198.3 221.3	22.0 22.7	0.3 0.3	5.7 6.0	2.8 3.6	47.9 31.2	78.8 63.8	0.0 0.0	0.2 0.3	0.0 0.0	76.4 95.9	376.1 393.3	185.0 230.5	561.1 623.8
1975	3.2	233.2	22.7 12.2	0.3	2.6	5.3	16.6	36.8	0.0	1.3	0.0	95.9 107.7	393.3 374.3	230.5 259.7	634.0
1985	4.7	222.1	24.0	0.5	2.2	2.9	2.2	31.9	0.0	1.2	0.0	111.2	366.4	256.0	622.4
1990	4.8	204.7	10.5	0.1	2.1	2.9	1.3	16.9	0.0	3.5	0.0	133.1	361.2	307.7	668.9
1995	4.4	207.9	10.9	0.5	2.5	0.7	0.3	14.8	0.1	2.4	0.0	154.2	382.6	350.2	732.8
1996	3.7	222.2	10.6	0.4	3.3	1.0	1.2	16.5	0.1	2.5	0.0	155.5	399.6	353.7	753.3
1997 1998	6.0 4.6	207.2 178.6	12.8 10.8	0.6 0.2	3.4 2.9	1.2 1.2	0.8 0.7	18.8 15.8	(s)	1.9 1.7	0.0 0.0	158.4 164.4	391.5 364.7	358.9 372.9	750.4 737.6
1990	3.5	192.7	8.5	0.2	4.2	0.8	0.7	14.5	(s) (s)	1.7	0.0	172.8	382.5	372.9	777.8
2000	4.5	206.2	9.3	0.4	3.5	1.2	0.3	14.4	(s)	2.0	0.0	181.4	405.9	412.5	818.5
2001	4.7	192.9	10.6	0.4	2.6	1.3	0.4	15.2	(s)	2.8	0.0	180.8	394.0	402.8	796.8
2002	3.5	211.0	9.6	0.2	3.5	2.0	0.1	15.3	(s)	2.9	0.0	183.1	413.3	408.1	821.4
2003	5.3	211.6	8.1	0.2	3.0	1.9	(s)	13.3	(s)	2.9	0.0	169.1	399.7	373.1	772.8
2004 2005	5.1 3.1	203.9 204.8	4.9 4.9	0.3 0.3	2.8 2.8	2.1 1.3	0.3 0.4	10.3 9.6	(s) 0.0	2.8 R 3.7	0.0 0.0	161.6 170.5	381.6 389.4	357.5 373.0	739.1 R 762.4
2005	2.8	199.4	5.4	0.3	3.0	2.2		10.8	0.0	R 3.5	0.0	170.5	386.5	373.6	R 760.1
2007	3.0	206.1	4.3	0.2	3.2	1.3	(s) 0.0	9.0	0.0	R 3.5 3.7	0.0	177.6	397.0	383.1	R 760.1 780.1

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Illinois

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	13,842	186	13,545	8,534	6,476	16,835	25,548	70,939	19			13,722			
1965	15,669	238	12,074	11,399	6,512	15,064	34,211	79,260	17			18,708			
1970 1975	10,928 7,257	381 352	10,836 11,138	17,818 23,889	6,017 4,290	16,694 15,728	41,014 41,495	92,380 96,540	20 19			25,647 30,330			
1975	5,350	349	7,842	23,009 33,867	3,505	12,598	41,495	99,506	19			35,158			
1985	5,829	285	6,617	22,607	1,738	3,410	28,905	63,277	17			36,178			
1990	6,243	276	8,848	8,368	1,264	1,717	41,201	61,398	0			39,299			
1995	5.937	321	7,846	20,981	1,500	363	43,638	74,328	Ö			42,251			
1996	6,154	322	7,691	18,725	1,464	592	41,154	69,625	0			42,423			
1997	6,325	318	8,112	18,373	1,489	677	41,320	69,971	0			42,837			
1998	6,170	303	9,535	10,222	1,347	150	42,105	63,359	0			43,377			
1999	5,990	305	7,385	14,587	1,087	157	44,633	67,850	0			41,972			
2000 2001	5,590 4,710	301 277	7,798	13,521	1,032	243 309	39,798 37,762	62,392 61,143	0						
2001	4,710	277	7,557 7,394	13,426 13,574	2,089 2,248	87	37,762	62,546	0			40,780 39,288			
2002	4,305	270	6,967	9,737	2,246	132	41,051	60,331	0			43,042			
2003	4,195	264	8,056	12,168	2,443	335	40,525	63,797	0				==		
2005	4,152	261	8,182	1// 802	2,639	303	41,154	67.170	0			45.888			
2006	4,216	R 246	8,362	R 14,790	2,745	180	39,849	67,170 R 65,927	0			44,916			
2007	4,419	255	8,653	14,735	1,794	85	38,400	63,667	0						
							Tr	Ilion Btu							
1960	338.8	192.7	78.9	34.2	34.0	105.8	156.8	409.8	0.2	16.0	0.0	46.8	1,004.3	115.8	1,120.1
1965	381.7	244.6	70.3	45.7	34.2	94.7	206.9	451.9	0.2	22.0	0.0		1,164.2	152.4	1,316.6
1970	260.2	390.5	63.1	67.3	31.6	105.0	249.0	516.0	0.2	26.4	0.0		1,280.8	211.8	1,492.6
1975	172.9	₂ 361.4	64.9	88.7	22.5	98.9	251.1	526.2	0.2	27.7	0.0		1,192.0	248.9	1,440.8
1980	127.7	R 357.0	45.7	124.4	18.4	79.2	248.9	516.6	0.2	39.0	0.0		1,148.2	289.1	1,437.3
1985 1990	142.3 150.8	R 296.3 R 281.8	38.5	81.5	9.1	21.4	174.9	325.5 344.4	0.2	45.7	0.0		927.4	284.3 310.1	1,211.7 1,250.5
1990	144.6	R 327.4	51.5 45.7	30.3 76.0	6.6 7.8	10.8 2.3	245.1 256.7	388.5	0.0 0.0	31.6 28.3	0.0 0.0		940.4 1,031.0	327.4	1,250.5
1995	150.1	R 328.2	44.8	67.7	7.6	3.7	245.8	369.6	0.0	33.3	0.0	144.7	1,024.9	329.2	1,354.1
1997	155.4	K 324 4	47.3	66.4	7.8	4.3	246.3	372.0	0.0	29.7	0.0		1,026.4	331.1	1,357.5
1998	152.4	R 309.8	55.5	36.9	7.0	0.9	251.9	352.4	0.0	25.8	0.0		987.5	335.6	1,323.1
1999	148.4	K 311.9	43.0	52.7	5.7	1.0	267.1	369.6	0.0	25.9	0.0		994.5	327.6	1,322.1
2000	136.3	R 307.8	45.4	48.8	5.4	1.5	237.6	338.7	0.0	20.7	0.0	139.7	939.2	317.7	1,256.9
2001	111.3	R 282.9	44.0	48.5	10.9	1.9	225.9	331.3	0.0	14.6	0.0		875.6	310.1	1,185.6
2002	96.8	R 299.7	43.1	49.0	11.7	0.5	235.1	339.5	0.0	15.5	0.0		882.0	298.8	1,180.8
2003	98.1	R 270.2	40.6	35.3	12.7	0.8	246.3	335.8	0.0	15.2	0.0		863.0	324.1	1,187.1
2004	93.6	R 263.3	46.9	44.0	14.2	2.1	242.2	349.4	0.0	15.3	0.0		882.5	362.4	R 1,245.0
2005 2006	92.5 93.9	R 264.4 R 249.4	47.7 48.7	53.9 R 53.3	13.8 14.3	1.9 1.1	246.4 238.3	363.6 R 355.8	0.0	16.0 R 15.3	0.0 0.0		890.1 R 864.3	342.5 331.4	1,232.5 R 1,195.7
2006	93.9 98.7	258.3	48.7 50.4	52.9	9.4	0.5	238.3	342.3	0.0	16.8	0.0		868.0	331.4	1,202.5
					0.1	3.0		0 .2.0		. 5.0					.,202.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Illinois

						Pe	troleum					D-(-!)			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	238 51	10	3,733	8,721	4,356	316	1,333	71,193	1,168	90,819	0	308			
1965 1970	51 17	13 28	383 264	11,509 15,234	12,176 22,644	318 526	1,295 1,239	81,788 100,534	423 408	107,891 140,850	0	302 296			
1975	17	14	82	20,488	24,271	486	1,452	113,669	215	160,662	0	262			
1980	Ö	15	132	22,560	19,508 2,748	178	1.514	104,550	279	148,721 132,835	Ö	282			
1985	0	11	212	19,061	2,748	423	1,378	108,826	187	132,835	1,998 3,221 4,257	379			
1990	0	12	164	30,695	3,952	328	1,550	104,123	51	140,863	3,221	408			
1995 1996	0	13 15	215 202	24,293 26,201	10,360	287 247	1,479 1,435	109,570 109,906	35	146,240	4,25 <i>7</i> 3,089	393 427			
1990	0	15	197	25,917	12,076 R 12,502 R 13,164	175	1,435	111,630	30 47	150,097 R 151,984 R 155,468	4,493	426			
1998	0	13	168	28,110	R 13.164	269	1,587	112,132	37	R 155,468	5,330	422			
1999	0	12	172	33,544	18.245	337	1,604	117,570	30	171.503	5.680	437			
2000	0	14	156	32,770	22,699	217	1,580	118,731	92	176,244	6,835	459			
2001	0	11	113	32,215	18,664	112	1,448	118,783	134	171,469	7,726	457			
2002 2003	0	13 11	185 162	30,265 37,874	13,583 13,365	224 211	1,430 1,322	120,034 119,937	74 120	165,796 172,991	7,124 9,209	475 484			
2003	0	12	177	37,340	21,547	191	1,340	122,842	120	183,452	9,209	404 445			
2005	0	11	97	38,530	39,525	306	1,333	121,758	23	201,572	R 8.537	528			
2006	Ö	R 11	83	39,486	28,578	453	1,298	122,220	47	192,165	R 8,537 R 8,422	519			
2007	0	12	78	39,479	29,573	340	1,341	122,242	37	193,091	9,649	545			
								Trillion Btu							
1960	5.7	10.4	18.8	50.8	24.4	1.3	8.1	374.0	7.3	484.7	0.0	1.1	501.9	2.6	504.5
1965	1.2	13.8	1.9	67.0	68.8	1.3	7.9	429.6	2.7	579.2	0.0	1.0	595.2	2.5	597.6
1970 1975	0.4	28.7 14.6	1.3	88.7 119.3	128.2 137.4	2.0 1.8	7.5 8.8	528.1 597.1	2.6 1.4	758.4 866.2	0.0 0.0	1.0 0.9	788.5 881.8	2.4 2.1	790.9 883.9
1975	(s) 0.0	14.6	0.4	131.4	110.4	0.7	9.2	549.2	1.4	803.3	0.0	1.0	819.1	2.1	821.4
1985	0.0	11.6	1.1	111.0	15.4	1.5	8.4	571.7	1.2	710.2	7.1	1.3	730.2	3.0	733.2
1990	0.0	12.4	0.8	178.8	22.3	1.2	9.4	547.0	0.3	759.8	11.4	1.4	784.9	3.2	788.1
1995	0.0	13.6	1.1	141.5	58.7	1.0	9.0	571.4	0.2	783.0	15.1 10.9	1.3 1.5	797.9	3.0	800.9
1996	0.0	14.8	1.0	152.6	68.5	0.9	8.7	573.3	0.2	805.2	10.9	1.5	821.4	3.3	824.7
1997	0.0	15.0	1.0	151.0	70.9	0.6	9.2	581.9	0.3	814.9	15.9	1.5	831.4	3.3	834.7 R 852.7
1998 1999	0.0	13.5	0.8	163.7	74.6	1.0	9.6	584.4 612.7	0.2 0.2	R 834.5	18.9	1.4	849.4	3.3	^ 852.7
1999	0.0 0.0	11.8 13.8	0.9 0.8	195.4 190.9	103.4 128.7	1.2 0.8	9.7 9.6	612.7 618.6	0.2	923.5 949.9	20.1 24.2	1.5 1.6	936.8 965.3	3.4 3.6	940.2 968.9
2000	0.0	13.8	0.8	187.6	105.8	0.8	9.6 8.8	618.9	0.8	949.9 922.9	24.2 27.3	1.6	905.3 935.9	3.5	939.3
2002	0.0	13.9	0.0	176.3	77.0	0.4	8.7	625.1	0.5	889.3	25.2	1.6	904.9	3.6	908.5
2003	0.0	10.8	0.8	220.6	75.8	0.8	8.0	624.5	0.8	931.3	32.6	1.7	943.7	3.6	947.4
2004	0.0	11.6	0.9	217.5	122.2	0.7	8.1	640.6	0.1	990.1	33.7 R 30.2	1.5	1 003 2	3.4	1.006.6
2005	0.0	11.3	0.5	224.4	224.1	1.1	8.1	635.3	0.1	1,093.7	R 30.2	1.8	1,106.8 R 1,053.1	3.9	1,110.8 R 1,056.9
2006	0.0	R 11.3	0.4	230.0	162.0	1.6	7.9	637.7	0.3	1,040.0	R 29.8	1.8	^K 1,053.1	3.8	K 1,056.9
2007	0.0	12.0	0.4	230.0	167.7	1.2	8.1	638.0	0.2	1,045.6	34.1	1.9	1,059.5	4.0	1,063.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Illinois

				Petro	oleum				Biomass				=1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Waad	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kil	owatthours		Total f,i
1960	19,218	42	194	161	0	355	254 965	166		0	0	0	0	
1965	25.047	35	152	126	0	278	965	158		0	0	0	0	
1970	28,993	132	3,221	2,667	0	5,888	2,514	146		0	0	0	0	
1975	32,350	34	7,239	3,833	0	11,072	22,315	104		0	0	0	0	
1980 1985	34,611 31,608	19 6	12,762 2,569	847 436	0	13,608 3,005	27,742 39,106	121 119		0	0	0	0	
1985	27,396	9	2,569 1,622	436 491	0	2,113	71,887	119		0	0	0	0	
1995	33,463	39	1,013	539	385	1,938	78,481	119		0	0	0	0	
1996	38,091	26	1,184	548	241	1,973	69,774	100		0	0	0	0	
1997	41,017	45	577	551	19	1,147	51,069	92		Ö	Õ	Ŏ	Ŏ	
1998	39,660	57	744	595	346	1,684	55,596	134		0	0	0	0	
1999	40,548	54	269	459	93	821	81,744	139		0	0	0	0	
2000	46,046	47	795	363	0	1,158	89,438	142		0	0	0	0	
2001	45,732	47	2,675	289	0	2,964	92,358	141		0	0	0	0	
2002	49,266	82	218	234	0	453	90,860	129		0	0	0	-125	
2003	50,180	32	1,969	256	0	2,225	94,733	138		0	0	18	-160	
2004	54,078	31	1,112	210	197	1,518	92,047	150		0	0	78	-16	
2005 2006	53,822 53,939	58 43	141 30	338 200	190	669 284	93,263 94,154	129 173		0	0	141 255	-18	
2007	56,488	63	12	260	54 0	272	95,729	154		0	0	664	(s) 60	
							Trillion E	Btu						
1960	416.9	43.8	1.2	0.9	0.0	2.2	3.0	1.8	0.0	0.0	0.0	0.0	0.0	467.6
1965	537.2	35.6	1.0	0.7	0.0	1.7	11.4	1.7	(s)	0.0	0.0	0.0	0.0	587.6
1970 1975	608.9	135.7	20.3	15.5	0.0	35.8	27.6	1.5	(s) 0.0	0.0	0.0	0.0	0.0	809.5
1975	655.4	35.2	45.5	22.2	0.0	67.8	245.8	1.1	0.0	0.0	0.0	0.0	0.0	1,005.2
1980 1985	712.7 662.8	R 19.6 R 6.0	80.2 16.2	4.9 2.5	0.0 0.0	85.1 18.7	302.6 415.4	1.3 1.2	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,120.7 1,104.0
1905	591.4	R 9.4	10.2	2.5 2.9	0.0	13.1	760.7	1.5	2.4	0.0 0.0	0.0	0.0	0.0	1,104.0
1995	677.0	R 39.9	6.4	3.1	2.3	11.8	824.6	1.2	4.3	0.0	0.0	0.0	0.0	1,558.6
1996	765.5	K 26 3	7.4	3.2	1.5	12.1	732.8	1.0	5.6	0.0	0.0	0.0	0.0	1,543.3
1997	812.8	R ⊿5 ⊿	3.6	3.2	0.1	7.0	535.9	0.9	10.0	0.0	0.0	0.0	0.0	1,411.8
1998	791.5	r 57.6	4.7	3.5	2.1	10.2	583.3	1.4	8.7	0.0	0.0	0.0	0.0	1.452.5
1999	806.5	K 54 9	1.7	2.7	0.6	4.9	854.2	1.4	11.2	0.0	0.0	0.0	0.0	1,732.4
2000	875.2	R 48.1	5.0	2.1	0.0	7.1	932.7	1.4	10.9	0.0	0.0	0.0	0.0	1,874.9
2001	867.2	R 47 8	16.8	1.7	0.0	18.5	965.0	1.5	9.0	0.0	0.0	0.0	0.0	1,908.4
2002	886.1	K 82 8	1.4	1.4	0.0	2.7	948.5	1.3	10.0	0.0	0.0	0.0	-0.4	1,930.0
2003	905.8	R 32.6	12.4	1.5	0.0	13.9	987.2	1.4	9.7	0.0	0.0	0.2	-0.5	1,949.9
2004	970.2	R 31.4	7.0	1.2	1.2	9.4	959.8	1.5	9.6	0.0	0.0	0.8	-0.1	1,982.2
2005	951.6	R 59.6	0.9	2.0	1.1	4.0	973.2	1.3	8.1	0.0	0.0	1.4	-0.1	1,998.5
2006 2007	947.1 988.3	R 43.7 64.0	0.2 0.1	1.2 1.5	0.3 0.0	1.7 1.6	982.4 1,004.0	1.7 1.5	8.0 8.3	0.0 0.0	0.0 0.0	2.5 6.6	(s) 0.2	1,986.5 2,073.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Indiana

						Petroleum				Nuclean	Uhadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	32,592	212	25,707	1,316	5,751	43,595	13,076	18,365	107,809	0	100					
1965 1970	37,349 42,776	358 545	25,948 29,379	1,848 2,558	6,654 8,978	48,051 58,905	13,033 9,769	21,854 24,311	117,388 133,900	0	94 495					
1975	46,210	477	32,655	2,556	12,335	64,639	15,007	22,683	149,938	0	493					
1980	50,485	489	30,795	2,151	7,961	60,192	14,615	20,168	135,881	0	474					
1985	53,291	433	31,046	15,445	4,947	57,936	3,768	18,879	132,022	0	426					
1990 1995	61,701 62,631	451 535	32,957 33,345	17,889 17,344	9,563 6,788	61,930 70,100	3,827 1,833	25,157 24,702	151,323 154,113	0	441 467					
1996	64,021	573	34,713	12 576	8,555	69,578	1,328	29,684	156,434	0	448					
1997	66,051	557	36,839	R 10.996	7,379	69,828	1,478	30,989	156,434 R 157,509	0	562					
1998	66,480	522	36,727	R 9,656	5,346	74,133	1,162	29,888	K 156.911	0	479					
1999 2000	67,364 72,273	557 571	39,274 40,117	11,198 14,006	6,730 8,429	72,552 73,878	562 767	32,196 27,716	162,512 164,912	0	407 588					
2000	71.082	502	32,921	11.763	6,230	75,199	564	25,376	152,054	0	571					
2002	71,312	539	42,161	10,778	8,632	74,297	419	25,401	161.687	0	411					
2003	72,156	527	45,163	R 9,358	9,013	76,844	453	25,928	166,759	0	424					
2004 2005	73,665 72,834	527 531	41,160 43,742	8,558 6,950	8,171 6,899	77,109 77,008	809 858	28,809 27,726	164,616 163,182	0	444 438					
2005	73,269	496	43,808	7,865	6,425	77,103	1,101	27,720	163,539	0	490					
2007	72,807	536	43,154	7,450	7,474	76,610	605	25,452	160,744	0	450					
								Trillion Btu								
1960 1965	794.9 900.6	219.8 357.5	149.7 151.1	7.1 10.2	23.1 26.7	229.0 252.4	82.2 81.9	110.6 130.9	601.7 653.3	0.0 0.0	1.1 1.0	23.5 22.1	0.0 0.0	-109.5 -130.1	0.0 0.0	1,531.5 1,804.3
1970	1,006.8	548.6	171.1	14.2	33.9	309.4	61.4	147.6	737.7	0.0	5.2	23.3	0.0	-95.1	0.0	2,226.6
1975	1,061.2	472.6	190.2	14.6	45.8	339.6	94.3	138.5	823.0	0.0	4.6	26.7	0.0	-0.9	0.0	2,387.2
1980	1,157.0	R 483.9	179.4	12.0	29.2	316.2	91.9	122.6	751.3	0.0	4.9	51.2	0.0	-36.3	-1.6	2,410.4
1985 1990	1,193.3 1.361.8	R 436.4 R 459.1	180.8 192.0	87.4 101.3	17.8 34.7	304.3 325.3	23.7 24.1	114.9 154.3	729.0 831.6	0.0 0.0	4.5 4.6	56.7 46.9	0.0 0.5	-105.0 -189.9	1.9 2.3	2,316.7 2,516.8
1995	1,344.4	R 541.6	194.2	98.3	24.6	365.6	11.5	149.3	843.6	0.0	4.8	37.2	0.8	-124.8	-3.2	2,644.3
1996	1,374.5	R 579.5	202.2	71.3	30.9	362.9	8.3	178.6	854.3	0.0	4.6	38.6	0.8	-117.9	-3.2	2 731 2
1997	1,423.5	R 562.8	214.6	62.3	26.7	364.0	9.3	186.8	863.7	0.0	5.7	32.2	0.9	-168.9	-3.6	R 2,716.2
1998 1999	1,448.0 1.477.2	R 530.6 R 567.0	213.9 228.8	54.7 63.5	19.3 24.3	386.4 378.1	7.3 3.5	179.2 192.5	860.8 890.7	0.0 0.0	4.9 4.2	30.2 30.5	1.0 1.1	-163.8 -134.7	-3.2 -8.8	R 2,708.5 2,827.1
2000	1,595.0	R 584 8	233.7	79.4	30.4	384.9	4.8	165.1	898.4	0.0	6.0	28.1	1.1	-134.7	-8.7	2,906.1
2001	1,569.2	R 513.8	191.8	66.7	22.5	391.8	3.5	153.5	829.8	0.0	5.9	32.7	1.2	-162.2	-8.5	2,781.9
2002	1,547.5	K 512 1	245.6	61.1	31.2	386.9	2.6	153.9	881.3	0.0	4.2	33.8	1.3	-119.6	-4.7	2,855.9
2003 2004	1,570.7 1.614.2	R 541.8 R 542.5	263.1 239.8	53.1 48.5	32.7 29.6	400.1 402.1	2.8 5.1	157.3 174.8	909.2 899.8	0.0 0.0	4.3 4.4	33.8 34.6	1.6 1.8	-153.3 -147.6	-5.7 -5.2	2,902.4 2,944.6
2004	1,594.4	R 540.7	254.8	39.4	25.0	401.8	5.4	168.0	894.4	0.0	4.4	R 38.3	2.1	-156.3	-5.2 -5.1	R 2,912.8
2006	1,595.9	R 504.7	255.2	44.6	23.2	402.3	6.9	164.7	896.9	0.0	4.9	R 39.1	2.4	-172.9	-4.9	R 2,866.1
2007	1,574.5	548.1	251.4	42.2	26.8	399.8	3.8	153.6	877.7	0.0	4.4	39.1	2.9	-138.8	-3.9	2,904.0

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Indiana

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	1,251 618	76	8,536	3,370	3,389	15,296	770			6,371			
1965	618	114	8,146	3,370 2,498	3,993	14,637	580			8,651			
1970 1975	393	159	8,027	1,837	6,312	16,175	567			13,488			
1975	270	163	8,647	717	6,665	16,029	562			16,375			
1980 1985	47	164 146	5,398	492 466	3,351 2,340	9,241 5,462	1,234 1,284			19,262			
1985 1990	115 110	146 140	2,656 1,997	466 278	2,340	5,462 5,770	1,284 802			19,803			
1990	37	161	1,997	278 215	3,494 3,768	5,770 5,459	435			22,111 26,560			
1996	13	180	1,447	288	5,058	6,793	452			26,860			
1997	43 44	169	1,264	303	5,003	6,569	301			26,550			
1998	41	140	1,054	300	3,684	5,039	268			27,334			
1999	41	152	1,047	1.328	4.466	6.841	282			28.806			
2000	30	161	976	359	5,045 3,705	6,381	303			28,649			
2001	28	147	779	358	3,705	4,842	405			29,420			
2002	40	157	843	284	5,139	6,265	411			31,568			
2003	46	157	1,140	206	5,398	6,745	432			30,726			
2004	43	149	1,016	256	4,519	5,792	443			31,192			
2005 2006	21 5	149 128	898 613	262 174	3,815 R 3,303	4,975 R 4,090	R 620 R 565			33,629 32,286			
2006	16	143	477	129	4,087	4,693	623			34,646			
					· · · · · · · · · · · · · · · · · · ·		rillion Btu			·			
1960	30.1	78.7	49.7	19.1	13.6	82.4	15.4	0.0	0.0	21.7	228.3	53.8	282.1
1965	14.8	114.2	47.5	14.2	16.0	77.6	11.6	0.0	0.0	29.5	247.8	70.5	318.3
1970	9.1	159 7	46.8	10.4	23.9	81.0	11.3	0.0	0.0	46.0	307.1	111.4	418.5
1975	6.0	161.2 R 161.9 R 147.4	50.4	4.1	24.8	79.2	11.2	0.0	0.0	55.9	313.5	134.4	447.8
1980	1.0	R 161.9	31.4	2.8	12.3	79.2 46.5	24.7	0.0	0.0	55.9 65.7	299.3	158.4	457.7
1985	2.6	R 147.4	15.5	2.6	8.4	26.5	25.7	0.0	0.0	67.6	268.8	155.6	424.5
1990	2.5	K 1/12 1	11.6	1.6	12.7	25.9	16.0	0.5	(s) (s) (s)	75.4	262.4	174.5	436.9
1995 1996	0.8	R 163.0 R 181.9	8.6	1.2 1.6	13.7 18.3	23.5 28.3	8.7	0.6 0.7	(s)	90.6	286.3	205.8	492.1 519.9
1996	1.0	N 181.9	8.4	1.6	18.3	28.3	9.0	0.7	(s)	91.6	311.5	208.4	519.9
1997	1.0	R 171.0	7.4	1.7	18.1	27.2	6.0	0.7	(s)	90.6	295.3	205.2	500.6
1998 1999	0.9 1.0	R 142.5	6.1 6.1	1.7 7.5	13.3 16.1	21.2 29.8	5.4 5.6	0.7 0.8	(s) (s)	93.3 98.3	263.1 287.4	211.5 224.8	474.6 512.2
2000	0.7	R 154.3 R 165.3 R 150.9	5.7	7.5 2.0	18.2	29.8 25.9	6.1	0.8		98.3 97.7	287.4 294.1	224.8	512.2 516.4
2000	0.7	R 150.3	4.5	2.0	13.4	20.0	8.1	0.8	(s) (s)	100.4	278.3	222.3	502.0
2001	0.0	K 148 1	4.0	1.6	18.6	25.1	8.2	1.0	(s)	107.7	289.7	240.1	529.8
2003	1.0	K 161 8	4.9 6.6	1.2	19.6	27.4	8.6	1.3		104.8	303.3	231.3	534 7
2004	1.0	R 153.1	5.9	1.5	16.3	23.7		1.4	(s) 0.1	106.4	293.1	235.5	528.6
2005	0.5	R 153.1 R 151.3	5.9 5.2	1.5	13.8 R 11.9	20.5	8.9 R 12.4	1.6	0.1	114.7	293.1 R 299.7	251.0	R 550.6
2006	0.1	^R 129.8	3.6	1.0	R 11.9	^R 16.5	R 11.3	1.8	0.1	110.2	^R 268.5	238.2 255.1	528.6 R 550.6 R 506.7 551.5
2007	0.4	145.9	2.8	0.7	14.7	18.2	12.5	2.2	0.1	118.2	296.4	255.1	551.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Indiana

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	869	20	2,968	328	598	168	1,394	5,456	0			2,900			
1965	466	42	2,832	243	705	171	1,520	5,472	0			4,243			
1970	309	78	2,791	179	1,114	251	844	5,178	0			6,520			
1975 1980	630 175	71 70	3,007 1.985	70 31	1,176 591	120 223	1,645 2,431	6,017 5,262	0			9,071 10.423			
1985	408	70	2,738	133	413	352	388	4,024	0			12,257			
1990	441	67	1,244	35	617	561	388 62 32	2,518	Ŏ			16,116			
1995	249	83	1,104	70	665	175	32	2,045	0			18,654			
1996 1997	314 352	87 82	965 1,095	69 87	893 883	159 171	14 9	2,099 2,244	0			18,822 19,030			
1997	330	62 73	1,422	51	650	167	121	2,244	0			19,030			
1999	302	74	1,289	41	788	183	2	2,303	0			20,685			
2000	245	90	1,344	48	890	87	2	2,370	0			21,070			
2001	223	78	1,576	44	654	254	1	2,528	0			26,219			
2002 2003	291 311	82	1,379 1,682	31	907 953	231 247	1 63	2,548 2,977	0			22,363			
2003	386	87 85	1,682	33 44	953 797	247	114	2,977	0			22,441 22,957			
2005	236	76	1,274	47	673	239	112	2,345	0			23,959			
2006	236 R 52	71	1,341	40	R 583	214	0	R 2,177	0			23,830			
2007	144	76	996	28	721	276	4	2,025	0			24,768			
								Trillion Btu							
1960	20.9	20.7	17.3	1.9	2.4	0.9	8.8	31.2	0.0	0.3	0.0	9.9	83.0	24.5	107.5
1965	11.2	42.2	16.5	1.4	2.8	0.9	9.6	31.2	0.0	0.2	0.0	14.5	99.2	34.6	133.8
1970 1975	7.1 13.9	78.0 _ 69.8	16.3 17.5	1.0 0.4	4.2 4.4	1.3 0.6	5.3 10.3	28.1 33.3	0.0 0.0	0.2 0.2	0.0 0.0	22.2 31.0	135.7 148.1	53.8 74.4	189.6 222.6
1975	3.8	R 69.3	11.6	0.4	2.2	1.2	15.3	30.4	0.0	0.2	0.0	35.6	139.4	85.7	225.1
1985	9.1	K 70 2	15.9	0.8	1.5	1.8	2.4	22.5	0.0	0.6	0.0	41.8	143.8	96.3	240.1
1990	9.9	R 68 4	7.2	0.2	2.2	2.9	0.4	13.0	0.0	8.9	0.0	55.0	154.9	127.2	282.0
1995	5.6	R 83.7	6.4	0.4	2.4	0.9	0.2	10.3	0.0	8.5	0.1	63.6	171.4	144.5	315.9
1996	7.0	R 88.4 R 82.6	5.6	0.4	3.2	0.8	0.1	10.2	0.0	8.6	0.1	64.2	178.0	146.0	324.1
1997 1998	7.8 7.5	R 74.4	6.4 8.3	0.5 0.3	3.2 2.3	0.9 0.9	0.1 0.8	11.0 12.6	0.0 0.0	8.5 8.2	0.2 0.2	64.9 67.8	174.5 170.1	147.1 153.7	321.6 323.8
1998	7.5 7.5	R 75 0	8.3 7.5	0.3	2.3	1.0	0.8 (s)	12.6	0.0	8.2 7.9	0.2	70.6	170.1	161.4	323.8
2000	5.8	R 92.7	7.8	0.2	3.2	0.5	(s)	11.8	0.0	7.9	0.2	71.9	188.8	163.5	352.3
2001	5.0	R 80.4	9.2	0.2	2.4	1.3	(s)	13.1	0.0	5.5	0.2	89.5	192.3	199.4	391.7
2002	6.5	R 77.9	8.0	0.2	3.3	1.2	(s) 0.4	12.7	0.0	5.5	0.3	76.3	178.3	170.1	348.4
2003 2004	7.0	R 89.7 R 87.5	9.8	0.2	3.5	1.3	0.4 0.7	15.1	0.0	5.6	0.3	76.6	193.3	169.0	362.3
	8.6 5.3	Υ 87.5 R 77.6	9.8 7.4	0.2	2.9	1.1		14.8 12.1	0.0	5.5 R 6.0	0.4	78.3 81.7	194.3 182.4	173.3 178.8	367.6 R 361.2
	1.2	R 72.3		0.3						R 5.9				175.8	R 347.5
2007	3.2	77.3	5.8	0.2	2.6	1.4	(s)	10.0	0.0	2.7	0.5	84.5	177.8	182.3	R 347.5 360.1
2005 2006	5.3 1.2	R 77.6 R 72.3	7.4 7.8	0.3 0.2	2.4 2.1	1.2 1.1	0.7 0.0	12.1 11.3	0.0 0.0	R 6.0 R 5.9 2.7	0.5 0.5	81.7 81.3	182.4 171.7	178 175	8.8 5.8

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Indiana

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	16,702	102	9,976	1,716	2,813	11,229	13,522	39,256	(s)			8,226			
1965 1970	18,093 19,394	180 268	9,766 10,180	1,904 1,455	2,686 2,238	10,866 8,391	17,388 21,065	42,611 43,329	0			12,360 17,952			
1970	19,394	208	9,324	4,369	1,263	11,688	20,917	43,329	0						
1980	16,599	245	5,053	3,930	752	11,984	18,693	40,412	ő			30,730			
1985	14,457	211	4,675	2,046	901	3,348	17,257	28,227	0			31,784			
1990	13,496	228	5,293	5,300	625	3,570	22,877	37,665	0			35,743			
1995	10,255	275	4,766	2,250	849	1,567	23,515	32,947	0			41,777			
1996 1997	10,810 10,811	289 290	4,671 5,028	2,485 1,427	808 847	1,022 1,075	28,202 28,863	37,187 37,240	0			43,203 43,550			
1998	10,843	287	5,881	962	650	738	27,470	35,702	0			44,848			
1999	10.703	312	5,668	1,442	655	314	28,900	36 979	0			47,230			
2000	12,567	299	5,465	2,433	591	464	25,299	34,252	0			48,040			
2001	13.434	251	6,234	1,798	1,086	392	23,900	33,411	0			42,080			
2002	13,290	259	6,001	2,451	1,160	171	23,691	33,474	0			47,481			
2003 2004	13,306 13,777	249 263	6,348 6,281	2,500 2,677	1,181 1,530	312 532	24,522 27,290	34,863 38,311	0			47,284 48,928			
2004	13,777	264	6,965	2,240	1,394	554	26,455	37,608	0			48,944			
2006	12,567 12,630	264	5,878	R 2,394	1,465	923	26,315	37,608 R 36,974	0						
2007	11,891	273	6,192	2,526	2,533	314	24,567	36,133	Ö						
							Tr	illion Btu							
1960	431.8	106.1	58.1	6.9	14.8	70.6	83.1	233.5	(s)	7.8	0.0	28.1	807.2	69.4	876.6
1965	466.3	179.8	56.9	7.6	14.1	68.3	106.1	253.0	0.0	10.3	0.0		951.5	100.7	1,052.2
1970	490.9	270.1	59.3	5.5	11.8	52.8	129.1	258.4	0.0	11.7	0.0		1,092.4	148.3	1,240.7
1975	461.6	221 1	54.3	16.2	6.6	73.5	128.3	278.9	0.0	15.3	0.0	91.0	1,067.9	218.9	1,286.8
1980	423.9	R 242.0	29.4	14.4	3.9	75.3	114.1	237.3	0.0	25.9	0.0		1,033.2	252.7	1,285.9
1985	365.1	R 212.8	27.2	7.4	4.7	21.1	105.7	166.1	0.0	30.4	0.0		881.6	249.8	1,131.3
1990 1995	342.8	R 232.3 R 278.7	30.8	19.2	3.3	22.4	140.9	216.7	0.0	21.9	0.0		934.1	282.0	1,216.1
1995 1996	258.5 269.3	R 278.7	27.8 27.2	8.2 9.0	4.4 4.2	9.9 6.4	142.4 169.9	192.5 216.7	0.0 0.0	19.4 20.1	0.0		890.0 944.0	323.7 335.2	1,213.7 1,279.2
1997	271.3	R 293.3	29.3	5.2	4.4	6.8	174.2	219.8	0.0	16.6	0.0		947.7	336.7	1,284.4
1998	279.0	R 292.2	34.3	3.5	3.4	4.6	164.8	210.6	0.0	15.6	0.0		948.6	347.0	1,295.6
1999	276.3	K 317 3	33.0	5.2	3.4	2.0	173.2	216.9	0.0	15.9	0.0		982.6	368.6	1,351.2
2000	329.4	R 306.1	31.8	8.8	3.1	2.9	150.8	197.4	0.0	13.1	0.0		1,005.2	372.8	1,378.1
2001	354.1	K 256 9	36.3	6.5	5.7	2.5	144.7	195.7	0.0	18.1	0.0		963.9	320.0	1,283.9
2002	349.6	R 244.8	35.0	8.9	6.0	1.1	143.8	194.7	0.0	19.0	0.0		967.9	361.1	1,329.0
2003	347.3	R 255.8	37.0	9.1	6.1	2.0	149.0	203.2	0.0	18.6 R 19.2	0.0		983.4 R 1,038.1	356.0	1,339.4
2004 2005	360.1 317.0	R 271.0 R 268.9	36.6 40.6	9.7 _ 8.1	8.0 7.3	3.3 3.5	165.8 160.6	223.4 _ 220.0	0.0	19.7	0.0		989.9	369.4 365.3	1,407.4 _ 1,355.2
2005	317.6	R 268.4	34.2	R 8.6	7.3 7.6	5.8	159.3	R 215.6	0.0	R 19.8	0.0	167.0	R 987.8	365.4	R 1,353.2
2007	299.7	279.1	36.1	9.1	13.2	2.0	148.4	208.7	0.0	21.7	0.0		977.8	368.0	1,345.8

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Indiana

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	287	5	453	4,097	1,316	47	692	40,615	350	47,570	0	1			
1965	59	8	1,110	5,124	1,848	52	615	45,194	583	54,526	Ő	0			
1970	31	11	367	8,123	2,558	97	610	56,417	330	68,501	0	0			
1975	3	10	217	11,200	2,619	125	763	63,256	331	78,510	0	0			
1980 1985	0	9 5	260 393	17,629 20,564	2,151 15,445	88 148	692 630	59,217 56,684	200 31	80,236 93,895	1 290	0			
1900	0	8	302	24,000	17,889	153	709	60,744	195	103,991	1,280 1,478	12			
1995	0	8	144	25,658	17.344	104	676	69,076	235	113.238	2.190	15			
1996	0	13	171	27,277	12 576	120	656	68,611	293	109 703	1,116	15			
1997	0	11	136	29,130	R 10,996 R 9,656	66	693	68,809	395	R 110,225 R 112,085	1.497	16			
1998	0	8	113	27,923	K 9,656	50	726	73,315	303	K 112,085	1,431	15			
1999 2000	0	8 6	119 113	30,715 31,803	11,198 14,006	35 60	733 722	71,714 73,199	246 302	114,760 120,205	2,508 2,806	15 16			
2000	0	7	67	23,947	11,763	73	662	73,859	302 171	110,541	2,590	16			
2002	0	6	122	33,616	10 778	136	654	72,906	246	118,456	2,940	16			
2003	ő	7	106	35,637	R 9,358	162	604	75,417	77	121,360	3.150	16			
2004	0	7	103	31,892	8,558	177	612	75,373	161	116,877	3 172	17			
2005	0	7	162	34,281	6,950	171	609	75,375	192	117,740	R 3,581 R 3,786	17			
2006	0	6	116	35,709	7,865	145	593	75,424	177	120,030	K 3,786	18			
2007	0	7	115	35,204	7,450	139	613	73,801	287	117,609	4,561	19			
								Trillion Btu							
1960	6.9	5.2	2.3	23.9	7.1	0.2	4.2	213.3	2.2	253.2	0.0	(s)	265.3	(s)	265.3
1965	1.4	8.0	5.6	29.8 47.3	10.2	0.2	3.7	237.4	3.7	290.6	0.0	0.0	300.1	0.0	300.1
1970 1975	0.7	11.2 9.5	1.9	47.3 65.2	14.2 14.6	0.4	3.7	296.4 332.3	2.1	365.9 420.4	0.0	0.0	377.8 430.0	0.0	377.8 430.0
1975 1980	0.1 0.0	9.5 8.8	1.1 1.3	102.7	14.6	0.5 0.3	4.6 4.2	332.3 311.1	2.1 1.3	420.4 432.8	0.0 0.0	0.0 0.0	430.0 441.6	0.0 0.0	430.0 441.6
1985	0.0	4.9	2.0	119.8	87.4	0.5	3.8	297.8	0.2	511.5	4.5	0.0	520.8	0.0	520.8
1990	0.0	8.6	1.5	139.8	101.3	0.6	4.3	319.1	1.2	567.8	5.2		581.6	0.1	581.7
1995	0.0	7.8	0.7	149.5	98.3	0.4	4.1	360.2	1.5	614.7	7.7	(s) 0.1	622.5	0.1	622.7
1996	0.0	12.7	0.9	158.9	71.3	0.4	4.0	357.9	1.8	595.2	3.9	0.1	607.9	0.1	608.0
1997	0.0	11.1	0.7	169.7	62.3	0.2	4.2	358.7	2.5	598.3	5.3	0.1	609.5	0.1	609.6
1998	0.0	7.7	0.6	162.7	54.7	0.2	4.4	382.1	1.9	R 606.6	5.1	0.1	R 614.3	0.1	614.4
1999 2000	0.0 0.0	7.7 6.1	0.6 0.6	178.9 185.3	63.5 79.4	0.1 0.2	4.4 4.4	373.7 381.4	1.5 1.9	622.8 653.1	8.9 9.9	0.1	630.6 659.2	0.1 0.1	630.7 659.3
2000 2001	0.0	6.1 7.5	0.6	185.3 139.5	79.4 66.7	0.2	4.4 4.0	381.4 384.8	1.9	596.7	9.9 9.2	0.1 0.1	604.2	0.1	604.4
2001	0.0	5.3	0.6	195.8	61.1	0.5	4.0	379.7	1.5	643.2	10.4	0.1	648.6	0.1	648.7
2003	0.0	7.3	0.5	207.6	53.1	0.6	3.7	392.7	0.5	658.6	11.1	0.1	665.9	0.1	666.1
2004	0.0	7.6	0.5	185.8	48.5	0.6	3.7	393.1	1.0	633.3	11.2	0.1	640.9	0.1	641.0
2005	0.0	6.9	0.8	199.7	39.4	0.6	3.7	393.3	1.2	638.7	R 12.7	0.1	645.7	0.1	645.8
2006	0.0	6.6	0.6	208.0	44.6	0.5	3.6	393.6	1.1	652.0	R 13.4	0.1	658.6	0.1	R 658.7
2007	0.0	7.3	0.6	205.1	42.2	0.5	3.7	385.2	1.8	639.1	16.1	0.1	646.5	0.1	646.6

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Indiana

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	18/aad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960 1965	13,483 18,113	9 13	103 63	130 80	0	232 142	0	100 94		0	0	0	0	
1970	22,648	30	204	257	255	716	0	495		0	0	0	0	
1975	27,301	11	1,344	477	0	1,821	0	444		0	0	Ō	0	
1980	33,664	2	0	730	0	730	0	474		0	0	0	0	
1985 1990	38,310 47,654	1	0	414 423	0 956	414 1,379	0	426 441		0	0	0	0	
1990	52,089	8	0	342	956 82	424	0	441		0	0	0	0	
1996	52,855	4	Ö	353	298	652	Ŏ	448		Ŏ	Ö	Ŏ	ő	
1997	54,845	5	0	322	908	1,230	0	562		0	0	0	0	
1998	55,267	14	0	447	1,227	1,674	0	479		0	0	0	0	
1999 2000	56,317 59,431	13 15	0	554 530	1,075 1,174	1,630 1,704	0	407 588		0	0	0	0	
2001	57,397	18	1	385	347	733	0	571		0	0	0	0	
2002	57,692	35	1	322	620	944	0	411		0	0	0	-1	
2003	58,493	27	1	356	456	814	0	424		0	0	0	0	
2004 2005	59,459 60,011	23 35	1	280 323	503 190	784 513	0	444 438		0	0	0	0 11	
2005	60,582	27	0	267	0	267	0	490		0	0	0	30	
2007	60,756	38	Ö	284	Ö	284	Ő	450		Ő	Ö	Ö	-23	
							Trillion E	Btu						
1960	305.2	9.1	0.6	0.8	0.0	1.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	316.8
1965 1970	406.9 498.9	13.3 29.7	0.4 1.3	0.5 1.5	0.0 1.5	0.9 4.3	0.0 0.0	1.0 5.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	422.0 538.1
1975	579.6	11.0	8.5	2.8	0.0	11.2	0.0	4.6	0.0	0.0	0.0	0.0	0.0	606.4
1980	728.2	1.9	0.0	4.3	0.0	4.3	0.0	4.9	0.0	0.0	0.0	0.0	0.0	739.3
1985	816.5	1.1	0.0	2.4	0.0	2.4	0.0	4.5	0.0	0.0	0.0	0.0	0.0	824.5
1990	1,006.7	6.6	0.0	2.5	5.8	8.2	0.0 0.0	4.6	0.0	0.0	0.0	0.0	0.0	1,026.1
1995 1996	1,079.6 1,097.2	8.5 4.4	0.0 0.0	2.0 2.1	0.5 1.8	2.5 3.9	0.0	4.8 4.6	0.5 R 0.9	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,095.9 1,111.0
1997	1,143.4	R⊿a	0.0	1.9	5.5	7.3	0.0	5.7	1.0	0.0	0.0	0.0	0.0	1,162.2
1998	1.160.5	R 13.9 R 12.8	0.0	2.6	7.4	10.0	0.0	4.9	1.0	0.0	0.0	0.0	0.0	1.190.2
1999	1,192.3	R 12.8	0.0	3.2	6.5	9.7	0.0	4.2	1.0	0.0	0.0	0.0	0.0	1,219.7
2000	1,259.2	R 14.8	0.0	3.1	7.1	10.2	0.0	6.0	1.1	0.0	0.0	0.0	0.0	1,291.0 R 1,238.8
2001 2002	1,209.6 1,190.6	R 18.1 R 36.0	(s) (s)	2.2 1.9	2.1 3.7	4.3 5.6	0.0 0.0	5.9 4.2	1.1 1.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0	1,238.8
2002	1,190.6	R 27 2	(s)	2.1	2.7	4.8	0.0	4.3	1.0	0.0	0.0	0.0	(s) 0.0	1,252.6
2004	1,244.5	R 23.3	(s) (s)	1.6	3.0	4.7	0.0	4.4	1.0	0.0	0.0	0.0	0.0	1,277.7
2005	1,271.7	R 36.0	0.0	1.9	1.1	3.0	0.0	4.4	0.2	0.0	0.0	0.0	(s)	1,315.0
2006 2007	1,277.0 1,271.2	R 27.6 38.4	0.0 0.0	1.6 1.7	0.0 0.0	1.6 1.7	0.0 0.0	4.9 4.4	2.2 2.3	0.0 0.0	0.0 0.0	0.0 0.0	0.1 -0.1	1,313.0 1,317.6
	, -													,

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Iowa

						Petroleum				Needer	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Mand	Geo- thermal, Solar/PV.	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	Wood and Waste ^{f,g}	and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	5,258	187	11,163	195	5,017	29,463	1,071	6,288	53,197	0	881					
1965 1970	5,722 6,166	248 349	11,068 13,677	232 725	7,448 11,038	30,792 35,701	531 401	5,690 4,986	55,760 66,528	0	928 935					
1975	6.407	349	14,553	835	13,645	39.042	608	4,340	73,024	2.291	933 879					
1980	12,340	270	15,930	813	11,167	35,394	415	8,003	71,721	2,563	946					
1985	14,342	226	15,823	592	8,507	31,465	182	4,689	61,258	1,927	989					
1990 1995	18,080 20,728	219 261	15,784 17,748	891 1,046	6,355 16,989	31,684 34,418	124 92	3,385 3,135	58,223 73,427	3,012 3,730	875 1,003					
1996	21,301	272	19,793	819	11,344	35,909	94	5,134	73,092	3,924	935					
1997	21,798	254	19,652	793	10,296	35,577	71	5,926	72,316	4,149	805					
1998 1999	23,275 23,590	232 231	20,058 19,588	R 1,186 885	14,882 18.746	36,973 36,993	88 100	5,586 6.495	R 78,772 82,807	3,768 3.640	913 946					
2000	23,390	233	19,366	771	19,621	36,753	143	5,868	82,417	4,453	946					
2001	24,398	224	20,101	777	16,127	36,768	44	5,018	78,835	3,853	845					
2002	24,676	226	19,706	782	18,317	38,004	62	5,566	82,437	4,574	946					
2003 2004	24,868 24,975	230 227	18,378 20,407	793 910	13,337 18,974	38,249 39,445	150 282	5,476 6,490	76,383 86,508	3,988 4,929	789 946					
2004	24,973	241	20,560	990	20,881	39,215	194	6.474	88,314	4,538	960					
2006	24,607	238	21,313	1,033	21,192	40,429	47	5,907	89,921	5,095	909					
2007	26,315	259	22,873	899	16,893	40,251	44	5,369	86,330	4,519	962					
								Trillion Btu								
1960	115.9	193.7	65.0	1.0	20.1	154.8	6.7	38.2	285.9	0.0	9.5	6.4	0.0	-8.5	0.0	602.9
1965 1970	126.6 130.9	250.0 351.8	64.5 79.7	1.3 4.1	29.9 41.7	161.7 187.5	3.3 2.5	34.6 31.0	295.3 346.4	0.0 0.0	9.7 9.8	5.5 6.3	0.0 0.0	11.1 5.4	0.0	698.1 850.6
1975	131.6	348.6	84.8	4.7	50.7	205.1	3.8	26.7	375.8	25.2	9.1	7.9	0.0	46.3	0.0	944.5
1980	234.4	R 270.4	92.8	4.6	41.0	185.9	2.6	46.2	373.1	28.0	9.8	48.7	0.0	42.7	-0.1	1,007.1
1985 1990	268.8 335.0	R 228.4 R 220.4	92.2 91.9	3.3	30.7 23.0	165.3 166.4	1.1 0.8	28.3 20.7	320.8 307.9	20.5	10.3	58.1 47.8	0.0	24.7 11.6	-30.3 -45.1	901.4 918.6
1990	335.0 372.3	R 262.5	103.4	5.0 5.9	23.0 61.5	179.5	0.8	20.7 19.4	307.9 370.3	31.9 39.2	9.1 10.3	47.8 40.8	0.1 0.2	15.8	-45.1 -52.0	1,059.5
1996	383.7	R 274.0	115.3	4.6	41.0	187.3	0.6	30.6	379.4	41.2	9.7	48.3	0.2	23.3	-50.9	1,108.9
1997	391.7	R 256.8	114.5	4.5	37.2	185.5	0.4	35.7	377.8	43.5	8.2	40.4	0.3	27.2	-47.9	1,098.0
1998	424.9	R 234.6	116.8	6.7	53.8	192.7	0.6	33.3	403.9	39.5	9.3	37.3	0.3	1.9	-49.5	1,102.1
1999 2000	432.0 445.9	R 235.1 R 233.7	114.1 112.2	5.0 4.4	67.8 70.8	192.8 191.5	0.6 0.9	39.1 35.1	419.4 414.8	38.0 46.4	9.7 9.2	37.7 31.7	3.7 5.4	9.8 -8.4	-33.5 -30.7	1,151.8 1,148.0
2001	443.9	R 225.2	117.1	4.4	58.3	191.6	0.3	29.9	401.6	40.3	8.7	27.7	5.4	-5.0	-31.8	1,115.9
2002	441.5	R 228.3	114.8	4.4	66.2	197.9	0.4	33.5	417.2	47.7	9.6	30.8	9.7	2.2	-33.3	1,153.8
2003 2004	444.6 443.2	R 232.2 R 228.6	107.0 118.9	4.5 5.2	48.4 68.6	199.2 205.7	0.9 1.8	32.9 39.3	392.9 439.4	41.6 51.4	8.1 9.5	30.5 R 30.6	10.6 11.1	7.9 -12.5	-33.4 -29.6	1,134.9 R 1,171.7
2004	443.2 429.8	R 242.8	118.9	5.2 5.6	75.6	205.7	1.8	39.3 39.4	439.4 446.2	51.4 47.4	9.5	R 33.1	17.1	5.9	-29.6 -32.0	K 1 199 8
2006	435.2	R 241.8	124.1	5.9	76.4	211.0	0.3	35.8	453.5	53.2	9.0	R 32.6	23.7	R -5.4	-34.2	R 1,209.3
2007	464.4	261.9	133.2	5.1	60.7	210.1	0.3	32.3	441.6	47.4	9.5	36.0	28.1	-21.6	-32.0	1,235.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Iowa

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	537	58	2.610	2.301	3.312	8,223	163			3,720			
1965	279	58 77	2,610 2,347	2,301 1,327	3,312 4,741	8,416	108			5,044			
1970 1975	100	96 94	2,232	325	6,826 6,799	9,383	99			6,480			
1975	42	94	1,802	138	6,799	8,740	115			8,338			
1980	19	85 79	2,388	47 115	3,890 2,996	6,325	517			10,038 9,851			
1985	61	79	1,490	115	2,996	4,601	644			9,851			
1990	49	71	926	24 25	2,742	3,692	348			10,513			
1995 1996	12 27	82 88 82	781 774	25	3,964 5,321	4,769 6,125	303 314			11,640			
1996	41	00	774 725	30 28	4,935	5,687	242			11,537 11,673			
1997	31	69	550	26 25	4,935 4,178	4,753	215			11,855			
1999	47	71	537	24	5,230	5,791	227			11,867			
2000	29	74	481	26	5,308	5,815	244			12,029			
2000	31	71	415	37	3,412	3,863	236			12,430			
2002	38	72	580	22	4,416	5,019	240			12,921			
2003	38	74	377	20	4,612	5,009	252			12,768			
2004	18	68	322	28	4.082	4 431	259			12,625			
2005	22	67	226	22	4,254	4,503	259 R 307			13.571			
2006	R 27	62	241	15	4,254 R 4,060	4,503 R 4,316	R 280			13,344			
2007	30	68	229	10	4,140	4,379	308			14,060			
						Ti	rillion Btu						
1960	11.4	60.5	15.2	13.0	13.3	41.5	3.3	0.0	0.0	12.7	129.4	31.4	160.8
1965	5.9	78.0	13.7	7.5 1.8	19.0	40.2	2.2	0.0	0.0	17.2	143.5	41.1	184.6
1970	2.0	97.1	13.0	1.8	25.8	40.6	2.0	0.0	0.0	22.1	163.9	53.5	217.4
1975	0.8	95.1	10.5	0.8	25.3	36.5	2.3	0.0	0.0	28.4	163.2	68.4	231.6
1980	0.4	85.2 R 79.6	13.9	0.3 0.7	14.3	28.5	10.3	0.0	0.0	34.2	158.6 134.1	82.6	241.2
1985 1990	1.3 1.2	R 71.9	8.7 5.4	0.7	10.8 9.9	20.1 15.5	12.9 7.0	0.0 0.1	0.0	33.6	134.1	77.4 82.9	211.5 197.9
1990	1.2	R 82.6	0.4 4.5	0.1	9.9	19.0	6.1	0.1	(s)	35.9	130.7	90.2	197.9
1995 1996	0.3 0.7	R 88.6	4.5	0.1	14.4 19.2	23.9	6.3	0.1	(s) (s)	39.7 39.4	141.6	89.5	220.9 231.2
1990	1.0	R 82 4	4.5 4.5 4.2 3.2	0.2	17.8	22.2	4.8	0.1	(s)	39.8	134.1	90.2	224.4
1998	0.7	R 69.7	3.2	0.2	15.1	18.4	4.3	0.1	(s)	40.5	118.4	91.7	210.1
1999	1.2	K 72 8	3.1	0.1	18.9	22.2	4.5	0.1	(s)	40.5	130.6	92.6	223.2
2000	0.7	R 74.2	2.8	0.1	19.1	22.1	4.9	0.1	(s)	41.0	133.0	93.4	226.3
2001	0.7	K 71.3	2.4	0.2	12.3	15.0	4.7	0.1	(s)	42.4	123.8	94.5	218.3
2002	0.9	R 72 1	3.4	0.1	16.0	19.5	4.8	0.1	(s)	44.1	130.5	98.3	228.7
2003	0.9	R 74.7	3.4 2.2	0.1	16.7	19.0	5.0	0.2	(s)	43.6	132.2	96.1	228.3
2004	0.4	R 68.9	1.9	0.2	14.8	16.8	5.2 R 6.1	0.2 0.2	(s)	43.1	125.2 R 128.3	95.3	220.5
2005	0.5	R 67.7	1.3	0.1	15.4 R 14.6	_ 16.8	R 6.1	0.2	(s)	46.3	R 128.3	101.3	R 229.6
2006	0.6	R 62.8	1.4 1.3	0.1	^R 14.6	R 16.1	^R 5.6	0.2	(s)	45.5	^R 121.5	98.5	220.5 R 229.6 R 220.0 234.5
2007	0.7	68.4	1.3	0.1	14.9	16.3	6.2	0.3	(s)	48.0	131.0	103.5	234.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources béginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Iowa

					Petro	oleum				Biomass		B . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	373	28	1,046	94	584	178	232	2,135	0			1,812			
1965	211	39	941	54	837	194	135	2,161	0			2,797			
1970	78	57	895	13	1,205	271	65	2,449	0			3,655			
1975	97	67	722	6	1,200	323	115	2,366	0			5,121			
1980	71	51	751	5	686	350	79	1,871	0			5,502			
1985 1990	217 196	48 44	1,167	7	529	237 142	1	1,941 1,269	0			6,306			
1990	78	44 50	576 415	38 3	484 700	142	30 0	1,269	0			7,532 8,890			
1995	195	50 55	356	4	939	35 244	1	1,563	0			8,673			
1997	333	50	320	8	871	445	Ó	1,667	0			8,944			
1998	249	43	463	3	737	470	1	1.695	Ō			9,384			
1999	343	45	487	4	923	433	0	1,867	0			9,668			
2000	232	46	481	6	937	533	3	1,987	0			9,932			
2001	248	46	544	13	602	547	1	1,738	0			10,776			
2002	275	46 48	454	6	779	640	2	1,922	0			11,429			
2003 2004	252 159	48 46	677 466	4 5	814 720	653 1,010	0 0	2,202 2,247	0			11,637 10,840			
2004	252	45	316	15	751	741	3	1,872	0			11,271			
2006	R 276	R 43	632	4	R 716	1,359	3	R 2,763	0			11,660			
2007	266	46	247	3	731	1,609	Ő	2,650	Ö			12,084			
								Trillion Btu							
1960	8.0	28.8	6.1	0.5	2.3	0.9	1.5	11.4	0.0	0.1	0.0	6.2	54.4	15.3	69.7
1965	4.5	39.1	5.5	0.3	3.4	1.0	0.9	11.0	0.0	(s) (s)	0.0	9.5	64.2	22.8	86.9
1970	1.6	57.8	5.2	0.1	4.6	1.4	0.4	11.7	0.0		0.0	12.5	83.6	30.2	113.7
1975	1.8	67.5	4.2	(s)	4.5	1.7	0.7	11.1	0.0	(s) 0.3	0.0	17.5	97.9	42.0	139.9
1980 1985	1.4 4.6	50.7 R 48.2	4.4 6.8	(s)	2.5 1.9	1.8 1.2	0.5	9.3 10.0	0.0 0.0	0.3	0.0 0.0	18.8 21.5	80.4 76.5	45.2 49.6	125.7 126.1
1990	4.7	R 44.3	3.4	(s) 0.2	1.8	0.7	(s) 0.2	6.3	0.0	0.3	0.0	25.7	71.6	59.4	131.0
1995	1.9	R 50.6	2.4	(s)	2.5	0.2	0.0	5.3	0.0	1.0	0.0	30.3	78.7	68.9	147.6
1996	4.8	R 54.9	2.1	(s)	3.4	1.3	(s)	6.9	0.0	1.0	0.1	29.6	86.6	67.3	153.9
1997	7.8	R 50 6	1.9	(s)	3.1	2.3	0.0	7.5	0.0	2.8	0.2	30.5	89.5	69.1	158.6
1998	6.1	R 43 5	2.7	(s)	2.7	2.4 2.3	(s)	8.0	0.0	1.3	0.2	32.0	81.5	72.6	154.1
1999	8.9	R 45 8	2.8	(s)	3.3	2.3	0.0	8.6	0.0	1.0	0.2	33.0	90.7	75.5	166.1
2000	6.1	R 45.8	2.8	(s)	3.4	2.8	(s) (s)	9.2	0.0	1.0	0.2	33.9	90.0	77.1	167.1
2001	5.9	R 46.1 R 46.8	3.2	0.1	2.2	2.8		8.5	0.0	1.1	0.2	36.8	91.7	81.9	173.7
2002 2003	6.7 6.1	R 46.8 R 48.5	2.6 3.9	(s) (s)	2.8 3.0	3.3 3.4	(s) 0.0	9.1 10.6	0.0 0.0	1.2 1.5	0.3 0.3	39.0 39.7	95.8 R 99.5	86.9 87.6	182.7 187.1
2003	3.7	R 46.5	3.9 2.7	(S) (S)	3.0 2.6	5.4 5.3	0.0	10.9	0.0	1.6	0.3	39.7 37.0	93.8	81.8	175.6
2004	5.9	R 45 4	1.8	0.1	2.7	3.9	(s)	8.8	0.0	R 1 9	0.5	38.5	R q4 7	84.1	175.6 R 178.8
2006	6.5	R 44.1	3.7	(s)	2.6	7.1	(s)	13.7	0.0	R 1.8	0.5	39.8	R 99.7	86.0	R 185.8
2007	6.2	47.0	1.4	(s)	2.6	8.4	0.0	12.8	0.0	1.7	0.5	41.2	103.5	89.0	R 185.8 192.4

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Iowa

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	2,193	43	5,536	1,098	5,797	573	3,011	16,016	2			2,676			
1965 1970	2,464 1,955	68 99	5,607 5,884	1,815 2,949	5,373 5,391	354 261	3,471 3,913	16,620 18,398	2			3,719 5,338			
1970	1,333	121	4,670	5,593	3,791	279	3,505	17,838	1			6,626			
1980	1,505	115	4,698	6,557	2,612	273	7,245	21,385	1			9,318	==		
1985	1,572	87	4,971	4,893	1,703	179	4,008	15 754	1			9,520			
1990	2.353	90	4,807	3,087	1,072	94	2,689	11 749	ó			11,392			
1995	2,353 2,761	113	5,636	12,267	1,038	92	2,505	21,538	0			13,771			
1996	3,085	114	6,247	4,986	1,105	93	4,515	16,947	0			14,789			
1997	3,103	107	6,475	4,399	1,092	71	5,267	17,305	0			15,531			
1998	2,832	105	6,572	9,946	900	88	4,917	22,423	0						
1999 2000	2,995 2,902	101 100	5,915 6,027	12,589 13,368	879 784	100 140	5,814 5,185	25,297	0			16,499 17,127			
2000	2,814	93	6,813	12,031	1,201	43	4,381	25,504 24,470	0						
2001	2,860	92	6,209	13,111	1,265	60	4,895	25,540	0			16,548			
2003	2,898	94	4,583	7,863	1,323	150	4,848	18,766	ő			16,803			
2004	2,925	94	4,571	14,128	1,698	282	5,801	26,480	ő			17,437			
2005	2.930	96	4,550	15,814 R 16,355	1,568	191	5,793	27.915	0			17,915			
2006	3,067	101	4,418	R 16,355	1,702	44	5,140	R 27,659	0						
2007	3,002	107	4,683	11,945	1,394	44	4,532	22,598	0			19,125			
							Tr	Ilion Btu							
1960	51.7	44.9	32.2	4.4	30.5	3.6 2.2	19.6	90.3	(s)	2.8 2.9	0.0		198.8	22.6	221.4
1965	57.5	68.9	32.7	7.3	28.2	2.2	22.0	92.4	(s)	2.9	0.0		234.5	30.3	264.8
1970	43.0	99.9	34.3	11.1	28.3	1.6	24.8	100.2	(s)	3.9	0.0		265.1	44.1	309.2
1975 1980	28.4 32.4	122.5 R_114.9	27.2 27.4	20.8 24.1	19.9 13.7	1.8 1.7	21.9 41.8	91.6 108.7	(s)	5.1 37.8	0.0 0.0		270.2 325.5	54.4 76.6	324.6 402.2
1985	35.6	R 88.0	29.0	17.6	8.9	1.7	24.3	80.9	(s)	44.3	0.0		266.6	74.8	341.4
1990	53.1	_R 90.9	28.0	11.2	5.6	0.6	16.6	62.0	(s) 0.0	39.9	0.0	38.9	264.1	89.9	354.0
1995	57.9	R 113.5	32.8	44.4	5.4	0.6	15.7	98.9	0.0	33.1	0.0		326.9	106.7	433.6
1996	65.7	R 114 4	36.4	18.0	5.8	0.6	26.9	87.7	0.0	40.2	0.0		336.2	114.7	451.0
1997	65.0	R 108 1	37.7	15.9	5.7	0.4	31.8	91.6	0.0	32.0	0.0		328.2	120.1	448.3
1998	60.0	^R 106.5	38.3	35.9	4.7	0.6	29.3	108.8	0.0	30.9	0.0	54.9	337.6	124.4	462.0
1999	63.4	R 103.3	34.5	45.5	4.6	0.6	35.1	120.2	0.0	31.3	0.0		359.2	128.8	488.0
2000	60.9	R _{100.6}	35.1	48.2	4.1	0.9	31.1	119.4	0.0	24.9	0.0		350.5	132.9	483.4
2001	59.1	R 92.9	39.7	43.5	6.3	0.3	26.2	115.9	0.0	20.9	0.0		330.4	123.5	453.9
2002 2003	58.5 60.2	R 93.0 R 94.7	36.2	47.4 28.5	6.6	0.4	29.5 29.2	120.0 92.2	0.0	23.8 23.0	0.0		337.5	125.9 126.5	463.4 439.7
2003	60.2 59.2	R 94.7	26.7 26.6	28.5 51.1	6.9 8.9	0.9 1.8	35.2	123.6	0.0 0.0	R 22.8	0.0 0.0		313.2 R 346.9	126.5 131.6	439.7 R 478.5
2004	59.2	R 96.6	26.5	_ 57.2	8.2	1.0	35.4	128.5	0.0	24.1	0.0		_ 356.1	133.7	_ 489.8
2005	60.8	R 102.5	25.7	R 59.0	8.9		31.3	R 125.1	0.0	R 24.1	0.0		R 359.8	135.7	R 495.0
2007	60.7	107.7	27.3	42.9	7.3		27.3	105.0	0.0	26.6	0.0		351.4	140.8	492.2
	30			.2.0		3.0	=: 10		0.0	_5.0	0.0	23.0			

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Iowa

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total e,f
1960 1965	38 8	9 11	366 358	1,711 1,991	195 232	23 55	516 480	23,488 25,224	227 15	26,526 28,354	0	0			
1970	3	18	256	4,339	725	58	480	30,039	26	35,923	0	0			
1975	(s)	16	191	6,851	835	53	501	34,929	0	43,359	0	0			
1980	0	13	184	7,924	813	34	522	32,432	0	41,909	0	0			
1985	0	10	83	8,094	592	90	475	29,525	0	38,858	769	0			
1990	0	9	99	9,352	891	42	534	30,470	(s)	41,389	851	0			
1995 1996	0	11 13	72 71	10,762 12,275	1,046 819	58 98	510 495	33,345 34,561	0	45,793 48,318	1,754 1,115	0			
1990	0	11	71	11,914	_ 793	90	522	34,040	0	R 47,439	1,115	0			
1998	0	9	72	12,198	R 1,186	21	547	35,603	0	R 49,626	1,679	(s)			
1999	0	8	81	12,341	885	4	553	35,681	Ō	49,544	1.821	(s)			
2000	0	8	78	12,049	771	9	544	35,436	0	48,888	2,138	(s)			
2001	0	9	57	12,111	777	82	499	35,020	0	48,546	2,219	(s)			
2002 2003	0	11 10	109	12,327 12,529	782 793	10 48	493 456	36,099 36,273	0	49,820 50,194	2,271 2,423	(s)			
2003	0	10	95 87	14,871	910	40 44	462	36,273 36,738	0	53,110	2,423 2,516	(S)			
2005	0	12	139	15,113	990	62	459	36,906	0	53,668	R 792	(s)			
2006	Ö	R 13	52	15,752	1,033	61	447	37,368	0	54,713	R 707	1			
2007	0	12	45	17,272	899	77	462	37,248	0	56,004	1,221	0			
								Trillion Btu							
1960	0.9	9.2	1.8	10.0	1.0	0.1	3.1	123.4	1.4	140.9	0.0	0.0	151.0	0.0	151.0
1965	0.2	11.2	1.8	11.6	1.3	0.2	2.9	132.5	0.1	150.4	0.0	0.0	161.8	0.0	161.8
1970	0.1	18.5	1.3	25.3	4.1	0.2	2.9	157.8	0.2	191.7	0.0	0.0	210.2	0.0	210.2
1975	(s) 0.0	16.2	1.0	39.9	4.7	0.2	3.0	183.5	0.0	232.3	0.0	0.0	248.5	0.0	248.5
1980 1985	0.0	12.7 10.5	0.9 0.4	46.2 47.1	4.6 3.3	0.1 0.3	3.2 2.9	170.4 155.1	0.0 0.0	225.3 209.2	0.0 2.7	0.0 0.0	238.0 222.4	0.0 0.0	238.0 222.4
1990	0.0	9.2	0.4	54.5	5.0	0.3	3.2	160.1	(s)	223.5	3.0	0.0	235.7	0.0	235.7
1995	0.0	11.1	0.4	62.7	5.9	0.2	3.1	173.9	0.0	246.2	6.2	0.0	257.3	0.0	257.3
1996	0.0	12.7	0.4	71.5	4.6	0.4	3.0	180.3	0.0	260.1	3.9	0.0	272.9	0.0	272.9
1997	0.0	11.4	0.4	69.4	4.5	0.3	3.2	177.4	0.0	255.2	4.8	0.0	266.7	0.0	266.7
1998	0.0	8.9	0.4	71.1	6.7	0.1	3.3	185.6	0.0	267.1	5.9	(s)	276.0	(s)	276.0
1999	0.0	7.9	0.4	71.9	5.0	(s)	3.4	185.9	0.0	266.6	6.4	(s)	274.5	(s)	274.5
2000 2001	0.0	8.3	0.4	70.2 70.5	4.4	(s) 0.3	3.3	184.6	0.0	262.9	7.6	(s)	271.3 270.1	(s)	271.3 270.1
2001	0.0 0.0	9.1 11.1	0.3 0.5	70.5 71.8	4.4 4.4	0.3 (c)	3.0 3.0	182.5 188.0	0.0 0.0	261.0 267.8	7.9 8.0	(s) (s)	270.1	(s) (s)	270.1
2002	0.0	10.0	0.5	73.0	4.5	(s) 0.2	2.8	188.9	0.0	269.8	8.6	(s)	279.8	(S)	279.8
2004	0.0	10.3	0.4	86.6	5.2	0.2	2.8	191.6	0.0	286.8	8.9	(s)	297.1	(s)	297.1
2005	0.0	_ 11.7	0.7	88.0	5.6	0.2	2.8	192.6	0.0	289.9	R 2.8	(s)	301.6	(s)	301.6
2006	0.0	R 12.7	0.3	91.8	5.9	0.2	2.7	195.0	0.0	295.8	R 2.5	(s) 0.0	R 308.5	(s)	R 308.5
2007	0.0	12.6	0.2	100.6	5.1	0.3	2.8	194.4	0.0	303.4	4.3	0.0	316.0	0.0	316.0

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Iowa

				Petro	leum		Norteen		Biomass				Floorista	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	2,118	49 52	39 27	259	0	298	0	879		0	0	0	0	
1965	2,760	52	27	183	0	210	0	926		0	0	0	0	
1970	4,030	78	49	327	0	375	0	934		0	0	0	0	
1975	4,936 10,745	47 7	214 63	507	0	722	2,291	877 945		0	0	0	0	
1980 1985	10,745	2	2	168 101	0	231 103	2,563 1,927	945 988		0	0	0	1,059	
1905	12,491	Z 1	0	123	0	123	3,012	900 875		0	0	0	1,059	
1995	17,402	5	0	154	0	154	3,730	1 003		0	0	•	0	
1996	17,077	3	0	140	0	140	3,924	1,003 935		0	0	(s) (s)	0	
1997	15,482 17,877 17,994 18,322 20,163	4	ŏ	219	ő	219	4,149	805		Ŏ	Õ	(s)	165	
1998	20.163	6	Ö	275	0	275	3,768	913		0	0	(s)	165 67	
1999	20,206	5	Ō	308	0	308 223	3.640	946		0	0	(s) 326	28	
2000	21,317	5	0	223	0	223	4,453	904		0	0	494	(s) 5	
2001	21 305	6	0	218	0	218	3.853	845		0	0	488		
2002	21,504	5	0	136	0	136	4,574	946		0	0	919	0	
2003	21,680 21,873 21,072	4	0	212	0	212	3,988	789		0	0	982 1,050	-1	
2004	21,873	8	0	177	62	239	4,929	946		0	0	1,050	-1	
2005	21,072	21	0	355	0	355	4,538	960		0	0	1,647	-1	
2006 2007	21,236 23,019	20 26	0	270 442	199 256	470 699	5,095 4.519	909 962		0	0	2,318 2,757	(s) (s)	
2007	23,019	20	U	442	230	099	,			0		2,131	(5)	
							Trillion E	3tu						
1960	44.0	50.3	0.2	1.5	0.0	1.8	0.0	9.5	0.3	0.0	0.0	0.0	0.0	105.8
1965	58.6 84.2	52.8	0.2	1.1	0.0	1.2	0.0	9.7	0.3	0.0	0.0	0.0	0.0	122.6
1970	84.2	78.6	0.3	1.9	0.0	2.2	0.0	9.8	0.4	0.0	0.0	0.0	0.0	175.2
1975	100.6	47.3	1.3	3.0	0.0	4.3	25.2 28.0	9.1	0.4	0.0	0.0	0.0	0.0	187.0
1980	200.2 227.3	6.9 R 2.1	0.4	1.0	0.0	1.4	28.0	9.8	0.3	0.0	0.0	0.0	0.0	246.6
1985 1990	227.3 276.0	R 4.2	(s) 0.0	0.6 0.7	0.0 0.0	0.6 0.7	31.9	10.3 9.1	0.6 0.2	0.0 0.0	0.0 0.0	0.0 0.0	3.6 0.0	264.7 321.1
1995	312.2	R 4.7	0.0	0.7	0.0	0.7	39.2		0.2	0.0	0.0		0.0	321.1 367.0
1995	312.5	R 3 /	0.0	0.9	0.0	0.9	39.2 41.2	10.3 9.7	0.7	0.0	0.0	(s) (s)	0.0	367.0 367.7
1997	317.9	R 3.4 R 4.2 R 6.0 R 5.3	0.0	1.3	0.0	1.3	43.5	8.2	0.7	0.0	0.0	(s)	0.6	375.6
1998	358.1	R 6.0	0.0	1.3 1.6	0.0	1.6	39.5	9.3	0.7	0.0	0.0		0.2	414.2
1999	358.5	R 5.3	0.0	1.8	0.0	1.8	38.0	9.7	0.9	0.0	0.0	(s) 3.3	0.1	416.8
2000	378.2	R 4.8	0.0	1.3	0.0	1.3	46.4	9.2	0.8	0.0	0.0	5.0	(s)	445.2
2001	378 2	R 5.8	0.0	1.3	0.0	1.3	40.3	8.7	1.0	0.0	0.0	5.0	(s)	439.5
2002	375.4	R 4.8 R 5.8 R 5.3 R 4.3	0.0	1.3 0.8	0.0	0.8	47.7	9.6	1.0	0.0	0.0	9.3	0.0	448.4
2003	377.4	K 4.3	0.0	1.2	0.0	1.2	41.6	8.1	1.0	0.0	0.0	10.1	(s)	443.0
2004	379.9 364.2	K 8.3	0.0	1.0	0.4	1.4	51.4	9.5	1.0	0.0	0.0	10.5	(s)	460.8
2005	364.2	R 21.4	0.0	2.1	0.0	2.1	47.4	9.6	1.0	0.0	0.0	16.5	(s)	459.1
2006	367.3	R 19.7	0.0	1.6	1.2 1.5	2.8	53.2	9.0	1.1	0.0	0.0	23.0	(s)	473.1
2007	396.8	26.2	0.0	2.6	1.5	4.1	47.4	9.5	1.5	0.0	0.0	27.2	(s)	509.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Kansas

						Petroleum				Nivelees	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Mand	Geo- thermal,	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millio	n kWh	Wood and Waste ^{f,g}	Solar/PV, and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	675	361	4,739	952	5,590	23,712	2,403	9,602	46,998	0	20					
1965	644	443	5,257	1,053	6,521	25,525	1,066	12,322	51,744	0	13					
1970 1975	458 3.117	576 499	7,550 11,273	1,561 1,310	8,009 8,857	28,849 32,004	1,127 6,365	10,093 11,780	57,189 71,589	0	5					
1980	10,370	488	14.764	2.466	8,404	29,584	1,498	13,173	69,890	0	8					
1985	14,715	355	14,902	4,424	24,510	28,209	86	8,520	80,652	3,856	9					
1990	15,175	353	16,697	3,701	15,565	28,626	229	12,882	77,701	7,874	13					
1995 1996	16,521 19,084	367 362	18,223 16,570	2,414 2,009	4,924 10,442	29,402 30,927	31 289	10,945 12,694	65,938 72,932	10,062 8,205	11 11					
1997	17,673	338	16,375	R 2,131	14,557	30,695	257	11,551	R 75,566	8,430	14					
1998	17,736	327	15,930	R 2,159	14,121	32,001	269	11,353	R 75,833	10,411	11					
1999	19,003	303	15,660	3,476	21,741	33,550	570	11,615	86,611	9,157	12					
2000	20,845	312	14,849	3,234	17,401	31,894	937	11,006	79,323	9,061	15					
2001 2002	20,316 22.838	273 305	15,550 16,359	2,259 2,135	11,122 10,659	30,297 28,571	1,301 991	13,160 12,415	73,689 71,131	10,347 9.042	26 13					
2002	22,738	281	16,600	3,228	16,944	32,721	2,160	12,413	83,780	8,890	12					
2004	22,341	257	17,155	3,104	14,808	31,815	2,184	12,739	81,806	10,133	13					
2005	22,251	255	18,147	1,758	2,768	28,162	2,055	11,876	64,766	8,821	11					
2006 2007	21,110 23,020	R 264 286	18,969 19,391	1,752 1,543	1,875 17,592	31,603 31,979	619 464	11,885 11,659	66,704 82,628	9,350 10,369	10 11					
	-,			,	,	- ,		Trillion Btu	- 7,							
1960	15.7	373.7	27.6	5.1	22.4	124.6	15.1	58.7	253.4	0.0	0.2	3.9 3.4	0.0	-14.6	0.0	632.3
1965	15.3	440.8	30.6	5.7	26.2	134.1	6.7	74.8	278.0	0.0	0.1		0.0	-12.8	0.0	724.8
1970	10.7	574.5	44.0 65.7	8.6	30.3	151.5	7.1	61.3	302.8	0.0	0.1	3.7	0.0	-17.6	0.0	874.2
1975 1980	62.3 191.6	490.7 482.0	65.7 86.0	7.2 13.8	32.9 30.9	168.1 155.4	40.0 9.4	71.7 80.2	385.6 375.7	0.0 0.0	(s) 0.1	5.8 9.0	0.0 0.0	-17.6 -32.6	0.0 0.0	926.8 1,025.8
1985	259.5	354.8	86.8	24.8	88.3	148.2	0.5	52.0	400.7	41.0	0.1	11.5	(s)	-49.2	1.9	1,020.1
1990	271.7	352.6	97.3	20.7	56.4	150.4	1.4	78.9	405.1	83.3	0.1	11.8	(s) 0.1	-72.6	0.6	1,052.8
1995	289.7	367.7	106.2	13.7	17.8	153.3	0.2	67.7	358.9	105.7	0.1	10.3	0.2	-81.0	0.0	1,051.7
1996 1997	338.3 310.9	360.9 338.6	96.5 95.4	11.4 12.1	37.7 52.6	161.3 160.0	1.8	76.7 68.8	385.5 390.5	86.2 88.5	0.1 0.1	10.5 8.4	0.2 0.2	-94.0 -63.5	0.0	1,087.7 R 1.073.8
1997	310.9	338.6 325.0	95.4 92.8	12.1	52.6 51.0	166.8	1.6 1.7	68.2	390.5 392.7	109.2	0.1	8.4 7.7	0.2	-03.5 -74.2	(s) (s)	1,070.3
1999	329.3	302.0	91.2	19.7	78.6	174.8	3.6	69.3	437.3	95.7	0.1	8.0	0.3	-83.0	(s)	1,089.6
2000	362.8	314.9	86.5	18.3	62.8	166.2	5.9	65.9	405.5	94.5	0.2	7.7	0.3	-91.4	0.0	1,094.5
2001	354.6	273.9	90.6	12.8	40.2	157.8	8.2	80.1	389.7	108.1	0.3	8.0	0.7	-95.4	0.0	1,039.9
2002 2003	391.7 389.5	304.4 292.6	95.3 96.7	12.1 18.3	38.5 61.5	148.8 170.4	6.2 13.6	75.5 73.3	376.4 433.7	94.4 92.6	0.1 0.1	8.1 8.3	5.1 4.2	-109.3 -105.2	0.0	1,070.9 1,115.8
2003	385.5	292.6 267.1	99.9	17.6	53.6	165.9	13.7	73.3 77.1	433.7 427.9	105.7	0.1	o.s 8.4	4.2	-103.2	(s)	1,115.0
2005	379.8	258.7	105.7	10.0	10.0	147.0	12.9	71.1	356.7	92.0	0.1	R 9.5	4.8	-72.7	(s)	R 1 029 0
2006	364.2	R 269.5	110.5	9.9	6.8	164.9	3.9	71.4	367.3	97.6	0.1	R 9.0	10.4	-60.6	0.0	R 1,057.5
2007	396.3	291.6	113.0	8.7	63.2	166.9	2.9	69.8	424.5	108.8	0.1	9.8	12.1	-107.0	(s)	1,136.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kansas

				Petro	leum		Biomass			5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	37	73	53	303	3,447	3,804	157			2,360			
1965	10	73 87	53 50	1,285	3.991	5,327	102			3,251			
1970	6	97	53 96	116	4,825 4,563	4,994	80			5,348			
1975	0	98	96	60	4,563	4,719	93			5,695			
1980 1985	1	85 78	150 68	5 27	2,083 1,469	2,237	439 560			7,189			
1985 1990	(s)	78 71	28	27 11	1,469 1.182	1,564 1,222	560 317			8,195 9,515			
1990	(s) 5	71 76	20 14	13	1,162	1,496	278			10,356			
1996	9	85	17	19	1,971	2,008	289			10,672			
1997	(s)	69	35	12	2.382	2,429	225			10,862			
1998	(s)	70	11	18	2,538	2,567	200			11,832			
1999	`1	68	14	346	3.342	3.702	211			11,347			
2000	. 1	71	17	20	2,598	2,635	227			12,528			
2001	(s)	70	44	14	1,871	1,929	218			12,062			
2002	(s)	71	36	10	2,250	2,295	221			12,745			
2003 2004	(s) 0	70 65	18 13	11 10	2,406 2,230	2,435 2,253	232 _ 238			12,602 12,417			
2004	0	65	4	10	_ 2,157	2,233	R 281			13,406			
2006		65 57	3	5	R 1,503	2,170 R 1,511	R 256			13,503			
2007	(s) 0	63	2	2	2,026	2,031	282			13,806			
						Т	rillion Btu						
1960	0.8	76.1	0.3	1.7	13.8	15.9	3.1	0.0	0.0	8.1	103.9	19.9	123.8
1965	0.2	86.4	0.3	7.3 0.7	16.0	23.6	2.0	0.0	0.0	11.1	123.3	26.5	149.8
1970	0.1	97.1	0.3		18.2	19.2	1.6	0.0	0.0	18.2	136.3	44.2	180.5
1975 1980	0.0	96.6	0.6 0.9	0.3	17.0 7.7	17.9 8.6	1.9 8.8	0.0 0.0	0.0 0.0	19.4 24.5	135.7 126.7	46.7 59.1	182.4 185.8
1985	(s) (s)	84.8 78.3	0.9	(s) 0.2	5.3	5.8	0.0 11.2	0.0	0.0	28.0	123.4	64.4	187.7
1990	(s)	71.3	0.4	0.2	4.3	4.5	6.3	(s)	(s)	32.5	114.6	75.1	189.7
1995	0.1	76.1	0.1	0.1	5.3	5.5	5.6	(s)	(s)	35.3	122.6	80.2	202.9
1996	0.2	76.1 85.1	0.1	0.1	7.1	5.5 7.3	5.6 5.8	(s)	(s)	36.4	134.9	82.8	217.7
1997	(s)	69.6	0.2	0.1	8.6	8.9	4.5	(s)	(s)	37.1	120.1	84.0	204.1
1998	(s)	69.8	0.1	0.1	9.2	9.3	4.0	(s)	(s)	40.4	123.6	91.6	215.1
1999	(s)	67.8	0.1	2.0	12.1	14.1	4.2	(s)	(s)	38.7	125.0	88.6	213.5
2000	(s)	71.1	0.1	0.1	9.4	9.6	4.5	(s)	(s)	42.7	128.1	97.2	225.3
2001	(s)	70.5	0.3	0.1	6.8	7.1	4.4	(s)	(s)	41.2	123.2	91.7	214.9
2002	(s)	70.7	0.2	0.1	8.1 8.7	8.4	4.4	(s) 0.1	(s)	43.5	127.1	96.9	224.0 224.8
2003 2004	(s) 0.0	73.3 67.7	0.1 0.1	0.1 0.1	8. <i>1</i> 8.1	8.9 8.2	4.6 4.8	0.1	(s) (s)	43.0 42.4	129.9 _ 123.2	94.9 93.7	224.8 216.0
2004	0.0	65.9	(s)	0.1	7.8	7.9	R 5.6	0.1	(S)	45.7	R 125 2	100.0	216.9 R 225.2
2006	(s) 0.0	58.2	(s)	(s)	R 5.4	R 5.5	R 5.1	0.1	(s)	46.1	R 115.0	99.6	R 214.6 226.0
2007	0.0	58.2 64.2	(s)	(s) (s)	7.3	7.3	5.6	0.1	(s)	47.1	124.4	101.6	226.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kansas

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	25	41	115	87	608	179	47	1,036	0			1,727			
1965	7	38	109	367	704	204	19	1,403	ő			2,597			
1970	4	53	115	33	851	215	34	1,249	0			3,967			
1975	0	52	209	17	805	268	36	1,335	0			5,614			
1980	4	59	360	10	368	279	0	1,016	0			6,806			
1985 1990	1 (2)	57 56	725 329	10 6	259 209	177 162	0 27	1,172	0			8,174 9,547			
1990	(s)	50 53	562	6	209 259	74	12	732 913	0			10,645			
1996	33 69	53 57	554	5	348	99	2	1,008	0			11,388			
1997	2	41	473	28	420	90	0	1,011	ŏ			12,043			
1998	(s) 6	42 39	441	9	448	94	79	1,071	Ō			12,546			
1999		39	474	4	590	61	0	1,129	0			12,258			
2000	10	40	571	5	458	85	3	1,123	0			13,171			
2001	(s)	38	807	7	330	78	7	1,229	0			13,215			
2002 2003	(s)	39 38	636 636	5 5	397 425	43 108	9	1,090 1,173	0			13,773			
2003	(s)	38 37	576	5 8	425 393	82	0 0	1,173	0			13,751 13,831			
2004	0	30	244	14	381	74	0	713	0			14,453			
2006	(s)	28	290	9	R 265	131	ő	R 695	0			14,786			
2007	0	31	267	4	358	74	Ö	702	Ō			15,474			
								Trillion Btu							
1960	0.6	42.6	0.7	0.5	2.4	0.9	0.3	4.8	0.0	0.1	0.0	5.9	54.0	14.6	68.5
1965	0.2	38.3	0.6	2.1	2.8	1.1	0.1	6.7	0.0	(s) (s)	0.0	8.9	54.1	21.2	75.2
1970	0.1	52.5	0.7	0.2	3.2	1.1	0.2	5.4	0.0	(s)	0.0	13.5	71.6	32.8	104.4
1975 1980	0.0 0.1	50.8 58.5	1.2 2.1	0.1 0.1	3.0 1.4	1.4 1.5	0.2 0.0	5.9 5.0	0.0 0.0	(s) 0.2	0.0 0.0	19.2 23.2	75.9 87.0	46.1 56.0	122.0 143.0
1985	(s)	56.5	4.2	0.1	0.9	0.9	0.0	6.1	0.0	0.2	0.0	27.9	90.9	64.2	155.1
1990	(s)	56.0	1.9	(s)	0.8	0.9	0.2	3.7	0.0	0.7	(s)	32.6	93.0	75.3	168.3
1995	(s) 0.8	53.3	3.3	(s)	0.9	0.4	0.1	4.7	0.0	0.8	(s) 0.1	36.3	96.0	82.5	178.5
1996	1.7	57.0	3.2	(s) 0.2	1.3	0.5	(s)	5.0	0.0	0.8	0.1	38.9	103.5	88.4	191.9
1997	(s)	41.6	2.8		1.5	0.5	0.0	4.9	0.0	0.8	0.2	41.1	88.5	93.1	181.6
1998	(s) 0.1	41.5	2.6	(s)	1.6	0.5	0.5	5.2	0.0	0.7	0.2	42.8	90.4	97.1	187.5
1999	0.1	38.8	2.8	(s)	2.1	0.3	0.0	5.2	0.0	0.7	0.2	41.8	86.9	95.7	182.5
2000 2001	0.2 (s)	40.6 37.7	3.3 4.7	(s)	1.7 1.2	0.4 0.4	(s) (s)	5.5 6.4	0.0 0.0	0.7 0.8	0.2 0.2	44.9 45.1	92.2 90.2	102.2 100.5	194.4 190.7
2001	(S)	37.7	3.7	(s) (s)	1.4	0.4	(S) 0.1	5.4	0.0	0.8	0.2	45.1 47.0	90.2	100.5	197.0
2002	(s) (s)	39.4	3.7	(S)	1.4	0.2	0.0	5.4 5.8	0.0	0.8	0.3	46.9	93.3	103.5	196.8
2003	0.0	38.3	3.4	(s)	1.4	0.4	0.0	5.3	0.0		0.4	47.2	92.0	104.4	196.4
2005	0.0	30.0	1.4	0.1	1.4	0.4	0.0	3.3	0.0	0.8 R 0.9	0.5	49.3	R 84 0	107.9	196.4 R 191.9
2006	(s) 0.0	28.1	1.7		R 1.0	0.7	0.0	3.3 R 3.4	0.0	R 0.8	0.5	50.5	R 83.2	109.1	^R 192.3
2007	Ó.Ó	31.1	1.6	(s) (s)	1.3	0.4	0.0	3.2	0.0	0.9	0.5	52.8	88.6	113.9	202.5

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kansas

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	175	121	1,405	1,321	4,557	1,924	8,535	17,742	0			2,932			
1965	148	155	1,553	1,530	3,535	755	9,711	17,084	0			3,902			
1970 1975	103 134	184	2,515 3,532	1,985 3,125	2,777	701	9,170	17,149 22,244	0			4,548 6,214			
1975	331	152 191	3,532 3,476	5,125 5,844	2,406 1,198	2,178 1,004	11,003 12,334	22,244	0			7,845			
1985	363	161	4,058	22,687	1,196	1,004	7,797	35,671	0			7,045			
1990	157	158	4,545	14,032	765	181	12,111	31,634	0			8,087			
1995	138	175	4,818	3,140	995	18	10,191	19,162	ŏ			9,356			
1996	154	158	4,825	8,100	1,021	133	11,922	26,000	0			9,231			
1997	137	162	5,268	11,657	1,055	168	10,660	28,807	0			9,365			
1998	109	145	4,850	11,109	1,156	184	10,495	27,793	0			9,762			
1999	108	128	4,824	17,786	725	223	10,386	33,945	0			10,215			
2000 2001	134 165	139 116	4,478 4,902	14,315 8,865	716 969	401 317	10,137 12,366	30,047 27,420	0			10,222 10,569			
2001	178	138	4,902	7.962	1,017	172	11,703	25,325	0			10,569			
2002	158	125	4,801	14,066	1,094	624	11,703	32,067	0			10,193			
2004	203	116	5,402	12,142	1,289	667	12,071	31,570	0						
2005	205	118 R 132	4,936	153 R 66	1,195	333	11,108	17,725 R 18,595	0			11.165			
2006	237	R 132	5,498	R 66	1,275	619	11,137	R 18,595	0						
2007	240	142	4,901	15,167	1,020	464	10,578	32,130	0			10,885			
							Tr	Ilion Btu							
1960	4.0	125.7	8.2	5.3		12.1	52.5	102.0	0.0	0.7	0.0		242.3	24.7	267.1
1965	3.3	154.3	9.0	6.1	18.6	4.7	60.1	98.6	0.0	1.3	0.0		270.8	31.8	302.6
1970	2.2	184.1	14.7	7.5	14.6	4.4	56.1	97.3	0.0	2.0	0.0		301.1	37.6	338.7
1975	2.7	148.8	20.6	11.6	12.6	13.7	67.2	125.7	0.0	3.9	0.0		302.3	51.0	353.3
1980 1985	7.1 7.8	189.7 161.3	20.2 23.6	21.5 81.7	6.3 5.6	6.3 0.4	75.3 47.8	129.7 159.1	0.0	0.0	0.0		353.3 352.8	64.5 56.3	417.8 409.1
1985	3.8	157.7	26.5	50.9	4.0	1.1	74.4	156.8	0.0	4.7	0.0		352.6	63.8	414.5
1995	3.3	176.0	28.1	11.4	5.2	0.1	63.3	108.0	0.0	4.0	0.0		323.3	72.5	395.8
1996	3.9	157.9	28.1	29.3	5.3	0.8	72.2	135.7	0.0	3.9	0.0	31.5	332.9	71.6	404.6
1997	3.4	162.8	30.7	42.2	5.5		63.7	143.1	0.0	3.2	0.0		344.3	72.4	416.7
1998	2.7	144.0	28.2	40.1	6.0	1.2	63.2	138.8	0.0	3.0	0.0	33.3	321.8	75.5	397.3
1999	2.7	127.6	28.1	64.3	3.8	1.4	62.2	159.8	0.0	3.1	0.0		328.0	79.7	407.7
2000	3.2	139.7	26.1	51.6	3.7	2.5	60.8	144.8	0.0	2.5	0.0		325.1	79.3	404.4
2001	3.9	116.4	28.6	32.0	5.1	2.0	75.5	143.2	0.0	2.9	0.0		302.3	80.4	382.7
2002	4.3	137.5	26.0	28.8	5.3 5.7		71.3	132.5	0.0	2.9 2.8	0.0		312.0	77.5	389.5 409.0
2003 2004	3.8 5.0	130.6 120.7	28.0 31.5	51.0 43.9	5.7 6.7	3.9 4.2	69.5 73.2	158.1 159.5	0.0 0.0	2.8	0.0 0.0		330.8 325.2	78.2 82.1	409.0 407.3
2004	5.0	119.4	28.8	_ 0.6	6.2	2.1	66.7	_ 104.3	0.0	2.0	0.0		260.8	83.3	_ 353.1
2005	5.7	R 134.8	32.0	R 0.2	6.7	3.9	67.0	R 104.3	0.0	3.0 R 3.0	0.0	39.1	R 292.5	84.6	R 377.1
2007	5.8	145.0	28.5	54.5	5.3	2.9	63.5	154.7	0.0	3.3	0.0		345.9	80.1	426.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kansas

						Pe	troleum					B 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	3	43	170	3,056	952	215	507	18,976	190	24,065	0	0			
1965	(s)	50	493	3,473	1,053	295	467	21,786	137	27,704	0	0			
1970 1975	(s) (s)	73 69	326 177	4,691 5,898	1,561 1,310	348 364	448 520	25,857 29,331	8 17	33,238 37,615	0	0			
1980	(3)	52	221	10,397	2,466	110	603	28,107		41,906	0	0			
1985	0	38	137	9,856	4,424	95	549	26,968	2 0	42,031	506	0			
1990	0	41	136	11,665	3,701	142	618	27,700	0	43,962	169	0			
1995	0	35	146	12,678	2,414	56	589	28,333	0	44,217	106	0			
1996 1997	0	38 39	177 247	10,998 10,435	2,009 R 2,121	23 97	572 604	29,807 29,551	0	43,586 R 43,066	65 65	0			
1998	0	33	199	10,333	R 2,131 R 2,159	26	633	30,751	3	R 44,104	80	0			
1999	Ŏ	32	240	10,054	3.476	23	639	32,764	8	47,203	137	Ŏ			
2000	0	29	215	9,513	3,234	30	630	31,094	0	44,715	60	0			
2001	0	26	196	9,603	2,259	56	577	29,249	1	41,942	56	0			
2002	0	36 33	127 102	11,097 10,998	2,135 3,228	50 47	570 527	27,511	7 8	41,498	678 962	0			
2003 2004	0	33 29	115	11,059	3,228 3.104	47	527 534	31,519 30,445	8 8	46,430 45,308	962 96	0			
2005	0	29	214	12,827	1,758	77	531	26,893	0	42,300	R 714	0			
2006	Ő	25	218	13,056	1,752	40	517	30,198	Ö	45,782	R 719	0			
2007	0	25	165	14,127	1,543	41	534	30,885	0	47,295	1,398	0			
								Trillion Btu							
1960	0.1	44.3	0.9	17.8	5.1	0.9	3.1	99.7	1.2	128.6	0.0	0.0	172.9	0.0	172.9
1965 1970	(s)	49.5	2.5	20.2	5.7	1.2 1.3	2.8	114.4	0.9	147.7	0.0	0.0	197.2	0.0	197.2
1970	(s)	73.2 68.0	1.6 0.9	27.3 34.4	8.6 7.2	1.3	2.7 3.2	135.8 154.1	0.1 0.1	177.5 201.1	0.0 0.0	0.0 0.0	250.7 269.1	0.0 0.0	250.7 269.1
1980	(s) 0.0	52.0	1.1	60.6	13.8	0.4	3.7	147.6	(s)	227.2	0.0	0.0	279.2	0.0	279.2
1985	0.0	38.1	0.7	57.4	24.8	0.3	3.3	141.7	0.0	228.3	1.8	0.0	268.2	0.0	268.2
1990	0.0	40.6	0.7	67.9	20.7	0.5	3.7	145.5	0.0	239.1	0.6	0.0	280.3	0.0	280.3
1995	0.0	34.7	0.7	73.9 64.1	13.7	0.2	3.6	147.8	0.0	239.8	0.4	0.0	274.5	0.0	274.5
1996	0.0	38.1	0.9	64.1	11.4	0.1	3.5	155.5	0.0	235.4	0.2	0.0	273.5	0.0	273.5
1997 1998	0.0 0.0	39.2 32.7	1.2 1.0	60.8 60.2	12.1 12.2	0.4 0.1	3.7 3.8	154.0 160.3	0.0	232.2 R 237.7	0.2 0.3	0.0 0.0	271.4 R 270.4	0.0 0.0	271.4 R 270.4
1998	0.0	32.7	1.0	58.6	19.7	0.1	3.8	170.7	(s) (s)	254.2	0.3	0.0	285.8	0.0	285.8
2000	0.0	29.6	1.1	55.4	18.3	0.1	3.8	162.0	0.0	240.8	0.3	0.0	270.3	0.0	270.3
2001	0.0	25.7	1.0	55.9	12.8	0.2	3.5	152.4	(s)	225.8	0.2	0.0	251.6	0.0	251.6
2002	0.0	36.1	0.6	64.6	12.1	0.2	3.5	143.3	(s)	224.4	2.4	0.0	260.4	0.0	260.4
2003	0.0	34.8	0.5	64.1	18.3	0.2	3.2	164.1	(s)	250.4	3.4	0.0	285.2	0.0	285.2
2004	0.0	29.8	0.6	64.4	17.6	0.2	3.2	158.8	(s)	244.8	0.3	0.0	274.6	0.0	274.6
2005	0.0	29.2 R 25.6	1.1	74.7 76.0	10.0	0.3	3.2	140.3 157.6	0.0	229.6	R 2.5	0.0	258.8 R 273.5	0.0	258.8 R 273.5
2000	0.0	25.0	0.8	70.0 82.3	9.9 8.7		3.1 3.2	161.0	0.0	241.9 256.4	·· ∠.ɔ 4 9		281.7	0.0	281.7
2006 2007	0.0 0.0 0.0	R 25.6 25.2	1.1 1.2 0.8	76.0 82.3	9.9 8.7	0.5 0.1 0.1	3.1 3.2	157.6 161.2	0.0 0.0 0.0	247.9 256.4	R 2.5 4.9	0.0 0.0 0.0	258.8 R 273.5 281.7	0.0 0.0 0.0	

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Kansas

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Waad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	435 478	82	241	110	0	351	0	20		0	0	0	0	
1965	478	113	156	71	0	226	0	13		0	0	0	0	
1970	344	168	385	175	0	560	0	7		0	0	0	0	
1975	2,983	128	4,134	1,539	4	5,676	0	5 8		0	0	0	0	
1980 1985	10,034 14,351	101 21	492 20	382 195	0	875 215	3,856	9		0	0	(s)	0	
1990	15,018	27	20 22	130	0	152	7,874	13		0	0	(S)	0	
1995	16,345	28	1	150	0	151	10,062	11		0	0	(s)	0	
1996	18,852	23	155	176	Ö	331	8,205	11		Ö	Õ	0	Ö	
1997	17,534	28 23 26	89	163	0	252	8,430	14		0	0	0	(s)	
1998	17,627	37	4	294	0	298	10,411	11		0	0	0	4	
1999	18,888	36	339	293	0	632	9,157	12		0	0	0	-7	
2000	20,699	34	533	269	0	803	9,061	15		0	0	0	0	
2001 2002	20,150 22,660	23 21	976 802	193 121	0	1,169 923	10,347 9.042	26 13		0	0	40 467	0	
2002	22,580	14	1,528	147	0	1,675	9,042 8,890	12		0	0	366	0	
2003	22,139	10	1,510	105	0	1,615	10,133	13		0	0	359	(s)	
2005	22,046	14	1.722	135	ŏ	1,857	8,821	11		0	Ŏ	426	(s)	
2006	20,874	22	0	122	0	122	9.350	10		0	Ō	992	Ó	
2007	22,780	26	0	94	376	470	10,369	11		0	0	1,153	(s)	
							Trillion E	3tu						
1960	10.3	85.1	1.5	0.6	0.0	2.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	97.8
1965	11.6	112.4	1.0	0.4	0.0	1.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	125.5
1970 1975	8.3	167.5	2.4	1.0	0.0	3.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	179.4
1975	59.5	126.7	26.0	9.0	(s) 0.0	35.0	0.0	(s) 0.1	0.0 0.0	0.0	0.0	0.0	0.0	221.2
1980 1985	184.3 251.7	97.0 20.5	3.1 0.1	2.2 1.1	0.0	5.3 1.3	0.0 41.0	0.1	0.0	0.0 0.0	0.0 0.0	0.0 (s)	0.0 0.0	286.7 314.5
1990	267.9	27.1	0.1	0.8	0.0	0.9	83.3	0.1	0.0	0.0	0.0	(s)	0.0	379.4
1995	285.5	27.6	(s)	0.9	0.0	0.9	105.7	0.1	0.0	0.0	0.0	(s)	0.0	419.8
1996	332.5	22.7	(s) 1.0	1.0	0.0	2.0	86.2	0.1	0.0	0.0	0.0	0.0	0.0	443.5
1997	307.5	25.5	0.6	1.0	0.0	1.5	88.5	0.1	0.0	0.0	0.0	0.0	(s)	423.1
1998	306.7	37.1	(s) 2.1	1.7	0.0	1.7	109.2	0.1	0.0	0.0	0.0	0.0	(s)	454.8
1999	326.5	36.3	2.1	1.7	0.0	3.8	95.7	0.1	0.0	0.0	0.0	0.0	(s)	462.4
2000	359.3	33.9	3.4	1.6	0.0	4.9	94.5	0.2	0.0	0.0	0.0	0.0	0.0	492.8
2001	350.8	23.5	6.1	1.1	0.0	7.3	108.1	0.3	0.0	0.0	0.0	0.4	0.0	490.3
2002 2003	387.4 385.6	21.4 14.5	5.0	0.7 0.9	0.0 0.0	5.7 10.5	94.4 92.6	0.1 0.1	0.0 0.0	0.0 0.0	0.0	4.7 3.7	0.0 0.0	513.8 507.1
2003	385.6 380.5	14.5 10.5	9.6 9.5	0.9	0.0	10.5 10.1	92.6 105.7	0.1 0.1	0.0	0.0	0.0 0.0	3.7 3.6	0.0 (s)	507.1 510.5
2004	374.8	14.2	10.8	0.8	0.0	11.6	92.0	0.1	0.0	0.0	0.0	4.3	(S)	497.1
2005	358.5	22.8	0.0	0.8	0.0	0.7	97.6	0.1	0.0	0.0	0.0	9.8	0.0	489.5
2007	390.6	26.1	0.0	0.5	2.3	2.8	108.8	0.1	0.0	0.0	0.0	11.4	(s)	539.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Kentucky

						Petroleum				Martan	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	12,010	149	4,850	497	4,152	21,535	337	6,457	37,827	0	2,633					
1965 1970	17,585 23,558	172 248	5,567 8,211	1,284 3,089	5,869 9,564	25,780 33,581	600 1,063	10,228 14,392	49,327 69,900	0	2,464 3,174					
1975	25,556	208	10,924	2,150	10,977	40,816	2,169	14,435	81,471	0	3,463					
1980	27,728	202	22,906	2,897	10,223	39,829	1,012	19,666	96,533	0	2,940					
1985 1990	31,066 34,449	173 184	22,088 24,226	3,434 5,713	5,539 6,154	39,924 43,040	622 537	11,767 13,559	83,374 93,228	0	2,941 3,160					
1995	39,516	224	27,325	6,305	5,607	48,104 48,104	201	22,676	110,217	0	3,423					
1996	40,862	236	27,693	5,590 R 4,558	7,207	43,543	243	32,103	116 379	0	3,497					
1997 1998	41,889 41,153	228 205	28,052 28,104	^R 4,558 R 5,351	8,757 7,517	50,174 50,222	165	33,957 36,182	R 125,663 R 127,432	0	3,380 3,116					
1996	41,153	205	27,466	6,962	9,278	50,222	55 77	38,068	132,803	0	2,557					
2000	42,585	225	29,641	6,651	9,959	48.912	90	35,515	130.767	ő	2,325					
2001	43,907	209	30,721	6,001	9,928	51,268	143	24,775	122,836	0	3,856					
2002 2003	40,920 40,827	228 223	33,820 25,934	6,353 8.046	10,917 8,830	50,827 52,702	94 123	31,054 30,050	133,065 125,685	0	4,025 3,948					
2003	41,874	225	30,286	9,042	9,621	55,268	64	34,871	139,153	0	3,780					
2005	42,881	234	31,426	8,284	9,977	53,899	140	34,479	138,204	0	2,961					
2006 2007	44,435 43.659	211 230	32,777 33.482	7,105 7,979	9,754 9,841	53,898 54,131	118 103	35,094 31,726	138,745 137,262	0	2,592 1.669					
	40,000	200	00,402	1,010	0,041		100	,	101,202		1,000					
								Trillion Btu								
1960 1965	286.7 415.5	153.8 176.7	28.2 32.4	2.7 7.2	16.7 23.5	113.1 135.4	2.1 3.8	38.4 59.7	201.3 262.1	0.0 0.0	28.3 25.8	22.4 21.7	0.0 0.0	131.5 4.2	0.0 0.0	824.1 905.9
1970	527.1	252.3	47.8	17.4	36.1	176.4	6.7	84.9	369.3	0.0	33.3	23.7	0.0	-89.1	0.0	1,116.5
1975	558.3	209.2	63.6	12.1	40.8	214.4	13.6	85.4	429.9	0.0	36.0	30.8	0.0	29.5	0.0	1,293.8
1980 1985	641.7 716.9	204.1 177.7	133.4 128.7	16.3 19.3	37.6 20.0	209.2 209.7	6.4 3.9	113.4 70.1	516.3 451.7	0.0 0.0	30.5 30.7	25.3 38.8	0.0 0.0	-13.3 -80.2	(s) 3.7	1,404.6 1,339.3
1990	803.5	191.7	141.1	32.3	22.3	226.1	3.4	81.9	507.1	0.0	32.9	17.4	0.0	-56.6	3.0	1,499.1
1995	929.4	245.6	159.2	35.7	20.3	250.9	1.3	130.6	597.9	0.0	35.3	15.5	0.4	-37.8	(s)	1,786.3
1996 1997	952.1 977.8	R 248.1 239.3	161.3 163.4	31.7 25.8	26.0 31.7	227.1 261.6	1.5	181.0 192.2	628.7 675.7	0.0 0.0	36.2 34.5	18.5 13.0	0.5 0.5	-35.0 -68.9	(s) (s) (s)	1,848.9 R 1,871.9
1997	977.6 959.0	239.3 212.1	163.4	30.3	27.2	261.8	1.0 0.3	205.6	688.9	0.0	34.5 31.8	11.1	0.5	-80.2	(S) (S)	1,823.3
1999	987.6	225.4	160.0	39.5	33.5	265.5	0.5	216.7	715.7	0.0	26.1	11.6	0.6	-61.0	(s)	1,906.0
2000	997.6	234.2	172.7	37.7	35.9	254.8	0.6	201.3	703.0	0.0	23.7	11.9	0.6	-87.8	(s) (s)	1,883.2
2001 2002	1,013.1 950.9	216.7 235.0	179.0 197.0	34.0 36.0	35.9 39.4	267.1 264.7	0.9 0.6	146.3 184.1	663.1 721.9	0.0 0.0	39.8 40.9	12.7 21.2	0.7 0.7	-108.8 -26.0	(S) (S)	1,837.2 1,944.6
2003	943.7	R 230.4	151.1	45.6	32.0	274.4	0.8	178.2	682.2	0.0	40.9	24.6	1.0	-30.8	-0.1	1,891.4
2004	961.8	231.8	176.4	51.3	34.8	288.2	0.4	206.6	757.8	0.0	37.9	26.4	1.1	-34.2	0.0	1,982.5
2005 2006	986.3 1,023.3	240.9	183.1 190.9	47.0 40.3	36.1 35.2	281.2 281.2	0.9	204.9 208.9	753.2 757.2	0.0 0.0	29.6 25.7	R 29.4 R 28.6	1.3	-41.7 -81.0	(s)	R 1,998.9 R 1,972.4
2006	1,023.3	217.2 236.0	190.9	40.3 45.2	35.2 35.3	281.2 282.5	0.7 0.7	208.9 188.6	757.2 747.4	0.0	25.7 16.5	30.4	1.4 1.7	-81.0 -29.1	(s) (s) -0.1	2,023.0
	,						***			2.0					•	-,

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kentucky

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	428	63 64	242	897	1,396	2,534	744			2,760			
1965	274		278	1,653	1.594	3,526	562			3,763			
1970 1975	296	86	403	2,077	3,356 3,740	5,836	505			6,987			
1975	88	79	442	1,073	3,740	5,255	542			9,586			
1980 1985	60 55	74	820	1,751 833	2,063 1,586	4,633 3,276	759 1,338			13,075			
1985 1990	55 30	60	856 748	833 321	1,586 1,825	3,276	1,338 683			14,539			
1990	30 17	56 66	748 723	321 415	2,260	2,895 3,397	542			16,814 20,537			
1996	14	70	662	438	3,033	4,134	563			21,353			
1997	39	70 66	658	486	3,018	4,162	294			20,998			
1998	26	56	585	611	2,289	3,485	261			21,669			
1999	48	59	523	864	2,797	4.184	275			22,548			
2000	21	65	527	316	2,775	3,618	295			23,374			
2001	24	57	456	271	1,841	2,568	237			23,698			
2002	30	59 62	405	169	1,997	2,571	241			25,347			
2003	26	62	485	182	2,321	2,989	253			24,704			
2004	27	56	440	207	2,256	2,903	260 R 371			25,187			
2005	23 R 12	56	370	251	2,089 R 1,923	2,710 R 2,338	R 338			26,947			
2006		47	255 245	160 100	1,923	2,338	338			25,949			
2007	12	52	245	100	2,002	2,347	312			28,004			
						Tı	rillion Btu						
1960	10.5	65.2	1.4	5.1	5.6	12.1	14.9	0.0	0.0	9.4	112.1	23.3	135.4
1965	6.6	65.9	1.6 2.3	9.4	6.4	17.4	11.2	0.0	0.0	12.8	114.0	30.7	144.7
1970	6.9	87.9	2.3	11.8	12.7	26.8	10.1	0.0	0.0	23.8	155.6	57.7	213.3
1975 1980	2.0	79.8 74.9	2.6	6.1 9.9	13.9 7.6	22.6	10.8 15.2	0.0	0.0	32.7 44.6	147.9 158.4	78.7 107.5	226.6 265.9
1980	1.4 1.3	61.9	4.8 5.0	9.9 4.7	7.6 5.7	22.3 15.4	26.8	0.0 0.0	0.0 0.0	44.6	155.0	107.5	265.9
1990	0.7	58.3	4.4	1.8	6.6	12.8	13.7	0.0	(s)	57.4	143.1	132.7	275.8
1995	0.7	72.5	4.2	2.4	8.2	14.7	10.7	0.2	(5)	70.1	168.9	159.1	328.0
1995 1996	0.4 0.3	72.5 73.7	4.2 3.9	2.4 2.5	11.0	17.3	10.8 11.3	0.3 0.3	(s) (s)	70.1 72.9	175.8	165.7	341.4
1997	0.9	R 69.4	3.8	2.8	10.9	17.5	5.9	0.3	(s)	71.6	165.6	162.3	327.9
1998	0.7	57.5	3.4	2.8 3.5	8.3	15.1	5.9 5.2	0.3	(s)	73.9	152.7	167.7	320.4
1999	1.3	61.1	3.0	4.9	10.1	18.1	5.5	0.4	(s)	76.9	163.3	176.0	339.2
2000	0.6	67.3	3.1	1.8	10.0	14.9	5.9	0.4	(s)	79.8	168.7	181.4	350.2
2001	0.6	59.1	2.7	1.5	6.7	10.8	4.7	0.4	(s)	80.9	156.6	180.2	336.7
2002	0.7	61.0	2.4	1.0	7.2	10.5	4.8	0.5	(s)	86.5	164.0	192.8	356.8
2003	0.6	R 63.9	2.8	1.0	8.4	12.3	5.1	0.6	(s)	84.3	166.7	186.0	352.7
2004	0.7	58.0	2.6 2.2	1.2	8.2	11.9	5.2 R 7.4	0.7	(s)	85.9	162.4 R 169.6	190.1	352.6 R 270.7
2005 2006	0.6 R 0.3	57.8 48.8	2.2	1.4	7.6 R 6.9	11.1 R 9.3	R 6.8	0.8	(s) 0.1	91.9 88.5	R 154.6	201.1 191.5	R 246 0
2006	0.3	48.8 52.9	1.5 1.4	0.9 0.6	7.2	9.2	7.4	0.9 1.1	0.1	95.5	166.5	206.2	352.6 R 370.7 R 346.0 372.6
2001	0.5	52.9	1.4	0.0	1.2	٦.٧	7.4	1.1	0.1	30.0	100.5	200.2	312.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kentucky

					Petro	oleum			Unidad	Biomass		D. (-1)			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total ^{f,h}
1960	298	18	501	176	246	336	4	1,263	0			1,590			
1965	206	21	576	325	281	268	8	1,459	0			2,166			
1970	233	42	835	408	592	263	11	2,110	0			3,465			
1975 1980	204 227	38 39	915 2,632	211 622	660 364	275 250	7 19	2,069 3,887	0			6,489 8,432			
1985	194	34	1,579	92	280	377	1	2,329	0			9.465			
1990	121	32	762	94	322	445	(s)	1,623	Ő			11,740			
1995	113	39	1,114	117	399	42	Ó	1,672	0			13,521			
1996	103	41	1,193	111	535	40	(s)	1,879	0			13,736			
1997 1998	315 206	39 32	934 1,059	113 130	533 404	40 80	0	1,619 1,673	0			15,238 15,921			
1999	353	36	1,039	67	494	39	1	1,697	0			16,496			
2000	170	39	1.082	70	490	40	8	1.689	ő			17.252			
2001	194	35	1,123	58	325	42	6	1,553	0			17,601			
2002	222	36	1,068	32	352	42	0	1,494	0			18,107			
2003 2004	177 247	38 37	766 804	39	410 398	42	0	1,256 1,276	0			17,946 18,443			
2004	266	37	773	32 27	369	42 42	0	1,270	0			19,091			
2006	R 119	33	749	20	R 339	43	Ó	R 1,152	ő			18,941			
2007	112	34	661	10	353	43	0	1,068	0			20,035			
								Trillion Btu							
1960	7.3	18.9	2.9	1.0	1.0	1.8	(s)	6.7	0.0	0.3	0.0	5.4	38.6	13.4	52.0
1965	5.0	21.9	3.4	1.8	1.1	1.4	(s) 0.1	7.8	0.0	0.2	0.0	7.4	42.3	17.6	60.0
1970	5.5	43.2	4.9	2.3	2.2	1.4		10.9	0.0	0.2	0.0	11.8	71.5	28.6	100.1
1975 1980	4.7 5.4	38.8 39.7	5.3 15.3	1.2 3.5	2.5 1.3	1.4 1.3	(s) 0.1	10.5 21.6	0.0 0.0	0.2 0.4	0.0 0.0	22.1 28.8	76.4 95.9	53.2 69.3	129.6 165.2
1985	4.7	34.8	9.2	0.5	1.0	2.0	(s)	12.7	0.0	0.6	0.0	32.3	85.2	74.4	159.6
1990	2.9	33.1	4.4	0.5	1.2	2.3	(s)	8.5	0.0	1.5	0.0	40.1	86.1	92.6	178.7
1995	2.8	42.3	6.5	0.7	1.4	0.2 0.2	0.0	8.8	0.0	1.5	0.1	46.1	101.7	104.8	206.5
1996	2.5	43.0	6.9	0.6	1.9	0.2	(s) 0.0	9.7	0.0	1.5	0.1	46.9	103.8	106.6	210.3
1997	7.3	40.6	5.4	0.6	1.9	0.2	0.0	8.2	0.0	1.0	0.2	52.0	109.2	117.8	227.0
1998 1999	5.3 9.3	33.6 37.0	6.2 6.4	0.7 0.4	1.5 1.8	0.4 0.2	0.0 (s)	8.8 8.8	0.0 0.0	0.9 0.9	0.2 0.2	54.3 56.3	103.0 112.4	123.2 128.7	226.2 241.1
2000	9.5 4.5	40.2	6.3	0.4	1.8	0.2	0.1	8.7	0.0	1.0	0.2	58.9	113.5	133.9	247.4
2001	4.8	36.6	6.5	0.3	1.2	0.2	(s)	8.3	0.0	8.0	0.2	60.1	110.8	133.8	244.6
2002	5.5	37.1	6.2	0.2	1.3	0.2	0.0	7.9	0.0	0.9	0.3	61.8	113.3	137.7	251.1
2003	4.3	39.4	4.5	0.2	1.5	0.2	0.0	6.4	0.0	0.9	0.4	61.2	112.6	135.1	247.7
2004 2005	5.9 6.4	38.0 38.0	4.7 4.5	0.2 0.2	1.4 1.3	0.2 0.2	0.0	6.5 6.2	0.0 0.0	0.9 R 1.2	0.4 0.5	62.9 65.1	114.7 117.4	139.2 142.5	253.9 R 259.8
2005		33.5	4.5 4.4	0.2		0.2	(s) 0.0		0.0	R 1.1	0.5 0.5	64.6	117.4	139.7	R 248 3
2007	2.8 2.7	35.3	3.8	0.1	1.2 1.3	0.2	0.0	5.9 5.4	0.0	1.2	0.5 0.5	68.4	113.4	147.5	R 248.3 260.9

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kentucky

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	3,754	46	1,558	2,476	485	289	4,326	9,134	0			23,818			
1965 1970	4,879	58	1,987	3,957 5,562	430	536 786	6,788 11,208	13,698 19,843	0			20,893 20,586			
1970	4,325 2,898	75 66	2,078 3,346	5,562 6,511	209 195	2,059	11,208	24,603	0			31,006			
1980	3,058	66	6,433	7,784	89	2,039 857	16,663	31,825	0			28,280			
1985	3,732	63	5,838	3,574	843	621	10,305	21,180	0			26,564			
1990	3,431	72	6,054	3,941	848	537	12,562	23,942	Ö			32,543			
1995	3,679	93	6,120	2,902	1,168	201	21,593	31.983	0			40,490			
1996	3,674	97	6,097	3,589	1,199	243	31,016	42,144	0						
1997	3,254	98	5,682	5,148	1,230	165	32,811	45,037	0			40,600			
1998	2,724	96	5,889	4,805	821	55	34,114	45,684	0			38,260			
1999 2000	2,382 2,214	101 104	4,946 4,436	5,962 6,638	820 827	77 81	36,555 34,557	48,360 46,540	0			40,054 37,689			
2000	2,384	97	5,340	7,698	1,720	136	23,861	38,754	0			38,676			
2002	2,063	107	5,252	8.429	1,739	92	23,380	38,893	0			43,812			
2003	2,103	105	4,240	6,043	1,919	120	23,563	35,885	0			42,570			
2004	2.257	117	4,154	6,886	2,196	58	27,008	40.302	Ö			42,891			
2005	2,240 R 2,366	116	4,609	7,427	2,141	136	26,528	40,842 R 42,655	0			43,314			
2006	R 2,366	112	5,012	R 7,376	2,307	118	27,843	R 42,655	0			43,853			
2007	2,471	113	4,750	7,393	1,147	103	25,769	39,163	0			44,366			
							Tr	Ilion Btu							
1960	95.9	47.7	9.1	9.9	2.5	1.8	26.6	50.0	0.0	7.3	0.0		282.1	201.0	483.1
1965	123.9	60.0	11.6	15.9	2.3	3.4	40.7	73.8	0.0	10.2	0.0		339.3	170.2	509.5
1970	105.9	76.1	12.1	21.0	1.1	4.9	66.9	106.0	0.0	13.4	0.0		371.7	170.0	541.7
1975 1980	71.1 76.1	66.6 66.4	19.5 37.5	24.2 28.6	1.0 0.5	12.9 5.4	74.2 96.2	131.9 168.2	0.0 0.0	19.8 9.7	0.0 0.0		395.2 416.9	254.4 232.6	649.6 649.5
1985	94.2	65.1	34.0	20.0 12.9	4.4	3.9	96.2 61.6	116.8	0.0	11.4	0.0		378.2	208.7	587.0
1990	87.1	74.4	35.3	14.3	4.5	3.4	76.1	133.4	0.0	2.2	0.0		408.2	256.8	665.0
1995	94.2	102.4	35.6	10.5	6.1	1.3	124.3	177.8	0.0	3.2	0.0		515.7	313.7	829.5
1996	93.7	101.7	35.5	13.0	6.3	1.5	174.6	230.9	0.0	5.7	0.0	143.1	575.0	325.3	900.4
1997	82.8	103.1	33.1	18.6	6.4	1.0	185.5	244.7	0.0	6.1	0.0	138.5	575.2	313.8	889.1
1998	70.9	98.8	34.3	17.4	4.3	0.3	193.4	249.7	0.0	5.1	0.0	130.5	555.1	296.0	851.1
1999	62.3	104.3	28.8	21.6	4.3	0.5	207.9	263.1	0.0	5.2	0.0		571.5	312.6	884.1
2000	59.6	107.9	25.8	23.9	4.3	0.5	195.7	250.3	0.0	5.0	0.0		551.4	292.5	843.9
2001	63.6	101.0	31.1	27.8	9.0	0.9	140.9	209.7	0.0	7.1	0.0		R 513.3	294.1	807.3
2002 2003	55.8 56.2	110.5 R 108.5	30.6 24.7	30.5 21.9	9.1 10.0	0.6 0.8	138.0 139.3	208.7 196.7	0.0	15.5 18.7	0.0		539.9 525.2	333.2 320.5	873.1 845.7
2003	60.4	120.2	24.7 24.2	24.9	11.5	0.8	159.4	220.3	0.0	19.6	0.0		566.9	323.8	890.7
2004	58.5	118.9	26.8	26.9	11.2	0.9	157.1	222 9	0.0	20.0	0.0		568.0	323.2	_ 891.3
2006	61.7	115.5	29.2	R 26.6	12.0	0.7	165.3	R 233.9	0.0	19.7	0.0		R 580.4	323.6	R 903.9
2007	63.8	115.7	27.7	26.5	6.0	0.7	152.8	213.6	0.0	20.6	0.0		565.0	326.6	891.6

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Kentucky

						Pe	troleum					.			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total e,f
1960	64	19	652	2,549	497	34	405	20,715	35 42	24,886	0	0			
1965	16	28	1,052	2,725	1,284	36	409	25,082		30,630	0	0			
1970	7	36	330	4,891	3,089	54	368	33,109	145	41,986	0	0			
1975 1980	(s) 0	24 21	129 112	6,215 12,795	2,150 2,897	66 13	530 518	40,346 39,490	2 136	49,437 55,961	0	0			
1985	0	14	66	13,546	3,434	98	471	38,704	0	56,319	1,014	0			
1990	ő	25	51	16,449	5,713	98 65 47	531	41,748	ő	64,555	815	Ö			
1995	0	25	44	19,086	6,305	47	506	46,894	0	72,882	126	0			
1996	0	27	47	19,433	5,590	50	491	42,303	0	67,914	131	0			
1997 1998	0	23	28 62	20,512	R 4,558	58	519 543	48,904 49,322	0	R 74,580 R 75,576	155	0			
1998	0	16 17	33	20,278 20,637	R 5,351 6,962	19 26	543 549	50,091	0	78,298	93 86	0			
2000	0	14	32	23,286	6,651	56	541	48,045	0	78,610	66	0			
2001	Ö	15	90	23,577	6,001	65	495	49,506	1	79,735	93	Ö			
2002	0	12	69	26,760	6,353	139	490	49,046	2	82,858	608	0			
2003	0	14	60	20,134	8,046	56	453	50,741	3	79,493	1,355	0			
2004	0	10	70	24,634	9,042 8,284	81	458 456	53,030 51,716	6	87,322	1,179 R 2,637	0			
2005 2006	0	8 7	70 65	25,444 26,569	8,28 4 7,105	92 115	456 444	51,716	3	86,065 85,845	R 2,721	0			
2007	ő	12	64	27,584	7,979	92	459	52,941	ő	89,118	3,365	Ő			
								Trillion Btu							
1960	1.6	19.6	3.3	14.8	2.7	0.1	2.5	108.8	0.2	132.5	0.0	0.0	153.6	0.0	153.6
1965	0.4	28.4	5.3	15.9	7.2	0.1	2.5	131.8	0.3	163.0	0.0	0.0	191.8	0.0	191.8
1970 1975	0.2	36.3 23.7	1.7 0.6	28.5 36.2	17.4 12.1	0.2 0.2	2.2	173.9 211.9	0.9	224.8 264.4	0.0 0.0	0.0 0.0	261.3 288.1	0.0 0.0	261.3 288.1
1975	(s) 0.0	23.7	0.6	74.5	16.3	(s)	3.2 3.1	207.4	(s) 0.9	302.9	0.0	0.0	324.0	0.0	324.0
1985	0.0	14.7	0.3	78.9	19.3	0.4	2.9	203.3	0.0	305.1	3.6	0.0	323.4	0.0	323.4
1990	0.0	25.6	0.3	95.8	32.3	0.2	3.2	219.3	0.0	351.1	2.9	0.0	379.6	0.0	379.6
1995	0.0	27.4	0.2	111.2	35.7	0.2	3.1	244.6	0.0	394.9	0.4	0.0	422.4	0.0	422.4
1996	0.0	27.8	0.2	113.2	31.7	0.2	3.0	220.7	0.0	368.9	0.5	0.0	396.8	0.0	396.8
1997	0.0	24.1	0.1	119.5	25.8	0.2	3.1	254.9	0.0	403.8	0.5	0.0	427.8	0.0	427.8
1998 1999	0.0 0.0	16.3 17.2	0.3 0.2	118.1 120.2	30.3 39.5	0.1 0.1	3.3 3.3	257.1 261.0	0.0	409.2 424.3	0.3 0.3	0.0 0.0	425.5 441.5	0.0	425.5 441.5
2000	0.0	14.5	0.2	135.6	37.7	0.1	3.3	250.3	0.0	424.3	0.3	0.0	441.8	0.0	441.8
2000	0.0	15.5	0.5	137.3	34.0	0.2	3.0	257.9		433.0	0.2	0.0	448.5	0.0	448.5
2002	0.0	12.5	0.3	155.9	36.0	0.5	3.0	255.4	(s) (s)	451.2	2.2	0.0	463.6	0.0	463.6
2003	0.0	14.8	0.3	117.3	45.6	0.2	2.7	264.2	(s)	430.4	4.8	0.0	445.2	0.0	445.2
2004	0.0	10.5	0.4	143.5	51.3	0.3	2.8	276.6	(s)	474.8	4.2	0.0	485.3	0.0	485.3
2005	0.0	8.5	0.4	148.2	47.0	0.3	2.8	269.9	(s) (s) 0.0	468.5	R 9.3 R 9.6	0.0	477.0	0.0	477.0
2006 2007	0.0 0.0	6.7 12.2	0.3 0.3	154.8 160.7	40.3 45.2	0.4 0.3	2.7 2.8	269.0 276.3	0.0	467.5 485.6	11.9	0.0 0.0	474.2 497.9	0.0 0.0	474.2 497.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Kentucky

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Mand	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	7,466	2	9	(s)	0	10	0	2,633		0	0	0	0	
1965	12 210	(s) 9	14	(s) 4	0	14	0	2,464		0	0	0	0	
1970	18,698	9	121	4	0	124	0	3,174		0	0	0	0	
1975	22,366	(s) 2	100	227	0	108 227	0	3,463 2,940		0	0	0	0	
1980 1985	24,383 27,085		0	270	0	270	0	2,940 2,941		0	0	0	0	
1990	30,867	(s)	0	212	0	212	0	3,160		0	0	0	0	
1995	35,707	(3)	0	282	0	282	0	3,423		0	0	0	0	
1996	37,071	2	Ŏ	308	ŏ	308	Ŏ	3,497		Ŏ	ŏ	Ŏ	Ŏ	
1997	38,281	2	Ō	266	0	266	Ō	3,380		0	Ō	Ō	Ō	
1998	38,197	6	0	292	721	1,013	0	3,116		0	0	0	0	
1999	39,595	6	0	263	0	263	0	2,557		0	0	0	0	
2000	40,180	4	0	309	0	309	0	2,325		0	0	0	0	
2001	41,305	4	0	225	0	225	0	3,856		0	0	0	0	
2002	38,605	14	0	335	6,914	7,249	0	4,025		0	0	0	0	
2003 2004	38,521	4	0	310	5,752	6,062	0	3,948 3,780		0	0	0	0	
2004	39,342 40,352	5 17	0	255 230	7,096 7,146	7,351 7,376	0	3,780 2,961		0	0	0	(s)	
2005	41,938	12	0	193	6,562	6,755	0	2,592		0	0	0	(5)	
2007	41,064	19	ő	242	5,323	5,566	0	1,669		0	ő	0	Ő	
							Trillion E	Btu						
1960	171.5	2.4	0.1	(s)	0.0	0.1	0.0	28.3	0.0	0.0	0.0	0.0	0.0	202.3
1965	279.5	0.5	0.1	(s)	0.0	0.1	0.0	25.8	0.0	0.0	0.0	0.0	0.0	305.8
1970 1975	408.6 480.4	8.7	0.8	(s)	0.0	0.8	0.0	33.3	0.0	0.0	0.0	0.0	0.0	451.3
1975	480.4	0.3	0.6	(s) 1.3	0.0	0.7	0.0	36.0	0.0	0.0	0.0	0.0	0.0	517.4
1980 1985	558.8 616.7	1.9 1.1	0.0 0.0	1.3	0.0 0.0	1.3 1.6	0.0 0.0	30.5 30.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	592.6 650.2
1905	712.8	0.3	0.0	1.0	0.0	1.0	0.0	32.9	0.0	0.0	0.0	0.0	0.0	747.2
1995	831.9	0.9	0.0	1.6	0.0	1.6	0.0	35.3	0.0	0.0	0.0	0.0	0.0	869.8
1996	855.6	1.9	0.0	1.8	0.0	1.8	0.0	36.2	0.0	0.0	0.0	0.0	0.0	895.4
1997	886.7	2.2	0.0	1.5	0.0	1.5	0.0	34.5	0.0	0.0	0.0	0.0	0.0	925.0
1998	882.2	5.9	0.0	1.7	4.3	6.0	0.0	31.8	0.0	0.0	0.0	0.0	0.0	925.9
1999	914.8	5.8	0.0	1.5	0.0	1.5	0.0	26.1	0.0	0.0	0.0	0.0	0.0	948.2
2000	933.0	4.3	0.0	1.8	0.0	1.8	0.0	23.7	0.0	0.0	0.0	0.0	0.0	962.8
2001	944.1	4.5	0.0	1.3	0.0	1.3	0.0	39.8	0.0	0.0	0.0	0.0	0.0	989.8
2002	888.9	14.0	0.0	2.0	41.7	43.6	0.0	40.9	0.0	0.0	0.0	0.0	0.0	987.5
2003	882.5	3.8	0.0	1.8	34.7	36.5	0.0	40.4	R (s)	0.0	0.0	0.0	0.0	963.2
2004	894.7	5.0	0.0	1.5	42.7	44.2	0.0	37.9	0.8	0.0	0.0	0.0	0.0	982.6
2005 2006	920.9 958.5	17.7 12.6	0.0 0.0	1.3 1.1	43.0 39.5	44.4 40.7	0.0 0.0	29.6 25.7	0.8 1.1	0.0 0.0	0.0 0.0	0.0 0.0	(s) 0.0	1,013.4
2006	953.7	19.9	0.0	1.1	39.5 32.1	33.5	0.0	25.7 16.5	1.1	0.0	0.0	0.0	0.0	1,038.6 1,024.7
														· .

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Louisiana

						Petroleum				Martan	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	Wood and Waste ^{f,g}	and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	.0	970	10,710	3,207	21,646	22,550	8,769	21,897	88,779	0	0					
1965 1970	(s) 0	1,110 1,841	8,357 11,799	6,097 5,879	31,150 47,555	27,404 34,850	7,889 11,118	28,260 39,255	109,158 150,456	0	0					
1975	0	1,789	21,502	6.082	52,953	43,192	28,410	58,036	210,174	0	0					
1980	111	1,794	22,579	8,644	52,872	47,157	64,084	98,408	293,743	0	0					
1985	9,217	1,386	26,702	12,803	70,430	49,302	24,717	56,821	240,776	2,457	0					
1990 1995	12,547 13,357	1,588 1,679	30,065 36,584	25,879 28,853	47,504 66,974	43,967 47,247	22,982 23,059	89,137 86,281	259,533 288,998	14,197 15,686	656 952					
1996	12,534	1,616	42,641	29 030	66,649	50,871	26,543	63,557	279.292	15,765	964					
1997	13,874	1,661	43,942	R 30.472	47,298	46,918	21,535	68,139	279,292 R 258,303	13,511	1,036					
1998	13,891	1,569	40,826	R 28,670 34,016	46,693	50,105 49,717	21,955	59,872	R 248,121	16,428	1,063					
1999 2000	13,953 15,737	1,495 1,537	36,166 38.779	35,399	75,103 111,059	54,489	22,123 29,246	61,800 58,721	278,926 327,692	13,112 15,796	802 532					
2001	14,934	R 1,306	42,485	34,460	75,798	53,482	13,596	106,008	325,828	17,336	732					
2002	14,676	1,426	41,229	37,678 R 38,124	80,954	55,065	11,749	104,847	331,522	17,305	891					
2003 2004	15,592 16,059	1,308 1.346	32,632 33,189	38,124 35,840	45,831 52,196	57,453 55,756	14,218 15,277	112,641 118,245	300,899 310,503	16,126 17,080	892 1,099					
2004	15,856	1,310	34,060	28,255	49,250	56,846	16,322	113,170	297 902	15,676	811					
2006	16,410	R 1,293	36,107	23,264	R 58,859	63,493	16,961	122,696	297,902 R 321,381	16,735	713					
2007	15,524	1,378	32,670	22,416	56,446	57,866	15,841	116,947	302,186	17,078	827					
								Trillion Btu								
1960 1965	0.0 (s)	1,003.8 1,156.4	62.4 48.7	17.4 33.8	86.8 124.9	118.5 144.0	55.1 49.6	131.6 168.8	471.8 569.8	0.0 0.0	0.0 0.0	39.0 38.3	0.0 0.0	-7.5 1.3	0.0 0.0	1,507.0 1,765.8
1970	0.0	1,894.2	68.7	32.6	179.7	183.1	69.9	232.5	766.5	0.0	0.0	41.6	0.0	0.8	0.0	2,703.1
1975	0.0	1,854.8	125.2	33.9	196.7	226.9	178.6	339.8	1,101.1	0.0	0.0	42.4	0.0	6.1	0.0	3,004.4
1980 1985	2.5 159.1	1,862.2 1,441.8	131.5 155.5	48.4 72.0	194.3 253.8	247.7 259.0	402.9 155.4	564.2 334.1	1,589.0 1,229.8	0.0 26.1	0.0 0.0	64.7 78.5	0.0 0.0	121.4 210.0	0.0	3,639.7 3,146.1
1990	208.9	1,654.7	175.1	146.1	172.2	231.0	144.5	512.1	1,381.0	150.2	6.8	118.2	0.0	69.3	0.8	3,589.6
1995	216.8	1,737.3	213.1	163.6	242.6	246.4	145.0	497.3	1,508.0	164.8	9.8	141.4	0.3	70.6	0.0	3,849.1
1996	205.4	1,687.6	248.4	164.6	240.8	265.3	166.9	378.2	1,464.2 R 1,387.4	165.6	10.0	142.1	0.4	175.2	0.0	3,850.4
1997 1998	226.1 225.3	1,857.1 1,679.0	256.0 237.8	R 172.8 R 162.6	171.0 168.7	244.6 261.1	135.4 138.0	407.7 357.1	N 1,387.4 R 1.325.4	141.8 172.3	10.6 10.8	138.7 136.2	0.4 0.5	152.2 98.1	0.0	R 3,914.2 R 3,647.7
1999	227.7	1,558.3	210.7	192.9	271.6	259.1	139.1	368.1	1,441.4	137.0	8.2	139.7	0.5	148.1	0.0	3,661.0
2000	253.3	1,625.9	225.9	200.7	400.6	283.9	183.9	350.1	1,645.0	164.7	5.4	136.5	0.5	140.0	0.0	3,971.4
2001	240.0	1,341.8	247.5	195.4	273.9	278.6	85.5	610.2	1,691.1	181.1	7.6	128.0	0.6	103.7	0.0	3,693.8
2002 2003	232.1 248.0	1,526.3 1,359.9	240.2 190.1	213.6 216.2	292.5 166.3	286.8 299.2	73.9 89.4	603.9 649.3	1,710.8 1,610.4	180.7 168.1	9.1 9.1	131.3 138.8	0.6 0.8	99.1 151.9	0.0	3,889.9 3,686.9
2003	256.7	1,400.3	193.3	203.2	188.8	290.8	96.0	678.9	1,651.1	178.1	11.0	173.8	0.0	R 136.8	0.0	R 3.808.7
2005	253.5	1.367.3	198.4	160.2	178.3	296.6	102.6	651.4	1.587.6	163.6	8.1	145.3	1.0	83.5	0.0	3,609.9 R 3,800.2
2006 2007	265.2 249.8	R 1,341.9 1,423.1	210.3 190.3	131.9 127.1	R 212.2 202.7	331.3 302.0	106.6 99.6	712.2 678.2	R 1,704.6 1,599.9	174.6 179.1	7.1 8.2	R 141.9 141.2	1.1 1.2	163.8 163.8	0.0 0.0	^R 3,800.2 3,766.2
2001	243.0	1,423.1	190.3	121.1	202.7	302.0	99.0	010.2	1,588.9	118.1	0.2	141.2	1.2	103.0	0.0	3,700.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Louisiana

				Petro	leum		Biomass			D 4 7			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	0	56	11	7	1,567	1,585	453			3,014			
1965	0	61	6	14	2.159	2.178	304			5.161			
1970	0	86	6	20	2,709	2,735	219			9,334			
1975	0	96 73	10	21	2,086	2,117	257			11,923			
1980 1985	1	/3	5	0	1,147 989	1,152	178			16,832			
1985	0	61 53	6 6	18 13	989 774	1,012 794	342 271			20,168 21,434			
1990	1	53 53	1	9	626	637	388			24,116			
1995 1996	0	53 57	1	17	791	809	403			24,311			
1997	(s)	53	(s)	92	871	963	195			24 502			
1998	0	53 48	1	69	1,270	1,340	173			24,502 26,709			
1999	0	45	3	62	1.889	1.955	182			26.426			
2000	0	50	1	26	2,246	2,274	196			27,719			
2001	0	49	1	27	2.100	2.128	175			25,800			
2002	0	49	9	13	1,112	1,134	177			28,157			
2003	0	47	4	.9	908	921	186			28,572			
2004	0	43	4	10	836	849	191			28,863			
2005 2006	0	41 33	5 6	8 8	982 R 936	995 R 949	R 208 R 190			28,654 28,113			
2007	(s)	33 37	5	6	643	654	209			28,878			
2001	(0)	- Oi			040		rillion Btu			20,070			
1960 1965	0.0	57.8	0.1	(s) 0.1	6.3	6.4	9.1	0.0	0.0	10.3	83.5	25.4	108.9
1965	0.0	63.6	(s)	0.1	8.7	8.8	6.1	0.0	0.0	17.6	96.1	42.1	138.1
1970 1975	0.0	88.6	(s)	0.1	10.2 7.7	10.4	4.4	0.0	0.0	31.8	135.3 153.0	77.1	212.4 250.8
1975	0.0	99.3	0.1	0.1	7.7	7.9 4.2 3.7	5.1	0.0	0.0	40.7	153.0	97.8	250.8
1980	(s) 0.0	75.8	(s)	0.0	4.2 3.6	4.2	3.6 6.8	0.0	0.0	57.4	141.1 142.3	138.4	279.5
1985	0.0	63.0	(s) (s)	0.1 0.1	3.0	3.7	0.8	0.0 0.1	0.0 0.1	68.8	137.3	158.5 169.1	300.8
1990 1995	(s)	50.0 54.3	(S)	0.1	2.8 2.3	2.9 2.3	5.4 7.8	0.1	0.1	73.1 82.3	147.0	186.9	306.4 333.8
1996	0.0	55.6 54.3 59.1	(s)	0.1	2.3	3.0	8.1	0.1	0.1	82.9	153.3	188.6	342.0
1997	(s)	59.8	(s)	0.5	2.9 3.1	3.7	3.9	0.2	0.1	83.6	151.2	189.4	340.6
1998	0.0	51.2	(s)	0.4	4.6	5.0	3.5	0.2	0.1	91.1	151.1	206.7	357.7
1998 1999	0.0	51.2 47.0	(s)	0.4 0.4	6.8	5.0 7.2	3.5 3.6	0.2 0.2	0.1 0.1	90.2	148.3	206.2	357.7 354.6
2000	0.0	52.9	(s)	0.1	8.1	8.3	3.9	0.2	0.1	94.6	159.9	215.1	375.1
2001	0.0	50.2 53.2	(s)	0.2	7.6	7.7	3.5	0.2	0.1	88.0	149.7	196.2	345.9 371.4
2002	0.0	53.2	0.1	0.1	4.0	4.1	3.5	0.2	0.1	96.1	157.3	214.2	371.4
2003	0.0	49.3	(s)	0.1	3.3	3.4	3.7	0.3	0.1	97.5	154.3	215.1	360 1
2004	0.0	44.6	(s)	0.1	3.0	3.1	3.8	0.3	0.1	98.5	150.4	217.9	368.3
2005	0.0	43.1	(s)	(s)	3.6	3.6	4.2	0.4	0.1	97.8	149.2 R 138.4	213.8	363.0 R 245.0
2006 2007	0.0 (s)	34.7 38.1	(s) (s)	(s) (s)	3.4 2.3	3.5 2.4	3.8 4.2	0.5 0.5	0.1 0.1	95.9 98.5	138.4 143.8	207.4 212.6	368.3 363.0 R 345.8 356.4
2001	(9)	30.1	(9)	(5)	2.3	2.4	4.2	0.0	U. I	30.5	143.0	212.0	330.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Louisiana

					Petro	oleum				Biomass		B . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total ^{f,h}
1960	0	23	1,604	156	276	259	304	2,599	0			2,493			
1965	0	23	815	305	381	299	206	2,006	0			4,890			
1970	0	70	838	445	478	381	502	2,645	0			8,427			
1975	0	51	1,458	467	368	465	1,830	4,588	0			9,225			
1980	3	40	399	549	202 174	168	13,466 575	14,784	0			12,809			
1985 1990	0	30 25	2,647 741	65 21	174	235 318	575 40	3,698 1,256	0			16,548 16,528			
1995	4	24	257	6	110	41	0	415	0			18,016			
1996	0	26	134	7	140	41	ĭ	323	Ö			18,411			
1997	(s)	26	311	3	154	41	0	508	0			18,888			
1998	0	24	303	5	224	41	0	573	0			20,005			
1999	0	25	550 337	9	333	41	0	933	0			20,354			
2000 2001	0	26 25	337 277	8 16	396 371	2,166 951	0 0	2,907 1,615	0			21,018 20,315			
2001	0	26	380	7	196	784		1,367	0			21,439			
2003	ő	26 25	345	6	160	2,122	(s) 71	2,705	Ő			21,944			
2004	0	25	293	77	147	1,483	61	2,062	0			22,568			
2005	0	25	354	38	173	1,057	54	1,676	0			21,692			
2006	0	22	346	29 7	R 165	43	0	R 584	0			21,979			
2007	(s)	25	612	- /	113	2,800	0	3,532	0			22,887			
								Trillion Btu							
1960	0.0	24.3	9.3	0.9	1.1	1.4	1.9	14.6	0.0	0.2	0.0	8.5	47.6	21.0	68.6
1965	0.0	23.5	4.7	1.7	1.5	1.6	1.3	10.9	0.0	0.1	0.0	16.7	51.2	39.8	91.0
1970 1975	0.0 0.0	72.4 52.3	4.9 8.5	2.5 2.6	1.8 1.4	2.0 2.4	3.2 11.5	14.4 26.5	0.0	0.1	0.0 0.0	28.8 31.5	115.6 110.3	69.6 75.7	185.2 186.0
1975	0.0	52.5 41.5	0.5 2.3	3.1	0.7	0.9	84.7	26.5 91.7	0.0 0.0	0.1 0.1	0.0	43.7	177.1	105.3	282.4
1985	0.0	31.4	15.4	0.4	0.6	1.2	3.6	21.3	0.0	0.2	0.0	56.5	109.3	130.0	239.3
1990	0.0	26.0	4.3	0.1	0.5	1.7	0.2	6.8	0.0	0.6	0.0	56.4	89.8	130.4	220.2
1995	0.1	24.6	1.5 0.8	(s)	0.4	0.2	0.0	2.1	0.0	1.1	0.1	61.5	89.5	139.6	229.1
1996	0.0	26.9	0.8	(s)	0.5	0.2	(s) 0.0	1.5	0.0	1.1	0.1	62.8	92.5	142.8	235.3
1997	(s)	29.1	1.8	(s)	0.6	0.2		2.6	0.0	0.7	0.2	64.4	96.9	146.0	242.9
1998 1999	0.0	25.9 25.6	1.8 3.2	(s) 0.1	0.8 1.2	0.2 0.2	0.0 0.0	2.8 4.7	0.0 0.0	0.6 0.6	0.2 0.2	68.3 69.4	97.8 100.5	154.8 158.9	252.5 259.4
2000	0.0	27.3	2.0		1.4	11.3	0.0	14.7	0.0	0.6	0.2	71.7	114.6	163.1	277.7
2001	0.0	25.2	1.6	(s) 0.1	1.3	5.0	0.0	8.0	0.0	0.6	0.2	69.3	103.4	154.5	257.8
2002	0.0	27.6	2.2	(s)	0.7	4.1	(s)	7.0	0.0	0.6	0.3	73.2	108.7	163.1	271.8
2003	0.0	26.2	2.0	(s)	0.6	11.1	0.4	14.1	0.0	0.7	0.4	74.9	116.2	165.2	281.4
2004	0.0	25.8	1.7	0.4	0.5	7.7	0.4	10.8	0.0	0.6	0.4	77.0	114.6	170.4	285.0
2005	0.0	26.3	2.1	0.2	0.6	5.5	0.3	8.8	0.0	R 0.7	0.5	74.0	110.2	161.9	272.1
2006 2007	0.0 (s)	23.1 25.9	2.0 3.6	0.2 (s)	0.6 0.4	0.2 14.6	0.0 0.0	3.0 18.6	0.0 0.0	0.6 0.7	0.5 0.5	75.0 78.1	102.2 123.8	162.2 168.5	264.4 292.3

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Louisiana

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	0	739	3,383	19,606	562	485	20,187	44,222	0			4,326			
1965	0	797	3,129	28,451	548	353	26,225	58.706	0		==	5,905			
1970	0	1,281	4,241	44,017	302	819	37,804	87,183	0			11,637			
1975	0	1,224	6,391	50,191	173	4,046	56,727	117,528	0			14,969			
1980 1985	107 457	1,182 968	8,543 6.748	51,364 69.158	62 486	12,363 6.806	96,883	169,215 139,109	0			23,233 23,952			
1985	799	1,168	9,143	46,519	337	1,131	55,911 88,132	139,109	0			25,862			
1995	422	1,213	11,348	66,176	771	382	82,446	161,123	0			30,692			
1996	84	1,212	12,525	65,673	773	745	59,815	139,531	Ö			32,544			
1997	67	1,232	12,565	46,228	825	1,013	63,984	124,616	0			32,493			
1998	41	1,117	12,260	45,178	655	733	55,711	114,537	0			30,999			
1999 2000	37 57	1,055	10,720	72,855 108,408	570 607	1,194	57,938 55,080	143,277 176,979	0			31,484 31,950			
2000	80	1,106 942	11,517 12,192	73,311	1,162	1,368 992	101,681	189,338	0			28,574			
2002	53	977	12,728	79,573	1,220	1,315	100,875	195,711	0			29,662			
2003	130	952	5.224	44.727	1,306	2.854	108,499	162,610	Ö			27,251			
2004	84	989	5,281	51,159	1,497	1,369	114,109	173,415	0			28,290			
2005	66	917	6,080	48,025	1,410	2,773	109,119	167,408	0			27,031			
2006	74	R 993	5,072	R 57,708	1,398	3,201	118,663	R 186,042	0			27,373			
2007	71	1,039	5,081	55,650	1,643	590	112,650	175,615	0			27,799			
							Tr	illion Btu							
1960	0.0	764.9	19.7	78.6		3.0	122.2	226.5	0.0	29.8	0.0		1,035.9	36.5	1,072.4
1965 1970	0.0	830.0 1.318.4	18.2 24.7	114.1 166.3	2.9 1.6	2.2 5.1	157.7 224.3	295.1 422.1	0.0		0.0		1,177.4 1.817.4	48.1 96.1	1,225.5 1,913.5
1970	0.0	1,263.1	37.2	186.5	0.9	25.4	332.4	582.4	0.0		0.0		1,933.7	122.8	2,056.5
1980	2.4	1,225.4	49.8	188.7	0.3	77.7	555.4	872.0	0.0		0.0		2,240.1	191.1	2,431.2
1985	11.0	1,005.1	39.3	249.2	2.6	42.8	328.8	662.6	0.0		0.0		1,832.0	188.2	2,020.2
1990	16.0	1,216.4	53.3	168.6	1.8	7.1	506.2	736.9	0.0	110.8	0.0		2,168.4	204.1	2,372.4
1995	7.7	1,252.9	66.1	239.8	4.0	2.4	474.3	786.6	0.0		0.0		2,283.2	237.8	2,521.0
1996	2.1	1,266.0	73.0	237.3	4.0	4.7	355.7	674.6	0.0		0.0		2,185.6	252.5	2,438.1
1997	1.7	1,398.0	73.2	167.2	4.3	6.4	382.8	633.8	0.0	132.9	0.0	110.9	2,277.2	251.2	2,528.4
1998 1999	1.0 0.9	1,203.2 1,100.5	71.4 62.4	163.3 263.4	3.4 3.0	4.6 7.5	332.1 345.0	574.8 681.3	0.0		0.0 (s)		2,015.8 2,024.4	239.9 245.7	2,255.6 2,270.1
2000	1.4	1,100.5	67.1	391.0	3.0	8.6	328.2	798.1	0.0		(s)	107.4	2,215.8	248.0	2,463.7
2000	2.0	964.0	71.0	264.9	6.1	6.2	584.4	932.7	0.0		(s)	97.5	2,119.1	217.3	2,336.4
2002	1.3	1,057.9	74.1	287.5	6.4	8.3	580.0	956.3	0.0	126.1	(s)	101.2	2,242.8	225.6	2,468.4
2003	3.1	991.2	30.4	162.3	6.8	17.9	624.4	841.9	0.0	133.4	(s)	93.0	2,062.6	205.2	2,267.8
2004	2.1	R 1,030.7	30.8	185.1	7.8	8.6	654.1	886.4	0.0		(s)	96.5	R 2,183.8	213.6	R 2,397.4
2005	1.6	960.6	35.4	173.9 R 208.0	7.4	17.4	627.1	861.2 R 052.0	0.0		(s)	92.2	2,055.0	201.7	2,256.7
2006 2007	1.8 1.7	R 1,031.0 1,073.4	29.5 29.6	199.8	7.3 8.6	20.1 3.7	688.0 652.3	R 953.0 894.0	0.0 0.0	136.5	(s) (s)	93.4 94.8	R 2,215.7 2,199.1	202.0 204.6	R 2,417.6 2,403.8
2001	1.7	1,073.4	23.0	133.0	0.0	3.7	002.0	054.0	0.0	133.1	(5)	34.0	2,133.1	204.0	2,403.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Louisiana

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	0	32 54	847	5,690	3,207	197	700	21,729	7,944	40,314	0	25			
1965	0	54	1,055	4,387	6,097	159	661	26,557	7,297	46,213	0	7			
1970	0	71	447	6,655	5,879	350 307	539 527	34,167 42,554	9,699 16,835	57,736	0	4			
1975 1980	0	61 74	295 255	13,554 12,457	6,082 8,644	159	52 <i>1</i> 721	42,554 46,927	31,159	80,154 100,321	0	3			
1985	0	42	171	17,168	12,803	109	656	48,581	17,277	96,767	229	3			
1990	ő	56	108	20,015	25 879	73	738	43,312	21,737	111 863	90	3			
1995	0	65	87	24.900	28,853 29,030 R 30,472 R 28,670	61	704	46,434	22,664	123,704 135,168 R 127,866 R 127,368	183	3			
1996	0	68	81	29,783	29,030	45	683	50,057	25,489	135,168	44	3			
1997 1998	0	72 60	98 78	30,980	R 30,472	45	722 756	46,053 49,410	19,497 20,255	N 127,866	18	3			
1998	0	48	78 87	28,180 24,841	34,016	21 26	756 764	49,410	20,255	127,308	16 39	3			
2000	0	51	84	26,583	35,399	8	752	51,716	27,170	141,711	6	3			
2001	Ö	48	286	29,362	34 460	17	689	51,368	10,243	126,424	(s) 866	3			
2002	0	51	62	28,006	37,678 R 38,124	73	681	53,061	10,400	129,961	866	3			
2003	0	47	102	26,848	R 38,124	36 54	630	54,025	9,670	129,433 127,658	1,076	3			
2004 2005	0	45 42	55 60	27,420 27,476	35,840 28,255	54 69	638 634	52,776 54,379	10,875 10,456	127,658 121,330	1,097 R 46	16 12			
2005	0	42	60	30,634	23,264	51	618	62,052	13,385	130,064	R 44	3			
2007	Ő	52	25	26,908	22,416	40	638	53,422	14,782	118,231	130	3			
								Trillion Btu							
1960	0.0	32.8	4.3	33.1	17.4	0.8	4.2	114.1	49.9	223.9	0.0	0.1	256.8	0.2	257.0
1965 1970	0.0	56.4 73.4	5.3 2.3	25.6 38.8	33.8	0.6 1.3	4.0	139.5	45.9 61.0	254.7 318.7	0.0 0.0	(s)	311.1 392.1	0.1	311.1 392.1
1970	0.0 0.0	63.0	2.3 1.5	38.8 79.0	32.6 33.9	1.3	3.3 3.2	179.5 223.5	105.8	448.0	0.0	(s) (s)	592.1 511.0	(s) (s)	592.1 511.1
1980	0.0	77.0	1.3	72.6	48.4	0.6	4.4	246.5	195.9	569.6	0.0	(s)	646.6	(s)	646.7
1985	0.0	43.9	0.9	100.0	72.0	0.4	4.0	255.2	108.6	541.0	0.8	(s)	585.8	(s)	585.8
1990	0.0	58.1	0.5	116.6	146.1	0.3	4.5	227.5	136.7	632.1 698.2	0.3	(s)	690.5	(s)	690.6
1995	0.0	66.9	0.4	145.0	163.6	0.2	4.3	242.2	142.5	698.2	0.6	(s)	765.1	(s)	765.1
1996 1997	0.0 0.0	70.8 81.2	0.4 0.5	173.5 180.5	164.6 R 172.8	0.2 0.2	4.1	261.1 240.1	160.3 122.6	764.1 R 720.9	0.2	(s)	835.0 R 000.0	(s)	835.0 R 802.2
1997	0.0	65.1	0.5 0.4	164.1	R 162.6	0.2	4.4 4.6	240.1 257.5	122.6	R 716.6	0.1 0.1	(s) (s)	R 791 9	(S) (S)	R 781.8
1999	0.0	50.4	0.4	144.7	192.9	0.1	4.6	255.9	127.3	726.5	0.1	(S)	835.0 R 802.2 R 781.8 776.9	(S)	776.9
2000	0.0	54.0	0.4	154.8	200.7		4.6	269.4	170.8	800.8		(s)	854.8	(s)	854.8
2001	0.0	49.5	1.4	171.0	195.4	(s) 0.1	4.2	267.6	64.4	704.1	(s) (s) 3.1	(s)	753.6	(s)	753.7
2002	0.0	55.0	0.3	163.1	213.6	0.3	4.1	276.3	65.4	723.2	3.1	(s)	778.2	(s)	778.2
2003	0.0	49.1	0.5	156.4	216.2	0.1	3.8	281.3	60.8	719.1	3.8	(s)	768.2 R 757.9	(s)	768.2
2004 2005	0.0 0.0	47.0 43.9	0.3 0.3	159.7 160.0	203.2 160.2	0.2 0.3	3.9 3.8	275.2 283.8	68.4 65.7	710.9 674.1	3.9 R 0.2	0.1 (s)	718.0	0.1 0.1	758.1 718.1
2005	0.0	43.9 49.8	0.3	178.4	131.9	0.3	3.8	283.8 323.8	84.2	722.5	R 0.2	(S) (S)	718.0 772.4		718.1
2007	0.0	54.0	0.1	156.7	127.1	0.2	3.9	278.8	92.9	659.7	0.5	(s)	713.7	(s) (s)	713.8

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Louisiana

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	M/ 1	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	0	120	36	22	0	58	0	0		0	0	0	0	
1960 1965	(s) 0	176	36 34 98	22 20	Ö	58 54	Ŏ	0		Ö	Ö	0	Ö	
1970 1975		332	98	58	0	156	0	0		0	0	0	0	
1975	0	356	5,699	. 88	0	5,787	0	0		0	0	0	0	
1980	0	425	7,096	1,174	0	8,270	0	0		0	0	0	0	
1985 1990	8,760 11,748	285 286	59 75	132 159	125	191 359	2,457 14,197	656		0	0	0	0	
1995	11,740	325	13	78	3,028	3,119	15,686	952		0	0	0	0	
1996	12,930 12,450	254	308	198	2,954	3,461	15,765	964		0	0	0	0	
1997	13,807	279	1,024	86	3,240	4,350	13,511	1,036		ŏ	ŏ	ŏ	Õ	
1998	13.850	320	968	82	3.253	4,302	16,428	1.063		0	0	0	0	
1999	13,916	322	592	82 51	2,940	3,584	13,112	802		0	0	0	0	
2000	15,680	305	709	341	2,771	3,820	15,796	532		0	0	0	0	
2001 2002	14,854	243 324	2,361 34	653	3,309	6,323	17,336	732		0	0	0	0	
2002	14,623	324	34	106	3,208	3,349	17,305	891		0	0	0	0	
2003	15,462	236	1,623	211	3,395	5,229	16,126	892		0	0	0	0	
2004 2005	15,975 15,790	245 285	2,971 3,038	191 144	3,357 3,311	6,519 6,493	17,080 15,676	1,099 811		0	0	0	0	
2005	16,337	196	3,036	49	3,318	3,742	16,735	713		0	0	0	0	
2007	15,453	224	469	64	3,621	4,154	17,078	827		0	0	0	0	
	<u> </u>				·	·	Trillion E	3tu						
1960	0.0	124.0	0.2	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.4
1965	(s) 0.0	182.9	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	183.3
1970	0.0	341.4	0.6	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	342.3
1975	0.0	377.1	35.8	0.5	0.0	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	413.5
1980	0.0	442.4	44.6	6.8	0.0	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	493.9
1985 1990	148.1 192.9	298.4 298.6	0.4 0.5	0.8 0.9	0.0 0.8	1.1 2.2	26.1 150.2	0.0 6.8	0.0 1.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	473.8
1990	209.0	338.4	0.5	0.9	18.2	18.8	164.8	9.8	1.3	0.0	0.0	0.0	0.0	652.1 742.2
1995	203.3	264.7	1.9	1.2	17.8	20.9	165.6	10.0	1.3	0.0	0.0	0.0	0.0 0.0	665.6
1990	224.4	288.9	6.4	0.5	19.5	26.5	141.8	10.6	1.1	0.0	0.0	0.0	0.0	693.3
1998	224.3	333.6	6.1	0.5	19.6	26.2	172.3	10.8	1.2 1.2	0.0	0.0	0.0	0.0	768.4
1999	226.8	334.7	3.7	0.3	17.7	21.7	137.0	8.2	1.3	0.0	0.0	0.0	0.0	729.7
2000	251.9	315.3	4.5	2.0	16.7	23.1	164.7	5.4	1.0	0.0	0.0	0.0	0.0	761.5
2001	238.0	252.9	14.8	3.8	19.9	38.6	181.1	7.6	0.9	0.0	0.0	0.0	0.0	719.1
2002	230.8	332.5	0.2	0.6	19.3	20.2	180.7	9.1	1.0	0.0	0.0	0.0	0.0	774.2
2003	244.8	244.1	10.2	1.2	20.5	31.9	168.1	9.1	1.1	0.0	0.0	0.0	0.0	699.0 R 737.2
2004	254.7	R 252.3	18.7	1.1	20.2	40.0	178.1	11.0	1.2	0.0	0.0	0.0	0.0	™ 737.2
2005	251.9	293.5	19.1	0.8	19.9	39.9	163.6	8.1	1.1	0.0	0.0	0.0	0.0	758.1
2006 2007	263.4 248.1	203.3 231.7	2.4 3.0	0.3 0.4	20.0 21.8	22.6 25.1	174.6 179.1	7.1 8.2	1.0 1.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	672.0 693.5
2001	Z40.1	201.7	3.0	0.4	21.0	20.1	113.1	0.2	1.3	0.0	0.0	0.0	0.0	090.0

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Maine

						Petroleum				Noodoo	I I I I I I I I I I I I I I I I I I I	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Mand	Geo- thermal,	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	Wood and Waste ^{f,g}	Solar/PV, and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ⁹
1960	794	0	7,415	1,904	442	8,378	5,408	3,265	26,811	0	2,844					
1965	316	0	9,220	1,812	550	9,131	6,340	3,079	30,132	0	2,069					
1970 1975	91 56	2	11,822 11,505	2,300 1,988	635 963	11,025 12,645	11,605 9,929	2,819 1,970	40,206 39,001	0 4,502	2,853 2,664					
1980	124	2	10,628	1,875	874	11,768	8,557	1,217	34,919	4,404	2,417					
1985	206	3	10,370	1,639	674	12,548	7,900	3,447	36,578	5,354	2,691					
1990	401	5	13,331	2,528	1,391	14,126	10,630	1,565	43,572	4,861	4,091					
1995 1996	436 390	6	14,744 14,950	841 891	1,545 1,832	14,368 14,959	9,417 9,576	2,388 3,539	43,303 45,747	198 5,062	3,354 4,157					
1997	353	6	14,666	954	1,242	15,987	9,880	3,793	46,522	0,002	3.648					
1998	291	6	15,242	R 930	1,403	15,319	8,943	4,215	R 46,053	Ö	3,716					
1999	274	7	14,913	864	1,131	16,158	11,263	3,748	48,077	0	3,756					
2000 2001	388 307	45 96	15,317	908 712	1,321	16,328	9,499 7,012	3,776	47,149 40,701	0	3,591 2.645					
2001	311	102	14,300 14,567	671	1,710 1,236	14,290 16,871	6,095	2,677 1,833	40,701	0	2,045					
2003	285	71	18,911	922	1,828	18,270	5,044	2,289	47,265	0	3,173					
2004	286	73	19,539	1,088	1,240	17,005	4,731	2,983	46,585	0	3,430					
2005	276	58	16,974	1,425	2,329	17,320	6,934	2,600	47,581	0	4,091					
2006 2007	259 251	50 45	15,610 15,882	1,790 1,765	2,109 2,807	16,996 16,773	4,543 4,075	1,837 1,676	R 42,885 42,977	0	4,278 3,738					
								Trillion Btu								
1960	20.4	0.0	43.2	10.2	1.8	44.0	34.0	19.3	152.4	0.0	30.6	29.2	0.0	-0.7	0.5	232.4
1965	8.0	0.0	53.7	9.7	2.2	48.0	39.9	18.2	171.6	0.0	21.6	30.0	0.0	0.3	0.8	232.4
1970 1975	2.2 1.3	1.3 2.0	68.9 67.0	12.5 10.8	2.4 3.6	57.9 66.4	73.0 62.4	16.7 11.9	231.3 222.1	0.0 49.6	29.9 27.7	29.5 32.7	0.0 0.0	6.8 -15.6	1.8 4.9	302.7 324.7
1980	3.0	R 2.3	61.9	10.0	3.2	61.8	53.8	7.3	198.3	48.0	25.1	96.0	0.0	-3.7	12.7	381.8
1985	5.1	2.6	60.4	8.9	2.4	65.9	49.7	21.7	209.0	56.9	28.1	107.9	0.0	11.8	2.3	423.8
1990	10.4	4.6	77.7	14.0	5.0	74.2	66.8	9.5	247.3	51.4	42.5	109.0	0.1	-5.3	7.6	467.6
1995	11.0	R 5.6	85.9	4.8	5.6	74.9	59.2	14.1	244.5	2.1	34.6	126.2	0.1	54.6	15.6	494.2
1996 1997	9.8 9.0	R 5.9 6.5	87.1 85.4	5.1 5.4	6.6 4.5	78.0 83.3	60.2 62.1	20.2 21.9	257.2 262.6	53.2 0.0	43.0 37.3	124.1 124.5	0.1 0.1	1.0 56.4	14.6 11.7	508.9 508.0
1998	7.3	5.8	88.8	5.3	5.1	79.8	56.2	24.0	259.2	0.0	37.3 37.9	113.2	0.1	44.3	13.4	R 481.3
1999	6.9	R 6.7	86.9	4.9	4.1	84.2	70.8	21.4	272.2	0.0	38.4	120.7	0.1	28.9	13.1	487.1
2000	10.0	48.0	89.2	5.1	4.8	85.1	59.7	21.5	265.4	0.0	36.6	126.4	0.1	19.5	13.1	519.2
2001 2002	7.9	101.2	83.3 84.9	4.0	6.2	74.4 87.9	44.1	15.7	227.8 230.2	0.0	27.3 28.2	118.7	0.1	-23.5 -34.6	9.6	469.1
2002	8.0 7.5	107.8 75.1	84.9 110.2	3.8 5.2	4.5 6.6	87.9 95.1	38.3 31.7	10.9 13.5	230.2 262.4	0.0 0.0	28.2 32.5	112.1 100.1	0.1 0.1	-34.b -10.6	7.1 8.3	459.0 475.3
2003	7.3	76.3	113.8	6.2	4.5	88.7	29.7	17.7	260.6	0.0	34.4	102.3	0.1	-16.0	13.0	477.9
2005	7.1	61.1	98.9	8.1	8.4	90.4	43.6	15.2	264.5	0.0	40.9	R 114.2	0.1	-20.7	13.7	R 480.9
2006	6.6	53.3	90.9	10.1	7.6	88.7	28.6	10.5	236.4	0.0	42.4	R 108.1	0.2	-1.3	10.9	R 456.5
2007	6.6	47.9	92.5	10.0	10.1	87.5	25.6	9.9	235.6	0.0	36.9	115.5	1.2	0.4	11.5	455.6

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maine

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	122	0	4,727	2,091	342	7,160	426			993			
1965	71	Ō	6,139	1,691	381	8,210	322			1,224			
1970	24	1	7,877	1,649	383	9,909	222			1,723			
1975	7	1	7,646	932	604	9,182	292			2,487			
1980	5		6,372	405 910	395	7,173	478			2,998			
1985	11	1	5,451	910	348	6,709	338			3,419			
1990 1995	9	1	5,987 7,627	563 1,089	863 1,120	7,412 9,836	215 235			3,932 3,629			
1995	(s) (s)	1	7,549	1,370	1,315	10,234	244			3,679			
1997	(s)	1	7,407	1,310	971	9,688	177			3,659			
1998	(s)	i	7,553	1,880	1,074	10,507	157			3,589			
1999	(s)	1	7.443	1.539	948	9,930	165			3,704			
2000	(s)	1	6,957	1,681	1,046	9,684	178			3,737			
2001	(s)	1	6,850	1,674	1,284	9,809	144			3,903			
2002	(s)	1	6,749	1,002	789	8,540	146			4,043			
2003	(s)	1	8,830	1,392	1,471	11,693	153			4,219			
2004 2005	(s)	1	9,881 8,428	1,740 1,711	1,023	12,644	157 R 111			4,331 4,503			
2006	(s) (s)	1	7,431	1,391	1,735 R 1,459	11,874 R 10,281	R 101			4,351			
2007	(s)	i	7,253	957	2,136	10,346	111			4,413			
						Tı	rillion Btu						
1960	3.0	0.0	27.5	11.9	1.4	40.8	8.5	0.0	0.0	3.4 4.2	55.7	8.4	64.1
1965	1.8	0.0	35.8	9.6	1.5	46.9	6.4	0.0	0.0	4.2	59.2	10.0	69.2
1970	0.6	0.5	45.9	9.4	1.4	56.7	4.4	0.0	0.0	5.9	68.1	14.2	82.3
1975 1980	0.2 0.1	0.7 R 0.6	44.5 37.1	5.3 2.3	2.2 1.5	52.1	5.8 9.6	0.0	0.0	8.5	67.3	20.4 24.7	87.7
1980	0.1	0.5	31.8	2.3 5.2	1.3	40.9 38.2	6.8	0.0 0.0	0.0 0.0	10.2 11.7	61.3 57.4	24.7	86.0 84.3
1990	0.3	0.5	34.9	3.2	3.1	41.2	4.3	0.0	0.0	13.4	59.9	31.0	90.9
1995	(s)	0.9	44.4	6.2	4.1	54.7	4.7	0.0	0.1	12.4	72.8	28.1	100.9
1996	(s)	1.0	44.0	6.2 7.8	4.8	54.7 56.5	4.9	0.0 0.0	0.1	12.6	75.0	28.5	103.6
1997	(s)	1.0	43.1	7.4	3.5	54.1	3.5	0.0	0.1	12.5	71.3	28.3	99.5
1998	(s)	0.9	44.0	10.7	3.9	58.5	3.1	0.0	0.1	12.2	75.0	27.8	102.8
1999	(s)	1.0	43.4	8.7	3.4	55.5	3.3	(s)	0.1	12.6	72.6	28.9	101.5
2000	(s)	1.2	40.5	9.5	3.8	53.8	3.6	(s)	0.1	12.7	71.5	29.0	100.5
2001	(s)	1.1	39.9	9.5	4.6	54.0	2.9	(s)	0.1	13.3	71.5	29.7	101.2
2002	(s)	1.3	39.3	5.7	2.9	47.8	2.9	(s)	0.1	13.8	66.0	30.8	96.8
2003 2004	(s)	1.5 1.3	51.4 57.6	7.9 9.9	5.3 3.7	64.7 71.1	3.1	(s)	0.1 0.1	14.4 14.8	83.7 _ 90.5	31.8 32.7	115.5
2004	(s) (s)	1.3	57.6 49.1	9.9 9.7	5.7 6.2	_ 65.1	3.1 R 2.2	(S)	0.1	15.4	R 84.0	33.6	123.2 R 117.6 R 106.7
2005	(s)	1.2	43.1	7.9	6.3 R 5.3	R 56.4	R 2.2	(s) (s)	0.1	14.8	R 74.6	32.1	R 106.7
2007	(s)	1.1 1.3	43.3 42.2	5.4	7.7	55.3	R 2.0 2.2	(s)	0.2	15.1	74.1	32.5	106.6

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maine

			Petroleum							Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year S	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	84	0	996	100	60	29	145	1,331	0			542			
1965	84 54	0	1,294	81	60 67	34	72	1.549	0			819			
1970	19	(s)	1,660	79	68	40	292	2,139	0			975			
1975 1980	17 20	1	1,611 1,840	45 70	107 70	40 48	334 682	2,136 2,710	0			1,568 1,717			
1985	38	1	1,040	99	61	104	1,040	2,710	0			2,338			
1990	34	2	2,006	68	152	101	2,137	4,463	0			2,847			
1995	3	2	2,285	161	198	12	369	3,025	0			2,973			
1996	4	3	2,424	148	232	12 12	508	3,323	0			3,276			
1997	4	3	2,351	157	171	12	587	3,278	0			3,343			
1998 1999	3	2	2,748 2,792	242 135	190 167	12 12	281 109	3,473 3,214	0			3,388 3,553			
2000	3	3	3,223	136	185	12	253	3,809	0			3,876			
2001	3	3	2,516	152	227	12	187	3,094	0			3,836			
2002	2	5	2,721	112	139	12	396	3,381	0			3,848			
2003	2	5	3,670	161	260	20	319	4,428	0			3,959			
2004	2	5	3,478	251	181	24	348	4,282	0			4,325			
2005 2006	3	5 5	2,882 2,608	217 150	306 R 257	14 31	494 280	3,913 R 3,326	0			4,157 4,134			
2007	2	6	2,931	117	377	48	408	3,880	0			4,195			
			· · · · · · · · · · · · · · · · · · ·					Trillion Btu				,			
1960	2.1	0.0	5.8	0.6	0.2	0.2	0.9	7.7	0.0	0.2	0.0	1.9	11.8	4.6	16.4
1965	1.3	0.0	7.5	0.5	0.3	0.2	0.5	8.9	0.0	0.1	0.0	2.8	13.1	6.7	19.8
1970	0.4	0.4	9.7	0.4	0.3	0.2	1.8	12.4	0.0	0.1	0.0	3.3	16.7	8.1	24.8
1975	0.4	0.5	9.4	0.3	0.4	0.2	2.1	12.3	0.0	0.1	0.0	5.3	18.7	12.9	31.6
1980	0.5	R 0.9	10.7	0.4	0.3	0.3 0.5	4.3 6.5	15.9	0.0	0.2	0.0	5.9	23.3 24.4	14.1 18.4	37.4
1985 1990	0.9 0.9	1.2 1.7	6.3 11.7	0.6 0.4	0.2 0.6	0.5	13.4	14.2 26.6	0.0 0.0	0.2 3.1	0.0 0.0	8.0 9.7	24.4 41.9	22.5	42.8 64.4
1995	0.3	R 2.5	13.3	0.9	0.7	0.1	2.3	17.3	0.0	4.0	0.0	10.1	34.0	23.0	57.0
1996	0.1	2.6	14.1	0.8	0.8	0.1	3.2	19.0	0.0	3.9	0.0	11.2	36.8	25.4	62.2
1997	0.1	R 2.8	13.7	0.9	0.6	0.1	3.7	19.0	0.0	3.9	0.0	11.4	37.0	25.8	62.9
1998	0.1	2.5	16.0	1.4	0.7	0.1	1.8	19.9	0.0	3.8	0.0	11.6	37.8	26.2	64.0
1999	0.1	2.6	16.3	0.8	0.6	0.1	0.7	18.4	0.0	3.6	0.0	12.1	36.7	27.7	64.4
2000 2001	0.1 0.1	3.2 3.1	18.8 14.7	0.8 0.9	0.7 0.8	0.1 0.1	1.6 1.2	21.9 17.6	0.0 0.0	3.5 2.1	0.0 0.0	13.2 13.1	41.9 36.0	30.1 29.2	71.9 65.2
2001		6.5	15.9	0.9	0.6	0.1	2.5	19.5	0.0	2.1	0.0	13.1	41.6	29.3	70.9
2003	(s) (s)	5.7	21.4	0.9	0.9	0.1	2.0	25.3	0.0	2.4	0.0	13.5	47.0	29.8	76.8
2004	(s) 0.1	5.4	20.3	1.4	0.7	0.1	2.2	24.7	0.0	2.2	0.0	14.8	_ 47.1	32.7	79.8
2005		5.2	16.8	1.2	1.1	0.1	3.1	22.3	0.0	R 2.1	0.0	14.2	R 43.8	31.0	R 74.9
2006	0.1	5.4	15.2	0.8 0.7	0.9	0.2 0.3	1.8	18.9	0.0	R 2.1	0.0	14.1	R 40.6	30.5	R 71.1
2007	0.1	6.5	17.1	0.7	1.4	0.3	2.6	21.9	0.0	2.1	0.0	14.3	44.9	30.9	75.7

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maine

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	562	0	402	38	166	2,639	884	4,130	906			1,246			
1965 1970	191 48	0 (s)	500 805	100 182	145 137	1,270 5,128	1,103 883	3,117 7,134	697 940			1,715 2,370			
1975	32	(5)	682	250	79	5,126	814	7,134	832			2,477			
1980	99	i	762	400	76	4,047	528	5,812	974			3,470			
1985	157	1	509	249	124	3,407	2,278	6,567	974			4,067			
1990	222	2	841	358	94	4,789	738	6,821	1,344			4,750			
1995	279	2 2	1,201	216		7,378	729	9,693	1,155			4,959			
1996	230	2	1,336	278	176	7,722	1,602	11,115	1,378			4,772			
1997	190	3	1,253	87	179	6,682	1,909	10,109	1,285			4,957			
1998 1999	138 117	2 3	1,352 1,033	133 11	117 86	5,423 5,281	1,665 1,643	8,690 8,054	1,299 1,303			4,622 4,687			
2000	219	13	969	89	87	5,315	1,657	8,118	1,303			4,551			
2001	124	11	798	198	216	4,419	666	6,297	935			4,413			
2002	88	4	818	307	228	4,156	558	6,068	937			3,550			
2003	119	3	1,258	87	241	2,706	583	4,875	1,022			3,793			
2004	116	3	1,484	28	281	3,155	842	5.792	563			3,711			
2005	127	3	1,059	_ 278	265	3,972	517	6,091 R 4,914	625			3,702			
2006	109	3	820	R 385	292	3,287	131	K 4,914	779			3,800			
2007	112	3	950	287	261	2,772	434	4,703	694			3,252			
							Tr	Ilion Btu							
1960	14.5	0.0	2.3	0.2		16.6	5.7	25.7	9.7	20.5	0.0		74.7	10.5	85.3
1965	4.9	0.0	2.9	0.4	0.8	8.0	7.0	19.0	7.3	23.5	0.0		60.6	14.0	74.5
1970	1.2	0.4	4.7	0.7	0.7	32.2	5.7	44.0	9.9	25.0	0.0	8.1	88.4	19.6	108.0
1975	0.8	0.7 R 0.8	4.0	0.9	0.4	36.8	5.3	47.4	8.7	26.8	0.0	8.5	92.7	20.3	113.1
1980 1985	2.4 3.9	0.8	4.4 3.0	1.5 0.9	0.4 0.7	25.4 21.4	3.4 15.0	35.2 41.0	10.1 10.2	86.2 101.0	0.0	11.8 13.9	146.5 170.8	28.5 32.0	175.0 202.8
1985	5.5	2.0	4.9	1.3	0.7	30.1	4.8	41.6	14.0	80.1	0.0	16.2	159.5	37.5	197.0
1995	7.0	2.0	7.0	0.8		46.4	4.6	59.6	11.9	98.4	0.0	16.9	195.8	38.4	234.2
1996	5.8	2.2	7.8	1.0	0.9	48.6	9.1	67.4	14.2	94.8	0.0	16.3	200.7	37.0	237.7
1997	4.7	R 2.2	7.3	0.3		42.0	11.0	61.6	13.1	97.6	0.0	16.9	196.5	38.3	234.8
1998	3.4	2.3	7.9	0.5	0.6	34.1	9.4	52.5	13.2	83.5	0.0	15.8	170.7	35.8	206.5
1999	2.9	2.6	6.0	(s) 0.3	0.4	33.2	9.3	49.0	13.3	88.9	0.0	16.0	172.7	36.6	209.3
2000	5.7	15.0	5.6	0.3	0.5	33.4	9.4	49.2	13.2	92.8	0.0	15.5	191.4	35.3	226.8
2001	3.2	12.9	4.6	0.7	1.1	27.8	4.3	38.6	9.7	82.7	0.0	15.1	162.1	33.6	195.6
2002	2.3 3.1	4.6 4.0	4.8 7.3	1.1 0.3	1.2 1.3	26.1	3.6	36.8 29.7	9.5	76.6 64.1	0.0	12.1 12.9	142.0	27.0 28.6	169.0 152.8
2003 2004	3.1	4.0 3.0	7.3 8.6	0.3	1.3 1.5	17.0 19.8	3.8 5.5	29.7 35.6	10.5 5.6	64.1 65.4	0.0 0.0	12.9	124.3 R 125.3	28.6 28.0	152.8 153.3
2004	3.0	2.9	6.2	1.0	1.1	25.0	3.3		6.2	67.8	0.0	12.7	120 6	27.6	_ 157.2
2005	2.2	3.6	4.8	R 1.4	1.4	20.7	0.8	36.8 R 29.1	7.7	63.1	0.0	13.0	R 119.3	28.0	R 147.4
2007	2.8 2.9	3.4	5.5	1.0	1.4	17.4	2.8	28.2	6.9	70.3	0.0		122.7	23.9	146.7

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maine

						Pe	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses ⁹	Total ^{e,f}
1960	10	0	57	1,251	1,904	1	133	8,183	776	12,305	0	0			
1965	1	0	89	1,199	1,812	2	116	8,952	625	12,794	0	0			
1970	(s)	0	93 71	1,385	2,300	3	114	10,848	1,415	16,158	0	0			
1975 1980	(s) 0	(s)	82	1,524 1,593	1,988 1,875	3 9	108 132	12,526 11,644	934 209	17,155 15,544	0	0			
1985	0	(s)	41	3,300	1,639	15	120	12,320	21	17,455	0	0			
1990	0	(s)	62 35	4.474	2,528	17	135	13,931	147	21,295	0	0			
1995	0	(s)	35	3,598	841	11	129	14,187	204	19,004	0	0			
1996	0	(s)	28	3,624	891	7	125	14,771	202	19,648 R 20,673	0	(s)			
1997 1998	0	(s) (s)	36 25	3,634 3,572	954 R 930	13 6	132 138	15,796 15,190	107 281	R 20,142	0	(s) (s)			
1999	0	(s)	34	3,617	864	5	140	16,061	187	20,908	0	(s)			
2000	Ö	1	25	4,126	908	1	138	16,229	697	22,122	Ő	(s)			
2001	0	1	58	4,128	712	(s)	126	14,062	544	19,630	0	(s)			
2002	0	1	37	4,228	671	1	124	16,631	832	22,524	0	(s)			
2003 2004	0	1	38 33	5,022 4,566	922 1,088	11 8	115 117	18,010 16,699	3 27	24,121 22,537	0	(s) (s)			
2004	0	1	40	4,576	1,425	9	116	17.040	950	24,157	R 108	(s)			
2006	ő	(s)	52	4,734	1,790	8	113	16,674	817	24,189	R 159	(s)			
2007	0	<u>`1</u>	51	4,722	1,765	7	117	16,464	198	23,325	227	`Ó			
								Trillion Btu							
1960	0.2	0.0	0.3	7.3	10.2	(s)	0.8	43.0	4.9	66.4	0.0	0.0	66.7	0.0	66.7
1965 1970	(s)	0.0	0.4	7.0 8.1	9.7	(s)	0.7	47.0 57.0	3.9 8.9	68.8 87.6	0.0	0.0	68.8 87.6	0.0	68.8
1970	(s)	0.0 0.0	0.5 0.4	8.1	12.5 10.8	(s) (s)	0.7 0.7	57.0 65.8	8.9 5.9	87.6 92.4	0.0 0.0	0.0 0.0	87.6 92.4	0.0 0.0	87.6 92.4
1980	(s) 0.0	0.0	0.4	9.3	10.2	(s)	0.7	61.2	1.3	83.2	0.0	0.0	83.3	0.0	83.3
1985	0.0	(s)	0.2	19.2	8.9	0.1	0.7	64.7	0.1	94.0	0.0	0.0	94.0	0.0	94.0
1990	0.0	(s)	0.3	26.1	14.0	0.1	0.8	73.2	0.9	115.4	0.0	0.0	115.4	0.0	115.4
1995	0.0	0.1	0.2	21.0	4.8	(s)	0.8	74.0	1.3	102.0	0.0	0.0	102.1	0.0	102.1
1996 1997	0.0 0.0	(s) 0.1	0.1 0.2	21.1 21.2	5.1 5.4	(s)	0.8 0.8	77.0 82.3	1.3 0.7	105.4 110.6	0.0 0.0	(s)	105.4 R 110.8	(s)	105.4 R 110.8
1997	0.0	(s)	0.2	20.8	5.4 5.3	(s) (s)	0.8	82.3 79.2	1.8	10.6	0.0	(s) (s)	108.0	(s) (s)	108.0
1999	0.0	(s)	0.1	21.1	4.9	(s)	0.8	83.7	1.2	111.9	0.0	(s)	111.9	(s)	111.9
2000	0.0	0.9	0.1	24.0	5.1	(s)	0.8	84.6	4.4	119.1	0.0	(s)	120.0	(s)	120.0
2001	0.0	1.4	0.3	24.0	4.0	(s)	0.8	73.3	3.4	105.8	0.0	(s)	107.2	(s)	107.2
2002	0.0	1.1	0.2	24.6	3.8	(s)	0.8	86.6	5.2	121.2	0.0	(s)	122.3	(s)	122.3
2003 2004	0.0 0.0	1.0 0.7	0.2 0.2	29.3 26.6	5.2 6.2	(s)	0.7 0.7	93.8 87.1	(s) 0.2	129.2 120.9	0.0 0.0	(s)	130.2 121.7	(s)	130.2 121.7
2004	0.0	0.7	0.2	26.7	8.1	(s) (s)	0.7	88.9	6.0	130.6	R 0.4	(s) (s)	131.7	(s) (s)	131.2
2006	0.0	0.6	0.3	27.6	10.1	(s)	0.7	87.0	5.1	130.8	R 0.6	(s)	131.4	(s)	131.4
2007	0.0	0.8	0.3	27.6 27.5	10.0	(s)	0.7	85.9	1.2	125.7	0.8	0.0	126.5	0.0	126.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Maine

Col Col Col Col Col					Petro	oleum				Biomass					
Thousand Short Post Thousand Barrels Thousand Barrels Million Kilowatthours Maste e.f. Million Kilowatthours Total f.		Coal	Natural Gas ^a	Residual Fuel Oil ^b			Total		Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
1965 0 0 0 4,373 89 0 4,462 0 1,372 0 0 0 0 221 1970 0 0 0 4,770 95 0 4,865 50 1,913 0 0 0 0 5,66 1970 0 0 0 2,812 42 0 0 2,854 4,502 1,832 0 0 0 0 0 3,63 1970 0 0 0 3,432 98 0 3,861 4,561 7,718 0 0 0 0 3,63 1990 136 (s) 3,457 23 0 3,881 4,861 2,746 0 0 0 0 0 2,224 1990 136 (s) 3,457 23 0 3,881 4,861 2,746 0 0 0 0 0 2,224 1990 156 (s) 1,146 18 18 265 1,427 5,062 2,780 0 0 0 0 0 4,596 1996 156 (s) 1,144 18 265 1,427 5,062 2,780 0 0 0 0 0 3,433 1996 156 (s) 1,144 18 265 2,747 5,062 2,780 0 0 0 0 0 3,433 1996 159 (s) 2,588 21 225 2,771 0 0 2,383 0 0 0 0 3,433 1996 159 (s) 2,588 21 225 2,771 0 0 2,383 0 0 0 0 3,433 1996 159 (s) 2,588 21 225 2,771 0 0 2,383 0 0 0 0 3,433 1996 159 (s) 2,588 21 225 2,771 0 0 2,383 0 0 0 0 3,433 1996 159 (s) 2,588 21 225 2,771 0 0 2,383 0 0 0 0 3,433 1990 154 (s) 2,588 21 25 2,771 0 0 2,383 0 0 0 0 3,433 1990 154 (s) 2,588 21 25 2,771 0 0 2,453 0 0 0 0 3,433 1990 154 (s) 2,588 21 25 2,771 0 0 2,453 0 0 0 0 3,853 1990 154 (s) 3,495 0 0 0 0 0 0 0 3,853 1990 154 (s) 4,582 8 0 1,570 0 1,710 0 0 0 0 2,281 2001 180 80 1,862 8 0 1,570 0 760 0 1,313 0 0 0 0 2,281 2002 221 91 711 50 0 760 0 1,313 0 0 0 0 0 2,281 2004 164 61 2,017 131 0 0 2,148 0 2,155 0 0 0 0 0 0 3,853 2005 147 40 1518 28 0 1,571 0 1,571 0 0 1,751 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year				Thousan	d Barrels		Million Ki	lowatthours	and		Million Kile	owatthours		Total ^{f,i}
1985 0 0 0 4,373 89 0 4,462 0 1,372 0 0 0 0 221 1970 0 0 0 4,770 95 0 4,865 50 1,1813 0 0 0 0 556 1970 0 0 0 2,70 4 0 0 0 2,82 42 0 0 2,84 45 4,50 1,1813 0 0 0 0 0 1,346 1970 0 0 0 3,432 28 0 3,861 5,384 4,504 1,1748 0 0 0 0 0 3,489 1990 136 (s) 3,557 23 0 3,581 4,861 2,746 0 0 0 0 0 2,224 1990 136 (s) 3,557 23 0 3,581 4,861 2,746 0 0 0 0 0 2,224 1990 156 (s) 1,144 18 28 265 1,427 5,062 2,780 0 0 0 0 0 4,296 1990 156 (s) 1,144 18 265 1,427 5,062 2,780 0 0 0 0 3,433 1990 158 (s) 2,323 21 250 2,777 00 2,337 0 0 0 0 3,433 1990 159 159 (s) 1,144 198 2,746 198 2,199 0 0 0 0 3,433 1990 159 159 (s) 1,144 198 2,199 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,337 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,337 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,337 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,337 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,435 0 0 0 0 3,433 1990 159 159 (s) 2,773 00 2,435 0 0 0 0 3,433 1990 159 159 159 159 159 159 159 159 159 159	1960	17	0	1,847	38	0	1,885	0	1,939		0	0	0	149	
1975 0 0 0 2,812 42 0 2,854 4,502 1,832 0 0 0 0 1,436 1980 0 0 0 3,620 61 0 3,868 4,040 1,443 0 0 0 0 3,759 1985 0 0 0 3,432 28 0 3,481 4,851 1,718 0 0 0 0 0,224 1986 136 (8) 3,568 23 24 3,581 4,861 2,746 0 0 0 0 2,224 1986 146 (8) 3,566 23 24 3,581 4,861 2,746 0 0 0 0 2,224 1986 156 (9) 1,144 18 226 1,427 5,862 2,780 0 0 0 0 4,226 1996 156 (9) 1,144 18 265 1,427 5,862 2,780 0 0 0 0 4,236 1998 150 (8) 2,988 17 265 3,240 0 2,417 0 0 0 0 3,441 1999 154 1 5,666 27 2,58 5,571 0 2,453 0 0 0 3,853 2000 165 27 3,235 41 139 3,415 0 2,295 0 0 0 0 3,853 2000 165 27 3,235 41 139 3,415 0 2,295 0 0 0 0 3,853 2002 22 8 91 711 50 0 0 1,870 0 1,710 0 0 0 2,222 2002 22 8 91 711 50 0 0 1,870 0 1,870 2004 168 63 2,211 130 0 0 2,34 10 0 2,45 10 2005 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 0 2,089 2006 147 40 158 17 0 1,576 0 3,466 0 0 0 0 0,385 2007 136 34 697 26 0 7,23 0 3,044 0 0 0 0 0 0,385 2008 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 0,385 2009 158 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1965		0	4.373	89	•	4.462		1 372		•			221	
1980 0 0 0 3,620 61 0 3,680 4,404 1,443 0 0 0 0 3,759 1980 136 (s) 3,357 23 0 3,461 5,354 1,718 0 0 0 0 6,87 1990 136 (s) 3,557 23 0 3,581 4,861 2,746 0 0 0 0 0,2224 1995 154 (s) 1,466 33 245 1,744 198 2,199 0 0 0 0 4,596 1987 155 (s) 1,144 18 2,265 1,427 5,662 2,780 0 0 0 0 4,286 1988 155 (s) 1,144 18 2,265 1,427 5,662 2,780 0 0 0 0 4,286 1989 154 (s) 1,668 27 2,258 5,247 5,662 2,780 0 0 0 0 0 4,286 1989 154 (s) 1,668 27 2,258 5,271 0 0 2,417 0 0 0 0 3,441 1989 154 (s) 1,668 27 2,258 5,571 0 0 2,453 0 0 0 0 3,853 2000 165 27 3,255 41 258 5,571 0 2,453 0 0 0 0 3,853 2001 180 80 1,862 8 0 1,870 0 1,710 0 0 0 0 3,853 2002 221 91 711 50 0 760 0 1,710 0 0 0 0 2,221 2003 164 61 2,017 131 0 2,148 0 2,150 0 0 0 0 2,439 2004 168 63 1,201 130 0 1,343 0 2,168 0 2005 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 2,439 2006 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 0 3,788 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 0 3,853 2007 137 34 697 26 0 723 0 3,044 0 0 0 0 1,831 2007 137 34 697 26 0 723 0 3,044 0 0 0 0 0 1,8 52 1980 0 0 0 0 0 1,8 52 1980 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1970		0	4,770	95	•	4,865		1,913		•	•		516	
1985 0 0 3,432 28 0 3,461 5,354 1,718 0 0 0 0 687 1990 136 (s) 3,557 23 0 3,581 4,861 2,746 0 0 0 0 0 2,224 1995 154 (s) 1,466 33 245 1,744 198 2,199 0 0 0 0 0 4,596 1996 156 (s) 1,144 18 265 1,427 5,062 2,780 0 0 0 0 0 4,296 1997 159 (s) 2,503 21 250 2,774 0 2,383 0 0 0 0 3,433 1998 150 (s) 2,503 21 250 2,774 0 2,383 0 0 0 0 3,433 1998 150 (s) 2,585 17 255 3,240 0 2,417 0 0 0 0 0 3,433 1998 156 5 7 3,585 27 2,595 5,971 0 2,295 0 0 0 0 3,433 1999 156 7 5,588 27 2,259 5,971 0 2,295 0 0 0 0 3,853 2001 160 80 162 8 0 0 1,710 0 0 0 0 0 0,3853 2002 221 91 711 50 0 760 0 1,710 0 0 0 0 0 2,281 2003 164 61 2,017 131 0 2,148 0 0 1,710 0 0 0 0 0 0 2,285 2004 168 63 1,201 130 0 1,331 0 2,667 0 0 0 0 0 2,285 2005 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 0,3,798 2006 147 40 158 17 0 175 0 3,499 0 0 0 0 3,183 2006 147 40 158 17 0 175 0 3,499 0 0 0 0 0,3,83 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 0 0,3,83 2007 136 34 697 26 0 723 0 3,499 0 0 0 0 0,3,83 2007 136 34 697 26 0 723 0 3,499 0 0 0 0 0,3,83 2007 136 34 697 26 0 723 0 0,0 1,4 0 0,0 0 0 0 0 0,0 0 0	1975			2,812	42	0	2,854	4,502	1,832		•	•		1,436	
1990 136 (s) 3.557 23 0 3.581 4.861 2.746 0 0 0 2.224 1996 154 (s) 1.466 33 2.45 1.744 198 2.199 0 0 0 0 4.996 1996 156 (s) 1.144 18 2.85 1.427 5.062 2.780 0 0 0 0 4.296 1997 159 (s) 2.503 21 250 2.774 0 2.383 0 0 0 0 3.343 1998 150 (s) 2.958 17 2.85 3.240 0 2.413 0 0 0 0 3.344 1998 150 (s) 2.958 17 2.85 3.240 0 2.413 0 0 0 0 3.344 1990 165 2.7 3.85 41 139 4.15 0 2.435 0 0 0 0 2.221 2001 180 80 1.662 8 0 1.870 0 1.710 0 0 0 2.261 2002 221 91 711 50 0 760 0 1.831 0 0 0 2.265 2003 164 61 2.017 131 0 2.148 0 2.150 0 0 0 2.439 2004 168 63 1.201 130 0 1.331 0 2.867 0 0 0 0 2.439 2005 146 49 1.518 2.8 0 1.546 0 3.466 0 0 0 0 3.361 2006 147 40 155 17 0 175 0 3.499 0 0 0 0 0 3.361 2007 136 34 697 26 0 723 0 3.044 0 0 0 0 0 3.361 2008 147 40 155 17 0 175 0 3.499 0 0 0 0 0 0 3.362 2006 147 40 155 17 0 175 0 3.499 0 0 0 0 0 0 0 3.362 2007 136 34 697 26 0 723 0 3.044 0 0 0 0 0 0 0 0	1980		0	3,620							-	0		3,759	
1995 154 (s) 1.466 33 245 1.744 198 2.199 0 0 0 4.596 1996 156 (s) 1.144 18 265 1.427 5.062 2.780 0 0 0 0 4.296 1997 159 (s) 2.503 21 250 2.774 0 2.363 0 0 0 0 3.433 1998 154 1 5.686 27 256 3.240 0 2.417 0 0 0 0 3.853 1999 154 1 5.686 27 256 5.971 0 2.2453 0 0 0 0 3.853 1990 165 2.78 0 0 0 0 0 0 0 0 3.855 1900 165 2.78 0 0 0 0 0 0 0 0 0	1985		(0)	3,432	28	•		5,354	1,718		•	0			
1996 156 (s)	1990	150		3,337 1.466	23 33		1 744		2,740		•	•		2,22 4 4 596	
1997 159 (s) 2,503 21 250 2,774 0 2,363 0 0 0 0 3,433 1998 150 (s) 2,958 17 265 3,240 0 2,417 0 0 0 0 3,431 1999 154 1 5,686 27 258 5,971 0 2,453 0 0 0 0 3,855 2000 165 27 3,235 41 139 3,415 0 2,295 0 0 0 0 3,853 2001 180 80 1,862 8 0 1,870 0 1,710 0 0 0 0 2,821 2002 221 91 711 50 0 760 0 1,831 0 0 0 0 2,821 2003 164 61 2,017 131 0 2,148 0 2,150 0 0 0 0 2,439 2004 168 63 1,201 130 0 1,341 0 2,867 0 0 0 0 3,789 2005 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 3,183 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 3,163 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 0 1,83 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 0 1,8 3,19 1970 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1996	156	(s)	1,400	18	265	1,744	5 062	2,133		-	0			
1998 150 (s) 2.958 17 265 3.240 0 2.417 0 0 0 3.941 1999 154 1 5.686 27 3.235 41 139 3.415 0 2.285 0 0 0 0 3.853 2000 165 27 3.235 41 139 3.415 0 2.295 0 0 0 0 3.855 2001 180 80 1.862 8 0 1.870 0 1.710 0 0 0 0 2.821 2002 221 91 711 50 0 760 0 1.831 0 0 0 0 2.439 2003 164 61 2.017 131 0 2.148 0 2.150 0 0 0 0 2.439 2004 188 63 1.201 130 0 1.331 0 2.867 0 0 0 0 3.798 2005 146 49 1.518 28 0 1.546 0 3.466 0 0 0 0 3.798 2006 147 40 158 17 0 175 0 3.499 0 0 0 0 3.853 2007 136 34 697 26 0 7723 0 3.499 0 0 0 0 0 3.853 1960 0.5 0.0 11.6 0.2 0.0 11.8 0.0 2.9 0.0 0.0 0.0 0.0 0.5 33.7 1970 0.0 0.0 2.75 0.5 0.0 28.0 0.0 14.3 0.0 0.0 0.0 0.0 0.8 43.1 1970 0.0 0.0 0.0 2.75 0.5 0.0 28.0 0.0 14.3 0.0 0.0 0.0 0.0 0.8 43.1 1970 0.0 0.0 0.0 2.28 0.4 0.0 23.1 48.0 15.0 0.0 0.0 0.0 0.0 0.0 1.8 52.4 1980 0.0 0.0 0.0 22.8 0.4 0.0 23.1 48.0 15.0 0.0 0.0 0.0 0.0 0.2 3.98.9 1990 3.8 0.2 22.4 0.1 0.0 22.5 51.4 28.6 21.5 0.0 0.0 0.0 0.1 2.3 98.9 1990 3.8 0.2 22.4 0.1 0.0 22.5 51.4 28.6 21.5 0.0 0.0 0.0 1.7 74.5 1996 4.0 8.0 7.7 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 0.1 1.7 74.5 1996 4.0 8.0 7.7 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 0.0 1.3 1.5 1.6 1.5	1997	159	(s)	2.503		250	2.774		2.363			ŏ		3.433	
1999	1998	150		2.958				0	2.417		0	0	Ö	3.941	
2001 180 80 1,862 8 0 1,870 0 1,710 0 0 0 2,821 2002 221 91 711 50 0 760 0 1,831 0 0 0 0 2,485 2003 164 61 2,017 131 0 2,148 0 2,150 0 0 0 0 2,439 2004 168 63 1,201 130 0 0 1,331 0 2,867 0 0 0 0 3,499 2005 146 49 1,518 28 0 1,546 0 3,466 0 0 0 0 3,493 2006 147 40 158 17 0 1,546 0 3,466 0 0 0 0 3,493 2007 136 34 697 26 0 723 0 3,044 0 0 9 3,365 2007 136 34 697 26 0 723 0 3,044 0 0 0 0 3,365 2008 147 40 158 17 0 1,546 0 3,499 0 0 0 0 3,483 2007 136 34 697 26 0 723 0 3,044 0 0 0 99 3,365 2008 147 40 158 17 0 1,546 0 0 0,0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1999	154	1	5,686	27	258	5,971	0	2.453		0	0	0	3,853	
2002 221 91 711 50 0 760 0 1.831 0 0 0 0 2.085 0.000 1 1.831 0 2.148 0 2.150 0 0 0 0 2.439 0.000 1 1.88 63 1.201 130 0 1331 0 2.867 0 0 0 0 0 3.788 0.000 1 1.88 63 1.201 130 0 1.331 0 2.867 0 0 0 0 0 3.788 0.000 1 1.84 64 9 1.518 28 0 1.546 0 3.466 0 0 0 0 0 0 4.023 0.000 1 1.87 1.000 1 1.85 1.7 0 1.75 0 3.499 0 0 0 0 0 3.183 0.000 1 1.85 1.7 0 1.75 0 3.499 0 0 0 0 0 3.183 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.86 0.000 1 1.87 1.000 1 1.86 0.000 1 1.87 1.800 1	2000	165		3,235			3,415	0	2,295		0	0		3,855	
2003	2001	180	80	1,862	8		1,870		1,710			•		2,821	
2005	2002					0		0			•	•			
2005	2003	164			131	U		•	2,150		•	•		2,439	
2006	2004		63	1,201		0	1,331	0	2,867		•	0	•	3,798	
Trillion Btu 1960	2005		49	1,010		0	1,040	0	3,400			0		4,023 3.193	
1960	2007	136	34	697	26		723		3,044					3,365	
1965 0.0 0.0 27.5 0.5 0.0 28.0 0.0 14.3 0.0								Trillion E	Btu						
1970 0.0 30.0 0.6 0.0 30.5 0.0 20.1 0.0 0.0 0.0 0.0 1.8 52.4 1975 0.0 0.0 17.7 0.2 0.0 17.9 49.6 19.1 0.0 0.0 0.0 0.0 4.9 91.5 1980 0.0 0.0 22.8 0.4 0.0 23.1 48.0 15.0 0.0 0.0 0.0 0.0 21.8 99.0 1985 0.0 0.0 21.6 0.2 0.0 21.7 56.9 17.9 0.0 0.0 0.0 0.0 2.3 98.9 1990 3.8 0.2 22.4 0.1 0.0 22.5 51.4 28.6 21.5 0.0 0.0 0.0 0.0 7.6 135.6 1995 3.9 0.1 9.2 0.2 1.5 10.9 2.1 22.7 19.1 0.0 0.0 0.0 15.7 74.5	1960			11.6	0.2	0.0							0.0	0.5	
1980 0.0 0.0 22.8 0.4 0.0 23.1 48.0 15.0 0.0 0.0 0.0 12.8 99.0 1985 0.0 15.7 74.5 1996 4.0 80.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 14.7 130.0 1997 4.1 19.4 0.0 0.0 0.0 11.7 76.8	1965													0.8	43.1
1980 0.0 0.0 22.8 0.4 0.0 23.1 48.0 15.0 0.0 0.0 0.0 12.8 99.0 1985 0.0 15.7 74.5 1996 4.0 80.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 14.7 130.0 1997 4.1 19.4 0.0 0.0 0.0 11.7 76.8	1970			30.0	0.6		30.5							1.8	
1985 0.0 0.0 21.6 0.2 0.0 21.7 56.9 17.9 0.0 0.0 0.0 0.0 2.3 98.9 1990 3.8 0.2 22.4 0.1 0.0 22.5 51.4 28.6 21.5 0.0 0.0 0.0 7.6 135.6 1996 4.0 P.0.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 14.7 130.0 1997 4.1 (s) 15.7 0.1 1.5 17.4 0.0 24.1 19.4 0.0 0.0 0.0 0.0 11.7 76.8 1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 11.7 76.8 1998 3.9 0.5 35.8 0.2 1.6 37.5 0.0 24.7 22.8 0.0 0.0 0.0 13.1	1975			17.7	0.2	0.0	17.9		19.1	0.0				4.9	91.5
1990 3.8 0.2 22.4 0.1 0.0 22.5 51.4 28.6 21.5 0.0 0.0 0.0 7.6 135.6 1995 3.9 0.1 9.2 0.2 1.5 10.9 2.1 22.7 19.1 0.0 0.0 0.0 15.7 74.5 1996 4.0 R.0.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 0.0 14.7 130.0 1997 4.1 (s) 15.7 0.1 1.5 17.4 0.0 24.1 19.4 0.0 0.0 0.0 11.7 76.8 1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 13.4 85.1 1999 3.9 0.5 35.8 0.2 1.6 37.5 0.0 25.1 24.9 0.0 0.0 0.0 13.1	1980			22.8	0.4	0.0		48.U		0.0				12.8	
1995 3.9 0.1 9.2 0.2 1.5 10.9 2.1 22.7 19.1 0.0 0.0 0.0 15.7 74.5 1996 4.0 R0.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 14.7 130.0 1997 4.1 (s) 15.7 0.1 1.5 17.4 0.0 24.1 19.4 0.0 0.0 0.0 11.7 76.8 1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 0.0 13.4 85.1 1999 3.9 0.5 35.8 0.2 1.6 37.5 0.0 25.1 24.9 0.0 0.0 0.0 13.1 105.1 2000 4.2 27.8 20.3 0.2 0.8 21.4 0.0 23.4 26.5 0.0 0.0 0.0 13.2	1900	3.8		21.0						21.5				2.3 7.6	
1996 4.0 RO.1 7.2 0.1 1.6 8.9 53.2 28.7 20.5 0.0 0.0 0.0 14.7 130.0 1997 4.1 (s) 15.7 0.1 1.5 17.4 0.0 24.1 19.4 0.0 0.0 0.0 11.7 76.8 1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 11.7 76.8 85.1 1999 3.9 0.5 35.8 0.2 1.6 37.5 0.0 25.1 24.9 0.0 0.0 0.0 13.1 105.1 2000 4.2 27.8 20.3 0.2 0.8 21.4 0.0 23.4 26.5 0.0 0.0 0.0 13.2 116.4 2001 4.6 82.7 11.7 (s) 0.0 11.8 0.0 17.7 31.0 0.0 0.0 0.0 9.6	1995	3.0		9.2		1.5	10.9		20.0	10.1				15.7	74.5
1997 4.1 (s) 15.7 0.1 1.5 17.4 0.0 24.1 19.4 0.0 0.0 0.0 0.0 11.7 76.8 1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 13.4 85.1 1999 3.9 0.5 35.8 0.2 1.6 37.5 0.0 25.1 24.9 0.0 0.0 0.0 0.0 13.1 105.1 2000 4.2 27.8 20.3 0.2 0.8 21.4 0.0 23.4 26.5 0.0 0.0 0.0 13.2 116.4 2001 4.6 82.7 11.7 (s) 0.0 11.8 0.0 17.7 31.0 0.0 0.0 0.0 9.6 157.4 2002 5.7 94.2 4.5 0.3 0.0 4.8 0.0 18.6 30.2 0.0 0.0 0.0	1996	4.0	R 0.1	7.2	0.2	1.6	8.9	53.2	28.7	20.5	0.0	0.0	0.0	14.7	130.0
1998 3.8 0.1 18.6 0.1 1.6 20.3 0.0 24.7 22.8 0.0 0.0 0.0 13.4 85.1 1999 3.9 0.5 35.8 0.2 1.6 37.5 0.0 25.1 24.9 0.0 0.0 0.0 0.0 13.1 105.1 2000 4.2 27.8 20.3 0.2 0.8 21.4 0.0 23.4 26.5 0.0 0.0 0.0 13.2 116.4 2001 4.6 82.7 11.7 (s) 0.0 11.8 0.0 17.7 31.0 0.0 0.0 0.0 0.0 0.0 9.6 157.4 2002 5.7 94.2 4.5 0.3 0.0 4.8 0.0 18.6 30.2 0.0 0.0 0.0 7.1 160.6 2003 4.3 62.9 12.7 0.8 0.0 13.4 0.0 22.0 30.6 0.0 0.0 0.0 8.3 141.6 2004 4.3 65.7 7.5 0.8	1997														
2000 4.2 27.8 20.3 0.2 0.8 21.4 0.0 23.4 26.5 0.0 0.0 0.0 0.0 13.2 116.4 2001 4.6 82.7 11.7 (s) 0.0 11.8 0.0 17.7 31.0 0.0 0.0 0.0 9.6 157.4 2002 5.7 94.2 4.5 0.3 0.0 4.8 0.0 18.6 30.2 0.0 0.0 0.0 0.0 7.1 160.6 2003 4.3 62.9 12.7 0.8 0.0 13.4 0.0 22.0 30.6 0.0 0.0 0.0 0.0 8.3 141.6 2004 4.3 65.7 7.5 0.8 0.0 8.3 0.0 28.7 31.5 0.0 0.0 0.0 13.0 151.6 2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 10.9 133.9 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 0.0 10.9 133.9	1998	3.8	0.1	18.6	0.1	1.6	20.3	0.0	24.7	22.8	0.0	0.0	0.0	13.4	85.1
2001 4.6 82.7 11.7 (s) 0.0 11.8 0.0 17.7 31.0 0.0 0.0 0.0 9.6 157.4 2002 5.7 94.2 4.5 0.3 0.0 4.8 0.0 18.6 30.2 0.0 0.0 0.0 7.1 160.6 2003 4.3 62.9 12.7 0.8 0.0 13.4 0.0 22.0 30.6 0.0 0.0 0.0 0.0 8.3 141.6 2004 4.3 65.7 7.5 0.8 0.0 8.3 0.0 28.7 31.5 0.0 0.0 0.0 13.0 151.6 2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 13.7 155.2 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 0.0 10.9 133.9	1999	3.9		35.8		1.6				24.9				13.1	105.1
2002 5.7 94.2 4.5 0.3 0.0 4.8 0.0 18.6 30.2 0.0 0.0 0.0 7.1 160.6 2003 4.3 62.9 12.7 0.8 0.0 13.4 0.0 22.0 30.6 0.0 0.0 0.0 0.0 8.3 141.6 2004 4.3 65.7 7.5 0.8 0.0 8.3 0.0 28.7 31.5 0.0 0.0 0.0 0.0 13.0 151.6 2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 10.9 153.9 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 10.9 133.9	2000	4.2			0.2	0.8		0.0	23.4	26.5				13.2	116.4
2003 4.3 62.9 12.7 0.8 0.0 13.4 0.0 22.0 30.6 0.0 0.0 0.0 0.0 8.3 141.6 2004 4.3 65.7 7.5 0.8 0.0 8.3 0.0 28.7 31.5 0.0 0.0 0.0 13.0 151.6 2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 13.7 155.2 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 10.9 133.9	2001	4.6	82.7	11.7	(s)	0.0	11.8			31.0	0.0		0.0	9.6	157.4
2004 4.3 65.7 7.5 0.8 0.0 8.3 0.0 28.7 31.5 0.0 0.0 0.0 13.0 151.6 2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 13.7 155.2 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 10.9 133.9	2002	5.7	94.2		0.3					30.2				7.1	
2005 3.8 51.2 9.5 0.2 0.0 9.7 0.0 34.7 42.1 0.0 0.0 0.0 13.7 155.2 2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 10.9 133.9		4.3													
2006 3.8 42.6 1.0 0.1 0.0 1.1 0.0 34.7 40.8 0.0 0.0 0.0 10.9 133.9	2004	4.3	50.7	1.5 0.5	0.8	0.0	0.3			31.3 42.4					101.0
2007 3.6 35.8 4.4 0.2 0.0 4.5 0.0 30.1 40.9 0.0 0.0 1.0 11.5 127.4	2005	3.0	42.6	9.0	0.2	0.0			34.1 34.7	42.1	0.0	0.0	0.0	10.7	133.2
		3.6	35.8		0.2	0.0					0.0				127.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Maryland

						Petroleum						Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	8,528	71	12,870	2,457	1,051	22,552 27,510	16,835	6,079	61,844	0	1,358					
1965 1970	12,372 12,216	99 156	16,967 19,817	2,856 4,477	1,473 1,841	27,510 37,159	15,510 22,046	8,458 8,958	72,774 94,297	0	1,141 1,907					
1975	7,761	140	21,034	3,049	2,395	43,688	26,941	7,574	104,680	4,386	2,311					
1980	9,312	160	21,908	3,522	2,060	44,003	16,480	7,208	95,181	10,947	1,270					
1985 1990	10,012 11,193	151 176	18,958 18,327	3,901 3,637	1,805 1,965	45,632 47,415	7,916 10,542	9,142 9,889	87,354 91,775	9,926 1,251	1,524 2,299					
1995	11,198	194	19,176	3,430	2,687	51,475	4,065	9,447	90,280	12,938	1,442					
1996	11,366	196	21,670	3,897 R 4,098	2,995	51,800	4,517	9,108	93,988 R 95,320	12,093	2,457					
1997 1998	11,239 11,790	212 189	19,586 20,657	R 3,924	2,856 2,410	53,594 54,585	4,212 7,572	10,974 11,654	R 100,802	13,213 13,331	1,588 1,740					
1999	11,824	196	21,741	3,938	2,143	56,886	9,084	11,518	105,310	13,312	1,424					
2000	12,221	212	22,387	4,108	2,406	57,157	5,154	10,870	102,083	13,827	1,733					
2001 2002	12,519 12,571	178 196	23,134 21,479	2,929 1,718	2,544 2,367	59,263 60,445	5,776 4,571	10,286 10,154	103,931 100,735	13,656 12,128	1,184 1,661					
2003	13,039	197	21,827	2,343	3,498	61,908	6,299	8,790	104,665	13,691	2,647					
2004	13,006	195	22,830	3,140	2,872	63,614	6,567	9,773	108,796	14,580	2,508					
2005 2006	13,091 12,939	203 182	23,649 22,607	4,362 4,144	3,188 3,111	64,553 65,673	7,432 2,622	9,325 5,196	112,510 103,353	14,703 13,830	1,704 2,104					
2007	13,135	201	21,699	3,522	2,834	66,263	2,447	6,284	103,049	14,353	1,652					
								Trillion Btu								
1960 1965	226.6 327.4	73.3 101.0	75.0 98.8	13.5 15.7	4.2 5.9	118.5 144.5	105.8 97.5	36.4 50.9	353.4 413.4	0.0 0.0	14.6 11.9	23.8 27.1	0.0 0.0	5.8 -17.7	0.0 0.0	697.5 863.1
1970	311.3	159.6	115.4	25.0	7.0	195.2	138.6	53.3	534.4	0.0	20.0	31.8	0.0	16.5	0.0	1,073.6
1975	197.2	141.9	122.5	16.9	8.9	229.5	169.4	46.4	593.6	48.3	24.0	31.8	0.0	33.2	0.0	1,069.9
1980 1985	235.7 256.2	R 163.4 R 156.0	127.6 110.4	19.5 21.7	7.6 6.5	231.1 239.7	103.6 49.8	43.5 56.4	533.0 484.4	119.4 105.4	13.2 15.9	32.6 39.2	0.0 0.0	60.6 104.8	-0.5 -0.4	1,157.5 1,161.6
1990	286.5	180.6	106.8	20.3	7.1	239.7 249.1	49.6 66.3	61.0	404.4 510.5	13.2	23.9	39.2 26.5	0.0	218.6	-0.4 (s)	1,161.6
1995	289.6	R 199.2	111.7	19.4	9.7	268.4	25.6	57.7	492.6	135.9	14.9	36.8	0.1	165.1	(s) -0.6	1,333.6
1996	292.5	R 201.7	126.2	22.1	10.8	270.2	28.4	55.0	512.8	127.0	25.4	40.5	0.1	169.2	-0.9	1,368.2
1997 1998	289.7 303.9	R 219.2 195.5	114.1 120.3	23.2 22.2	10.3 8.7	279.4 284.5	26.5 47.6	67.4 70.7	R 521.0 554.1	138.7 139.9	16.2 17.7	36.5 34.6	0.2 0.2	155.1 129.3	-0.2 -0.1	1,376.3 1,375.0
1999	305.2	R 203.0	126.6	22.3	7.7	296.4	57.1	69.6	579.8	139.1	14.6	36.2	0.2	138.6	-0.5	1.416.1
2000	312.2	R 219 4	130.4	23.3	8.7	297.8	32.4	66.0	558.6	144.2	17.7	36.3	0.2	157.1	-0.3	1,445.2
2001 2002	318.9 325.8	R 185.0 R 201.8	134.8 125.1	16.6 9.7	9.2 8.6	308.8 314.8	36.3 28.7	63.5 62.8	569.1 549.8	142.7 126.6	12.2 16.9	20.8 21.0	0.2 0.2	181.0 262.1	-0.1	1,429.7 1,504.1
2003	329.6	R 202 9	127.1	13.3	12.7	322.4	39.6	54.0	569.1	142.7	27.1	27.1	0.2	255.4	(s) -0.2	1,554.0
2004	327.2	R 200.6	133.0	17.8	10.4	331.7	41.3	59.9	594.1	152.0	25.1	28.0	0.3	209.9	-0.1	1,537.2
2005 2006	329.3 324.7	R 212.2 R 188.9	137.8 131.7	24.7 23.5	11.5 11.2	336.8 342.7	46.7 16.5	57.0 32.2	614.6 557.7	153.4 144.3	17.0 20.9	R 29.8 R 30.1	0.3 0.4	208.3 186.5	-0.4	R 1,564.5 R 1,453.3
2006	324.7 327.8	208.5	131.7	20.0	10.2	342.7 345.8	15.4	32.2 39.5	557.7 557.3	150.5	16.3	30.1	0.4	197.8	(s) -0.3	1,488.7

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maryland

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	169 133	46 57	6,053 7,191	2,234 2,177	617 893	8,903 10,261	406 328			2,772			
1965 1970	46	73	8,234	2,177	1,007	11,407	377			4,384 7,690			
1975	10	69	8,453	1,014	1,242	10,708	452			9,660			
1980	8	68	8,797	830	740	10,766	794			12,119			
1985	27	68 68	5,609	830 1,113	987	7,709	972			14,319			
1990	10	66	5,090	385	1,088	6.563	393			19.102			
1990 1995	39	66 77	4,923	385 535	1,647	6,563 7,104	588			19,102 22,234			
1996	5	86	5,811	593	1.853	8.257	611			22.986			
1997	6	86 77	5,016	593 597	1,989	7.602	458			22,986 21,937			
1998 1999	6	68	4,314 4,668	720 523	1,814	6,848 6,853	407			22,407			
1999	6	68 75 84 71	4,668	523	1,661	6,853	428			23,342			
2000	9	84	4,865	505	1,346	6,717 6,887	460			23,949			
2001	8	71	4,798	471	1,619	6,887	290			24,294			
2002	(s)	80	4,400	305	1,686 2,350	6,391 6,873	294			25,489			
2003	1	91	4,119	404	2,350	6,873	310			26,671			
2004	6	86	4,098	550	2,025	6,673	318 R 379			27,952			
2005 2006	3 R 4	86 71	4,096 3,385	617 437	2,001 R 1,843	6,715 R 5,666	R 345			28,440 26,905			
2007	3	83	3,351	225	1,824	5,400	381			28,195			
						Tı	rillion Btu						
1960	12	47.5	35.3	12.7	2.5	50.4	8.1	0.0	0.0	9.5	119.7	23.4	143.1
1965	4.2 3.3	58.1	41.9	12.3	2.5 3.6	57.8	6.6	0.0	0.0	15.0	140.7	35.7	176.4
1960 1965 1970	1.1	74.5	48.0	12.3	3.8	64.0	7.5	0.0	0.0	26.2	173.4	63.5	237.0
1975	0.2	70.1	49.2	5.7	3.8 4.6	59.6	9.0	0.0	0.0	33.0	171.9	79.3	251.2
1980	0.2	R 69.4 R 70.7	51.2 32.7	4.7	2.7	58.7	15.9	0.0	0.0	41.4	185.3	99.7	285.0 294.6
1985	0.7	R 70.7	32.7	6.3	3.6	42.5	19.4	0.0	0.0	48.9	182.1	112.5	294.6
1990	0.2	68.2	29.6	2.2	3.9	35.8	7.9	0.1	(s) 0.1	65.2	177.4	150.7	328.1
1995	1.0	R 78.5	28.7	3.0 3.4	6.0	37.7	11.8	0.1	0.1	75.9	204.6	172.3	376.9 400.8
1996	0.1	K aa n	33.9	3.4	6.7	43.9	12.2	0.1	0.1	78.4	222.4	178.3	400.8
1997	0.2	R 80.1	29.2	3.4	7.2	39.8	9.2	0.1	0.1	74.8	204.1	169.6	373.7
1998	0.1	R 70.6	25.1	4.1	6.6	35.8	8.1	0.1	0.1	76.5	191.2	173.4	364.6
1999	0.1	R 77.4	27.2	3.0	6.0	36.2	8.6 9.2	0.1	(s) (s) (s)	79.6	201.8	182.2	384.0
2000	0.2	R 86.8	28.3	2.9	4.9	36.1	9.2	0.1	(s)	81.7	214.1	185.9	400.0 383.5
2001	0.2	73.3	27.9	2.7	5.9	36.5	5.8	0.1	(S)	82.9	198.8	184.7	383.5
2002	(s) (s) 0.1	82.2	25.6	1.7	6.1 8.5	33.5	5.9 6.2	0.1	(s)	87.0	208.7 225.5	193.9	402.6
2003 2004	(S)	93.3 88.9	24.0 23.9	2.3 3.1	8.5 7.3	34.8 34.3	6.2 6.4	0.2 0.2	(s) 0.1	91.0 95.4	225.5 _ 225.3	200.8 211.0	426.3
2004	0.1	R 89.9	23.9	3.5	7.3	34.6	R 7.6	0.2	0.1	97.0	R 220.3	211.0	436.3 R 441.6
2005	0.1	73.8	19.7	2.5	R 6.6	R 28.8	R 6.9	0.2	0.1	91.8	R 229.3 R 201.8	198.5	R 400.3
2007	0.1	73.8 86.5	19.5	2.5 1.3	6.6	27.3	7.6	0.3	0.1	96.2	218.0	207.6	425.6
						=::•					=	==::=	

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maryland

Coal Gas						Petro	oleum				Biomass		B			
Thousand Billion Cubie Thousand Barrels Nation Ridiwatthour Ridiwat		Coal			Kerosene	LPG ^b		Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales			
1986 100 13 2,800 70 158 90 1,920 5,039 0 3,397	Year					Thousar	nd Barrels				and	Geothermal ^f		Net Energy ^{f,h}	Energy	Total f,h
1995 100	1960	117	8	2.357	72	109	72	2 442	5.052	0			2 696			
1970 36 26 3.208 70 178 103 1.498 5.054 0 6.347 1970 1975 24 25 3.291 33 219 120 1.169 4.833 0 6.373 1980 29 29 29 2.865 20 131 121 1.159 4.265 0 9.367 1980 29 29 29 2.865 20 131 121 1.159 4.265 0 9.367 1980 29 29 29 2.865 20 131 121 1.159 4.265 0 9.367 1980 29 29 29 2.865 20 131 121 1.159 4.265 0 9.367 1980 29 29 29 29 29 29 29 29 29 29 29 29 29	1965			2,800	70	158	90	1,920	5,039	Ö			3,937			
1980 29 29 2,865 20 131 121 1,159 4,226 0 9,387 1980 138 24 2,169 89 174 170 252 2,855 0 9,621 1990 38 24 2,489 48 192 231 548 3,508 0 11,1021 1996 36 36 46 3,270 151 327 32 108 3,886 0 23,730 1996 36 46 3,270 151 327 32 108 3,886 0 23,730 1997 49 50 2,481 227 351 31 50 3,140 0 24,870 24,870 1998 47 57 2,552 313 327 32 108 3,886 0 24,892 24,892 1998 47 57 2,552 313 327 32 31 42 3,262 0 0 24,892 25,866									5,054	•			6,347			
1985 94 24 2,489 88 174 170 252 2,855 0 9,621 1995 189 38 24 2,489 48 192 231 548 3,508 0 11,021 1995 2,88 47 3,097 210 291 32 119 3,749 0 23,730 1997 49 50 2,811 227 351 31 50 3,140 0 24,470 24,470 1998 47 57 2,555 313 320 31 42 3,262 0 24,490 24,990 1998 47 57 2,555 313 320 31 42 3,262 0 24,990 24,990 1999 41 58 2,212 294 293 31 52 2,843 0 25,662 25,662 20,000 74 56 2,582 363 238 116 87 3,385 0 26,596 26,596 20,001 67 60 2,513 347 286 33 34 3,212 0 26,596 21,845 20,002 3 64 2,499 171 298 33 63 3,044 0 21,845 21,845 20,002 3 6 77 1 2,032 185 415 33 288 3,155 1 0 16,850 17,282 20,003 5 71 2,232 185 415 33 288 3,155 1 0 17,282 17,282 20,005 8 63 1,002 62 8,353 34 98 8,2325 0 17,282 17,282 20,005 8 63 1,002 62 8,353 34 98 8,2325 0 17,282 17,282 20,007 30 71 1,188 41 322 34 18 1,604 0 17,282 17,282 20,007 30 71 1,188 41 322 34 18 1,604 0 17,282 17,282 20,007 30 71 1,188 41 322 34 18 1,604 0 17,282 3 20,007 30 71 1,188 41 322 34 18 1,604 0 17,282 3	1975	24	25	3,291		219	120	1,169	4,833				8,573			
1990 38 24 2,489 48 192 231 548 3,508 0 11,021 1,795 195 258 47 3,097 210 291 32 119 3,749 0 23,730 1,795 36 36 46 3,270 151 327 32 108 3,886 0 24,070 1,795 32 198 47 57 2,555 313 320 31 42 3,262 0 24,070 1,798 47 57 2,555 313 320 31 42 3,262 0 24,070 1,798 47 57 2,555 313 320 31 42 3,262 0 25,562 2,700 1,74 58 2,212 254 253 313 50 3,555 0 25,562 2,700 1,74 56 2,593 341 28 33 36 3,362 0 25,562 2,700 1,74 56 2,593 341 28 33 36 3,362 0 25,562 2,700 1,74 56 2,593 341 28 33 36 3,362 0 25,562 2,700 3 5 64 2,593 341 28 33 36 3,362 0 25,562 2,700 3 5 64 2,593 341 28 33 36 3,362 0 25,562 2,700 3 5 64 2,593 341 28 33 280 3,455 0 25,562 2,700 3 5 71 2,232 195 415 33 280 3,455 0 17,264 17,264 2,700 3 5 71 2,232 195 415 33 280 3,455 0 17,264 17,264 2,700 3 5 71 1,188 41 322 34 18 1,604 0 17,932 17,932 2,700 3 71 1,188 41 322 34 18 1,604 0 17,932	1980	29		2,800		131		1,159	4,290	•			9,387			
1995 258	1900	38		2,109				548	3 508	•						
1996 36 46 3,270 151 327 32 108 3,886 0 23,780 1998 17 50 2,481 227 351 31 50 3,140 0 24,970 1998 17 57 2,555 313 320 31 42 3,262 0 25,562 25,562 2000 74 56 2,592 363 238 116 87 3,385 0 25,562 25,562 2000 74 56 2,592 363 238 116 87 3,385 0 26,566 26,566 2000 74 56 2,592 363 238 116 87 3,385 0 26,566 26,566 2000 74 56 2,592 363 238 116 87 3,385 0 26,566 2000 3 64 2,499 171 288 33 63 3,064 0 21,845 2000 3 57 11 2,232 195 415 33 280 3,155 0 16,950 16,950 2000 57 17 2,232 195 415 33 280 3,155 0 17,264 17,264 2000 57 17 2,185 126 353 34 49 8 2,295 0 17,264 17,264 2000 6 83 63 1,802 62 835 34 49 8 8,2271 0 17,264	1995			3.097		291	32			•						
1988	1996	36	46	3,270	151	327	32	108	3.886	0			23,780			
1999				2,481					3,140	•						
2000 74 56 2,582 363 238 116 87 3,385 0 26,506 20,002 3 64 2,499 171 298 33 63 3,064 0 26,995 20,002 3 64 2,499 171 298 33 63 3,064 0 26,995 20,003 5 71 2,232 195 415 33 280 3,165 0 16,950 20,004 51 70 2,108 126 357 33 87 2,711 0 17,264 20,005 29 70 1,785 126 353 34 98 2,395 0 17,264 20,005 29 70 1,785 126 353 34 98 2,395 0 17,264 20,005 29 70 1,785 126 353 34 98 2,395 0 17,264 20,005 29 70 1,785 126 353 34 98 2,395 0 30,691 20,005 29 70 1,785 126 353 34 18 1,604 0 30,691 20,005 29 70 1,785 126 353 34 18 1,604 0 0 30,691 20,005 29 70 1,785 126 353 34 18 1,604 0 0 30,691 20,005 29 70 1,188 41 322 34 18 1,604 0 0 30,691 20,005 29 70 1,188 41 322 34 18 1,604 0 0 30,691	1998			2,555	313	320		42	3,262							
2001 67 60 2.513 347 286 33 34 3.212 0 26.995										•						
2002 3 64 2,499 171 298 33 63 3,064 0 21,845 2- 2004 51 70 2,108 126 357 33 280 3,155 0 17,264 2004 51 70 2,108 126 357 33 87 2,711 0 17,264 2005 29 70 1,785 126 353 34 98 2,395 0 17,7932 2006 8,38 63 1,802 62 8325 34 48 8,2,271 0 29,729 2007 30 71 1,188 41 322 34 18 1,604 0 30,691		67		2,562	303 347	236 286			3,300				26,306 26,995			
2004 51 70 2,108 126 357 33 87 2,711 0 17,264 2005 29 70 1,785 126 353 34 98 2,395 0 29,729 2007 30 71 1,188 41 322 34 48 R2,271 0 29,729 30,691 2007 30 71 1,188 41 322 34 18 1,604 0 30,691 30,691 2007 30 71 1,188 41 322 34 18 1,604 0 30,691 2007 30 71 1,188 41 322 34 18 1,604 0 30,691	2002	3		2,499	171	298	33		3.064	Ŏ			21.845			
2005	2003	5	71	2,232	195	415		280	3,155	0			16,950			
2006	2004			2,108	126	357	33		2,711				17,264			
1960 2.9 8.3 13.7 0.4 0.4 0.4 15.4 30.3 0.0 0.2 0.0 9.2 50.9 22.7 73.6 1965 2.5 13.3 16.3 0.4 0.4 0.7 0.5 9.4 29.7 0.0 0.1 0.0 13.4 59.2 32.1 91.3 1970 0.9 26.5 18.7 0.4 0.7 0.5 9.4 29.7 0.0 0.1 0.0 0.2 0.0 29.3 83.7 70.3 131.2 1975 0.5 25.5 19.2 0.2 0.8 0.6 7.4 28.2 0.0 0.2 0.0 29.3 83.7 70.3 131.4 1980 0.7 29.1 16.7 0.1 0.5 0.6 7.3 25.2 0.0 0.4 0.0 32.0 87.4 77.2 164.6 1985 2.3 8.25 0.5 2.6 0.5 0.6 0.9 1.6 16.2 0.0 0.5 0.0 32.8 76.8 75.6 152.4 1990 1.0 24.7 14.5 0.3 0.7 1.2 3.4 20.1 0.0 1.6 0.0 37.6 85.0 87.0 37.4 1996 0.9 8.47.2 19.0 0.9 1.2 0.2 0.7 21.2 0.0 3.8 0.0 81.1 154.8 184.5 339.3 1997 1.2 8.5 5.5 14.5 1.3 1.3 0.2 0.3 18.2 0.0 3.2 0.0 87.6 166.5 36.1 1998 1.0 8.6 1.1 1.2 1.1 0.2 0.7 21.9 0.0 3.8 0.0 81.1 154.8 184.5 339.3 1998 1.0 8.6 1.2 1.4 1.1 0.2 0.3 18.2 0.0 3.3 0.0 82.1 156.1 186.1 342.2 2000 1.9 8.75 5.5 5.0 2.1 0.9 0.6 0.5 19.1 0.0 3.4 0.0 0.9 2.1 176.1 20.5 381.4 2001 1.7 62.0 14.6 2.0 1.0 0.2 0.2 18.0 0.0 2.3 0.0 92.1 176.1 20.5 381.4 2002 0.1 65.7 14.6 1.0 1.1 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 895.0 2004 1.2 8.72 1.2 1.3 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 895.0 2005 0.7 8.73 1.0 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 895.0 2006 0.7 8.73 1.0 0.0 0.6 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 895.0 2006 0.7 8.73 1.0 0.0		29				353			2,395	•			17,932			
Trillion Btu Trillion Btu Trillion Btu Trillion Btu State	2006 2007			1,802		1, 372 355	34 34	48 18	1 604				29,729 30,691			
1960	2007		7.1	1,100		322		10					30,031			
1965									Trillion Btu							
1970 0.9 26.5 18.7 0.4 0.7 0.5 9.4 29.7 0.0 0.1 0.0 21.7 78.8 52.4 131.2 1975 0.5 25.5 19.2 0.2 0.8 0.6 7.4 28.2 0.0 0.2 0.0 29.3 83.7 70.3 154.0 1980 0.7 29.1 16.7 0.1 0.5 0.6 7.3 25.2 0.0 0.4 0.0 32.0 87.4 77.2 164.6 1985 2.3 R25.0 12.6 0.5 0.6 0.9 1.6 16.2 0.0 0.5 0.0 32.8 76.8 75.6 152.4 1990 1.0 24.7 14.5 0.3 0.7 1.2 3.4 20.1 0.0 1.6 0.0 37.6 85.0 87.0 171.9 1995 6.4 R8.0 18.0 12.2 1.1 0.2 0.7 21.2 0.0		2.9					0.4									
1975 0.5 25.5 19.2 0.2 0.8 0.6 7.4 28.2 0.0 0.2 0.0 29.3 83.7 70.3 154.0 1980 0.7 29.1 16.7 0.1 0.5 0.6 7.3 25.2 0.0 0.4 0.0 32.0 87.4 77.2 164.6 1985 2.3 R 25.0 12.6 0.5 0.6 0.9 1.6 16.2 0.0 0.5 0.0 32.8 76.8 75.6 152.4 1990 1.0 24.7 14.5 0.3 0.7 1.2 3.4 20.1 0.0 1.6 0.0 37.6 85.0 87.0 171.9 1995 6.4 R 48.0 18.0 1.2 1.1 0.2 0.7 21.2 0.0 3.6 0.0 81.0 160.1 183.9 344.0 1996 0.9 R 47.2 19.0 0.9 1.2 0.2 0.7 21.9 0.	1965	2.5	13.3	16.3		0.6	0.5	12.1	29.9				13.4		32.1	
1980 0.7 29.1 16.7 0.1 0.5 0.6 7.3 25.2 0.0 0.4 0.0 32.0 87.4 77.2 164.6 1885 2.3 R25.0 12.6 0.5 0.6 0.9 1.6 16.2 0.0 0.5 0.0 32.8 76.8 75.6 152.4 1990 1.0 24.7 14.5 0.3 0.7 1.2 3.4 20.1 0.0 1.6 0.0 37.6 85.0 87.0 171.9 1995 6.4 R48.0 18.0 1.2 1.1 0.2 0.7 21.2 0.0 3.6 0.0 81.0 160.1 183.9 344.0 1996 0.9 R47.2 19.0 0.9 1.2 0.2 0.7 21.9 0.0 3.8 0.0 81.1 154.8 184.5 339.3 1997 1.2 R51.5 14.5 1.3 1.3 0.2 0.3 17.5 0.0 3.9 0.0 82.1 156.1 186.1 342.2 1999 1.0 R60.1 12.9 1.4 1.1 0.2 0.2 0.3 18.2 0.0 3.3 0.0 85.1 167.3 193.1 360.4 1999 1.0 R60.1 12.9 1.4 1.1 0.2 0.3 15.9 0.0 3.2 0.0 87.6 167.5 200.3 367.8 2000 1.9 R57.5 15.0 2.1 0.9 0.6 0.5 19.1 0.0 3.4 0.0 90.4 172.3 205.7 378.0 2001 1.7 62.0 1.6 1.7 14.6 1.0 1.1 0.2 0.4 17.2 0.0 2.3 0.0 2.3 0.0 92.1 176.1 205.3 381.4 2003 0.1 72.6 13.0 1.1 1.5 0.2 1.8 17.5 0.0 2.3 0.0 2.3 0.0 57.8 150.4 127.6 278.0 2004 1.2 R72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.3 0.0 58.9 150.1 130.3 280.5 2004 1.2 R72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.6 132 0.0 R32.0 0.0 83.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.6 132 0.0 R32.0 0.0 18.2 15.2 133.8 R82.5 200.5 13.2 10.0 18.2 13.2 13.3 12.3 0.7 1.3 0.2 0.6 132 0.0 R32.0 0.0 88.9 150.1 130.3 820.5 12.0 12.0 13.2 12.3 12.3 12.3 12.3 12.3 12.3 12.3																
1985 2.3	1975	0.5	25.5	19.2	0.2	0.8	0.6	7.4	28.2	0.0	0.2	0.0	29.3	83.7	70.3	154.0
1990 1.0 24.7 14.5 0.3 0.7 1.2 3.4 20.1 0.0 1.6 0.0 37.6 85.0 87.0 171.9 1995 6.4 R 48.0 18.0 1.2 1.1 0.2 0.7 21.2 0.0 3.6 0.0 81.0 160.1 183.9 344.0 1996 0.9 R 47.2 19.0 0.9 1.2 0.2 0.7 21.9 0.0 3.8 0.0 81.1 154.8 184.5 339.3 1997 1.2 R 51.5 14.5 1.3 1.3 0.2 0.3 17.5 0.0 3.9 0.0 82.1 156.1 186.1 342.2 1998 1.2 59.5 14.9 1.8 1.2 0.2 0.3 18.2 0.0 3.3 0.0 85.1 167.3 193.1 360.4 1999 1.0 R 60.1 12.9 1.4 1.1 0.2 0.3 15.9 0.0 3.2 0.0 87.6 167.5 200.3 367.8 2000<			R 25.0			0.5			25.2 16.2							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1990		24.7		0.3		1.2		20.2			0.0	37.6		87 O	171.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1995		R 48 0		1.2		0.2		21.2							
1997 1.2 R 51.5 14.5 1.3 1.3 0.2 0.3 17.5 0.0 3.9 0.0 82.1 156.1 186.1 342.2 1998 1.2 59.5 14.9 1.8 1.2 0.2 0.3 18.2 0.0 3.3 0.0 85.1 167.3 193.1 360.4 1999 1.0 R 60.1 12.9 1.4 1.1 0.2 0.3 15.9 0.0 3.2 0.0 87.6 167.5 200.3 367.8 2000 1.9 R 57.5 15.0 2.1 0.9 0.6 0.5 19.1 0.0 3.4 0.0 90.4 172.3 205.7 378.0 2001 1.7 62.0 14.6 2.0 1.0 0.2 0.2 18.0 0.0 2.3 0.0 92.1 176.1 205.3 381.4 2002 0.1 65.7 14.6 1.0 1.1 0.2 0.4 17.2 0.0 2.3 0.0 74.5 159.4 166.2 325.6 2003<	1996	0.9	K 47.2	19.0	0.9	1.2	0.2	0.7	21.9	0.0	3.8	0.0	81.1	154.8	184.5	339.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1997	1.2	R 51.5		1.3	1.3	0.2		17.5		3.9					342.2
2000 1.9 K57.5 15.0 2.1 0.9 0.6 0.5 19.1 0.0 3.4 0.0 90.4 172.3 205.7 378.0 2001 1.7 62.0 14.6 2.0 1.0 0.2 0.2 18.0 0.0 2.3 0.0 92.1 176.1 205.3 381.4 2002 0.1 65.7 14.6 1.0 1.1 0.2 0.4 17.2 0.0 2.0 0.0 74.5 159.4 166.2 325.6 2003 0.1 72.6 13.0 1.1 1.5 0.2 1.8 17.5 0.0 2.3 0.0 57.8 150.4 127.6 278.0 2004 1.2 K72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 873.1 10.4 0.7 1.3 0.2 0.6 132 0.0 83.2 0.0 83.2 0.0 61.2 151.2 133.8 828.5	1998	1.2	59.5	14.9	1.8	1.2	0.2	0.3	18.2	0.0	3.3	0.0	85.1	167.3	193.1	360.4
2001 1.7 62.0 14.6 2.0 1.0 0.2 0.2 18.0 0.0 2.3 0.0 92.1 176.1 205.3 381.4 2002 0.1 65.7 14.6 1.0 1.1 0.2 0.4 17.2 0.0 2.0 0.0 74.5 159.4 166.2 325.6 2003 0.1 72.6 13.0 1.1 1.5 0.2 1.8 17.5 0.0 2.3 0.0 57.8 150.4 127.6 278.0 2004 1.2 R72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.6 13.2 0.0 R32 0.0 61.2 151.2 133.8 R285.0			K 60.1													
2002 0.1 65.7 14.6 1.0 1.1 0.2 0.4 17.2 0.0 2.0 0.0 74.5 159.4 166.2 325.6 2003 0.1 72.6 13.0 1.1 1.5 0.2 1.8 17.5 0.0 2.3 0.0 57.8 150.4 127.6 278.0 2004 1.2 R72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.6 13.2 0.0 R3.2 0.0 61.2 151.2 133.8 R285.0	2000	1.9	1\5/.5	15.0	2.1	0.9	0.6	0.5		0.0	3.4	0.0	90.4	1/2.3	205.7	3/8.0
2003 0.1 72.6 13.0 1.1 1.5 0.2 1.8 17.5 0.0 2.3 0.0 57.8 150.4 127.6 278.0 2004 1.2 R 72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 0.7 R 73.1 10.4 0.7 1.3 0.2 0.6 13.2 0.0 R 3.2 0.0 61.2 151.2 133.8 R 285.0					∠.∪ 1.0		0.2				2.3 2.0		92.1 74.5			301.4 325.6
2004 1.2 R72.3 12.3 0.7 1.3 0.2 0.5 15.0 0.0 2.8 0.0 58.9 150.1 130.3 280.5 2005 0.7 R73.1 10.4 0.7 1.3 0.2 0.6 13.2 0.0 R3.2 0.0 61.2 151.2 133.8 R285.0	2002		72.6				0.2				2.3		57.8			278.0
2005 0.7 873.1 10.4 0.7 1.3 0.2 0.6 13.2 0.0 83.2 0.0 61.2 151.2 133.8 8285.0	2004	1.2	R 72 3	12.3	0.7	1.3	0.2		15.0			0.0	58.9	150.1	130.3	280.5
2006 1.0 65.0 10.5 0.4 1.2 0.2 0.3 12.5 0.0 R3.3 0.0 101.4 183.2 219.3 R402.5 2007 0.7 73.4 6.9 0.2 1.2 0.2 0.1 8.6 0.0 3.1 0.0 104.7 190.5 225.9 416.4	2005	0.7	^R 73.1	10.4	0.7	1.3	0.2	0.6	13.2	0.0	R 3.2	0.0	61.2	151.2	133.8	R 285 0
2007 0.7 73.4 6.9 0.2 1.2 0.2 0.1 8.6 0.0 3.1 0.0 104.7 190.5 225.9 416.4		1.0	65.0	10.5	0.4	1.2	0.2		12.5		R 3.3				219.3	R 402.5
	2007	0.7	73.4	6.9	0.2	1.2	0.2	0.1	8.6	0.0	3.1	0.0	104.7	190.5	225.9	416.4

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maryland

Thousand Short Tons Cubic Feet Thousand Short Tons Thousand Sho						Petro	leum				Biomass		5			
Thousand Short Tons Cubic Feet Thousand Barrels Million Wood and Wood and Ceo-thermal Million Wood and Ceo-thermal Wood and Ceo-thermal Ceo-thermal Wood and Ceo-thermal Ceo-thermal Wood and Ceo-thermal Wood and Ceo-thermal Ceo-thermal Wood and Ceo-thermal Wood and Ceo-thermal Ceo-thermal Wood and Ceo-thermal Wood and Ceo-thermal		Coal			LPG b			Other ^d	Total						Electrical	
1970						Thousand	d Barrels							Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1970	1960	5,067	16	2,093	317	670	10,333	3,177	16,589	1			3,269			
1970	1965	6,101	28	3,177	412	439	8,296	5,426	17,750	1			5,073			
1980	1970	6,174	44	3,248			6,672		16,918							
1986		3,854	43	3,434	888	293	4,983		15,614							
1990		3,367			1,163	145		5,874	13,148							
1995	1985	2,846	55	2,844	584	299	1,022	7,581	12,329							
1996 785 50 2,057 767 343 1,361 8,035 12,563 0 10,098 1997 768 66 1,711 414 363 839 9,796 13,122 0 10,128 1998 769 39 2,723 263 294 636 10,240 14,155 0 10,344 1999 788 37 2,366 176 238 592 10,373 13,745 0 9,936 2000 810 40 2,109 747 251 547 9,639 13,293 0 10,066 2001 1,286 27 2,334 633 787 540 9,067 13,361 0 10,077 2002 1,323 27 1,767 371 860 413 9,285 12,697 0 20,875 2003 1,254 22 1,986 704 946 593 7,832 12,061 0 21,195 2004 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,858 0 2,1517 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 1960 135.0 16.6 12.2 1.3 3.5 65.0 20.0 102.0 (s) 15.6 0.0 11.2 280.2 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1980 88.6 8.55.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1980 74.8 8.55.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1996 19.7 8.55.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 11.3 0.0 34.3 185.3 1997 19.3 8.62.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.5 191.6 1999 19.9 8.9 8.5 13.8 0.6 1.2 3.7 63.0 68.3 0.0 11.1 0.0 34.3 185.0 1999 19.9 9.9 8.85.5 13.8 0.6				2,039 1 737		328			13,277	•						
1998 769 39 2,723 263 294 636 10,240 14,155 0 10,344 1999 798 37 2,366 176 238 592 10,373 13,745 0 10,364 2000 810 40 2,109 747 251 547 9,639 13,293 0 10,066 2001 1,286 27 2,334 633 787 540 9,067 13,361 0 10,177 2002 1,323 27 1,767 371 860 413 9,285 12,697 0 20,875 2003 1,254 22 1,986 704 946 593 7,832 12,061 0 27,176 2004 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,858 0 21,195 2006 1,259 23 2,137 899 1,034 758 4,323 8,150 0 21,1517 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 5,980 5,980 5,980 5,980 5,980 5,980 1,986 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 20.4 0.0 17.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1980 88.6 85.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1990 57.4 87.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 12.2 0.0 16.4 0.0 44.6 281.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 12.3 0.0 11.3 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.7 0.0 33.9 186.2 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 1000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 10.0 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 10.0 20.0 11.3 0.0 34.3 186.0 20.0 20.0 84.1 12.3 2.7 1.3 34.5 90.0 11.7 0.0 33.9 186.2 20.0 20.0 84.1 12.3 2.7 1.3 3.4 59.0 0.0 11.7 0.0 33.9 186.2 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.1 1.0 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7	1996	785	50	2 057		343	1 361	8 035	12 563							
1998 769 39 2,723 263 294 636 10,240 14,155 0 10,344 1999 798 37 2,366 176 238 592 10,373 13,745 0 10,364 2000 810 40 2,109 747 251 547 9,639 13,293 0 10,066 2001 1,286 27 2,334 633 787 540 9,067 13,361 0 10,177 2002 1,323 27 1,767 371 860 413 9,285 12,697 0 20,875 2003 1,254 22 1,986 704 946 593 7,832 12,061 0 27,176 2004 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,858 0 21,195 2006 1,259 23 2,137 899 1,034 758 4,323 8,150 0 21,1517 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 5,980 5,980 5,980 5,980 5,980 5,980 1,986 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 20.4 0.0 17.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1980 88.6 85.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1990 57.4 87.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 12.2 0.0 16.4 0.0 44.6 281.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 12.3 0.0 11.3 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.5 191.6 1997 19.3 86.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.7 0.0 33.9 186.2 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 1000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 10.0 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 10.0 20.0 11.3 0.0 34.3 186.0 20.0 20.0 84.1 12.3 2.7 1.3 34.5 90.0 11.7 0.0 33.9 186.2 20.0 20.0 84.1 12.3 2.7 1.3 3.4 59.0 0.0 11.7 0.0 33.9 186.2 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.1 1.0 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0 2000 20.3 84.1 12.3 2.7			66						13.122							
1999 798 37 2,366 176 238 592 10,373 13,745 0 9,936 2000 810 40 2,109 747 251 547 9,639 13,293 0 0 10,066 2001 1,286 27 2,334 633 787 540 9,067 13,361 0 10,177 2002 1,323 27 1,767 371 860 413 9,285 12,697 0 20,875 2003 1,254 22 1,986 704 946 593 7,832 12,061 0 27,176 2004 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,888 0 21,151 2006 1,259 23 2,137 899 1,034 758 4,323 8,9150 0 6,057 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 5,980 1,986 162.4 28.3 18.5 1.7 2.3 52.2 33.9 108.5 (s) 20.4 0.0 11.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 20.4 0.0 17.3 336.9 1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1985 74.8 8 56.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 8 56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 850.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.5 191.6 1999 19.9 8 88.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 8.6 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.7 0.0 33.9 186.2 2000 20.3 8 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1998	769	39	2,723	263	294	636	10,240	14,155	0			10,344			
2001			37	2,366		238	592	10,373	13 745	•						
2002 1,323 27 1,767 371 860 413 9,285 12,697 0 20,875 2003 1,254 22 1,986 704 946 593 7,832 12,061 0 27,176 20,04 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 20,05 1,349 24 2,062 788 976 847 8,185 12,858 0 21,195 20,06 1,259 23 2,137 899 1,034 758 4,323 8,150 0 6,057 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 20,07 1,218 20									13,293							
2003 1,254 22 1,986 704 946 593 7,832 12,061 0 27,176 2004 1,375 23 2,057 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,858 0 21,517 2006 1,259 23 2,137 899 1,034 758 4,323 8,150 0 6,057 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 **Trillion Btu** **Trillion Btu** 1960 135.0 16.6 12.2 1.3 3.5 65.0 20.0 102.0 (s) 15.6 0.0 11.2 280.2 1965 162.4 28.3 18.5 1.7 2.3 52.2 33.9 108.5 (s) 20.4 0.0 17.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1980 88.6 85.5 5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 856.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 22.6 0.0 34.3 185.3 1996 19.7 850.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 850.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.5 191.6 1998 19.2 840.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.7 0.0 33.9 186.2 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.0 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.0 1900 20.3 841.4 12.3 2.7 1.3 3.4 590 78.7 0.0 11.7 0.0 33.9 186.0	2001	1,286	27	2,334	633	787	540	9,067	13,361							
2004 1,375 23 2,067 456 1,037 719 8,740 13,008 0 21,195 2005 1,349 24 2,062 788 976 847 8,185 12,858 0 21,517 2006 1,259 23 2,137 899 1,034 758 4,323 8,9150 0 5,980 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 5,980 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980 2007 1,218 20 1,542 647 1,040 654 5,636 9,520 0 5,980		1,323														
2005	2003	1,254	22	1,986	704 456	1 037		7,832 8.740	12,061				27,176			
Trillion Btu Tril	200 4 2005	1,373	23	2,057	788	976	847	8 185	12,000				21,193			
Trillion Btu Tril	2005	1,349	23	2,002	R 899	1 034	758		R 9 150				6.057			
1960 135.0 16.6 12.2 1.3 3.5 65.0 20.0 102.0 (s) 15.6 0.0 11.2 280.2 1965 162.4 28.3 18.5 1.7 2.3 52.2 33.9 108.5 (s) 20.4 0.0 17.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1980 88.6 85.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 856.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 850.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 851.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 12.3 0.0 34.5 191.6 1997 19.3 868.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 840.0 15.9 1.0 1.5 1.9 5.3 60.7 79.3 0.0 11.1 0.0 35.3 190.4 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 841.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	2007	1,218	20	1,542	647	1,040	654	5,636	9,520				5,980			
1965 162.4 28.3 18.5 1.7 2.3 52.2 33.9 108.5 (s) 20.4 0.0 17.3 336.9 1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1980 88.6 R55.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 R56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R50.2 10.1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Tri</th> <th>Ilion Btu</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								Tri	Ilion Btu							
1970 162.7 44.9 18.9 2.4 1.4 41.9 37.2 101.8 (s) 24.1 0.0 28.9 362.3 1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1980 88.6 R 55.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 R 56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 </td <td></td> <td></td> <td></td> <td>12.2</td> <td>1.3</td> <td>3.5</td> <td>65.0</td> <td>20.0</td> <td></td> <td>(s)</td> <td>15.6</td> <td></td> <td></td> <td></td> <td>27.6</td> <td>307.8</td>				12.2	1.3	3.5	65.0	20.0		(s)	15.6				27.6	307.8
1975 102.2 43.6 20.0 3.3 1.5 31.3 37.6 93.7 0.0 22.6 0.0 30.9 293.0 1980 88.6 R 55.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 R 56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 11.3 0.0 34.3 185.3 1997 19.3 R 68.2 10.0 <td></td> <td>41.3</td> <td>378.2</td>															41.3	378.2
1980 88.6 R 55.5 19.2 4.3 0.8 16.8 35.9 76.9 0.0 16.4 0.0 44.6 281.7 1985 74.8 R 56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 12.3 0.0 34.5 191.6 1997 19.3 R 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 R 40.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 <t< td=""><td></td><td>162.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(s)</td><td></td><td></td><td></td><td></td><td>69.9</td><td>432.3</td></t<>		162.7								(s)					69.9	432.3
1985 74.8 R 56.5 16.6 2.1 1.6 6.4 47.4 74.1 0.0 19.2 0.0 52.2 276.7 1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 12.3 0.0 34.5 191.6 1997 19.3 R 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 R 40.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 R 38.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 <td< td=""><td></td><td></td><td>43.6 R 55.5</td><td></td><td>3.3</td><td>1.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>293.0</td><td>74.4 107.4</td><td>367.4 389.1</td></td<>			43.6 R 55.5		3.3	1.5								293.0	74.4 107.4	367.4 389.1
1990 57.4 63.5 12.0 2.3 1.6 7.7 56.2 79.8 0.0 9.7 0.0 65.9 276.3 1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 12.3 0.0 34.5 191.6 1997 19.3 R 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 R 40.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 R 38.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 R 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1900		R 56 5		4.3	1.6				0.0	10.4				120.3	397.0
1995 19.2 R 50.2 10.1 2.5 1.7 4.6 51.4 70.3 0.0 11.3 0.0 34.3 185.3 1996 19.7 R 51.5 12.0 2.8 1.8 8.6 48.8 73.9 0.0 12.3 0.0 34.5 191.6 1997 19.3 R 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 R 40.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 R 38.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 R 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1990		63.5		2.1	1.6					9.7				152.3	428.6
1997 19.3 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 840.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 841.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0			R 50.2		2.5	1.7									77.9	263.2
1997 19.3 68.2 10.0 1.5 1.9 5.3 60.7 79.3 0.0 11.8 0.0 34.6 213.1 1998 19.2 840.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 838.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 841.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1996	19.7	R 51.5	12.0							12.3				78.4	263.2 270.0
1998 19.2 K 40.0 15.9 1.0 1.5 4.0 62.6 84.9 0.0 11.1 0.0 35.3 190.4 1999 19.9 K 38.5 13.8 0.6 1.2 3.7 63.0 82.3 0.0 11.7 0.0 33.9 186.2 2000 20.3 K 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1997	19.3	K 68 2	10.0	1.5	1.9	5.3	60.7	79.3	0.0	11.8	0.0	34.6	213.1	78.3	291.3
2000 20.3 ^R 41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0	1998	19.2	R 40.0	15.9	1.0	1.5	4.0		84.9	0.0			35.3		80.0	270.5
2000 20.3 K41.4 12.3 2.7 1.3 3.4 59.0 78.7 0.0 11.3 0.0 34.3 186.0			R 38.5	13.8											77.5	263.8
		20.3	K 41.4	12.3							11.3			186.0	78.1	264.1
2001 33.6 28.4 13.6 2.3 4.1 3.4 56.5 79.9 0.0 5.7 0.0 34.7 182.3	2001	33.6	28.4	13.6	2.3	4.1	3.4	56.5	79.9	0.0	5.7		34.7	182.3	77.4	259.7
2002 34.1 27.9 10.3 1.3 4.5 2.6 57.8 76.5 0.0 5.8 0.0 71.2 215.5 2003 31.8 22.5 11.6 2.6 4.9 3.7 48.5 71.3 0.0 11.5 0.0 92.7 229.8	2002	34.1		10.3			2.6		76.5				/1.2	215.5	158.8 204.6	374.3 434.4
2003 31.8 22.5 11.6 2.6 4.9 3.7 48.5 71.3 0.0 11.5 0.0 92.7 229.8 2004 34.5 24.0 12.0 1.6 5.4 4.5 54.0 77.5 0.0 11.6 0.0 72.3 220.0	2003 2004		22.5 24.0						71.3 77.5					229.8 220.0	160.0	R 380.1
2005 33.0 24.9 12.0 2.9 5.1 5.3 50.5 75.7 0.0 11.7 0.0 73.4 218.7		33.0	24.0		2.9	5.1	1 .5		75.7					218.7	160.6	379.3
2006 30.4 23.8 12.4 R 3.2 5.4 4.8 27.2 R 53.0 0.0 12.3 0.0 20.7 R 140.2		30.4	23.8		R 3 2	5.4		27.2	R 53 0		12.3		20.7	R 140 2	44.7	379.3 R 184.9
2007 29.8 21.1 9.0 2.3 5.4 4.1 35.8 56.7 0.0 12.0 0.0 20.4 140.0		29.8			2.3	5.4		35.8	56.7		12.0			140.0	44.0	184.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Maryland

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	87	1	279	2,352	2,457	9	318	21,810	3,893	31,117	0	19			
1965 1970	20	1	474	3,774	2,856	10	310	26,981	5,024	39,429	0	0			
1970	10	2 2	309 205	4,184 5,244	4,477 2,973	32 46	299 307	36,795 43,275	3,931 2,807	50,027 54,856	0	0			
1980	0	4	173	5,848	3,512	26	310	43,737	4,514	58,121	0	23			
1985	Ö	2	76	7,506	3,901	60	282	45,163	1,511	58,499	1	75			
1990	0	2	74	8,091	3,637	52	318	46,887	1,825	60,883	_0	102			
1995	0	3	48	8,744	3,430	48	303	51,115	931	64,619	76	137			
1996 1997	0	3	35 43	9,740 9,729	3,897 R 4,098	49 102	294 311	51,425 53,200	755 724	66,196 R 68,206	64 73	133 130			
1998	0	3	56	10,372	R 3,924	13	325	54,260	1,141	R 70,090	60	134			
1999	Ŏ	3	39	11,960	3,938	12	329	56,617	977	73,872	61	146			
2000	0	3	40	12,248	4,108	76	324	56,790	787	74,373	68	156			
2001	0	3	105	12,513	2,929	7	297	58,442	613	74,905	7	174			
2002	0	3	100	12,104	1,718	12	293	59,552	694	74,472	868	171			
2003 2004	0 0	3 3	88 82	12,336 13,430	2,343 3,140	30 34	271 274	60,929 62,544	404 1,245	76,400 80,749	6 7	461 481			
2004	0	3	123	14,510	4,362	46	273	63,544	1,160	84,018	R 1 387	477			
2006	ő	3	108	14,835	4,144	44	266	64,605	1,221	85,222	R 1,387 R 3,893	482			
2007	0	3	107	14,853	3,522	41	275	65,189	730	84,717	4,869	524			
								Trillion Btu							
1960	2.3	0.9	1.4	13.7	13.5	(s) (s) 0.1	1.9	114.6	24.5	169.6	0.0	0.1	172.8	0.2	172.9
1965 1970	0.5 0.2	1.2	2.4 1.6	22.0 24.4	15.7	(S)	1.9 1.8	141.7	31.6 24.7	215.4	0.0	0.0	217.1 273.1	0.0	217.1
1970		2.1 2.2	1.0	30.5	25.0 16.5	0.1	1.8	193.3 227.3	17.6	270.8 295.1	0.0 0.0	0.0 0.0	273.1	0.0 0.0	273.1 297.3
1980	(s) 0.0	4.0	0.9	34.1	19.5	0.2	1.9	229.8	28.4	314.5	0.0	0.0	318.6	0.0	318.8
1985	0.0	2.3	0.4	43.7	21.7	0.2	1.7	237.2	9.5	314.5	(s)	0.3	317.0	0.6	317.6
1990	0.0	2.5	0.4	47.1	20.3	0.2	1.9	246.3	11.5	327.7	0.0	0.3	330.5	0.8	331.3
1995	0.0	3.0	0.2	50.9 56.7	19.4	0.2	1.8	266.6	5.9 4.7	345.1	0.3	0.5	348.5	1.1	349.5
1996	0.0	2.8	0.2	56.7	22.1	0.2	1.8	268.2	4.7	354.0	0.2	0.5	357.2	1.0	358.2
1997	0.0	3.3 3.2	0.2	56.7 60.4	23.2 22.2	0.4	1.9	277.3	4.6	R 364.3	0.3	0.4 0.5	368.0 378.6	1.0	369.0 379.6
1998 1999	0.0 0.0	3.2	0.3 0.2	60.4 69.7	22.2	(s) (s)	2.0 2.0	282.8 295.0	7.2 6.1	374.9 395.4	0.2 0.2	0.5 0.5	378.6 399.4	1.0 1.1	379.6 400.5
2000	0.0	3.5	0.2	71.3	23.3	0.3	2.0	295.9	4.9	397.9	0.2	0.5	401.9	1.1	400.5
2000	0.0	3.1	0.5	72.9	16.6		1.8	304.5	3.9	400.2	(s)	0.6	403.8	1.3	405.2
2002	0.0	2.8	0.5	70.5	9.7	(s) (s)	1.8	310.1	4.4	397.1	(s) 3.1	0.6	400.4	1.3	401.7
2003	0.0	3.1	0.4	71.9	13.3	0.1	1.6	317.3	2.5	407.1	(s)	1.6	411.8	3.5	415.2
2004	0.0	2.8	0.4	78.2 84.5	17.8	0.1	1.7	326.2	7.8	432.2	(s) R 4.9	1.6	436.7	3.6	440.3
2005	0.0	2.9 R 3.3	0.6	84.5	24.7	0.2	1.7	331.6	7.3	450.6	K 4.9	1.6	455.1 R 462.0	3.6	458.7 R 465.6
2006 2007	0.0 0.0	3.3	0.5 0.5	86.4 86.5	23.5 20.0	0.2 0.1	1.6 1.7	337.1 340.2	7.7 4.6	457.0 453.7	R 13.8 17.2	1.6 1.8	458.8	3.6 3.9	R 465.6 462.7
2001	0.0	J. T	0.0	00.5	20.0	0.1	1.7	J -1 0.2	7.0	700.7	11.2	1.0	+50.0	5.5	702.7

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Maryland

				Petro	oleum		Needeen		Biomass				Floorista	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	3,088	(s)	166	16 26	0	182	0	1,356		0	0	0	0	
1965	6,018	(s) 11	269	26	0	295	0	1,140 1,906 2,311		0	0	0	0	
1970 1975	5,950 3,873		9,946	945 688	0	10,891 18,669	0 4,386	1,906		0	0	0	0	
1975	3,873 5,908	(s) 5	17,982 8,139	1,111	0	9,250	4,386 10,947	1,270		0	0	0	0	
1985	7,046	5 1	5,131	830	0	5,961	9,926	1,270		0	0	0	0	
1990	8,945	21	6,945	598	0	7,543	1,251	1,524 2,299		0	0	0	0	
1995	10,141	19	2,287	674	0	2,961	12,938	1 442		0	0	0	0	
1995 1996	10,540	12	2,293	674 792	0	3,085	12,093	1,442 2,457		0	0	0	0	
1997	10,417	16	2,600	650	Ö	3,250	13,213	1 588		Ŏ	Ö	Ö	Õ	
1998	10,968	22	5,753	694	Ō	6,447	13,331	1.740		0	Ö	0	0	
1999	10,980	23 29	7.462	535 582	0	7,997	13,312	1,424 1,733		0	0	0	0	
2000	11,327	29	3,733	582	0	4,316	13,827	1,733		0	0	0	0	
2001	11.158	18	4.590	976	0	5,565	13,656	1 184		0	0	0	37	
2002	11,245	22	3,402	709	0	4,111	12,128	1,661		0	0	0	0	
2003 2004	11,780	11	5,022	1,154	0	6,176	13,691	2,647 2,508		0	0	0	0	
2004	11,576	12	4,516	1,137	0	5,654	14,580	2,508		0	0	0	0	
2005 2006	11,710 11,638	20 22	5,328	1,196 449	0	6,524	14,703 13,830	1,704		0	0	0	0	
2006	11,884	22	594 1,044	764	0	1,044 1,808	14,353	1,704 2,104 1,652		0	0	0 0	0	
2001	11,004	25	1,044	704		1,000	,			0			0	
							Trillion E	3tu						
1960	82.2	0.1	1.0	0.1	0.0	1.1	0.0	14.6	0.0	0.0	0.0	0.0	0.0	98.0
1965	158.7	0.1	1.7	0.1	0.0	1.8	0.0	11.9	0.0	0.0	0.0	0.0	0.0	172.5
1970 1975 1980	146.4	11.7	62.5	5.5	0.0	68.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	246.2
1975	94.2 146.3	0.4 R 5.4	113.0	4.0	0.0	117.0	48.3	24.0	0.0	0.0	0.0	0.0	0.0	284.0 341.8
1980	140.3	1 5.4	51.2 32.3	6.5 4.8	0.0 0.0	57.6 37.1	119.4 105.4	13.2 15.9	0.0 0.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	338.5
1985 1990	178.4 227.9	1.4 R 21.7	32.3 43.7	3.5	0.0	47.1	13.2	23.9	7.3	0.0	0.0	0.0	0.0	341.2
1005	262.0	10.5	14.4	3.9	0.0	18.3	135.9	23.9 1/1 Q	10.1	0.0	0.0	0.0	0.0	461.6
1995 1996	262.9 271.7	19.5 R 12.3	14.4	4.6	0.0	19.0	127.0	14.9 25.4	12.1	0.0	0.0	0.0	0.0	467.5
1997	269.0	16.1	16.3	3.8	0.0	20.1	138.7	16.2	11.7	0.0	0.0	0.0	0.0	471.9
1998	269.0 283.3	22.3	36.2	4.0	0.0	40.2	139.9	17.7	12.1	0.0	0.0	0.0	0.0	515.5
1999	284.1	R 23.7	46.9	3.1	0.0	50.0	139.1	14.6	12.7	0.0	0.0	0.0	0.0	524.2
2000	289.7	30.1	23.5	3.4	0.0	26.9	144.2	17.7	12.3	0.0	0.0	0.0	0.0	520.9
2001	283.3	18.1	28.9	5.7	0.0	34.5	142.7	12.2	7.0	0.0	0.0	0.0	0.1	498.0
2002	291.7	23.2	21.4	4.1	0.0	25.5	126.6	16.9	7.3	0.0	0.0	0.0	0.0	491.3
2003	297.6	11.4	31.6	6.7	0.0	38.3	142.7	27.1	7.1	0.0	0.0	0.0	0.0	524.2
2004	291.3	12.5	28.4	6.6	0.0	35.0	152.0	25.1	7.3	0.0	0.0	0.0	0.0	523.3 535.2
2005	295.5	R 21.5	33.5	7.0	0.0	40.5	153.4	17.0	7.3	0.0	0.0	0.0	0.0	535.2
2006	293.2	22.8	3.7 6.6	2.6	0.0	6.4	144.3	20.9 16.3	7.6 7.5	0.0	0.0 0.0	0.0	0.0 0.0	495.2
2007	297.2	24.1	0.0	4.4	0.0	11.0	150.5	10.3	7.5	0.0	0.0	0.0	0.0	506.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Massachusetts

						Petroleum				Martan	II. dec	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	ı kWh	Wood and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	4,559	78	51,240	1,209	1,148	34,993	39,108	11,024	138,722	34	982					
1965	4,932	114	55,825	3,166	1,511	39,752	54,207	10,100	164,561	966	664					
1970 1975	910	147	59,239 58,665	7,864	1,820	49,527 54,630	86,130 65,975	7,290 4,839	211,870 194,432	1,209	753					
1975	1,016 874	154 183	37,613	8,009 8,573	2,315 2,125	54,630 51,443	54,143	4,839 5,355	159,253	3,781 3,232	417 158					
1985	4,176	219	36,020	6,984	1,719	54,847	36,075	4,956	140,600	6.133	262					
1990	4,370	264	38,606	9,806	2,631	56,125	31,948	4,941	144,056	5,070	1,249					
1995	4,149	382	37,278	6,636	2,143	58,775	13,869	4,700	123,401	4,486	869					
1996 1997	4,498 4,891	377 403	34,449 34,545	6,873 R 7,301	2,563 2,109	59,794 60,912	15,396 22,386	7,277 7,409	126,352 R 424 662	5,324 4,310	1,189					
1997	4,373	359	32,837	R 7,736	1,969	62,284	22,366 25,658	7,409	126,352 R 134,663 R 137,966	5,698	1,032 1,030					
1999	4,509	345	32,766	8,081	2,295	63,433	19,248	7,833	133,657	4,518	975					
2000	4,556	343	37,019	8,204	2,923	65,029	16,653	8,407	138,235	5,512	1,065					
2001	4,429	349	38,599	7,003	2,910	65,358	16,347	5,186	135,404	5,144	703					
2002 2003	4,735 4,498	393 404	37,750 38,654	5,609 6,396	2,315 2,608	67,106 66,973	12,843 13,762	5,155 4,743	130,777 133,135	5,769 4,978	875 1,075					
2003	4,446	373	37,923	8,235	1,962	68,242	14,152	4,967	135,480	5,939	998					
2005	5,136	378	37,668	9,025	2,875	68,048	14,379	4,813	136,809 R 124,392	5,475	1,042					
2006	4,843	371	32,642	8,387	3,681	68,400	6,504	4,779	R 124,392	5,830	1,513					
2007	5,227	409	32,524	8,235	3,362	70,647	7,011	4,045	125,825	5,120	797					
								Trillion Btu								
1960 1965	118.7 127.9	80.6 115.7	298.5 325.2	6.7 17.8	4.6 6.1	183.8 208.8	245.9 340.8	64.8 59.0	804.3 957.7	0.4 11.4	10.6	42.8 48.7	0.0 0.0	-3.0 -21.7	0.0 0.0	1,054.3 1,246.7
1905	21.4	149.1	345.1	44.5	6.9	260.2	540.6 541.5	43.9	1,242.0	13.3	6.9 7.9	40.7 57.1	0.0	-21.7 -24.8	0.0	1,466.0
1975	24.5	154.6	341.7	45.3	8.6	287.0	414.8	29.1	1,126.5	41.6	4.3	49.0	0.0	22.3	0.0	1,422.8
1980	22.8	R 185.5	219.1	48.5	7.8	270.2	340.4	31.2	917.2	35.3	1.6	70.9	0.0	37.1	-15.6	1,254.8
1985	110.2	R 224.8	209.8	39.5	6.2	288.1	226.8	28.6	799.1	65.1	2.7	62.7	0.0	45.5	10.9	1,321.1
1990 1995	114.0 105.4	R 273.9 R 391.6	224.9 217.1	55.5 37.6	9.5 7.8	294.8 306.5	200.9 87.2	29.0 27.5	814.5 683.7	53.6 47.1	13.0 9.0	52.1 63.3	0.2 0.3	90.5 129.1	6.2 5.7	1,418.1 1,435.1
1995	113.7	R 387.4	200.7	39.0	9.3	311.9	96.8	41.2	698.8	55.9	12.3	65.8	0.3	142.6	5.0	1,481.8
1997	122.9	R 411.6	201.2	41.4	7.6	317.5	140.7	41.7	750.2	45.2	10.5	61.4	0.4	85.6	6.2	1,494.1
1998	109.9	R 367.1	191.3	R 43.9	7.1	324.6	161.3	42.1	R 770.3	59.8	10.5	55.5	0.4	73.6	5.9	R 1,453.0
1999	113.6	R 361.4	190.9	45.8	8.3	330.6	121.0	44.0	740.5	47.2	10.0	55.1	0.4	141.3	6.5	1,476.0
2000 2001	114.7 109.0	357.7 364.1	215.6 224.8	46.5 39.7	10.5 10.5	338.8 340.5	104.7 102.8	48.0 30.8	764.2 749.2	57.5 53.7	10.9 7.3	58.5 40.3	0.4 0.4	178.3 199.3	6.0 3.9	1,548.2 1,527.2
2001	118.4	R 408.9	219.9	31.8	8.4	349.5	80.7	30.6	749.2 721.0	60.2	7.3 8.9	40.3 37.4	0.4	189.3	1.6	1,545.9
2003	109.4	R 420 2	225.2	36.3	9.5	348.7	86.5	27.9	734.0	51.9	11.0	38.9	0.5	168.5	0.4	1.534.8
2004	105.1	R 387.4	220.9	46.7	7.1	355.9	89.0	29.2	748.7	61.9	10.0	40.5	0.6	185.5	1.6	1,541.3 R 1,556.0
2005	119.3	R 385.3	219.4	51.2	10.4	355.1	90.4	28.2	754.7	57.1	10.4	R 35.7	0.7	190.8	2.0	K 1,556.0
2006 2007	112.2 120.1	R 376.2 417.3	190.1 189.5	47.6 46.7	13.3 12.1	356.9 368.7	40.9 44.1	28.4 23.6	677.2 684.6	60.8 53.7	15.0 7.9	R 34.9 35.1	0.7 0.8	194.7 192.5	1.9 2.5	R 1,473.7 1,514.6
2001	120.1	411.3	0.501	40.7	14.1	300.7	44 .1	23.0	004.0	55.1	1.9	33.1	0.0	132.3	2.3	1,314.0

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Massachusetts

				Petro	leum		Biomass			5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	487	45	34,305	4.858	752	39.915	427			4,190			
1965	210	45 65	37,082	4,858 2,682	926	39,915 40,689	378			5,766			
1970	104	83	38,530	1,434 591	933	40,897	459			9,335			
1975	30	90	37,860	591	1,006	39,456	491			10,648			
1980 1985	21	94	22,712	323 577	675	23,710 21,663	2,099 1,470			11,571			
1985	30	98	20,064	577	1,021	21,663	1,470			12,907			
1990	13	107	20,540	163	1,358	22,061	904			15,581			
1995 1996	4	106 114	20,064 18,362	130 148	1,451 1,720	21,644 20,230	976 1,014			15,993 16,256			
1996	3	112	18,332	190	1,720	20,230	726			16,278			
1998	3	102	16,979	197	1,478	18,654	646			16,388			
1999	4	106	17,825	179	1,522	19,526	680			17,392			
2000	ż	114	20 445	191	1,883	22,518	731			17,562			
2001	2	107	22,293	197	1,709	24.199	575			17,984			
2002	11	109	22,066	127	1,383	23,576	583			18,695			
2003	7	126	20,202	244	2,022	22,467	614			19,591			
2004	4	113	19,337	279	1,583	21,199	630			19,769			
2005	3	119	18,425	299	2,095	20,819 R 17,976	R 437			20,539			
2006	1	104	15,645	238	R 2,092	^K 17,976	R 398			19,624			
2007	2	115	15,882	161	2,075	18,118	439			20,138			
						Т	rillion Btu						
1960	12.1	46.6	199.8	27.5	3.0	230.4	8.5	0.0	0.0	14.3	311.9	35.4	347.3
1965	5.2 2.5	65.7	216.0	15.2	3.7	234.9	7.6	0.0	0.0	19.7	333.0	47.0	380.0
1970	2.5	83.6	224.4	8.1	3.5	236.1	9.2	0.0	0.0	31.8	363.2	77.1	440.3
1975 1980	0.7 0.5	90.6 R 96.0	220.5	3.3 1.8	3.7 2.5	227.6	9.8	0.0	0.0	36.3 39.5	365.0 306.4	87.4 95.2	452.4
1980	0.5 0.7	R 100.1	132.3 116.9	1.8	2.5 3.7	136.6 123.8	42.0 29.4	0.0 0.0	0.0 0.0	39.5 44.0	306.4 296.4	95.2 101.4	401.6 397.9
1990	0.7	R 110.6	119.6	3.3 0.9	4.9	125.5	18.1	0.0	0.0	53.2	307.7	122.9	430.6
1005	0.3	R 108 5	116.0	0.3	5.3	122.9	10.1	0.0	0.2	54.6	305.7	123.9	429.6
1995 1996	0.1	R 108.5 R 117.3	116.9 107.0	0.7 0.8	6.2	114.0	19.5 20.3	0.0 0.0	0.2 0.2	55.5	307.3	126.1	433.4
1997	0.1	R 114.5	106.8	1.1	5.8	113.7	14.5	0.0	0.2	55.5	298.5	125.8	424.3
1998	0.1	103.6	98.9	1.1	5.3	105.4	12.9	0.0	0.2	55.9	278.1	126.8	404.9
1999	0.1	R 112.1	103.8	1.0	5.5	110.3	13.6	(s)	0.2	59.3	295.6	135.7	431.4
2000	(s)	119.1	119.1	1.1	6.8	127.0	14.6	(s)	0.2	59.9	320.9	136.3	457.2
2001	(s) 0.3	<u>_</u> 111.5	129.9	1.1	6.2	137.1	11.5	(s)	0.2	61.4	321.7	136.7	458.4
2002	0.3	R 114.9	128.5	0.7	5.0	134.3	11.7	(s)	0.2	63.8	325.0	142.2	467.2
2003	0.2	R 132.0	117.7	1.4	7.3	126.4	12.3	(s)	0.2	66.8	337.8	147.5	485.3
2004	0.1	117.9	112.6	1.6	5.7	119.9	12.6 R 8.7	(s)	0.2 0.2	67.5	318.1	149.2	467.4 R 400.2
2005	0.1	R 119.8	107.3	1.7	7.6 R 7.5	116.6 R 100.0	R 8.7	(S)	0.2	70.1	R 315.5 R 279.2	153.3	467.4 R 468.8 R 424.0
2006 2007	(s) 0.1	103.9 116.2	91.1 92.5	1.4 0.9	1.7.5 7.5	100.0	** 8.0 8.8	(s) (s)	0.2 0.3	67.0 68.7	279.2	144.8 148.2	443.1
2001	0.1	110.2	32.3	0.3	1.3	100.9	0.0	(5)	0.3	00.7	∠34.3	140.2	440.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources béginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Massachusetts

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	338	10	11,965	404	133	135	10,036	22,672	0			3,011			
1965	159	16	12,933	223	163	92	14,503	27,914	ő			4,302			
1970	82	35	13,438	119	165	102	14,872	28,696	0			7,782			
1975	71	38	13,204	49	178	109	9,122	22,662	0			11,397			
1980	79	53	7,510	30	119	191	4,854	12,704	0			13,047			
1985 1990	107 50	41 51	6,369 7,409	108 127	180 240	188 69	3,157 4,473	10,001 12,317	0			15,566 19,520			
1995	23	82	6,478	110	256	65	3,069	9,978	0			20,255			
1996	29	96	5.637	47	303	65	2.430	8.483	Ő			20,711			
1997	26	106	5,678	47	285	48	2,239	8,297	0			21,203			
1998	23	90	5,404	70	261	66	1,417	7,218	0			21,773			
1999	33	65	3,830	225	269	63	1,184	5,571	0			21,815			
2000 2001	14 14	64 62	5,205 4,218	107 156	332 302	279 84	1,388 523	7,311 5,282	0			23,439 24,510			
2001	77	65	3,835	59	244	117	642	4,896	4			24,685			
2003	44	63	5,569	72	357	104	1,811	7,912	6			25,648			
2004	32	57	4,312	91	279	70	2,771	7,523	3			26,020			
2005	40	57	4,712	78	370	58	2,663	7,881	(s)			26,415			
2006	15	52	3,265	39	R 369	73	1,170	R 4,915	5			26,237			
2007	19	62	3,253	25	366	80	835	4,559	6			27,148			
								Trillion Btu							
1960	8.4	10.6	69.7	2.3	0.5	0.7	63.1	136.3	0.0	0.2	0.0	10.3	165.8	25.4	191.2
1965	3.9	16.5	75.3	1.3	0.7	0.5	91.2	168.9	0.0	0.1	0.0	14.7	204.1	35.1	239.2
1970	1.9	35.8	78.3	0.7	0.6	0.5	93.5	173.6	0.0	0.2	0.0	26.6	238.0	64.3	302.3
1975 1980	1.6 1.8	38.0 R 54.3	76.9 43.7	0.3 0.2	0.7 0.4	0.6 1.0	57.4 30.5	135.8 75.9	0.0 0.0	0.2 1.0	0.0 0.0	38.9 44.5	214.4 173.0	93.5 107.3	307.9 280.3
1985	2.5	R 42.4	37.1	0.2	0.4	1.0	19.8	59.2	0.0	0.7	0.0	53.1	157.2	122.3	279.5
1990	1.3	K 52.4	43.2	0.7	0.9	0.4	28.1	73.2	0.0	2.0	(s)	66.6	195.4	154.0	349.4
1995	0.6	R 84.4	37.7	0.6	0.9	0.3	19.3	58.9	0.0	2.7	0.1	69.1	215.7	156.9	372.7
1996	0.7	R 98.7	32.8	0.3	1.1	0.3	15.3	49.8	0.0	2.8	0.1	70.7	222.7	160.7	383.4
1997	0.6	107.9	33.1	0.3	1.0	0.3	14.1	48.7	0.0	2.4	0.2	72.3	232.1	163.9	396.0
1998	0.6	R 91.5	31.5	0.4	0.9	0.3	8.9	42.1	0.0	2.2	0.2	74.3	210.8	168.5	379.3
1999	0.9 0.4	R 69.1	22.3 30.3	1.3 0.6	1.0	0.3	7.4	32.3	0.0	2.8	0.2	74.4 80.0	179.7	170.3 181.9	350.0
2000 2001	0.4	66.6 64.5	30.3 24.6	0.6	1.2 1.1	1.5 0.4	8.7 3.3	42.3 30.3	0.0 0.0	3.1 2.7	0.2 0.2	80.0 83.6	192.6 181.6	181.9 186.4	374.5 368.0
2001	1.9	68.1	22.3	0.3	0.9	0.4	4.0	28.2		2.7	0.2	84.2	185.6	187.7	373.4
2003	1.1	65.6	32.4	0.4	1.3	0.5	11.4	46.1	(s) 0.1	2.9	0.3	87.5	203.6	193.1	396.7
2004	0.8	59.4	25.1	0.5	1.0	0.4	17.4	44.4			0.4	88.8	197.7	196.4	30/1
2005	1.0	57.2	27.4	0.4	_ 1.3	0.3	16.7	46.3	(s) (s)	3.8 R 2.3	0.5	90.1	197.4	197.1	R 394.5 R 366.9
2006	0.4	52.3	19.0	0.2	R 1.3 1.3	0.4	7.4	28.3	0.1	R 2.3 2.4	0.5	89.5	173.3	193.6	K 366.9
2007	0.5	62.0	18.9	0.1	1.3	0.4	5.3	26.1	0.1	2.4	0.5	92.6	184.2	199.9	384.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Massachusetts

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	1,266	12	2,322	260	133	17,875	4,351	24,942	117			5,075			
1965 1970	496 149	20 23	2,841 2,897	401 693	206 111	25,076 25,742	5,084 5,020	33,607 34,463	100 72			6,546 7,418			
1970	110	23 24	2,654	1,099	81	15,891	3,538	23,264	67			7,416			
1980	98	29	1,886	1,305	91	2,663	4,265	10,209	63			8,486			
1985	176	33	1,165	448	367	8,399	3,715	14.094	63			9,454			
1990	73	44	2,585	973	414	2,604	4,080	14,094 10,657	11			10,157			
1995	42	64	1,278	387	373	1,458	3,923	7,418	11			10,026			
1996	38 37	62	1,219	495	372	1,690	6,553	10,329	20			10,085			
1997	37	65	1,130	163	392	1,723	6,622	10,029	17			10,148			
1998 1999	35	63 78	1,011 1,217	185 348	316 297	1,780 900	6,644 6,843	9,935 9,605	11 12			10,212 9,966			
2000	33 55	76 75	944	651	306	1,099	7,510	10,511	12			10,533			
2001	54	73 81	1,283	859	913	2,153	4,310	9,517	8			9,757			
2002	44	86	978	649	916	1,732	4,454	8,729	6			10,087			
2003	57	44	1,903	193	937	969	3,943	7,945	5			9,984			
2004	54	44	1,947	67	969	720	4,091	7.795	2			9,947			
2005	68	48	1,895	371	909	767	3,911	7,853 R 8,876	(s) 3			9,871			
2006	77	43	1,591	R 1,186	929	1,115	4,055	K 8,876				9,602			
2007	85	46	1,360	892	791	968	3,361	7,372	14			9,450			
							Tr	Ilion Btu							
1960	33.2	12.0	13.5	1.0		112.4	27.4	155.0	1.3	34.1	0.0		252.8	42.8	295.6
1965	12.8	20.0	16.5	1.6		157.6	31.4	208.3	1.0	41.0	0.0		305.6	53.3	358.9
1970 1975	3.6	22.8 24.1	16.9	2.6 4.1	0.6 0.4	161.8 99.9	31.0	213.0 141.6	0.8 0.7	47.8	0.0	25.3 25.0	313.3	61.3 60.1	374.5 293.1
1975	2.6 2.4	R 29.4	15.5 11.0	4.1	0.4	99.9 16.7	21.7 25.0	58.0	0.7	39.0 27.8	0.0	25.0	233.0 144.7	69.8	293.1 214.5
1985	4.4	R 33.9	6.8	1.6	1.9	52.8	21.5	84.7	0.7	32.6	0.0	32.3	187.9	74.3	262.2
1990	1.8	R 45.9	15.1	3.5	2.2	16.4	24.0	61.1	0.1	7.6	0.0	34.7	151.1	80.1	231.3
1995	1.1	R 65.2	7.4	1.4	1.9	9.2	22.9	42.9	0.1	9.6	0.0	34.2	153.0	77.7	230.7
1996	0.9	63.4	7.1	1.8	1.9	10.6	37.0	58.4	0.2	9.8	0.0	34.4	167.1	78.3	245.4
1997	0.9	66.1	6.6	0.6	2.0	10.8	37.1	57.2	0.2	10.1	0.0	34.6	169.1	78.4	247.5
1998	0.9	_ 64.0	5.9	0.7	1.6	11.2	37.2	56.6	0.1	6.8	0.0	34.8	163.2	79.0	242.2
1999	0.8	R 82.8	7.1	1.3	1.5	5.7	38.2	53.8	0.1	7.0	0.0	34.0	178.5	77.8	256.3
2000	1.5	78.2	5.5	2.3	1.6	6.9	42.8	59.1	0.1	6.7	0.0	35.9	181.6	81.7	263.3
2001 2002	1.5 1.2	84.9 R 90.4	7.5 5.7	3.1 2.3	4.8 4.8	13.5 10.9	25.7 26.6	54.6 50.3	0.1 0.1	5.0 3.2	0.0	33.3 34.4	179.3 179.5	74.2 76.7	253.5 256.2
2002	1.2	R 46.3	5.7 11.1	2.3 0.7	4.8 4.9	6.1	20.6	46.0	0.1	3.2	0.0	34.4	179.5	76.7 75.2	206.4
2003	1.5	45.5	11.3	0.7		4.5	24.1	45.3	(s)	3.5	0.0	33.9	129.7	75.2 75.1	204.8
2005	1.9	48.2	11.0	1 2	17	4.8	23.0	44 9	(s)	3.5	0.0		122.2	73.7	_ 205.9
2006	2.0	43.3	9.3	R 4.3	4.8	7.0	24.2	R 49.6	(s)	3.7	0.0	32.8	R 131.4	70.8	R 202.3
2007	2.0 2.2	46.7	7.9	3.2	4.1	6.1	19.6	40.9	0.1	3.8	0.0		126.1	69.6	195.6

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Massachusetts

						Pe	troleum					D 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	22	(s)	968	2,371	1,209	4	443	34,725	1,207	40,927	0	105			
1965	2	(s)	1,702	2,632	3,166	22	408	39,454	2,472	49,856	0	105			
1970 1975	(s)	1	276	3,198	7,864	29	441 433	49,314	3,215	64,336	0	105			
1975	(s) 0	1	228 274	4,485 4,900	7,967 8,563	33 26	433 463	54,440 51,161	1,049 900	68,634 66,287	0	105 167			
1985	0	i	134	7,600	6,984	70	422	54,292	874	70,375	0	193			
1990	0	1	97	7,457	9,806	59	475	55,642	1,366	74.901	0	183			
1995	0	2	84	8,780	6,636	50	453	58,337	199	74,540	0	236			
1996	0	2	90	8,628	6,873 R 7,301	45	439	59,356	2,002	77,434	0	241			
1997 1998	0	2 2	87 87	8,945 8,884	R 7,736	47 45	464 486	60,472 61,902	1,380 30	R 78,696 R 79,169	0	252			
1999	0	3	96	9,301	8,081	156	491	63,073	21	81,220	0	234 234			
2000	ő	3	116	10,050	8,204	56	484	64,443	539	83,891	Ő	239			
2001	0	3	80	10,480	7,003	41	443	64,362	287	82.697	0	246			
2002	0	4	77	10,431	5,609	39	438	66,073	314	82,981	21	241			
2003 2004	0	2	81	10,028	6,396	36	405	65,931	7 2	82,884	21 197	292 406			
2004	0	2	95 117	11,721 12,255	8,235 9,025	32 40	410 408	67,203 67,081	646	87,699 89,572	R 1 735	406			
2006	0	2	49	11,986	8,387	34	397	67,399	374	88,626	R 1,735 R 4,690	386			
2007	0	2	87	11,885	8,235	29	410	69,776	281	90,704	6,029	403			
								Trillion Btu							
1960	0.6	0.3	4.9	13.8	6.7	(s) 0.1	2.7	182.4	7.6	218.1	0.0	0.4	219.3	0.9	220.2
1965	(s)	0.2	8.6	15.3	17.8		2.5	207.3	15.5	267.1	0.0	0.4	267.7	0.9	268.6
1970 1975	(s)	1.1 0.5	1.4 1.2	18.6 26.1	44.5 45.1	0.1 0.1	2.7 2.6	259.0 286.0	20.2 6.6	346.5 367.7	0.0 0.0	0.4 0.4	348.0 368.5	0.9 0.9	348.9 369.4
1975	(s) 0.0	0.5	1.4	28.5	48.4	0.1	2.8	268.7	5.7	357.7 355.7	0.0	0.4	356.9	1.4	358.3
1985	0.0	1.4	0.7	44.3	39.5	0.3	2.6	285.2	5.5	377.9	0.0	0.7	380.0	1.5	381.5
1990	0.0	1.3	0.5	43.4	55.5	0.2	2.9	292.3	8.6	403.4	0.0	0.6	405.3	1.4	406.7
1995	0.0	2.0	0.4	51.1	37.6	0.2	2.7	304.2	1.3	397.6	0.0	0.8	400.4	1.8	402.2
1996	0.0	2.3	0.5	50.3	39.0	0.2	2.7	309.6	12.6	414.7	0.0	0.8	417.8	1.9	419.6
1997 1998	0.0 0.0	2.5 2.0	0.4 0.4	52.1 51.7	41.4 R 43.9	0.2 0.2	2.8 2.9	315.2 322.6	8.7 0.2	420.8 R 422.0	0.0 0.0	0.9 0.8	424.2 424.8	2.0 1.8	426.2 426.6
1998	0.0	2.0	0.4	54.2	45.8	0.2	3.0	328.7	0.2	432.8	0.0	0.8	424.8 436.6	1.8	420.0 438.4
2000	0.0	2.6	0.6	58.5	46.5	0.0	2.9	335.8	3.4	447.9	0.0	0.8	450.0	1.9	453.2
2001	0.0	3.5	0.4	61.0	39.7	0.1	2.7	335.3	1.8	441.1	0.0	0.8	445.4	1.9	447.3
2002	0.0	4.6	0.4	60.8	31.8	0.1	2.7	344.1	2.0	441.8	0.1	0.8	447.2	1.8	449.1
2003	0.0	2.2	0.4	58.4	36.3	0.1	2.5	343.3	(s) (s)	441.0	0.1	1.0	444.3	2.2	446.5
2004 2005	0.0 0.0	2.0 _ 2.6	0.5 0.6	68.3 71.4	46.7 51.2	0.1 0.1	2.5 2.5	350.5 350.0	(s) 4.1	468.5 479.9	0.7 _R 6.1	1.4 1.4	471.9 483.8	3.1 3.0	475.0 _ 486.8
2005	0.0	R 2.2	0.6	7 1.4 69 8	47.6	0.1	2.5 2.4	350.0 351.7	2.4	479.9 474.2	R 16.6	1.4	483.8 R 477.7	2.8	R 480.6
2007	0.0	2.5	0.4	69.8 69.2	46.7	0.1	2.5	364.2	1.8	484.9	21.3	1.4	488.8	3.0	491.7

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Massachusetts

				Petro	leum		Noodoo		Biomass				Electricity.	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	18/aad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	2,446	11	9,990	277	0	10,267	34	865		0	0	0	0	
1960 1965	2,446 4,066	13	12,157	337	0	10,267 12,494	966	564		0	0	0	0	
1970	575	6	42,301	1,176	0	43.477	1,209	682		0	0	0	0	
1975 1980	804 676	1 5	39,912 45,726	503 616	0	40,415 46,342	3,781 3,232	350 96		0	0	0	0	
1985	3,863	45	23,645	822	0	24,467	6,133	200		0	0	0	4,311	
1990	4,234	61	23,505	614	0	24,120	5,070	1,238		0	0	0	1,921	
1995	4,080	128	9.143	678	ő	9,820	4,486	858		ő	0	0	1,790	
1996	4,427	103	9,143 9,273	603	0	9,877	5,324	858 1,169		0	0	0	1,591	
1997	4,826	117	17,043	461	0	17,504	4,310	1,014		0	0	0	1,863	
1998	4,312	102	22,432	559	0	22,991	5,698	1,018		0	0	0	1,759	
1999	4,439	93 88	17,142	593	0	17,735	4,518	963 1,053		0	0	0	1,934	
2000	4,485 4,359	88	13,627 13,384	376	0	14,003 13,709	5,512 5,144	1,053		0	0	0	1,779 1,137	
2001 2002	4,603	96 129	10,154	325 441	0	10,595	5,769	694 865		0	0	0	497	
2002	4,390	169	10,134	952	0	11,927	4,978	1 064		0	0	0	213	
2003 2004	4,357	157	10,658	607	ő	11,265	5,939	1,064 993		ő	0	0	480	
2005	5,025	152	10,304	381	Ö	10.685	5,475	1.041		Ö	Ŏ	Ö	613	
2006	4,750	169	3.844	155	0	3,999 5,072	5,830	1,504 778		0	0	0	580	
2007	5,120	183	4,928	144	0	5,072	5,120	778		0	0	0	734	
							Trillion E	Btu						
1960	64.5	11.2	62.8	1.6	0.0	64.4	0.4	9.3	0.0	0.0	0.0	0.0	0.0	149.8
1965 1970	106.0 13.4	13.3 5.7	76.4 265.9	2.0 6.8	0.0	78.4 272.8	11.4 13.3	5.9 7.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	215.0 312.3
1975	19.6	1.4	250.9	2.9	0.0	253.8	41.6	3.6	0.0	0.0	0.0	0.0	0.0	320.1
1980	18.1	R 5 1	287.5	3.6	0.0	291.1	35.3	1.0	0.0	0.0	0.0	0.0	0.0	350.1
1985	102.6	R 46 9	148.7	4.8	0.0	153.4	65.1	2.1	0.0	0.0	0.0	0.0	14.7	384.1
1990	110.6	R 63 8	147.8	3.6	0.0	151.4	53.6	12.9	24.4	0.0	0.0	0.0	6.6	423.1
1995	103.6	R 131.6 R 105.7 R 120.6	57.5	3.9	0.0	61.4	47.1	8.8	31.4	0.0	0.0	0.0	6.1	390.0
1996	111.9	R 105.7	58.3	3.5	0.0	61.8	55.9	12.1	33.0	0.0	0.0	0.0	5.4	385.7
1997	121.3	K 120.6	107.2	2.7	0.0	109.8	45.2	10.4	34.3	0.0	0.0	0.0	6.4	447.9
1998	108.3	106.0	141.0	3.3	0.0 0.0	144.3 111.2	59.8 47.2	10.4 9.8	33.6	0.0	0.0	0.0	6.0	468.4
1999 2000	111.8 112.7	94.5 91.2	107.8 85.7	3.5 2.2	0.0	87.9	57.5	10.7	31.7 34.1	0.0 0.0	0.0 0.0	0.0 0.0	6.6 6.1	412.9 400.2
2000	107.1	99.8	84.1	2.Z 1 Q	0.0	86.0	57.5 53.7	7.2	21.2	0.0	0.0	0.0	3.9	379.0
2002	115.0	131.0	63.8	1.9 2.6	0.0	66.4	60.2	7.2 8.8	19.5	0.0	0.0	0.0	1.7	402.6
2003	106.6	131.0 R 174.0	69.0	5.5	0.0	74.5	51.9	10.9	20.4	0.0	0.0	0.0	0.7	438.9
2004	102.7	R 162.6	67.0	3.5	0.0	70.5	61.9	10.0	20.6	0.0	0.0	0.0	1.6	429.9
2005	116.4	157.4	64.8	2.2	0.0	67.0	57.1	10.4	21.1	0.0	0.0	0.0	2.1	431.5
2006	109.7	174.4	24.2	0.9	0.0	25.1	60.8	14.9	21.0	0.0	0.0	0.0	2.0	407.9
2007	117.4	189.9	31.0	0.8	0.0	31.8	53.7	7.7	20.1	0.0	0.0	0.0	2.5	423.1

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.

Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Michigan

						Petroleum				Nueleen	Uhadas	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	25,930	370	30,235	3,369	2,827	65,782	11,840	14,867	128,920	0	2,030					
1965 1970	33,132 34,065	556 809	30,287 38,141	4,377 7,365	3,716 6,202	78,044 96,831	8,594 10,056	21,864 20,655	146,882 179,250	181 375	1,813 1,704					
1975	31,198	884	42,170	5.776	7.475	108,255	18,291	18,577	200,545	7.176	1,704					
1980	31,110	865	27,643	6,646	6,736	97,025	13,289	26,014	177,353	15,891	1,200					
1985	32,793	709	26,024	6,570	14,225	93,447	3,109	14,727	158,101	13,452	997					
1990 1995	34,817 36,037	879 976	24,357 27,444	10,057 8,818	14,901 14,497	99,913 110,546	2,728 1,602	18,745 22,883	170,701 185,790	21,611 24,448	1,628 1,597					
1996	36,958	1.027	28,754	9.045	18,306	110.520	1,777	24,118	192 519	26,829	1,784					
1997	36,116	994	29,692	9,045 R 9,487	14,524	112,389	1,553	29,319	R 196.965	21,914	1,712					
1998	38,255	876	29,895	R 9,033	13,108	114,913	2,113	28,334	R 197,396	12,494	1,397					
1999 2000	38,510 37,294	951 963	31,573 30,824	9,116 7,214	15,339 16,308	121,027 118,160	2,491 2,358	28,429 26,667	207,974 201,530	14,591 18,882	1,458 1,428					
2001	37,730	906	29,515	6,219	18,876	119,472	1,590	18,346	194,018	26,711	1,562					
2002	36,413	966	28,994	6,016	21,039	121,745	1,992	18,324	198,111	31,087	1,669					
2003 2004	36,973 38,503	925 917	29,463 31,139	2,695 3,733	20,578 20,826	119,019 118,967	2,153 2,098	19,469 20,621	193,377 197,385	27,954 30,562	1,386 1.540					
2004	39,442	917	30,315	3,431	20,626	119,584	2,096	19,658	198,354	32,872	1,540					
2006	37,965	R 803	29,929	4,124	15,036	118,106	1,201	18,594	186,990	29,066	1,520					
2007	39,618	829	29,371	5,270	16,217	116,059	1,783	18,773	187,473	31,517	1,270					
								Trillion Btu								
1960 1965	653.1 830.2	383.0 563.6	176.1 176.4	18.2 24.0	11.3 14.9	345.6 410.0	74.4 54.0	88.2 125.4	713.9 804.7	0.0 2.1	21.8 19.0	37.3 36.9	0.0 0.0	38.8 36.4	4.3 -1.4	1,852.2 2,291.4
1970	828.9	821.3	222.2	41.0	23.4	508.7	63.2	120.7	979.1	4.1	17.9	36.4	0.0	39.7	-1.4	2,726.0
1975	751.0	894.8	245.6	32.1	27.8	568.7	115.0	109.7	1,098.9	79.0	11.6	35.9	0.0	17.2	1.1	2,889.4
1980	759.0	874.7 R 719.9	161.0	37.1 36.7	24.7 51.3	509.7 490.9	83.6	149.2	965.4 836.0	173.3 142.9	12.5	90.6	0.0	-9.8	19.4 2.2	2,885.0
1985 1990	781.9 788.0	R 898.8	151.6 141.9	36.7 56.6	51.3 54.0	490.9 524.8	19.5 17.2	86.0 110.1	904.5	228.7	10.4 16.9	100.2 80.2	0.0 0.8	67.9 -26.5	-52.5	2,661.4 2,839.1
1995	786.7	R 992.7	159.9	50.0	52.5	576.5	10.1	133.6	982.6	256.9	16.5	88.2	1.1	-38.7	-2.1	3,083.8
1996	796.3	R 1 039 2	167.5	51.3	66.1	576.5	11.2	138.4	1,010.9	281.8	18.4	102.9	1.2	-65.0	-15.6	3,170.0
1997 1998	781.1 826.9	R 1,010.2 R 894.0	173.0 174.1	53.8 51.2	52.5 47.4	585.9 598.9	9.8 13.3	172.1 165.3	1,047.0 1,050.2	230.0 131.1	17.5 14.2	95.0 90.4	1.2 1.3	-0.6 91.4	-17.9 -27.6	3,163.5 3,071.9
1998	826.9	R 968.3	174.1	51.2 51.7	47.4 55.5	598.9 630.7	15.7	165.1	1,050.2	152.5	14.2	90.4	1.3	118.4	-27.6 -22.0	3,260.5
2000	799.8	R 984 3	179.5	40.9	58.8	615.6	14.8	154.3	1,064.0	196.9	14.6	94.8	1.4	103.1	-13.8	3,245.2
2001	789.7	R 928.7	171.9	35.3	68.2	622.4	10.0	108.9	1,016.8	279.1	16.1	76.6	1.5	-15.7	-11.3	3,081.3
2002 2003	739.9 747.9	966.4 924.8	168.9 171.6	34.1 15.3	76.0 74.7	634.0 619.7	12.5 13.5	108.4 115.4	1,033.9 1,010.2	324.5 291.3	17.0 14.2	70.7 81.1	1.6 2.0	-26.0 86.2	-7.6 -12.2	3,120.3 3,145.6
2003	747.9	924.6 918.5	181.4	21.2	74.7	620.4	13.2	122.5	1,010.2	318.7	15.4	84.3	2.0	R -15.6	-12.2 -10.9	R 3,120.3
2005	799.5	928.4	176.6	19.5	83.8	624.0	13.9	116.9	1,034.7	343.0	14.6	R 87.3	2.6	R -31.2	-9.2	R 3,169.6
2006	770.9	R 817.8	174.3	23.4	54.2	616.3	7.6	110.5	986.3	303.3	15.1	R 84.4	3.0	23.2	-7.2	R 2,996.7
2007	799.9	847.8	171.1	29.9	58.2	605.7	11.2	111.2	987.3	330.5	12.6	86.0	3.6	-36.7	-4.1	3,026.9

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy. Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Michigan

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	1,414	202 271	17,380	765 1,279	1,940 2,346	20,084 19,959	1,103 890			8,728			
1965 1970	1,007 481	340	16,334 18,839	1,279	2,340 4 403	23,877	829			11,309 17,103			
1975	119	335	19,420	545 302	4,493 5,219	24,942	796			20,886			
1980	65	387	9,195	83	3,375	12.653	2.115			22.260			
1985	65 56 54 33 32	387 341	6.192	83 425	4,427	11.045	2,115 2,193			22.302			
1990 1995	54	327 380	4,842 3,815	217	6.538	11,597 12,062	1,373 739 768			25,319 28,623			
1995	33	380	3,815	233	8,015	12,062	739			28,623			
1996	32	400	3.859	230 254	10,758	14,847 14,082	768			28,901 28,726			
1997	21	380	3,662	254	10,166	14,082	503			28,726			
1998 1999	16	320 351	2,653 2,994	272 606	9,500 10,763	12,426 14,364	447			29,808			
2000	2 2	351	2,994	6Ub	10,763	14,364	471			30,661 30,707			
2000	<u> </u>	368 344	2,902 2,654	356 222	13,848	14,338 16,724	506 673			30,707			
2001	32	3 44 368	2,034	160	14,789	10,724	683			34,336			
2002	4	368 386	2,216	264	14,776	17,161 17,255	719			33,669			
2004	18	362	2,040	221	13,021	15.283	737			33,104			
2005	12	359	1.945	219	13.915	16.079	R 1.018			36.095			
2006	1	316	1,504	153	R 8,839	16,079 R 10,495	737 R _{1,018} R ₉₂₇			34,622			
2007	16	328	1,371	95	10,052	11,519	1,022			35,366			
-						Т	rillion Btu						
1960 1965 1970	35.0	209.0	101.2	4.3	7.8	113.4	22.1	0.0	0.0	29.8	409.2	73.6	482.9
1965	24.8	274.8	95.1	4.3 7.3	9.4	111.8	22.1 17.8	0.0	0.0	38.6	467.8	92.1	559.9
1970	11.4	345.1	109.7	3.1	17.0	129.8	16.6	0.0	0.0	58.4	561.3	141.2	702.6
19/5	2.8	343.0	113.1	1.7	19.4	134.2	15.9	0.0	0.0	71.3	567.2	171.4	738.6
1980	1.6	394.9 R 348.9	53.6	0.5 2.4	12.4	66.4	42.3 43.9	0.0	0.0	76.0	581.1	183.1	764.2 698.5
1985	1.4	K 348.9	36.1	2.4	16.0	54.4	43.9	0.0	0.0	76.1	523.2	175.3	698.5
1990	1.3	R 341.9 R 395.4	28.2	1.2	23.7	53.1	27.5	0.6	0.2	86.4	503.4	199.8	703.1
1995 1996	0.8 0.8	R 413.2	22.2 22.5	1.3 1.3	29.0 38.9	52.6 62.6	14.8 15.4	0.7 0.8	0.3 0.3	97.7 98.6	553.2 582.5	221.8 224.2	775.0 806.8
1996	0.8	R 205 1	21.3	1.3	36.8	59.5	10.4	0.8	0.3	98.0	555.2	224.2	777.2
1997	0.5	R 395.1 R 334.7 R 365.3	21.3 15.5	1.4	34.3	51.3	10.1 8 Q	0.8	0.3	101.7	489.5	230.6	720.2
1999	0.4	R 365.3	17.4	3.4	38.9	59.8	8.9 9.4	0.9	0.3	104.6	532.1	239.3	771.4
2000		K 381.1	16.9	2.0	40.0	58.9	10.1	0.9	0.2	104.8	551.0	238.3	789.3
2001	(s)	R 354.4	15.5	1.3	50.0	66.8	13.5	1.0	0.2	110.2	544.4	245.6	790.1
2002	(s) (s) 0.8	R 354.4 367.2	12.9	0.9	53.4	67.2	13.7	1.1	0.2	117.2	567.4	261.2	790.1 828.5
2003	0.1	385.0	12.9	0.9 1.5	53.6	68.0	14.4	1.4	0.2	114.9	584.0	253.5	837.5
2004	0.4	361.8	11.9	1.3 1.2	47.1	60.2	14.7	1.5	0.3	112.9	552.0	249.9	801.9 R 842.6 R 757.9
2005	0.3	364.4	11.3	1.2	50.4 R 31.9	62.9	R 20.4	1.8	0.3	123.2	K 573.3	269.4	K 842.6
2006	(s) 0.4	321.8	8.8	0.9 0.5	[~] 31.9	R 41.5	R 18.5	2.1	0.4	118.1	552.0 R 573.3 R 502.5 525.6	255.4	^r 757.9
2007	0.4	336.5	8.0	0.5	36.1	44.6	20.4	2.5	0.6	120.7	525.6	260.4	786.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Michigan

					Petro	oleum				Biomass		B			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	982	43	3,212	566	342	324	1,175	5,619	0			6,381			
1965	760	85	3,019	946	414	536	839	5,754	ő			9,124			
1970	378	133	3,482	403	793	804	558	6,040	0			13,021			
1975	279	182	3,589	224	921	954	390	6,078	0			14,596			
1980 1985	243	190 158	3,123 2,449	15 11	596 781	823 699	225 274	4,781 4,216	0			16,765 18,421			
1985	197 214	158	2,449	11	1,154	770	71	4,216	0			21,986			
1995	221	194	1,638	102	1,414	77	5	3,236	0			32,153			
1996	238	201	1.766	149	1,899	77	5	3.896	Ŏ			32,896			
1997	167	192	1,917	56	1,794	76	55	3,897	0			33,231			
1998	129	163	1,506	66	1,676	208	2	3,458	0			34,710			
1999 2000	18 12	179 187	1,401 1,577	37	1,899 1,955	171 159	3 5	3,511 3,728	0			36,040 36,793			
2000	8	174	1,577	33 35	2,444	433	5 17	3,728 4,453	0			35,793 35,925			
2002	234	176	966	28	2.610	247	64	3,915	0			36,835			
2003	28	186	1,149	19	2,607	203	90	4,069	ő			35,391			
2004	161	175	1,063	22	2,298	191	49	3,623	0			38,632			
2005	141	175	1,267	28	2,456	207	4	3,963	0			39,600			
2006 2007	8 142	154 164	1,337 1,128	26 8	R 1,560 1,774	91 82	2 0	R 3,015 2,992	0			39,299 40,047			
2007	142	104	1,120	0	1,774	02		· · · · · · · · · · · · · · · · · · ·	0			40,047			
								Trillion Btu							
1960	24.3	44.5	18.7	3.2	1.4	1.7	7.4	32.4	0.0	0.4	0.0	21.8	123.4	53.8	177.2
1965	18.7	86.0	17.6	5.4	1.7	2.8	5.3	32.7	0.0	0.3	0.0	31.1	168.9	74.3	243.2
1970	9.0	134.7	20.3	2.3	3.0	4.2	3.5	33.3	0.0	0.3	0.0	44.4	221.7	107.5	329.3
1975 1980	6.5 5.9	186.4 194.0	20.9 18.2	1.3 0.1	3.4 2.2	5.0 4.3	2.4 1.4	33.1 26.2	0.0 0.0	0.3 1.0	0.0 0.0	49.8 57.2	276.0 284.4	119.8 137.9	395.8 422.3
1985	4.8	161.4	14.3	0.1	2.8	3.7	1.7	22.5	0.0	1.0	0.0	62.9	252.0	144.8	396.8
1990	5.3	166.5	11.7	0.1	4.2	4.0	0.4	20.5	0.0	7.3	0.0	75.0	270.9	173.5	444.4
1995	5.4	201.9	9.5 10.3	0.6	5.1	0.4	(s)	15.7	0.0	9.0	0.1	109.7	337.3	249.1	586.5
1996	5.9	208.3	10.3	0.8	6.9	0.4	(s) (s) 0.3	18.4	0.0	10.8	0.1	112.2	351.2	255.2	606.4
1997	4.1	200.0	11.2	0.3	6.5	0.4	0.3	18.7	0.0	11.0	0.2	113.4	342.7	256.9	599.6
1998	3.2	171.1	8.8	0.4	6.1	1.1	(s) (s)	16.3	0.0	9.4	0.2	118.4	314.2	268.6	582.8
1999 2000	0.4 0.3	186.8 193.6	8.2 9.2	0.2 0.2	6.9 7.1	0.9 0.8	(S)	16.1 17.3	0.0 0.0	9.4 8.6	0.2 0.2	123.0 125.5	331.8 343.0	281.3 285.5	613.0 628.5
2000	0.3	179.1	9.2 8.9	0.2	8.8	2.3	(s) 0.1	20.3	0.0	2.6	0.2	123.5	343.0	203.3	597.3
2002	5.5	175.8	5.6	0.2	9.4	1.3	0.4	16.9	0.0	6.5	0.2	125.7	330.6	280.2	610.8
2003	0.7	185.8	6.7	0.1	9.5	1.1	0.6	17.9	0.0	6.5	0.4	120.8	332.0	266.5	598.5 R 625.9
2004	3.9	175.1	6.2	0.1	8.3	1.0	0.3	15.9	0.0	7.0	0.4	131.8	334.2	291.7	R 625.9
2005	3.4	177.4	7.4	0.2	8.9	1.1	(s)	17.5	0.0	R 7.4	0.5	135.1	341.4	295.5	R 636.9
2006 2007	0.2 3.5	156.8 167.7	7.8 6.6	0.1 (s)	R 5.6 6.4	0.5 0.4	(s) 0.0	R 14.0 13.4	0.0 0.0	R 7.6 7.8	0.5 0.5	134.1 136.6	313.2 329.6	290.0 294.8	R 603.2 624.5
2001	0.0	107.7	0.0	(5)	0.4	0.7	0.0	10.4	0.0	1.0	0.0	100.0	020.0	204.0	027.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Michigan

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	13,011	117	7,091	524	3,151	9,574	10,949	31,288	212			12,482			
1965 1970	15,193 13,061	192 262	7,518 8,502	923 854	2,694 2,758	6,660	15,894 17,665	33,689 34,336	146 123			19,350 25,169			
1970	9,885	300	8,749	1,239	1,889	4,557 3,343	16,383	34,336	123			28,866			
1980	8,652	249	4,804	2,637	967	3,213	23,951	35,572	117			30,656			
1985	6,645	190	4,408	8,725	1,192	2,213	12,744	29.283	117			33,704			
1990	4,719	290	3,957	6,926	976	1,416	16,782	30,058	23			35,062			
1995	4.383	254	3,457	4,826	1,310	402	20,874	30,869	27			33,921			
1996	4,283	260	3,889	5,425	1,418	415	22,120	33,267	29			34,499			
1997	3,770	255	3,986	2,361	1,271	415	27,333	35,366	26			35,430			
1998	3,857	224	4,122	1,127	1,097	400	26,178	32,924	25			35,983			
1999 2000	4,636 4,004	248 247	4,909 4,055	2,323 3,006	1,017 1,060	332 622	25,870 24,523	34,452 33,267	26 27			37,276 37,268			
2000	3,793	233	3,494	2,434	1,835	352	16,595	24,711	26			34,174			
2002	2,781	250	2,767	3,457	1,931	344	16,499	24,998	29			33,537			
2003	2,840	222	3,134	2,999	2,018	713	17,746	26,610	75			39,813			
2004	3,012	219	3,651	5,110	2,308	687	18,974	30.730	30			34,867			
2005	3.017	_ 222	3,475	6,279	2,237	909	17,856	30,756 R 27,404	29			34,745			
2006	3,030	R 199	3,020	R 4,407	2,378	736	16,862	R 27,404	32			34,093			
2007	2,887	187	3,154	4,112	2,218	967	17,033	27,484	26			33,879			
							Tri	Ilion Btu							
1960	332.0	121.3	41.3	2.1	16.5		66.3	186.5	2.3	14.8	0.0		699.4	105.3	804.7
1965	385.6	195.1	43.8	3.7	14.2		92.7	196.2	1.5	18.8	0.0		863.2	157.7	1,020.9
1970	320.9	265.7	49.5	3.2	14.5	28.7	103.6	199.5	1.3	19.5	0.0		892.8	207.9	1,100.7
1975	246.7	307.7	51.0	4.6		21.0	97.0	183.5	1.3	19.7	0.0		857.4	236.9	1,094.2
1980 1985	219.4 169.9	253.7 R 194.2	28.0 25.7	9.7 31.4	5.1 6.3	20.2 13.9	137.2 74.4	200.2 151.7	1.2 1.2	47.2 55.3	0.0		826.3 686.6	252.1 264.9	1,078.5 951.4
1990	117.9	R 302.6	23.1	25.1	5.1	8.9	98.5	160.7	0.2	36.5	0.0		731.0	276.6	1,007.6
1995	109.2	R 264.4	20.1	17.5	6.8	2.5	121.8	168.8	0.2	44.7	0.0		697.3	262.8	960.1
1996	107.5	R 268 8	22.7	19.6	7.4	2.6	126.6	178.9	0.3	53.3	0.0	117.7	720.8	267.7	988.5
1997	95.1	R 265 7	23.2	8.5	6.6		160.4	201.3	0.3	51.4	0.0		728.8	273.9	1,002.7
1998	97.9	R 234.9	24.0	4.1	5.7	2.5	152.5	188.9	0.3	49.6	0.0	122.8	688.5	278.4	966.9
1999	120.0	K 258.6	28.6	8.4	5.3	2.1	150.1	194.5	0.3	51.4	0.0	127.2	746.2	290.9	1,037.1
2000	104.8	R 256.2	23.6	10.8	5.5	3.9 2.2	141.7	185.6	0.3	50.4	0.0		721.0	289.2	1,010.3
2001	99.0	R 240.5	20.4	8.8	9.6	2.2	98.5	139.4	0.3	35.5	0.0	116.6	630.1	259.8	890.0
2002	72.8 74.6	249.1	16.1	12.5 10.9	10.1	2.2 4.5	97.5 105.1	138.4 149.2	0.3	25.7	0.0		600.7	255.1 299.8	855.8 917.6
2003 2004	74.6 78.2	222.0 R 218.6	18.3 21.3	10.9 18.5	10.5 12.0	4.5	105.1 112.6	149.2 168.7	0.8 0.3	35.4 R 37.3	0.0 0.0		617.8 R 622.1	299.8 263.2	917.6 885.3
2004	77.5	_ 225.7	20.2	22.7	11 7	5.7	106.2	_ 166.6	0.3	36.3	0.0		_ 624.8	259.3	_ 884.1
2005	77.3	R 202.6	17.6	R 15.9	12.4	4.6	100.2	R 150.7	0.3	R 35.1	0.0		R 582.3	251.5	R 833.9
2007	74.7	191.5	18.4	14.8	11.6	6.1	100.2	151.6	0.3	35.6	0.0		569.2	249.4	818.6

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Michigan

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	223	3	1,312	2,475	3,369	21	1,277	62,307	728	71,489	0	9			
1965	50	5	2,619	3,348	4,377	34	1,126	74,814	779	87,097	0	0			
1970 1975	21 2	10 10	718 347	6,353 8,949	7,365 5,700	62 95	1,324 1,321	93,269 105,412	427 423	109,518 122,248	0	0			
1980	0	12	488	9,741	6,646	128	1,477	95,235	232	113 946	0	0			
1985	ő	11	201	12,328	6,570	291	1,344	91,556	99	113,946 112,389	1,011	Ő			
1990	0	18	215	13,207	10,057	283	1,513	98,167	92	123,533	1,184	0			
1995	0	25	231	18,125	8,818	241	1,443	109,159	94	138,111	1,204	4			
1996	0	26	215	18,940	9,045 R 9,487	224 204	1,401	109,025	123	138,970 R 440,070	507	5			
1997 1998	0	24 21	197 167	19,815 21,145	R 9,033	204 804	1,480 1,549	111,042 113,608	52 82	138,970 R 142,276 R 146,388	646 835	4 5			
1999	0	23	286	21,764	9,116	352	1,565	119,839	36	152,958	947	4			
2000	Ö	27	205	21,915	7,214	266	1,542	116,941	48	148,131	2,243	4			
2001	0	22	79	21,472	6,219	151	1,412	117,204	71	146,608	1,368	5			
2002	0	27	167	22,514	6,016	183	1,396	119,567	47	149,891	2,900	5			
2003 2004	0	27 28	89 80	22,480	2,695 3,733	196 397	1,290 1,307	116,798	198 251	143,747	3,637	3			
2004	0	28	84	23,993 23,256	3,431	509	1,307	116,468 117,139	197	146,228 145,916	3,758 R 4,987	ა 5			
2006	0	26	67	23,767	4,124	231	1,267	115,637	232	145,325	R 5,246	4			
2007	0	26	76	23,422	5,270	278	1,308	113,760	288	144,401	6,442	5			
								Trillion Btu							
1960	5.5	2.7	6.6	14.4	18.2	0.1	7.7	327.3	4.6	378.9	0.0	(s) 0.0	387.2	0.1	387.3
1965 1970	1.2 0.5	4.6 10.5	13.2 3.6	19.5 37.0	24.0 41.0	0.1 0.2	6.8 8.0	393.0 489.9	4.9 2.7	461.5 582.5	0.0 0.0	0.0	467.4 593.5	0.0 0.0	467.4 593.5
1975		10.5	1.7	52.1	31.6	0.2	8.0	553.7	2.7	650.3	0.0	0.0	660.8	0.0	660.8
980	(s) 0.0	12.6	2.5	56.7	37.1	0.5	9.0	500.3	1.5	607.5	0.0	0.0	620.1	0.0	620.1
985	0.0	10.8	1.0	71.8	36.7	1.0	8.2	480.9	0.6	600.3	3.6	0.0	614.7	0.0	614.7
990	0.0	18.7	1.1	76.9	56.6	1.0	9.2	515.7	0.6	661.0	4.2	0.0	683.9	0.0	683.9
995	0.0	25.9	1.2	105.6	50.0	0.9	8.8	569.3	0.6	736.2	4.3	(s) (s)	762.2	(s)	762.2
996	0.0 0.0	26.9 24.8	1.1	110.3 115.4	51.3 53.8	0.8 0.7	8.5 9.0	568.7 578.9	0.8 0.3	741.4	1.8 2.3		768.3	(s)	768.4
997 998	0.0	24.8	1.0 0.8	123.2	53.8 51.2	2.9	9.0 9.4	578.9 592.1	0.3	759.1 R 780.2	2.3 3.0	(s) (s)	783.9 R 802.1	(s) (s)	783.9 802.1
999	0.0	23.5	1.4	126.8	51.7	1.3	9.4	624.5	0.5	815.4	3.3	(S)	838.9	(S)	838.9
000	0.0	27.5	1.0	127.7	40.9	1.0	9.3	609.3	0.2	789.5	7.9	(s)	817.0	(s)	817.1
001	0.0	23.0	0.4	125.1	35.3	0.5	8.6	610.6	0.4	780.9	4.8	(s)	803.9	(s)	804.0
002	0.0	26.9	0.8	131.1	34.1	0.7	8.5	622.7	0.3	798.2	10.3	(s)	825.2	(s)	825.2
2003	0.0	27.4	0.5	130.9	15.3	0.7	7.8	608.2	1.2	764.6	12.9	(s)	792.0	(s)	792.1
2004	0.0	27.5	0.4	139.8	21.2	1.4 1.8	7.9	607.4	1.6	779.6 777.5	13.3 R 17.6	(s)	807.2	(s)	807.2
2005 2006	0.0 0.0	28.3 26.1	0.4 0.3	135.5 138.4	19.5 23.4	1.8 0.8	7.9 7.7	611.2 603.4	1.2 1.5	777.5 775.5	R 17.6	(s) (s)	805.9 801.7	(S)	805.9 801.7
2000	0.0	26.7	0.3	136.4	29.9	1.0	7.7	593.7	1.8	775.5 771.2	22.8	(S)	797.9	(S)	797.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Michigan

	Coal Thousand Short Tons 10,300 16,123	Natural Gas ^a Billion Cubic Feet	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke		Nuclear Electric	1 [1			Electricity	1
Year S 1960 1965 1970 1975 1980	10,300 16,123					Total	Power	Hydroelectric Power ^d	Mand	Geothermal f	Solar/PV f,g	Wind ^f	Net Imports h	
1970 1975 1980	16,123			Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1970 1975 1980	16,123	5	362	77	0	440	0	1,817		0	0	0	1,250	
1970 1975 1980		3	316	77 68	Ō	384	181	1 667		Ö	Ö	0	-413	
1980	20,124	64	4,514	965	0	5,479	375	1,581 989		0	0	0	-400	
1980	20,914	57	14,136	1,538	0	15,674	7,176	989		0	0	0	320	
	22,150	26	9,621	780	0	10,400	15,891	1,083		0	0	0	5,685	
1990	25,896 29,830	10	522 1,149	646	0	1,168	13,452	881 1,605		0	0	0	391	
1990	29,830 31,400	85 123	1,149	341 410	0	1,490 1,512	21,611 24,448	1,605		0	0	0	-10,918 5,760	
1995	32,405	140	1,101	300	3	1,512	26,829	1,570 1,755		0	0	0	1,907	
1997	32,158	143	1,233	312	0	1,343	21,914	1,686		0	0	0	1,380	
1998	34,253	148	1,630	468	103	2,201	12,494	1,372		0	0	0	-1,534	
1999	33,854	150	2,120	505	65	2,690	14,591	1,432		0	0	0	-219	
2000	33,277	135	1,683	374	9	2,066	18,882	1,401		0	Ö	0	-327	
2001	33,928	133	1,150	369	2 73	1,522	26.711	1.536		Ö	Ö	(s)	-2,102	
2001 2002	33,367	146	1,537	369 535	73	2,145	31,087	1,640		0	0	(s)	-2,234	
2003	34,101	103	1,152	484	60	1,697	27,954	1,310		0	0	` 3	-3,564	
2004	35,312	133	1,112	393	17	1,522	30,562	1.509		0	0	2	-3,204	
2005	36,273	131	1,099	372	170	1,641	32,872	1,433		0	0	2	-2,699	
2006	34,926	109	231	302	218	751	29,066	1,488 1,244		0	0	2	-2,117	
2007	36,574	124	529	295	252	1,076	31,517	1,244		0	0	3	-1,206	
							Trillion E	Btu						
1960	256.3	5.4	2.3 2.0	0.5	0.0	2.7	0.0	19.6 17.4	0.0 0.0	0.0	0.0 0.0	0.0	4.3	288.2
1965 1970	399.9 487.0	3.0 65.2	28.4	0.4 5.6	0.0 0.0	2.4 34.0	2.1 4.1	17.4	0.0	0.0 0.0	0.0	0.0	-1.4 -1.4	423.5 605.6
1970	407.0	47.3	26.4 88.9	8.9	0.0	97.8	79.0	10.3	0.0	0.0	0.0	0.0	1.1	730.4
1975	494.9 532.2	10.4	60.5	4.5	0.0	65.0	173.3	11.3	0.0	0.0	0.0	0.0	19.4	820.6
1985	605.8	R 4.7	3.3	3.8	0.0	7.0	142.9	9.2	0.0	0.0	0.0	0.0	1.3	770.9
1990	663.5	K 69 1	7.2	2.0	0.0	9.2	228.7	16.7	9.0	0.0	0.0	0.0	-37.3	957.4
1995	671.2	R 105.1	6.9	2.4	0.0	9.3	256.9	16.2	19.7	0.0	0.0	0.0	19.7	1,095.6
1996	682.1	R 105.1 R 122.1 R 124.5	7.8	2.4 1.7	(s) 0.0	9.3 9.5	281.8	18.1	23.4	0.0	0.0	0.0	6.5	1.140.8
1997	681.4	R 124.5	6.5	1.8	0.0	8.3	230.0	17.2	22.6	0.0	0.0	0.0	4.7	1.085.8
1998	725.3	R 131.4 R 134.1	10.2	2.7	0.6	13.6	131.1	14.0	22.5	0.0	0.0	0.0	-5.2	1,029.2
1999	712.2	R 134.1	13.3	2.9	0.4	16.7	152.5	14.6	21.7	0.0	0.0	0.0	-0.7	1,047.9
2000	694.7	R 126.0	10.6	2.2	0.1	12.8	196.9	14.3	25.6	0.0	0.0	0.0	-1.1	1,067.5
2001	690.5	R 131.7	7.2 9.7	2.2 3.1	(s)	9.4	279.1	15.9	25.0	0.0	0.0	(s)	-7.2	1,143.8
2002	660.8	147.3	9.7	3.1	0.4	13.2	324.5	16.7	24.8	0.0	0.0	(s)	-7.6	1,179.7
2003 2004	672.6 691.2	104.6 135.5	7.2 7.0	2.8 2.3	0.4 0.1	10.4 9.4	291.3 318.7	13.4 15.1	24.8 25.3	0.0 0.0	0.0 0.0	(s)	-12.2 -10.9	1,105.0 R 1,184.2
2004	718.2	132.6	6.9	2.3	1.0	10.1	318.7	15.1	25.3	0.0	0.0	(s)	-10.9 -9.2	1,232.3
2005	693.4	110.4	1.5	1.8	1.0		343.0	14.3	23.2	0.0	0.0	(s)	-9.2 -7.2	1,232.3
2007	721.3	125.5	3.3	1.7	1.5	4.5 6.6	330.5	12.3	22.1	0.0	0.0	(s)	-7.2 -4.1	1,214.2
	721.0	120.0	0.0	1.7	1.0	0.0	000.0	12.0		0.0	0.0	(5)	7.1	1,217.2

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Minnesota

						Petroleum				Martan	II. de	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	Wood and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	5,976	180	16,151	472	4,525	32,583	6,658	9,046	69,435 77,507	0	887					
1965 1970	7,259 8,787	249 342	18,960 22,356	2,624 3,491	5,781 8,887	35,278 44,122	4,980 5,159	9,886 10,420	77,507 94,435	143	1,093 894					
1975	10,120	331	24,369	5,629	9,187	48,253	4,326	10,420	102,651	9.750	917					
1980	13,810	286	21,382	5,142	7,697	46,211	3,183	8,630	92,244	10,027	786					
1985 1990	12,744 18,377	257 291	19,891 19,576	7,781 5.099	5,353 5,966	45,285 47,760	859 961	9,245 12,912	88,414 92,275	11,572 12,139	973 857					
1995	18,947	353	23,038	9,969	9,758	54,303	647	14,541	112,256	13,243	1,098					
1996	19,703	368	24,016	10.625	12,018	54,866	783	15,694	118 003	12,095	1,187					
1997	19,086	354	23,757	R 10,892 R 10,709	10,269	55,755	695	15,862	R 117,230	10,819	1,035					
1998 1999	19,958 19,082	331 345	24,606 23,920	12,591	7,410 8,705	58,106 59,894	515 552	15,174 16,455	R 116,520 122,119	11,644 13,316	955 1,179					
2000	20,735	362	24,846	13,301	9,844	61,120	930	15,570	125,610	12,960	931					
2001	19,683	341	24,995	11,588	8,974	62,236	1,146	16,021	124,959	11,789	832					
2002 2003	20,455 21,998	372 371	24,636 24,601	11,064 11,977	11,302 10,862	63,503 64,638	992 1.063	14,756 16,026	126,254 129,168	13,685 13.414	809 815					
2003	21,382	360	26,457	12,505	11,662	64,804	1,461	16,133	133,021	13,296	738					
2005	21,381	368	26,439	12,656	11,161	64,697	1,710	17,392	134,055	12,835	775					
2006 2007	20,935 20,587	353 389	26,035 27,334	11,773 11,275	10,363 10,401	64,432 64,627	851 1,348	16,614 16,006	130,067 130,992	13,183 13,103	572 654					
								Trillion Btu								
1960	131.3	186.1	94.1	2.6	18.1	171.2	41.9	54.3	382.1	0.0	9.5	25.4	0.0	-10.9	0.3	723.9
1965	160.0	248.2	110.4	14.8	23.2	185.3	31.3	60.1	425.1	1.7	11.4	23.4	0.0	-3.9	0.4	866.4
1970 1975	179.7 191.5	343.0 331.5	130.2 141.9	19.7 31.9	33.6 34.1	231.8 253.5	32.4 27.2	64.4 67.6	512.2 556.2	0.0 107.4	9.4 9.5	23.4 27.4	0.0 0.0	39.5 21.8	0.4 0.6	1,107.7 1,246.0
1980	242.4	R 285.0	124.5	29.1	28.3	242.7	20.0	53.7	498.4	109.4	8.2	46.6	0.0	32.0	3.2	1,225.2
1985	226.1	258.5	115.9	44.1	19.3	237.9	5.4	58.9	481.4	122.9	10.2	56.3	0.0	92.9	11.4	1,259.7
1990 1995	325.5 338.0	291.8 R 357.7	114.0 134.2	28.9 56.5	21.6 35.4	250.9 283.2	6.0 4.1	81.1 90.8	502.6 604.1	128.5 139.1	8.9 11.3	48.8 56.2	0.5 1.2	78.5 96.3	4.5 28.6	1,389.6 1,632.5
1996	354.6	R 375 0	139.9	60.2	43.4	286.2	4.9	98.1	632.8	127.0	12.3	57.1	1.1	113.2	29.4	1,702.5
1997	341.6	R 360.4	138.4	R 61.8	37.1	290.6	4.4	99.1	631.4	113.5	10.6	55.6	1.1	128.1	33.6	1,676.0
1998	357.0	337.1	143.3	60.7	26.8	302.8	3.2	95.3	632.2	122.2	9.7	50.9	2.1	126.1	27.0	R 1,664.3
1999 2000	341.5 373.8	351.1 R 367.5	139.3 144.7	71.4 75.4	31.5 35.5	312.1 318.4	3.5 5.8	103.4 98.0	661.2 678.0	139.1 135.2	12.1 9.5	50.7 54.6	5.5 7.9	136.5 131.4	20.4 26.8	1,718.2 1,784.6
2001	353.3	R 345.0	145.6	65.7	32.4	324.2	7.2	99.8	675.0	123.2	8.6	54.4	9.8	148.6	28.1	1,746.0
2002	360.8	374.9	143.5	62.7	40.8	330.7	6.2	91.6	675.7	142.9	8.2	46.3	9.7	148.3	14.2	1,781.0
2003 2004	390.7 378.8	R 375.0 R 363.5	143.3 154.1	67.9 70.9	39.4 42.2	336.6 338.0	6.7 9.2	99.7 100.5	693.6 714.9	139.8 138.6	8.3 7.4	43.9 R 52.8	10.6 8.7	138.4 149.5	-8.6 8.8	1,791.7 1,823.0
2004	370.0 379.1	R 372.2	154.0	70.9	42.2	337.6	10.7	100.5	714.9	133.9	7.4	R 57.0	16.4	138.2	26.3	R 1,854.1
2006	370.8	358.6	151.7	66.8	37.4	336.2	5.3	103.7	701.0	137.6	5.7	R 55.5	21.1	146.1	27.0	R 1,823.3
2007	366.0	396.5	159.2	63.9	37.4	337.3	8.5	99.9	706.2	137.4	6.5	65.3	26.9	146.4	23.3	1,874.6

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Minnesota

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	557	61	5,414	1,748	3,108	10,270	878			4,186			
1965	352	86	6,309	1,556	4,043	11,908	682			6,063			
1970 1975	320	102	7,197	1,195 558	6,390	14,782	560			9,031			
1975	70	114	7,242	558	6,040	13,840	563			10,189			
1980 1985	30 48	103 107	5,946	114	2,929 2,400	8,989 6,509	745			11,749			
1985	48	107	3,973	137	2,400	6,509	957			13,261			
1990 1995	36	107 129	3,743 3,085	30 50	2,933 4,447	6,707 7,582	562 498			14,858 16,974			
1995	34 19	142	3,085	61	5,969	7,582 9,481	498 517			17,157			
1990	19	129	2,932	52	5,650	8,634	404			17,137			
1998	12 5	110	2,542	73	3,927	6,542	359			17,378			
1999	2	119	2,102	32	4,853	6.987	378			17,998			
2000	1	130	2,294	33	5,436	7,763	406			18,629			
2001	(s)	125	2,288	188	4,761	7,237	399			19,400			
2002	(s) 13	135	2,216	16	4,581	6,813	405			20,451			
2003	(s) (s)	138	2,342	18	5,823	8,183	427			20,638			
2004	(s)	133	2,351	28	5,199	7,577	437			20,507			
2005	6 R 8	129	1,956	27	5,020	7,004 R 6,298	R 529 R 482			21,743			
2006		117	1,541	18	R 4,738	1 6,298	1 482			21,909			
2007	6	129	1,544	11	4,838	6,393	531			22,646			
						Tı	rillion Btu						
1960	12.2	63.6	31.5	9.9	12.5	53.9	17.6	0.0	0.0	14.3	161.6	35.3	196.9
1965	7.7	86.3	36.7	8.8	16.2	61.8	13.6	0.0	0.0	20.7	190.1	49.4	239.5
1970	6.8	102.0	41.9	6.8	24.1	72.8	11.2	0.0	0.0	30.8	223.6	74.6	298.2
1975 1980	1.3 0.6	114.7 103.1	42.2	3.2 0.6	22.4 10.8	67.8 46.0	11.3 14.9	0.0	0.0	34.8	229.8 204.7	83.6 96.6	313.4 301.3
1980	0.6	_ 107.1	34.6 23.1	0.8	8.6	32.6	14.9	0.0 0.0	0.0 0.0	40.1 45.2	204.7	104.2	301.3
1990	0.6	R 107.4	21.8	0.8	10.6	32.6	11.2	0.0	0.0	50.7	203.0	117.2	320.3
1995	0.0	R 130 4	18.0	0.2	16.0	34.4	10.0	0.1	0.3	57.9	233.8	131.5	365.4
1996	0.3	R 130.4 R 144.9	20.1	0.3 0.3	16.1 21.6	42.0	10.0 10.3	0.2 0.2	0.4	57.9 58.5	256.4	133.1	365.4 389.5
1997	0.2	R 131.2	17.1	0.3	20.4	37.8	8.1	0.2	0.4	58.3	236.1	132.0	368.0
1998	0.1	112.5	14.8	0.4	14.2	29.4	7.2	0.2	0.4	59.3	209.0	134.5	343.5
1999	(s)	121.2	12.2	0.2	17.5	30.0	7.6	0.2	0.3	61.4	220.7	140.5	361.2
2000	(s)	131.7	13.4	0.2	19.6	33.2	8.1	0.2	0.3	63.6	237.1	144.6	381.7
2001	(s) 0.2	126.3	13.3	1.1	17.2	31.6	8.0	0.3	0.3	66.2	232.6	147.5	380.1
2002		136.4	12.9	0.1	16.6	29.6	8.1	0.3	0.3	69.8	244.6	155.5	400.2
2003	(s)	139.4	13.6	0.1	21.1	34.9	8.5	0.4	0.2	70.4	253.8	155.4	409.1
2004	(s)	134.2 R 130.2	13.7	0.2 0.2	18.8	32.7	8.7 R_10.6	0.4	0.2 0.2	70.0	246.2 R 245.4	154.8	401.0 R 407.6
2005 2006	0.1 0.1	119.2	11.4	0.2	18.2 R 17.1	29.7 R 26.2	R 9.6	0.4 0.5	0.2	74.2 74.8	R 245.4 R 230.6	162.3 161.6	R 202.2
2006	0.1	131.6	9.0 9.0	0.1	17.4	26.4	10.6	0.5 0.6	0.2 0.2	74.8 77.3	246.8	166.7	R 392.3 413.5
2001	0.1	131.0	9.0	0.1	17.4	20.4	10.0	0.0	0.2	11.3	240.0	100.7	413.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Minnesota

Thousand Short Tons Cubic Feet Thousand Barrels New Million Short Tons Cubic Feet Thousand Barrels New Million Short Tons Million Short Tons	em gy ss Total ^{f,h} 	Electrical System Energy Losses	Net	Electricity												
Thousand Billion Thousand Barrels	Total f,h	Energy	Net			\W/I	electric Power ^{e,f}	Total ^d			LPG ^b	Kerosene			Coal	
1965 265 27			Energy f,h		Geothermal ^f	and				nd Barrels	Thousar				Thousand Short Tons	Year
1970 252 77				1,540			0	3,026	634	142	548	378	1,323	20	387	
1975							v						1,542	27		1965
1980 113 64 1,443 0 517 340 32 2,331 0 5,724 1985 171 77 2,845 24 424 335 223 3,851 0 5,726 3,726 3,726 3,726 3,726 3,726 3,727 3							· ·	3,774								
1985				5.724				2.331	32	340	517		1,770		113	1980
1995 229				7,469			· ·	3,851	223	335	424	24	2,845	77	171	1985
1996 137 99 1,014 27 1,053 50 138 2,282 0 10,850 1997 94 92 873 26 997 1,010 160 3,066 0 10,850 1998 37 82 843 31 693 988 161 2,716 0 11,152 1999 13 88 889 20 856 50 155 1,970 0 11,637 11,637 2000 5 95 889 54 959 50 137 2,089 0 12,311 2001 1 94 1,134 35 840 52 218 2,279 0 12,311 2001 1 94 1,134 35 840 52 218 2,279 0 20,520 2002 93 104 821 22 808 52 195 1,899 0 20,520 20,520 3 1 101 738 14 1,028 794 342 2,915 0 20,533 20,64 (s) 97 804 10 917 52 449 2,234 0 20,6407 20,650 67 96 1,002 14 886 53 306 2,260 0 20,0407 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 20,22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 22,175 20,650 67 96 1,002 14 886 53 306 2,260 0 0 22,175 20,175 14 8,100 8,1							U	3,441					1,091	78	143	1990
1997 94 92 873 26 997 1,010 160 3,066 0 10,888 1998 37 82 843 31 693 988 161 2,716 0 11,152 2000 5 95 889 54 959 50 137 2,089 0 12,311 2001 1 94 1,134 35 840 52 218 2,279 0 20,520 2002 93 104 821 22 808 52 195 1,899 0 20,520 2003 1 101 738 14 1,028 794 342 2,915 0 20,533 2004 (s) 97 804 10 917 52 449							0	1,831				23	862	91	229	1995
1998 37							0	3,066	160		997	26	873	99		
2000 5 95 889 54 959 50 137 2,089 0 12,311 2001 1 94 1,134 35 840 52 218 2,279 0 20,520 2002 93 104 821 22 808 52 195 1,899 0 20,197 2003 1 101 738 14 1,028 794 342 2,915 0 20,533 2004 (s) 97 804 10 917 52 449 2,234 0 20,407 2005 67 96 1,002 14 886 53 306 2,260 0 22,985 2007 52 91 727 10 854 941							Ö	2,716	161		693		843	82		1998
2001 1 94 1,134 35 840 52 218 2,279 0 20,520 2002 93 104 821 22 808 52 195 1,899 0 20,197 2003 1 101 738 14 1,028 794 342 2,915 0 20,197 2004 (s) 97 804 10 917 52 449 2,234 0 20,407 2005 67 96 1,002 14 886 53 306 2,260 0 21,985 2006 83 87 666 12 836 1,378 235 83,127 0 22,175 2007 52 91 727 10 854 941 88 2,620 0 22,523 Trillion Btu 1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 10.8 112.8 1980 2.4 63.6 8.4 0.0 1.9 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0							0							88		
2002 93 104 821 22 808 52 195 1,899 0 20,197 2003 1 101 738 14 1,028 794 342 2,915 0 20,533 2004 (s) 97 804 10 917 52 449 2,234 0 20,407 2005 67 96 1,002 14 886 53 306 2,260 0 21,985 2006 R83 87 666 12 R836 1,378 235 R3,127 0 22,175 2007 52 91 727 10 854 941 88 2,620 0 22,175 2007 52 91 727				12,311			0	2,089				54		95		
2003				20,520			0	1,279		52		35 22	1,134			2001
2004 (s) 97 804 10 917 52 449 2,234 0 20,407 2005 67 96 1,002 14 886 53 306 2,260 0 21,985 2006 R83 87 666 12 R836 1,378 235 R3,127 0 22,175 2007 52 91 727 10 854 941 88 2,620 0 22,523 Trillion Btu 1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 1.9 0.0 30.1 131.0							0	2.915					738			
2006 R83 87 666 12 R836 1,378 235 R3,127 0 22,175 2007 52 91 727 10 854 941 88 2,620 0 22,523 **Trillion Btu** 1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0				20,407			Ö	2,234	449	52	917		804	97	(s)	2004
2007 52 91 727 10 854 941 88 2,620 0 22,523 Trillion Btu 1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0							0	2,260			886				67	
Trillion Btu 1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6				22,175			•	3,127	235	1,378	N 836		666 727		[™] 83	2006
1960 8.5 21.0 7.7 2.1 2.2 0.7 4.0 16.8 0.0 0.3 0.0 5.3 51.9 1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9<				22,323			0	· · · · · · · · · · · · · · · · · · ·		941	004	10	121	91	52	2007
1965 5.8 26.8 9.0 1.9 2.9 0.8 2.6 17.2 0.0 0.3 0.0 6.9 57.0 1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0								Trillion Btu								
1970 5.3 76.7 10.2 1.5 4.3 1.2 2.5 19.7 0.0 0.2 0.0 10.8 112.8 1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0		13.0		5.3		0.3	0.0		4.0		2.2	2.1				
1975 3.1 89.9 10.3 0.7 4.0 1.9 1.4 18.2 0.0 0.2 0.0 16.5 128.0 1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0	.5 73.5	16.5				0.3		17.2	2.6	0.8	2.9	1.9		26.8	5.8	
1980 2.4 63.6 8.4 0.0 1.9 1.8 0.2 12.3 0.0 0.4 0.0 19.5 98.1 1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0		26.2 39.8														
1985 3.3 77.3 16.6 0.1 1.5 1.8 1.4 21.4 0.0 0.5 0.0 25.5 128.0 1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0	1.0 107.7 1.1 145.2	39.0 47.1	120.U 98.1	10.5	0.0	0.2	0.0	10.2	1.4 0.2			0.7	10.3 8.4	63.6		1975
1990 2.6 78.3 6.4 (s) 1.9 8.2 1.6 18.1 0.0 1.9 0.0 30.1 131.0		58.7									1.5					
	.5 200.5	69.5		30.1	0.0	1.9	0.0			8.2	1.9	(s)	6.4	78.3	2.6	1990
1995 4.6 91.8 5.0 0.1 2.8 0.3 0.7 9.0 0.0 2.0 0.0 35.5 142.9	.6 223.6	80.6	142.9	35.5	0.0	2.0	0.0	9.0	0.7	0.3	2.8	0.1	5.0	91.8	4.6	1995
1996 2.4 100.3 5.9 0.2 3.8 0.3 0.9 11.0 0.0 2.1 0.0 37.0 152.6 1997 1.7 93.9 5.1 0.1 3.6 5.3 1.0 15.1 0.0 2.0 0.0 37.1 149.9	.2 236.8 .2 234.0	84.2 84.2				2.1				0.3	3.8			100.3		
1997 1.7 93.9 5.1 0.1 3.6 5.3 1.0 15.1 0.0 2.0 0.0 37.1 149.9 1998 0.7 83.9 4.9 0.2 2.5 5.2 1.0 13.8 0.0 1.9 0.0 38.1 138.2		86.3								5.3 5.2						
1999 0.2 89.7 5.2 0.1 3.1 0.3 1.0 9.6 0.0 1.9 0.0 39.7 141.2	.8 232.0	90.8	141.2	39.7	0.0	1.9	0.0	9.6	1.0	0.3	3.1	0.1	5.2	89.7	0.2	1999
2000 0.1 96.8 5.2 0.3 3.5 0.3 0.9 10.1 0.0 2.0 0.0 42.0 150.9	.5 246.5	95.5	150.9	42.0	0.0	2.0	0.0	10.1	0.9	0.3	3.5	0.3	5.2	96.8	0.1	2000
2001 (s) 94.9 6.6 0.2 3.0 0.3 1.4 11.5 0.0 1.8 0.0 70.0 178.3	.0 334.3	156.0						11.5			3.0		6.6		(s)	
		153.6 154.6					0.0				2.9	0.1				2002
	1 33/1.2	154.6 154.1				1 0										
2005 13 R971 58 01 32 03 19 113 00 R21 00 750 1868	. 1 R 350 8	164.1		75.0	0.0	R 2.1	0.0	11.3	1.9	0.3	3.2			R 97.1	1.3	2005
2006 1.5 88.7 3.9 0.1 R3.0 7.2 1.5 R15.6 0.0 R2.2 0.0 75.7 183.6	.6 R 347.2	163.6	183.6	75.7	0.0	R 2.2	0.0	^R 15.6	1.5	7.2	R 3.0	0.1		88.7	1.5	2006
2007 1.0 93.2 4.2 0.1 3.1 4.9 0.6 12.8 0.0 2.2 0.0 76.8 186.1		165.8	186.1	76.8	0.0	2.2	0.0	12.8	0.6	4.9	3.1	0.1	4.2	93.2	1.0	2007

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Minnesota

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	2.555	49	6,062	841	4,266	5,690	5,024	21,884	156			3,095			
1965	2,555 2,776	83	7,651	988	3,947	4,213	6,593	23,392	178			4,677			
1970	2,020	98	7,784	1,275	3,608	3,894	7,919	24,480	168			8,506			
1975	2,292	101	7,991	1,985	3,132	2,675	9,183	24,965	189			11,280			
1980	1,057	101	5,708	4,183	1,336	1,818	7,527	20,573	145			15,525			
1985	1,027	66	4,985	2,406	1,718	481	8,206	17,796	145			17,934			
1990 1995	1,283 1,401	88 106	5,483 6,031	2,459 4,392	1,117 1,192	700 536	11,122 12,791	20,880 24,942	172 224			23,497 26,577			
1996	2,088	102	6,510	4,855	670	643	13,673	26,352	250			26,934			
1997	1,490	107	6,404	3,485	1,846	519	13,610	25,864	227			27,713			
1998	2,014	105	6,298	2,777	1,240	353	13,102	23,769	204			28,214			
1999	1.954	104	5,291	2,989	1,026	394	14,158	23 858	272			27,764			
2000	2,092	106	4,857	3,442	996	570	13,437	23,302	248			28,842			
2001	1.254	92	5,154	3,359	1,465	698	13,962	24.638	186			20,767			
2002	1,261	96	5,010	5,899	1,412	530	12,775	25,626	45			21,515			
2003	1,268	95	5,451	3,932	1,360	610	13,894	25,247	93			21,916			
2004	1,312	97	5,854	5,448	1,400	654	14,094	27,449	132			22,415			
2005 2006	1,300 1,271	95 103	5,741 5,296	5,156 R 4,702	1,299 1,228	1,092 396	15,438 15,058	28,727 R 26,680	130 96			22,266 22,664			
2007	1,350	114	5,290	4,618	1,476	789	14,857	26,890	96			23,041			
	1,000		0,100	.,0.0	.,		· · · · · · · · · · · · · · · · · · ·	illion Btu				20,011			
1960 1965	55.2	51.0	35.3	3.4	22.4	35.8	31.9	128.8	1.7	7.4	0.0		254.6	26.1	280.7
1965 1970	60.8 42.1	82.6 97.8	44.6 45.3	4.0 4.8		26.5 24.5	41.7 50.1	137.4 143.7	1.9 1.8	9.3 11.8	0.0		308.0 326.1	38.1 70.2	346.1 396.4
1970	50.8	100.8	45.3 46.5	4.8 7.4	19.0 16.5	16.8	57.8	143.7	2.0	11.8	0.0		352.8	70.2 92.6	396.4 445.4
1980	18.1	101.2	33.3	15.4	7.0	11.4	47.3	114.3	1.5	31.3	0.0		319.4	127.7	447.0
1985	21.3	66.6	29.0	8.7	9.0	3.0	52.9	102.6	1.5	36.7	0.0		289.9	140.9	430.9
1990	23.8	88.7	31.9	8.9	5.9	4.4	70.5	121.6	1.8	28.0	0.0		344.2	185.4	529.5
1995	26.7	R 107 6	35.1	15.9	6.2	3.4	80.4	141.0	2.3	35.6	0.0		403.9	205.9	609.8
1996	40.0	R 104.3	37.9	17.5	3.5	4.0	86.1	149.1	2.6	35.9	0.0	91.9	423.5	209.0	632.5
1997	28.1	R 109.3	37.3	12.6	9.6	3.3	85.7	148.5	2.3	36.1	0.0	94.6	418.8	214.2	633.0
1998	37.5	106.6	36.7	10.0	6.5	2.2	82.9	138.3	2.1	33.3	0.0		414.0	218.3	632.3
1999	36.4	106.2	30.8	10.8	5.3	2.5	89.7	139.2	2.8	33.0	0.0		412.2	216.7	628.9
2000	40.4	R 107.5	28.3	12.4	5.2	3.6	85.3	134.8	2.5	35.7	0.0		419.2	223.8	643.0
2001 2002	24.4 24.4	93.5 96.5	30.0 29.2	12.1 21.3	7.6 7.4	4.4 3.3	87.5 79.8	141.7 141.0	1.9 0.5	39.1 28.6	0.0		371.5 364.4	157.9 163.6	529.4 528.0
2002	24.4	96.5 95.7	29.2 31.7	14.3	7.4	3.3	79.8 86.9	141.0	1.0	28.6	0.0		362.4	165.0	528.0 527.5
2003	24.0	98.1	34.1	19.7	7.1	3.6 4.1	88.3	153.5	1.3	34.2	0.0		388.6	169.2	557.8
2005	24.7	R 96.2	33.4	18.7	6.8	6.9	96.9	162 6	1.3	35.1	0.0		305.8	166.2	561.9
2006	24.1	104.8	30.8	R 17.0	6.4	2.5	94.3	R 151.0	1.0	R 34.8	0.0		R 393.0	167.2	R 560.3
2007	25.7	115.9	30.0	16.6	7.7	5.0	93.1	152.3	0.9	35.3	0.0		408.8	169.6	578.4
	20.1	110.0		10.0	7.1			102.0	0.0		0.0	7 0.0	100.0	100.0	

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Minnesota

						Per	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	44	(s)	1,199	3,194	472	27	697	28,176	95	33,860	0	0			
1965	9		803	3,276	2,624	37	596	31,173	75	38,584	0	0			
1970 1975	3	7 4	277 215	5,064 6,691	3,491 5,629	95 97	628 752	40,279 44,766	29 577	49,863	0	0			
1975	(s) 0	9	193	8,117	5,029	68	796	44,766	971	58,726 59,822	0	0			
1985	Ö	6	154	8,038	7,781	123	724	43,232	155	60,209	628	Ö			
1990	0	12	214	9,168	5.099	57	815	45,075	0	60.427	544	0			
1995	0	19	129	12,926	9,969 10,625	134	778	53,061	0	76,997	3,877 2,984	0			
1996 1997	0	20	124	12,901	10,625 R 10,892	140 137	755 797	54,146	0	78,692	2,984	0			
1997	0	20 20	137 92	13,295 14,740	R 10,709	137	797 835	52,898 55,878	10 0	R 78,166 R 82,268	4,291 4,869	0			
1999	0	22	141	15,422	12,591	7	843	58,819	1	87,824	5 401	0			
2000	ő	21	136	16,559	13.301	7	831	60,074	222	91,129	5,401 5,494	Ö			
2001	0	19	95	16,221	11,588	13	761	60,719	179	89,576	5,579	0			
2002	0	23	137	16,495	11,064	14	752	62,039	262	90,762	6,047	0			
2003	0	20	93	15,864	11,977 12,505	79	695	62,484	70	91,264	6,512	0			
2004 2005	0	21 22	92 102	17,319 17,508	12,505 12,656	98 99	704 701	63,352 63,344	296 234	94,365 94,645	6,259 R 4,911	11 25			
2005	0	20	86	18,383	11,773	87	683	61,825	199	93,035	R 4,434	21			
2007	Ö	20	87	19,515	11,275	92	705	62,210	402	94,285	5,629	21			
								Trillion Btu							
1960	0.9	0.3	6.1	18.6	2.6	0.1	4.2	148.0	0.6	180.2	0.0	0.0	181.4	0.0	181.4
1965	0.2	1.2	4.1	19.1	14.8	0.1	3.6	163.8	0.5	205.9	0.0	0.0	207.3	0.0	207.3
1970 1975	0.1	7.5 3.9	1.4 1.1	29.5 39.0	19.7 31.9	0.4 0.4	3.8 4.6	211.6 235.2	0.2 3.6	266.6 315.6	0.0 0.0	0.0 0.0	274.1 319.5	0.0 0.0	274.1 319.5
1975	(s) 0.0	3.9 9.1	1.1	39.0 47.3	29.1	0.4	4.6 4.8	235.2 233.9	3.6 6.1	315.6 322.5	0.0	0.0	319.5	0.0	319.5
1985	0.0	6.3	0.8	46.8	44.1	0.4	4.4	227.1	1.0	324.6	2.2	0.0	333.1	0.0	333.1
1990	0.0	12.1	1.1	53.4	28.9	0.2	4.9	236.8	0.0	325.3	1.9	0.0	339.3	0.0	339.3
1995	0.0	19.4	0.7	75.3	56.5	0.5	4.7	276.7	0.0	414.4	13.7	0.0	433.8	0.0	433.8
1996	0.0	20.1	0.6	75.2	60.2	0.5	4.6	282.4	0.0	423.5	10.6	0.0	443.7	0.0	443.7
1997	0.0	19.9	0.7	77.4	R 61.8	0.5	4.8	275.8	0.1	421.0	15.2	0.0	440.9	0.0	440.9
1998 1999	0.0 0.0	20.5 22.5	0.5 0.7	85.9 89.8	60.7 71.4	(s) (s)	5.1 5.1	291.2 306.5	0.0	R 443.4 473.6	17.2 19.1	0.0 0.0	463.9 496.1	0.0 0.0	463.9 496.1
2000	0.0	22.5	0.7	89.8 96.5	71.4 75.4	(S)	5.0	313.0	(s) 1.4	473.6 492.0	19.1	0.0	513.4	0.0	496.1 513.4
2000	0.0	19.3	0.7	94.5	65.7	(s)	4.6	316.3	1.4	482.8	19.7	0.0	502.1	0.0	502.1
2002	0.0	23.3	0.7	96.1	62.7	(s) (s) 0.3	4.6	323.1	1.6	488.9	21.4	0.0	512.2	0.0	512.2
2003	0.0	20.5	0.5	92.4	67.9		4.2	325.4	0.4	491.1	23.0	0.0	511.6	0.0	511.6
2004	0.0	20.8	0.5	100.9	70.9	0.4	4.3	330.4	1.9	509.1	22.2 R 17.4 R 15.7	(s)	529.9	0.1	530.0
2005	0.0	22.5	0.5	102.0	71.8	0.4	4.2	330.5	1.5	510.9	K 17.4	0.1	533.5	0.2	533.7
2006 2007	0.0 0.0	20.7 20.7	0.4 0.4	107.1 113.7	66.8 63.9	0.3 0.3	4.1 4.3	322.6 324.7	1.2 2.5	502.6 509.8	15.7 19.9	0.1 0.1	523.3 530.7	0.2 0.2	523.5 530.8
2007	0.0	20.7	0.4	113.7	03.9	0.3	4.3	324.7	2.0	509.8	19.9	0.1	550.7	0.2	550.8

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Minnesota

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	M/ 1	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	2 433	49	239	156	0	395	0	731		0	0	0	90	
1960 1965	2,433 3,857	49 51	239 278	156 182	ŏ	395 460	143	915		ŏ	ŏ	ő	111	
1970 1975	6.192	59	842	551	143	1.537	0	726		0	0	0	127	
1975	7,595	23	851	674	59	1,584	9,750	728		0	0	0	185	
1980	12,610	8	361	167	0	529	10,027	642		0	0	0	953	
1985	11,498	1	(s)	49	0	49	11,572	829		0	0	0	2,668	
1990	16,916	5	1	.91	727	820	12,139	685		0	0	(s) 57	728	
1995	17,282	8	0	134	770	904	13,243 12,095	874		0	0	57	8,441	
1996 1997	17,459	5	2	140	1,055 1,241	1,196	12,095	937		0	0	50	8,837	
	17,490 17,902	6	1	253	1,241	1,501 1,225	10,819	807		0	0	54 147	9,889 7,936	
1998 1999	17,902	13 11	2	184 217	1,041	1,225	11,644 13,316	750 906		0	0	486	7,936 5,998	
2000	18,639	10	1	246	1,080	1,327	12,960	684		0	0	725	7,892	
2000	18,427	11	50	199	980	1,229	11,789	645		0	0	897	8,270	
2001 2002	19,088	11 13	5	95	1,054	1,154	13,685	764		0	0	906	4,174	
2003	20,729	17	41	206	1,311	1,558	13,414	721		Õ	0	978	-2,511	
2004	20,070	13	62	129	1,205	1,396	13,296	607		ŏ	ŏ	812	2,610	
2005	20,008	26	78	232	1,109	1.420	12,835	645		0	0	1 582	7,754	
2006	19,573	25	21	149	757	928 803	13,183	475		0	0	2,055 2,639	7,925	
2007	19,178	35	70	397	336	803	13,103	558		0	0	2,639	6,858	
							Trillion E	Btu						
1960	54.5	50.2	1.5	0.9	0.0	2.4	0.0	7.9	0.2	0.0	0.0	0.0	0.3	115.4
1965	85.5	51.3	1.7	1.1	0.0	2.8	1.7	9.6	0.1	0.0	0.0	0.0	0.4	151.4
1970	125.5	59.1	5.3	3.2	0.9	9.4	0.0	7.6	0.2	0.0	0.0	0.0	0.4	202.2
1975 1980	136.3	22.3	5.4	3.9	0.4	9.6	107.4	7.6	(s)	0.0	0.0	0.0	0.6	283.8
1980	221.4 200.6	8.0 1.3	2.3	1.0 0.3	0.0 0.0	3.2 0.3	109.4 122.9	6.7 8.7	(s) (s) 7.7	0.0 0.0	0.0 0.0	0.0 0.0	3.3	352.0 342.9
1905	298.5	5.4	(s) (s)	0.5	4.4	4.9	122.9	7.1	(S) 7.7	0.0	0.0	(s)	9.1 2.5	454.6
1995	305.9	8.4	0.0	0.8	4.6	5.4	139.1	9.0	9.6	0.0	0.0	0.6	28.8	505.9
1996	311.9	5.3	(s)	0.8	6.4	7.2	127.0	9.7	8.6 8.8	0.0	0.0	0.5	30.2	500.6
1997	311.6	6.2	(s)	1.5	7.5	9.0	113.5	8.2	9.4	0.0	0.0	0.6	33.7	492.3
1998	318.7	13.6	(s)	1.1	6.3	7.3	122.2	7.7	8.5	0.0	0.0	1.5	27.1	506.6
1999	304.8	11.5	(s) (s) (s)	1.3	7.6	8.9	139.1	9.3	8.2	0.0	0.0	5.0	20.5	507.3
2000	333.3	10.1	(s)	1.4	6.5	7.9	135.2	7.0	8.8	0.0	0.0	7.4	26.9	536.6
2001	328.9	10.8	(s) 0.3	1.2	5.9	7.4	123.2	6.7	5.5	0.0	0.0	9.3	28.2	519.9
2002	334.6	13.3	(s) 0.3	0.6	6.4	6.9	142.9	7.8	7.8	0.0	0.0	9.2	14.2	536.6
2003	366.7	16.8	0.3	1.2	7.9	9.4	139.8	7.4	10.4	0.0	0.0	10.0	-8.6	551.8
2004	353.8	R 12.9	0.4	0.8	7.3	8.4	138.6	6.1	7.9	0.0	0.0	8.1	8.9	544.8
2005	353.0	R 26.3	0.5	1.4	6.7	8.5	133.9	6.5	9.3	0.0	0.0	15.8	26.5	579.7
2006	345.1	25.1	0.1	0.9	4.6	5.6	137.6	4.7	8.9	0.0	0.0	20.4	27.0	574.3
2007	339.2	35.1	0.4	2.3	2.0	4.8	137.4	5.5	17.2	0.0	0.0	26.1	23.4	588.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Mississippi

						Petroleum				Nooloo	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millio	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	30	182	2,375	1,465	4,220	16,096	311	2,950	27,417	0	0					
1965	40	244	2,796	1,460	4,720	18,539	489	5,232	33,237	0	0					
1970 1975	549 1,440	360 230	5,991 9,852	1,614 1,475	8,645 8,180	24,316 27,811	703 12,063	10,682 9,813	51,951 69,194	0	0					
1980	3,127	264	9,648	1,530	5,694	26,781	16,010	9,130	68,793	0	0					
1985	4,519	227	13,461	4,111	4,672	27,586	1,319	6,940	58,088	4,332	0					
1990 1995	4,159 4.606	254 288	13,221 14,065	6,922 7,573	7,093 6,810	29,080	3,658 2,607	9,612 9,424	69,585 74,494	7,422	0					
1995	4,606 5,791	268 269	14,065	7,573 7,157	8,945	34,017 34,178	2,607 3,491	10,681	74,494 70,302	8,013 9,225	0					
1997	6,273	256	16,654	7,157 R 7,916	3,091	35,393	5,317	11,227	79,302 R 79,597	10,813	Ö					
1998	5,897	241	16,937	R 7,690	2,787	36,708	9.507	10,587	K 84 216	9.191	0					
1999	6,206	307	17,510	9,658	5,312	38,422	5,843	10,786	87,531	8,428	0					
2000 2001	6,386 8,488	301 333	16,517 16,995	9,004 8,411	6,545 7,526	37,193 36,481	5,906 9,883	9,843 9,810	85,008 89,106	10,695 9,924	0					
2002	8,018	344	18,228	7,223	5.647	38,010	1,368	9,940	80.415	10,059	0					
2003	9,691	266	19,610	9,193	6,672	38,676	3,592	11,405	89,147	10,902	0					
2004	10,110	282	21,131	6,119	3,872	39,206	6,448	11,692	88,469	10,233	0					
2005 2006	9,882 10,528	302 307	20,143 21,407	5,902 7,097	3,198 R 3,614	39,765 40,097	3,282 1,418	11,923 13,268	84,213 R 86,901	10,078 10,419	0					
2007	10,037	364	22,909	4,366	3,080	40,534	1,449	13,191	85,528	9,359	0					
								Trillion Btu								
1960 1965	0.8	187.9	13.8	7.8	16.9	84.6	2.0	17.9	143.0 175.1	0.0	0.0	46.6	0.0	27.5	0.0	405.7
1965 1970	1.0 13.2	250.6 369.4	16.3 34.9	7.8 8.7	18.9 32.7	97.4 127.7	3.1 4.4	31.6 64.1	1/5.1 272.6	0.0 0.0	0.0 0.0	37.8 33.5	0.0 0.0	48.0 58.2	0.0	512.5 746.9
1975	33.4	235.3	57.4	8.0	30.4	146.1	75.8	59.9	377.6	0.0	0.0	31.2	0.0	94.8	0.0	740.9
1980	75.0	270.9	56.2	8.3	20.9	140.7	100.7	55.8	382.6	0.0	0.0	38.1	0.0	67.9	0.0	834.5
1985	109.4	233.0	78.4	22.9	16.8	144.9	8.3	43.7	315.1	46.0	0.0	50.9	0.0	83.7	0.0	838.1
1990 1995	103.9 103.8	261.9 295.4	77.0 81.9	39.0 42.9	25.7 24.7	152.8 177.4	23.0 16.4	59.0 57.5	376.4 400.8	78.5 84.2	0.0 0.0	84.8 94.1	(s) 0.1	111.8 126.2	0.0 0.0	1,017.5 1,104.6
1995	127.8	277.5	86.5	40.6	32.3	178.3	21.9	64.8	424.4	96.9	0.0	85.6	0.1	126.4	0.0	1,138.7
1997	132.2	264.2	97.0	44.9	11.2	184.5	33.4	68.3	439.3	113.5	0.0	84.1	0.2	105.7	0.0	1,139.2
1998	125.9	252.4	98.7	43.6	10.1	191.3	59.8	64.7	468.1	96.4	0.0	63.9	0.2	125.2	0.0	1,132.2
1999	137.6	317.8	102.0 96.2	54.8 51.1	19.2 23.6	200.2	36.7 37.1	65.8	478.7	88.1	0.0	64.9 75.2	0.3	131.8 119.0	0.0	1,219.2
2000 2001	147.5 198.3	312.1 340.9	96.2 99.0	51.1 47.7	23.6 27.2	193.8 190.1	37.1 62.1	60.0 59.2	461.8 485.3	111.5 103.7	0.0 0.0	75.2 55.8	0.3 0.3	-16.9	0.0	1,227.4 1,167.4
2001	154.3	362.5	106.2	41.0	20.4	198.0	8.6	60.1	434.2	105.7	0.0	49.3	0.3	76.9	0.0	1,182.6
2003	178.9	265.8	114.2	52.1	24.2	201.4	22.6	69.4	484.0	113.6	0.0	44.9	0.4	93.5	0.0	1,181.2
2004	185.0	293.6	123.1	34.7	14.0	204.5	40.5	71.2	488.0	106.7	0.0	60.8	0.5	R 77.7	0.0	1,212.2
2005 2006	176.3 190.1	310.7 314.4	117.3 124.7	33.5 40.2	11.6 R 13.0	207.5 209.2	20.6 8.9	72.8 81.4	463.3 R 477.5	105.2 108.7	0.0 0.0	R 62.2 R 63.5	0.6 0.6	65.2 62.6	0.0	R 1,183.4 R 1,217.4
2006	184.9	374.9	133.4	24.8	11.1	209.2 211.5	9.1	81.0	470.9	98.2	0.0	63.9	0.6	62.6 46.0	0.0	1,239.5

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Mississippi

Year Si 1960 1965 1970 1975 1980	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity			
Year Si 1960 1965 1970 1975 1980	Short Tons 0 0	Cubic Feet		_			11000			Sales		Electrical System	
1965 1970 1975 1980	Ö	24		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1965 1970 1975 1980		24	23	13	2.450	2,486	1,375			2,089			
1975 1980	Λ	24	32	27	2,450 2,865	2,923	923			3,705			
1980	0	37	89 196	75	5,129	5,293	515			6,880			
1980	0	30	19 <u>6</u>	127	4,231	4,554	507			8,091			
	(s) (s)	29 26	7	44	2,201 1,915	2,252	507 900			9,964			
1985 1990		26	1	27 12	1,915 2,158	1,943 2,171	900 458			10,447 12,266			
1990	(s) 0	25 27	(c)	20	1,946	1,966	360			14,181			
1996	0	30	(s)	22	2,397	2,420	374			14,965			
1997		28		21	2.240	2,261	195			14,817			
1998	(s) 0	25	(s) 1	24	2,124	2,150	174			16,392			
1999	0	25	2	21	2.328	2,351	183			16,321			
2000	0	27	1	35	3,998	4,035	196			17,193			
2001	0	28	5	32	4,141	4,178	158			16,856			
2002 2003	0	26 27	1	9 11	2,942 2,368	2,952 2,380	160 168			17,844 17,670			
2003	0	21 24	5	15	2,300 2,191	2,360 2,211	_ 173			17,580			
2005	0	24	8	17	1 864	1 889	R 245			17,953			
2006	Ő	21	(s)	14	1,864 R 1,881	1,889 R 1,895	R 245 R 223			18,276			
2007	0	22	(s)	13	1,836	1,849	246			18,566			
						Tı	rillion Btu						
1960	0.0	24.9	0.1	0.1	9.8	10.0	27.5	0.0	0.0	7.1	69.5	17.6	87.2
1965	0.0	24.8	0.2	0.2	11.5	11.8	18.5	0.0	0.0	12.6	67.7	30.2	97.9
1970	0.0	37.6	0.5	0.4	19.4	20.3	10.3	0.0	0.0	23.5	91.7	56.8	148.5
1975 1980	0.0	30.2 30.5	1.1	0.7 0.2	15.7 8.1	17.6 8.4	10.1 10.1	0.0 0.0	0.0 0.0	27.6 34.0	85.5 83.0	66.4 81.9	151.9 165.0
1985	(s) (s) (s)	30.3 26.3	(s) (s)	0.2	6.9	7.1	18.0	0.0	0.0	35.6	87.0	82.1	169.1
1990	(5)	26.3 25.9	(s)	0.1	7.8	7.9	9.2	(s)		41.9	84.8	96.8	181.5
1995	0.0	27.5	(s)	0.1	7.0	7.3	7.2	(s)	(s) (s) (s)	48.4	90.3	109.9	200.2
1996	0.0	27.5 31.0	(s) (s)	0.1	7.0 8.7	7.2 8.8	7.2 7.5	(s)	(s)	51.1	98.4	116.1	214.5
1997	(s)	28.6	(s)	0.1	8.1	8.2	3.9 3.5 3.7	(s)	(s)	50.6	91.3	114.5	205.9
1998	0.0	26.1	(s) (s)	0.1	7.7	7.8	3.5	(s)	(s)	55.9	93.4	126.8	220.2
1999	0.0	25.6		0.1	8.4	8.5	3.7	(s)	(s)	55.7	93.5	127.4	220.9
2000	0.0	28.2	(s)	0.2	14.4	14.6	3.9 3.2	(s)	(s)	58.7	105.4	133.4	238.9
2001	0.0	28.5	(s)	0.2	15.0	15.2	3.2	(s)	(s)	57.5	104.4	128.2	232.6
2002	0.0	28.6 26.1	(s)	0.1	10.6	10.7	3.2	(s)	(s)	60.9	103.4	135.7	239.1
2003 2004	0.0 0.0	∠0.1 25.2	(s) (s)	0.1 0.1	8.6 7.9	8.7 8.0	3.4	(s) (s)	(s) (s)	60.3 60.0	98.4 _ 96.8	133.0 132.7	231.5
2004	0.0	25.3 25.2	(5)	0.1	6.7	6.9	8.3 R <u>4</u> a	(S)	(s)	61.3	R 98.2	134.0	R 232 2
2006	0.0	21.8	(s) (s)	0.1	6.7 R 6.8	R 6.9	3.5 R 4.9 R 4.5	(s)	(s)	62.4	R 95.5	134.8	R 230.4
2007	0.0	22.8	(s)	0.1	6.6	6.7	4.9	(s)	(s)	63.3	97.8	136.7	229.5 R 232.2 R 230.4 234.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not egual sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Mississippi

					Petro	oleum			II. day	Biomass		D-4-II			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	0	15	28	0	432	79	18	557	0			1,278			
1965	0	12	39	0	506	88	33 45	665	0			1,968			
1970	0	24	108	0	905	91	45	1,149	0			3,019			
1975 1980	0 2	24 21	239 24	0	747 388	105 122	898 3,405	1,988 3,940	0			3,982 5,110			
1985	1	17	755	39	338	134	3,405	3,940 1,277	0			6.131			
1990	(s)	18	400	6	381	165	0	952	0			7,407			
1995	0	20	318	7	343	49	Õ	717	Ö			8,210			
1996	0	22	397	6	423	57	0	883	0			8,615			
1997	(s)	22	330	13	395	47	0	785	0			10,649			
1998 1999	0	21 20	366 260	7 44	375 411	49 44	0	796 758	0			11,519 11,923			
2000	0	20	260 261	8	706	44 45	0	1.019	0			11,923			
2000	0	22	332	10	731	40	50	1,162	0			12,163			
2002	Ö	21	262	8	519	33	0	822	Ö			12,588			
2003	0	23	432	44	418	34	2	931	0			12,593			
2004	0	22	207	9	387	38	9	649	0			12,750			
2005	0	21	193	8	329 R 332	194	0	723 R 570	0			12,666			
2006 2007	0	19 21	200 1,137	6 4	324	32 32	0	1,498	0			12,949 13,400			
			.,	<u> </u>				Trillion Btu				.0,100			
1960	0.0	15.7	0.2	0.0	1.7	0.4	0.1	2.4	0.0	0.5	0.0	4.4	23.0	10.8	33.8
1965	0.0	12.8	0.2	0.0	2.0	0.5	0.2	2.9	0.0	0.3	0.0	6.7	22.8	16.0	38.8
1970	0.0	24.4	0.6	0.0	3.4	0.5	0.3	4.8	0.0	0.2	0.0	10.3	39.7	24.9	64.7
1975	0.0	24.4	1.4	0.0	2.8	0.6	5.6	10.4	0.0	0.2	0.0	13.6	48.6	32.7	81.3
1980	(s)	21.6	0.1	0.0	1.4	0.6	21.4	23.6	0.0	0.3	0.0	17.4	62.9	42.0	105.0
1985 1990	(s) (s)	17.0 18.1	4.4 2.3	0.2	1.2 1.4	0.7 0.9	0.1 0.0	6.6 4.6	0.0 0.0	0.4 1.0	0.0	20.9 25.3	45.0 49.0	48.2 58.4	93.2 107.5
1990	0.0	20.3	2.3 1.0	(s) (s)	1.4	0.9	0.0	3.4	0.0	1.0	(s) 0.1	28.0	52.8	63.6	116.4
1996	0.0	22.9	1.9 2.3		1.2 1.5	0.3	0.0	4.2	0.0	1.0	0.1	29.4	57.6	66.8	124.5
1997	(s)	22.9	1.9	(s) 0.1	1.4	0.2	0.0	3.7	0.0	0.7	0.2	36.3	63.7	82.3	146.0
1998	0.0	22.5	2.1	(s)	1.4	0.3	0.0	3.8	0.0	0.6	0.2 0.2	39.3	66.3	89.1	155.5
1999	0.0	21.1	1.5	0.2	1.5	0.2	0.0	3.5	0.0	0.6	0.2	40.7	66.0	93.1	159.1
2000	0.0	22.6	1.5	(s) 0.1	2.5	0.2	0.0	4.3	0.0	0.6	0.2	41.9	69.7	95.4	165.1
2001 2002	0.0 0.0	22.1 22.9	1.9 1.5	(0)	2.6 1.9	0.2 0.2	0.3 0.0	5.1 3.6	0.0 0.0	0.6 0.6	0.3 0.3	41.5 42.9	69.5 70.3	92.5 95.7	162.0 166.1
2002	0.0	22.9	1.5 2.5	(s) 0.2	1.5	0.2	(s)	3.6 4.5	0.0	0.6	0.3	43.0	70.3 70.9	94.8	165.7
2003	0.0	23.2	1.2	0.1	1.4	0.2	0.1	2.9	0.0	0.6	0.4	43.5	70.6	96.3	166.8
2005	0.0	21.5	1.1	(s)	1.2	1.0	0.0	3.4	0.0	R 0.8	0.5	43.2	R 69.3	94.5	R 163.9
2006	0.0	19.7	1.2	(s)	1.2 1.2	0.2	0.0	2.6	0.0	R 0.7	0.5 0.6	44.2	R 67.7	95.5	R 163.3 175.0
2007	0.0	21.3	6.6	(s)	1.2	0.2	0.0	8.0	0.0	8.0	0.6	45.7	76.3	98.6	175.0

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Mississippi

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	21	77	1,441	1,118	738	218	2,475	5,990	0			2,004			
1965 1970	31 48	105 141	1,590 3,100	1,117 2,139	610 311	149 240	4,430 10,006	7,896 15,795	0			3,517 5,101			
1975	24	107	4,455	2,139	218	778	9,176	17,366	0			6,814			
1980	53	79	3,527	2,753	73	2,172	8,566	17,290	0			8,184			
1985	251	105	3,814	2,187	751	89	6,480	13.321	0			9,147			
1990	271	108	3,851	4,423	578	947	9,140	18,937	0			12,454			
1995	287	88	3,881	4,448		81	8,989	17,826	0			15,477			
1996	233	84	3,858	6,061	430	112	10,294	20,755	0						
1997	238	88	4,643	397	488	31	10,812	16,371	0			14,622			
1998 1999	213 184	82 124	4,051 3,926	280 2,232	370 733	153	10,127 10,308	14,981 17,211	0			14,599 15,735			
2000	155	124	3,926	1,727	758 758	11 7	9,373	15,140	0						
2001	154	103	3,700	2,631	1,086	195	9,362	16,974	0			15,268			
2002	149	106	3,497	2,113	1,176	121	9,546	16,454	Ö			15,021			
2003	146	94	3,246	3,843		169	11,005	19,503	Ō			15,281			
2004	160	106	4,175	1,251	1,415	310	11,275	18.426	0			15,702			
2005	121 R 151	99	3,188	960	1,383	294	11,577	17,402 R 18,631	0			15,282			
2006	K 151	104	2,845	R 1,369	1,483	66	12,869	K 18,631	0						
2007	142	111	3,113	891	628	115	12,787	17,532	0			16,187			
							Tri	Ilion Btu							
1960	0.5	79.3	8.4	4.5	3.9	1.4	15.2	33.4	0.0	18.5	0.0		138.5	16.9	155.4
1965	0.8	108.5	9.3	4.5		0.9	27.2	45.1	0.0	19.0	0.0		185.3	28.7	214.0
1970 1975	1.2	144.4	18.1	8.1	1.6	1.5	60.3	89.6	0.0	23.0	0.0		275.6	42.1	317.7
1975	0.6 1.2	109.1 81.5	26.0 20.5	10.2 10.8	1.1 0.4	4.9 13.7	56.3 52.6	98.4 98.0	0.0 0.0	20.8 27.7	0.0 0.0		252.1 236.4	55.9 67.3	308.0 303.7
1985	5.9	108.1	22.2	7.9	3.9	0.6	41.0	75.6	0.0	32.5	0.0		253.2	71.9	325.1
1990	6.3	111.6	22.4	16.0		6.0	56.3	103.7	0.0	74.7	0.0		338.8	98.3	437.1
1995	6.9	89.9	22.6	16.1	2.2	0.5	55.0	96.4	0.0	85.9	0.0		331.9	119.9	451.8
1996	5.6	87.0	22.5	21.9	2.2	0.7	62.6	109.9	0.0	77.1	0.0	54.7	334.2	124.5	458.7
1997	5.6	90.8	27.0	1.4		0.2	65.9	97.1	0.0	79.6	0.0		323.0	113.0	436.0
1998	5.1	86.6	23.6	1.0	1.9	1.0	62.0	89.5	0.0	59.9	0.0	49.8	291.0	113.0	404.0
1999	4.4	129.2	22.9	8.1	3.8	0.1	63.0	97.9	0.0	60.7	(s)	53.7	346.0	122.8	468.8
2000	3.7	125.6	19.1	6.2	3.9	(s) 1.2	57.3	86.6	0.0	70.6	(s)	54.1	340.7	123.1	463.7
2001	3.7	105.6	21.5	9.5	5.7	1.2	56.6	94.6	0.0	52.1	(s)	52.1	308.2	116.1	424.2
2002 2003	3.6 3.5	114.0 92.4	20.4 18.9	7.6 13.9		0.8 1.1	57.8 67.1	92.7 107.5	0.0	45.5 41.0	(s) (s)	51.3 52.1	307.1 296.6	114.2 115.1	421.4 411.6
2003	3.5	92.4 111.5	24.3	4.5		1.1	68.8	107.5	0.0	56.7	(S)	53.6	332.5	118.5	451.1
2004	2.9	102.1	18.6	3.5	7.4	1.9	70.7	101.8	0.0	56.5	(s)	52.1	315.5	114.0	_ 429.5
2006	3.6	105.9	16.6	3.5 R 4.9	7.7	0.4	79.1	R 108.8	0.0	58.3	(s)	53.6	R 330.3	115.9	R 446.2
2007	3.4	114.1	18.1	3.2	3.3	0.7	78.7	104.0	0.0	58.2	(s)		335.0	119.2	454.1
			·								(-)				

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Mississippi

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	(s)	31	170	882	1,465	220	292	15,279	11	18,320	0	0			
1965	(s)	45	463	1,136	1,460	233	312	17,842	301	21,747	0	0			
1970 1975	(s) (s)	59 38	318 203	2,690 4,696	1,614 1,475	472 464	283 307	23,914 27,489	3 1,184	29,293 35,817	0	0			
1975	(5)	39	203	6,020	1,530	152	315	26,585	5,355	40,163	0	0			
1985	Ö	25	108	8,830	4,111	152 232	286	26,701	1,110	41,379	Ő	Ŏ			
1990	0	38	132	8,920	6,922	131	322	28,337	1,532	46,296	0	0			
1995	0	42	100	9,825	7,573	72	307	33,540	2,519	53,937	54	0			
1996 1997	0	49	61	10,506 11,629	7,157 R 7,916	64 58	298 315	33,690	1,675 1,251	53,451 R 56,094	6 0	0			
1997	0	45 36	66 99	12,458	R 7,690	56 7	330	34,858 36,290	1,251	R 57,913	0	0			
1999	0	32	80	13,260	9,658	341	333	37,644	916	62,232	0	0			
2000	Ö	31	98	12,927	9,004	114	328	36,391	1,366	60,228	0	Ö			
2001	0	30	106	12,909	8,411	24	301	35,355	1,291	58,397	0	0			
2002	0	27	79	14,436	7,223	72	297	36,801	1,224	60,133	0	0			
2003	0	26	69	15,896	9,193	43	275	37,402	821	63,699	0	(s)			
2004 2005	0	22 22	114 45	16,700 16,664	6,119 5,902	43 45	278 277	37,753 38,188	1,681 600	62,689 61,721	0 R 33	(s)			
2005	0	22	109	18,333	7,097	32	270	38,582	703	65,127	R 30	(s) (s)			
2007	Ő	27	108	18,590	4,366	30	279	39,874	684	63,931	97	(s)			
								Trillion Btu							
1960	(s)	32.5	0.9	5.1	7.8	0.9	1.8	80.3	0.1	96.8	0.0	0.0	129.3	0.0	129.3
1965	(s)	46.6	2.3	6.6	7.8	0.9 1.8	1.9	93.7	1.9	115.2	0.0	0.0	161.8	0.0	161.8
1970 1975	(s)	60.8 39.2	1.6 1.0	15.7 27.4	8.7 8.0	1.8	1.7 1.9	125.6 144.4	(s) 7.4	155.2 191.8	0.0 0.0	0.0 0.0	216.0 231.0	0.0 0.0	216.0 231.0
1975	(s) 0.0	40.6	1.0	35.1	8.3	0.6	1.9	139.7	33.7	220.2	0.0	0.0	260.8	0.0	260.8
1985	0.0	25.9	0.5	51.4	22.9	0.8	1.7	140.3	7.0	224.7	0.0	0.0	250.7	0.0	250.7
1990	0.0	39.0	0.7	52.0	39.0	0.5	2.0	148.9	9.6	252.5	0.0	0.0	291.5	0.0	291.5
1995	0.0	42.6	0.5	57.2	42.9	0.3	1.9	174.9	15.8	293.5	0.2	0.0	336.1	0.0	336.1
1996	0.0	50.6	0.3	61.2	40.6	0.2	1.8	175.7	10.5	290.4	(s) 0.0	0.0	341.0	0.0	341.0
1997 1998	0.0 0.0	46.7 38.2	0.3 0.5	67.7 72.6	44.9 43.6	0.2	1.9 2.0	181.7 189.1	7.9 6.5	R 304.7 R 314.4	0.0 0.0	0.0 0.0	351.3 352.6	0.0 0.0	351.3 352.6
1998	0.0	38.2 32.9	0.5	72.6 77.2	43.6 54.8	(s) 1.2	2.0	189.1	5.8	314.4	0.0	0.0	352.6 370.5	0.0	352.6 370.5
2000	0.0	32.9	0.4	75.3	51.1	0.4	2.0	189.6	8.6	327.4	0.0	0.0	370.3	0.0	359.7
2001	0.0	30.9	0.5	75.2	47.7	0.1	1.8	184.2	8.1	317.6	0.0	0.0	348.6	0.0	348.6
2002	0.0	29.2	0.4	84.1	41.0	0.3	1.8	191.7	7.7	326.9	0.0	0.0	356.0	0.0	356.0
2003	0.0	25.5	0.3	92.6	52.1	0.2	1.7	194.8	5.2	346.8	0.0	(s)	372.3	(s)	372.3
2004	0.0	22.9	0.6	97.3	34.7	0.2	1.7	196.9	10.6	341.8	0.0	(s)	364.8	(s)	364.8
2005	0.0	22.1	0.2	97.1	33.5	0.2	1.7	199.3	3.8	335.6	R 0.1	(s)	357.8	(s)	357.8
2006 2007	0.0 0.0	22.5 28.1	0.6 0.5	106.8 108.3	40.2 24.8	0.1 0.1	1.6 1.7	201.3 208.1	4.4 4.3	355.1 347.8	R 0.1 0.3	(s) (s)	377.6 375.9	(s) (s)	377.6 375.9
2007	0.0	28.1	0.5	108.3	24.8	0.1	1.7	208.1	4.3	347.8	0.3	(s)	375.9	(s)	

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Mississippi

The Shirt Sh	Coal Thousand Short Tons	Natural Gas a Billion Cubic Feet 34 56 100 32 95 54 65 111 83 73	Residual Fuel Oil b 64 6 415 9,203 5,078 108 1,179 7	1 (s) 5 266 70 61	Petroleum Coke d Barrels	Total 65 7 420	Nuclear Electric Power Million Ki	Hydroelectric Power d lowatthours	Wood and Waste ^{e,f}	Geothermal f	Solar/PV ^{f,g}	Wind ^f	Electricity Net Imports h	Total ^{f,i}
Year She 1960 1965 1977 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	8 9 500 1,416 3,072 4,267 3,888 4,319 5,558 6,035 5,684	34 56 100 32 95 54 65	415 9,203 5,078 108 1,179 7	1 (s) 5 266 70 61	0 0 0		0		and		Million Kilo	watthours		Total f,i
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	500 1,416 3,072 4,267 3,888 4,319 5,558 6,035 5,684	100 32 95 54 65 111	415 9,203 5,078 108 1,179 7	266 70 61	0			0						
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	500 1,416 3,072 4,267 3,888 4,319 5,558 6,035 5,684	100 32 95 54 65 111	415 9,203 5,078 108 1,179 7	266 70 61	0					0	0	0	0	
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	500 1,416 3,072 4,267 3,888 4,319 5,558 6,035 5,684	100 32 95 54 65 111	415 9,203 5,078 108 1,179 7	266 70 61	0	420		0		Ŏ	Ö	0	Ö	
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	3,072 4,267 3,888 4,319 5,558 6,035 5,684	111	5,078 108 1,179 7	70 61	0		0	0		0	0	0	0	
1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	4,267 3,888 4,319 5,558 6,035 5,684	111	108 1,179 7	61	1	9,469	0	0		0	0	0	0	
1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	3,888 4,319 5,558 6,035 5.684	111	1,179 7	61	0	5,149	0	0		0	0	0	0	
1997 1998 1999 2000 2001 2002 2003 2004	4,319 5,558 6,035 5,684	111	7	EΛ	0	169	4,332 7,422	0		0	0	0	0	
1997 1998 1999 2000 2001 2002 2003 2004	5,558 6,035 5,684	83		50 41	0	1,228 48	7,422 8,013	0		0	0	0	0	
1997 1998 1999 2000 2001 2002 2003 2004	6,035 5,684	73	1,703	89	0	1,792	8,013 9,225	0		0	0	0	0	
1998 1999 2000 2001 2002 2003 2004	5.684		4,035	51	0	4,086	10,813	0		0	0	0	0	
2000 2001 2002 2003 2004	6.022	76	8.314	61	Õ	8.376	9.191	Õ		Ö	Õ	Ö	Ö	
2000 2001 2002 2003 2004		106	4,916	62 53	Ō	4,978	8,428	0		0	0	0	Ō	
2003 2004	6,232	101	4.533	53	0	4.585	10,695	0		0	0	0	0	
2003 2004	8,334	149	8,348	49 31	0	8,396	9,924	0		0	0	0	0	
2003 2004	7,869	164	23	31	0	54	10,059	0		0	0	0	0	
2004	9,545	96	2,600	35 44	0	2,635	10,902	0		0	0	0	0	
2005	9,950 9,760	107	4,449 2,388	44	0	4,493	10,233 10,078	0		0	0	0	0	
2005 2006	10,378	136 140	2,388 650	90	0	2,478	10,078	0		0	0	0	0	
2007	9,895	183	650	90 28 69	0	678 719	9,359	0		0	0	0	0	
	-,					-	Trillion E							
1060	0.2	35.6	0.4	(s)	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2
1960 1965	0.2	58.0	(s)	(s)	0.0	(s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.3
1970	12.1	102.2	(s) 2.6	(s)	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.9
1970 1975 1980	32.8	32.5	57.9	(s) 1.5	0.0	59.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7
1980	73.7	96.7	31.9	0.4	0.0	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.7 202.7
1985 1990	103.5	55.7	0.7	0.4	0.0	1.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0	206.2
1990	97.6	67.4	7.4	0.3	0.0	7.7	78.5	0.0	0.0	0.0	0.0	0.0	0.0	251.3
1995	96.9	115.1	(s) 10.7	0.2	0.0	0.3	84.2	0.0	0.0	0.0	0.0	0.0	0.0	296.4
1996 1997 1998	122.2	85.9	10.7	0.5	0.0	11.2	96.9	0.0	0.0	0.0	0.0	0.0	0.0	316.3
1997	126.5 120.8	75.3	25.4 52.3	0.3	0.0 0.0	25.7 52.6	113.5 96.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	341.0 348.8
1998	133.2	79.0 109.0	52.3 30.9	0.4 0.4	0.0	31.3	96.4 88.1	0.0	0.0	0.0	0.0	0.0	0.0	348.8 361.5
2000	143.8	103.5	28.5	0.4	0.0	28.8	111.5	0.0	0.0	0.0	0.0	0.0	0.0	387.6
2001	194.6	153.7	52.5	0.3	0.0	52.8	103.7	0.0	0.0	0.0	0.0	0.0	0.0	504 7
2001 2002	150.7	167.8	0.1	0.3 0.2	0.0	0.3	105.0	0.0	0.0	0.0	0.0	0.0	0.0	423.9
2003	175.4	99.3	16.3	0.2	0.0	16.6	113.6	0.0	0.0	0.0	0.0	0.0	0.0	404.8
2004	181.2	110.8	28.0	0.3	0.0	28.2	106.7	0.0	0.0	0.0	0.0	0.0	0.0	426.9
2005	173.4	139.9	15.0	0.5	0.0	15.5	105.2	0.0	0.0	0.0	0.0	0.0	0.0	434.0
2006	186.4 181.5	144.4 188.7	4.1	0.2	0.0	4.2 4.5	108.7 98.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0	443.8
2007	101 5	188.7	4.1	0.4	0.0	45	02.2	0.0				0.0	0.0	472.8

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Missouri

						Petroleum				Noodoo	I I I I I I I I I I I I I I I I I I I	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Maad	Geo- thermal,	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	ls			Million	n kWh	Wood and Waste ^{f,g}	Solar/PV, and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	7,509	261	12,817	1,249	5,994	40,807	3,179	10,815	74,860	0	726					
1965 1970	8,534 12,863	341 430	13,803 16,235	3,625 8,074	7,692	45,015 56,041	3,449 3,570	13,310	86,894 108,789	0	802 927					
1970	12,863	430 370	16,235	8,074 8,311	11,771 12,995	62,342	3,570 2,521	13,097 11,952	115,940	0	1,280					
1980	24,845	318	18,390	6,268	9,121	58,966	1,427	17,466	111,638	ő	558					
1985	24,733	260	19,987	5,889	5,583	60,036	732	13,699	105,926	8,030	2,993					
1990 1995	25,836 31,753	239 279	21,188 24,122	6,647 11.425	6,874 11.085	63,994 68,930	620 354	15,629 12,675	114,952 128,592	7,998 8.242	2,192 1,919					
1995	34,382	279 294	24,122	12 133	12,965	69,947	360	10,787	120,092	8,890	1,314					
1997	36,860	283	28,760	R 12.325	11,200	70,581	253	9,219	133,330 R 132,338	8,955	1,593					
1998	38,549	259	36,172	R 12,758	8,134	71,675	233	10,619	K 139,592	8,517	2,347					
1999	37,975	266	36,225	12,760	12,671	71,189	140	12,484	145,470	8,587	1,853 600					
2000 2001	38,300 39.812	285 284	28,818 29,913	4,906 7,493	10,820 12,897	73,852 72,510	109 141	10,318 13,904	128,823 136,858	9,992 8,384	1.104					
2002	40,885	276	29,381	9,535	12,722	73,737	112	12,979	138,465	8,390	1,357					
2003	45,028	263	31,143	8,048	12,360	76,754	118	12,033	140,456	9,700	652					
2004	45,635	264	33,955	3,999	12,234	77,040	161	15,370	142,759	7,831	1,480					
2005 2006	47,033 R 46,884	268 R 253	33,124 33,474	6,599 6,574	10,795 8,917	76,998 77,084	110 70	14,590 14,933	142,215 141,051	8,031 10,117	1,159 199					
2007	45,357	272	34,364	6,339	10,573	77,817	38	12,803	141,934	9,372	1,204					
								Trillion Btu								
1960	170.9	270.1	74.7	7.0	24.0	214.4	20.0	64.6	404.6	0.0	7.8	33.6	0.0	13.9	0.0	900.9
1965 1970	189.6 279.2	348.0 432.5	80.4 94.6	20.4 45.7	30.9 44.5	236.5 294.4	21.7 22.4	78.6 79.8	468.4 581.3	0.0 0.0	8.4 9.7	27.0 23.6	0.0 0.0	8.1 -7.4	0.0	1,049.5 1,319.0
1975	430.2	371.8	103.8	47.0	48.3	327.5	15.9	73.6	616.0	0.0	13.3	27.1	0.0	-42.5	0.0	1,416.0
1980	531.4	R 322.9	107.1	35.5	33.5	309.8	9.0	102.2	597.0	0.0	5.8	25.1	0.0	-22.0	-0.1	1,460.1
1985	529.7	R 264.3	116.4	33.3	20.1	315.4	4.6	80.7	570.6	85.3	31.3	31.1	0.0	-82.3	-0.2	1,429.8
1990 1995	539.6 593.7	241.3	123.4 140.5	37.6 64.8	24.9 40.2	336.2 359.5	3.9	92.2 77.7	618.2 684.8	84.6	22.8	17.9 16.3	0.2 0.2	-5.8	2.2	1,521.1 1,685.9
1995	631.1	281.1 R 297.2	158.1	68.8	46.8	364.8	2.2 2.3	66.9	707.7	86.6 93.4	19.8 13.6	17.0	0.2	3.4 9.7	(s) -0.8	1,769.1
1997	670.6	R 286.1	167.5	69.9	40.5	367.9	1.6	56.6	R 704.1	94.0	16.3	14.3	0.2	-20.4	-0.7	1.764.4
1998	695.7	261.5	210.7	72.3	29.4	373.6	1.5	64.8	R 752.3	89.3	23.9	13.3	0.2	-29.2	(s)	R 1,807.0
1999	687.2	R 269.3	211.0	72.3	45.8	371.0	0.9	76.5	777.6	89.7	18.9	13.6	0.2	-13.1	-0.2	1,843.2
2000 2001	688.9 716.4	R 289.0 288.6	167.9 174.2	27.8 42.5	39.0 46.6	384.8 377.8	0.7 0.9	63.2 85.8	683.3 727.8	104.2 87.6	6.1 11.4	14.2 17.8	0.2 0.2	3.0 -24.1	-1.0 (s)	1,788.1 1,825.7
2001	716.4	R 277.0	174.2	42.5 54.1	46.0	384.0	0.9	79.7	735.6	87.6	13.8	16.6	0.2	-24.1 -9.4	-0.1	1,846.9
2003	795.6	R 267.0	181.4	45.6	44.9	399.7	0.7	74.2	746.5	101.1	6.7	17.1	0.2	-87.2	-1.1	1,845.9
2004	807.5	R 268.4	197.8	22.7	44.3	401.8	1.0	95.0	762.5	81.7	14.8	17.6	0.2	-90.5	-1.0	1.861.2
2005	835.7	273.4	192.9	37.4	39.1	401.8	0.7	90.1	762.0	83.8	11.6	R 19.8 R 18.9	0.2	-56.5	(s)	R 1,930.0
2006	829.1 802.4	R 258.0	195.0	37.3 35.9	32.1 38.0	402.2 406.1	0.4	92.0 78.5	759.1 758.9	105.6	2.0 11.9		0.2	-56.6 -5.7	-0.1 -0.1	R 1,916.1 1,964.1
2006	802.4	277.6	200.2	37.3 35.9	38.0	406.1	0.4	78.5	758.9	98.3	11.9	20.5	0.2	-5.7	-0.1	

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Missouri

Thousand Short Tons Billion Cubic Feet Thousand Barrels Thousand Short Tons Billion Cubic Feet Thousand Barrels Thousand Barrels Thousand Cords Geothermal Solar/PV d.c Million Million Kilowatthours Energy d.f Elegy d.f Ele					Petrol	leum		Biomass						
Thousand Short Tons Cubic Feet Thousand Barreis Thousand Gords Geothermal d Solar/PV d.e Million Ridwatthour Energy d.f Los	Coa	oal			Kerosene	LPG b	Total	Wood ^c					Electrical System	
1970 52 157 1,312 69 8,934 10,315 674 9,672 1980 17 143 1,246 57 4,991 6,294 911 13,654 1980 17 143 1,246 57 4,991 6,294 911 18,648 1990 57 116 412 29 4,193 4,634 669 2,1652 1996 25 137 330 56 7,840 8,227 609 26,448 1996 25 137 330 56 7,840 8,227 609 26,448 1998 18 111 294 49 5,105 5,449 424 28,265 1998 18 111 294 49 5,105 5,449 424 28,265 1998 18 111 294 49 5,105 5,449 424 28,265 1999 27 112 306 55 6,848 7,210 447 27,766 2000 19 115 308 69 5,986 6,363 480 29,581 2001 23 114 290 51 6,788 7,129 477 30,188 2002 23 114 290 51 6,788 7,129 477 30,188 2002 23 114 290 51 6,788 7,129 477 31,422 2004 19 110 192 87 5,591 5,871 5,15 31,422 2004 19 110 192 87 5,591 5,871 5,15 31,422 2005 17 107 161 79 4,594 8,344 8,610 31,351 2007 18 102 1143 54 4,763 4,960 612 33,880 2007 18 102 1145 7,7 3 0,3 18,3 25,9 18,2 0,0 0,0 14,4 199.2 1990 0,4 1457 7,3 0,3 18,3 25,9 18,2 0,0 0,0 63,6 253,8 1 1990 1,2 1172 2,4 0,2 35,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1					Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e		Net Energy ^{d,f}	Energy Losses 9	Total d,f
1970 52 157 1,312 69 8,934 10,315 674 9,672 1980 17 143 1,246 57 4,991 6,294 911 13,654 1980 17 143 1,246 57 4,991 6,294 911 18,648 1990 57 116 412 29 4,193 4,634 669 2,1652 1996 25 137 330 56 7,840 8,227 609 26,448 1996 25 137 330 56 7,840 8,227 609 26,448 1998 18 111 294 49 5,105 5,449 424 28,265 1998 18 111 294 49 5,105 5,449 424 28,265 1998 18 111 294 49 5,105 5,449 424 28,265 1999 27 112 306 55 6,848 7,210 447 27,766 2000 19 115 308 69 5,986 6,363 480 29,581 2001 23 114 290 51 6,788 7,129 477 30,188 2002 23 114 290 51 6,788 7,129 477 30,188 2002 23 114 290 51 6,788 7,129 477 31,422 2004 19 110 192 87 5,591 5,871 5,15 31,422 2004 19 110 192 87 5,591 5,871 5,15 31,422 2005 17 107 161 79 4,594 8,344 8,610 31,351 2007 18 102 1143 54 4,763 4,960 612 33,880 2007 18 102 1145 7,7 3 0,3 18,3 25,9 18,2 0,0 0,0 14,4 199.2 1990 0,4 1457 7,3 0,3 18,3 25,9 18,2 0,0 0,0 63,6 253,8 1 1990 1,2 1172 2,4 0,2 35,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1	(699	111	1,330		4,687	6,257	1,293			4,223			
1980 17 143 1,246 57 4,991 6,294 911 18,648 1985 34 128 847 95 3,496 4,437 1,155 18,648 3 1990 57 116 412 29 4,193 4,634 669 21,652 1996 25 137 330 56 7,840 8,227 609 26,648 26,648 1997 29 128 311 45 7,148 7,504 478 26,595 1998 18 111 294 49 5,105 5,449 424 28,265 1998 18 111 294 49 5,105 5,449 424 27,766 2000 19 115 308 69 5,986 6,363 480 27,766 2000 19 115 308 69 5,986 6,363 480 29,581 2001 23 116 404 78 8,994 9,476 470 30,168 2002 23 114 290 51 6,788 7,129 477 31,1884 2002 23 114 290 51 6,788 7,129 477 31,1884 2003 25 115 200 72 6,550 6,822 502 31,422 2004 19 110 192 87 5,591 5,871 5,15 31,351 2005 17 107 161 79 4,594 4,834 8,610 34,412 34,1412 2006 8 19 95 151 66 8 4,344 8,483 8,610 33,1884 30,188 102 143 54 4,763 4,960 612 33,5872 33,880 1995 151 66 8 4,344 8,483 8,610 33,180 34,1412 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 0.1 14.4 199.2 2007 18 102 143 54 4,763 4,960 612 33,5872 33,880 1995 151 66 8 1,344 8,483 8,135 0.0 0.0 0.0 33.0 247.1 1990 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1990 1.2 11.7 2 2.4 0.2 15.2 17.8 13.4 (6) 0.2 73.9 223.7 1.9 1990 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (6) 0.2 73.9 223.7 1996 0.6 8 138.7 19 0.3 28.3 30.6 12.2 0.1 0.2 90.2 273.9 223.7 1996 0.6 8 138.7 19 0.3 28.3 30.6 12.2 0.1 0.2 90.2 273.9 223.7 1996 0.6 8 138.7 19 0.3 28.3 30.6 12.2 0.1 0.2 90.2 273.9 223.7 1996 0.6 8 138.7 19 0.3 28.3 30.6 12.2 0.1 0.2 90.2 275.1 2998 0.4 8 112.0 1.7 0.3 18.5 0.3 248.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 244.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9		1/2		1,056		6,139	7,332	898			5,977			
1980		52	157	1,312		8,934	10,315							
1985 34 128 847 95 3,496 4,437 1,155 18,483 1995 27 116 412 29 4,193 4,634 669 21,652 1995 27 125 436 32 5,841 6,309 586 25,409 1996 25 137 330 56 7,840 8,227 609 26,448 1997 29 128 311 45 7,148 7,504 478 22,595 1999 27 112 306 55 6,848 7,210 447 22,595 1999 27 112 306 55 6,848 7,210 447 22,766 20,000 19 115 308 69 5,986 6,363 480 29,581 20,001 19 115 308 69 5,986 6,363 480 30,168 20,001 23 116 404 78 8,994 9,476 470 30,168 20,002 23 114 290 51 6,788 7,129 477 31,684 20,002 23 114 290 51 6,788 7,129 477 31,684 20,004 19 110 192 87 5,591 5,871 515 31,422 20,006 717 107 161 79 4,594 4,834 8610 34,412 34,412 20,006 819 95 151 66 8,4344 84,561 855 33,880 20,007 18 102 143 54 4,763 4,960 612 35,872 19,900 12,4 11,1 157,7 7,6 0,4 33.8 41.8 13.5 0,0 0,0 0,0 33.0 247,1 1975 1,0 156.5 8,4 0,2 35,4 43.9 114,1 0,0 0,0 46.6 282,0 1,1 1975 1,0 156.5 8,4 0,2 35,4 43.9 114,1 0,0 0,0 46.6 282,0 1,1 1975 1,0 156.5 8,4 0,2 35,4 43.9 114,1 0,0 0,0 46.6 282,0 1,1 1975 1,0 156.5 8,4 0,2 35,4 43.9 114,1 0,0 0,0 46.6 282,0 1,1 1975 1,0 156.5 8,4 0,2 35,4 43.9 114,1 0,0 0,0 63.6 253.8 1,1 1990 1,2 117,2 2,4 0,2 15.2 17.8 13.4 (s) 0,2 73.9 223,7 1,1 1990 1,2 117,2 2,4 0,2 15.2 17.8 13.4 (s) 0,2 73.9 223,7 1,1 1990 0,4 8,135 1,9 0,3 18.3 25.9 18.2 0,0 0,0 0,0 63.6 253.8 1,1 1990 1,2 117,2 2,4 0,2 15.2 17.8 13.4 (s) 0,2 73.9 223,7 1,1 1990 0,6 8,138,7 1,9 0,3 18.3 25.9 18.2 0,0 0,0 0,0 63.6 253.8 1,1 1990 1,2 117,2 2,4 0,2 15.2 17.8 13.4 (s) 0,2 73.9 223,7 1,1 1996 0,6 8,138,7 1,9 0,3 18.3 25.9 18.2 0,0 0,0 0,0 63.6 253.8 1,1 1990 0,4 8,135 1,9 0,3 18.3 25.9 18.2 0,0 0,0 0,0 63.6 253.8 1,1 1990 0,4 8,141,3 1,3 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4		47 17	100	1,433		9,526 4 001	6 204	70 4 011			13,004			
1990		34	128	847	95	3 496	4 437	1 155			18 483			
1996 25 137 330 56 7,840 8,227 609 26,448 1997 29 128 311 45 7,148 7,504 478 26,595 1998 18 111 294 49 5,105 5,449 424 27,766 2000 19 115 308 69 5,986 6,363 480 29,581 2001 23 116 404 78 8,994 9,476 470 30,168 2002 23 114 290 51 6,788 7,129 477 31,684 2003 25 115 200 72 6,550 6,822 502 31,422 2004 19 110 192 87 5,591 5,871 515 31,422 2005 17 107 161 79 4,594 4,834 8,610 34,412 2006 R19 95 151 66 R4,344 4,960 612 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1.9 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.1 235.2 1.9 1980 0.4 145.7 7.3 0.3 24.8 4.8 13.5 0.0 0.0 63.1 235.2 1.9 1980 0.6 R13.5 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 1996 0.6 R13.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 1997 0.7 R12.9 1.8 0.3 25.8 27.9 9.6 0.1 0.1 96.4 237.9 1998 0.4 R12.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 0.1 96.4 237.9 1999 0.6 R13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 1999 0.6 R13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 2000 200		57	116	412	29	4.193	4.634	669			21.652			
1996 25 137 330 56 7,840 8,227 609 26,448 1997 29 128 311 45 7,148 7,504 478 26,595 1998 18 111 294 49 5,105 5,449 424 27,766 2000 19 115 306 65 6,848 7,210 447 27,766 2001 23 116 404 78 8,994 9,476 470 30,168 2002 23 114 290 51 6,788 7,129 477 31,684 2003 25 115 200 72 6,550 6,822 502 31,422 2004 19 110 192 87 5,591 5,871 515 31,313 2005 17 107 161 79 4,594 4,834 8,610 34,412 2006 8,19 95 151 66 8,4344 4,960 612 33,880 2007 18 102 143 54 4,763 4,960 612 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1.9 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.1 235.2 1.9 1980 0.4 145.7 7.3 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 1996 0.6 8,13.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 1996 0.6 8,13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 1998 0.4 8,12.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 209		27	125	436	32		6.309	586			25.409			
1998		25	137	330	56	7,840	8,227	609			26.448			
2000		29		311	45	7,148	7,504	478			26.595			
2000 19 115 308 69 5,986 6,363 480 29,581 2001 23 1116 404 78 8,994 9,476 470 30,168 2002 23 1114 290 51 6,788 7,129 477 31,684 2003 25 115 200 72 6,550 6,822 502 31,422 2004 19 1110 192 87 5,591 5,871 515 31,351 2005 17 107 161 79 4,594 4,834 8610 34,412 2006 819 95 151 66 84,344 8,561 8555 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 Trillion Btu 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1980 0.4 145.7 7.3 0.3 18.3 25.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1985 0.8 8130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1995 0.6 1260 2.5 0.2 212 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 8138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 8128.9 1.8 0.3 28.3 30.6 12.2 0.1 0.2 90.7 257.6 2 1998 0.4 8115.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1998 0.4 8115.0 1.7 0.3 18.5 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 2 1999 0.6 8113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 2		18	111	294	49	5,105	5,449	424			28,265			
2001 23 116 404 78 8,994 9,476 470 30,168 2002 23 1114 290 51 6,788 7,129 477 31,684 2003 25 115 200 72 6,550 6,822 502 31,422 2004 19 110 192 87 5,591 5,871 515 31,351 2005 17 107 161 79 4,594 4,834 R610 34,412 2006 R19 95 151 66 R4,344 R4,561 R555 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 Trillion Btu 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 1.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 R133.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.7 257.6 2 1997 0.7 R128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.6 R133.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 96.4 237.9 2 1999 0.6 R13.5 1.8 0.3 24.8 26.9 8.9 0.1		27	112	306	55	6,848	7,210	447			27,766			
2003		19	115	308	69 70	5,986	6,363 0,476	480			29,581			
2003		23 23	110	200	7 O 51	6,99 4	9,470 7.120	470 477			30,100			
2004 19 110 192 87 5,591 5,871 515 31,351 2005 17 107 161 79 4,594 4,834 8610 34,412 2006 R 19 95 151 66 R 4,344 R 4,561 R 555 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 Trillion Btu Trillion Btu 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1980 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 0.1 94.7 244.8 2 1999 0.6 R 113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 94.7 244.8 2		25	115	200	72	6.550	6 822	502			31,004			
2005		19	110	192	87	5.591	5.871	515			31.351			
2006 R 19 95 151 66 R 4,344 R 4,561 R 555 33,880 2007 18 102 143 54 4,763 4,960 612 35,872 **Trillion Btu** **Trillion Btu** 1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 0.0 63.6 253.8 1 1985 0.8 R 30.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 0.0 63.6 253.8 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 772.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 0.1 94.7 244.8 2 1999 0.6 R 113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 94.7 244.8 2	_	17	107	161	79	4,594	4 834	R 610			34,412			
1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1985 0.8 R 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 244.8 2 1999 0.6 R 13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2						R 4,344	^R 4,561	R 555			33,880			
1960 16.0 115.0 7.7 1.4 18.8 27.9 25.9 0.0 0.0 14.4 199.2 1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 0.0 63.6 253.8 1 1985 0.8 8 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.6 253.8 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 8 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 8 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.2 272.1 2 1998 0.4 8 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1999 0.6 8 113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 0.1 94.7 244.8 2		18	102	143	54	4,763	4,960	612			35,872			
1965 3.9 132.1 6.1 0.8 24.6 31.6 18.0 0.0 0.0 20.4 206.0 1970 1.1 157.7 7.6 0.4 33.8 41.8 13.5 0.0 0.0 33.0 247.1 1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 46.6 262.0 1 1985 0.8 R 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.6 253.8 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 90.2 272.1 2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Tı</td> <td>rillion Btu</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							Tı	rillion Btu						
1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1985 0.8 R 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.7 257.6 2 1999 0.6 R 13.5 1.8 0.3 <td>1</td> <td>16.0</td> <td></td> <td>7.7</td> <td>1.4</td> <td></td> <td></td> <td></td> <td>0.0</td> <td>0.0</td> <td>14.4</td> <td>199.2</td> <td>35.6</td> <td>234.9</td>	1	16.0		7.7	1.4				0.0	0.0	14.4	199.2	35.6	234.9
1975 1.0 156.5 8.4 0.2 35.4 43.9 14.1 0.0 0.0 46.6 262.0 1 1980 0.4 145.7 7.3 0.3 18.3 25.9 18.2 0.0 0.0 63.6 253.8 1 1985 0.8 R 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.7 257.6 2 1999 0.6 R 13.5 1.8 0.3 <td></td> <td>3.9</td> <td>132.1</td> <td>6.1</td> <td>0.8</td> <td>24.6</td> <td>31.6</td> <td>18.0</td> <td>0.0</td> <td>0.0</td> <td>20.4</td> <td>206.0</td> <td>48.7</td> <td>254.6 327.0</td>		3.9	132.1	6.1	0.8	24.6	31.6	18.0	0.0	0.0	20.4	206.0	48.7	254.6 327.0
1985 0.8 K 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 1999 0.6 R 113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		1.1		7.6	0.4	33.8	41.8	13.5	0.0	0.0	33.0	247.1	79.9	327.0
1985 0.8 R 130.3 4.9 0.5 12.6 18.1 23.1 0.0 0.0 63.1 235.2 1 1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 24.8 1999 0.6 R 13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		1.0	156.5	8.4 7.2	0.2	35.4 10.2	43.9 25.0	14.1		0.0		262.0	112.0 153.4	374.1 407.2 380.4 394.5 446.0 477.3
1990 1.2 117.2 2.4 0.2 15.2 17.8 13.4 (s) 0.2 73.9 223.7 1 1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1999 0.6 R 13.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		0.4	R 130 3	1.3	0.5	10.3	18.1	23.1	0.0	0.0	63.0	233.0	145.2	407.2 380.4
1995 0.6 126.0 2.5 0.2 21.2 23.9 11.7 0.1 0.2 86.7 249.1 1 1996 0.6 R 138.7 1.9 0.3 28.3 30.6 12.2 0.1 0.2 90.2 272.1 2 1997 0.7 R 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 R 112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1999 0.6 R 113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		1.2	117.2	2.4	0.3	15.0		13.4		0.0	73.9	233.2	170.8	394.5
1997 0.7 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 8112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1999 0.6 8113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		0.6	126.0	2.5	0.2	21.2	23.9	11.7	0.1	0.2	86.7	249.1	196.9	446.0
1997 0.7 128.9 1.8 0.3 25.8 27.9 9.6 0.1 0.2 90.7 257.6 2 1998 0.4 8112.0 1.7 0.3 18.5 20.4 8.5 0.1 0.1 96.4 237.9 2 1999 0.6 8113.5 1.8 0.3 24.8 26.9 8.9 0.1 0.1 94.7 244.8 2		0.6	R 138.7	1.9	0.3	28.3	30.6	12.2	0.1	0.2	90.2	272.1	205.2	477.3
1998		0.7	K 128.9	1.8	0.3	25.8	27.9	9.6	0.1	0.2	90.7	257.6	205.6 218.7	463.2 456.6 461.5
1999		0.4	R 112.0	1.7	0.3	18.5	20.4	8.5	0.1	0.1	96.4	237.9	218.7	456.6
2000 0.4 $^{\circ}$ 117.2 1.8 0.4 21.6 23.8 9.6 0.1 0.1 100.9 251.7 2		0.6	K 113.5		0.3		26.9	8.9					216.7	461.5
		0.4	^r 117.2	1.8	0.4 0.4	21.6	23.8 35.3	9.6				251.7	229.6	481.3
2001 0.5 116.9 2.4 0.4 32.5 35.3 9.4 0.1 0.1 102.9 265.3 2		0.5	116.9	2.4	0.4	32.5	35.3	9.4	0.1			265.3	229.4	481.3 494.6 500.5
2002 0.5 114.7 1.7 0.3 24.5 26.5 9.5 0.1 0.1 108.1 259.5 2 2003 0.6 R 116.5 1.2 0.4 23.8 25.3 10.0 0.1 0.1 107.2 259.4 2		0.5	R 114.7	1.7	0.3								241.0 236.6	500.5 496.0
2003 0.6 116.5 1.2 0.4 23.6 25.3 10.0 0.1 0.1 107.2 259.4 2 2004 0.4 R 111.6 1.1 0.5 20.2 21.8 10.3 0.1 0.1 107.0 250.9 2			R 111.5		0.4	20.0	20.3 21.8					259.4 250.0	236.7	490.0 487.6
2004 0.4 R 111.6 1.1 0.5 20.2 21.8 10.3 0.1 0.1 107.0 250.9 2 2005 0.4 109.0 0.9 0.4 16.6 18.0 R 12.2 0.1 (s) 117.4 R 257.2 2		0.4	109.0	0.9	0.4	16.6	18.0	R 12.2	0.1	(s)	117.4	R 257.2	256.8	R 514.0
2006 R 0.5 97.3 0.9 0.4 R 15.7 R 16.9 R 11.1 0.2 (s) 115.6 R 241.6 2	R	R 0.5	97.3	0.9	0.4	R 15.7	R 16.9	R 11.1	0.2	(s)	115.6	R 241.6	250.0	487.6 R 514.0 R 491.6
2005 0.4 109.0 0.9 0.4 16.6 18.0 R12.2 0.1 (s) 117.4 R257.2 2 2006 R0.5 97.3 0.9 0.4 R15.7 R16.9 R11.1 0.2 (s) 115.6 R241.6 2 2007 0.4 103.5 0.8 0.3 17.1 18.2 12.2 0.2 (s) 12.4 257.0 2							18.2	12.2		(s)		257.0	264.1	521.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Missouri

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	486	33	1,101	1,507	827	113	1,366	4,914	0			3,314			
1965 1970	129	41	873	865 433	1,083	133	1,508	4,463	0			4,473			
1970	41 109	88 91	1,085 1,187	433 179	1,577 1,681	153 159	1,654 764	4,901 3,971	0			6,168 7.639			
1980	65	76	1,001	179	881	223	554	2,830	0			12,986			
1985	122	60	1,521	33	617	262	121	2,554	Ŏ			15,205			
1990	227	59	1,026	8	740	239	60	2,073	0			19,335			
1995	183	65	1,190	10	1,031	99	1	2,331	0			22,514			
1996	180	73	1,309	27	1,383	116	6	2,841	0			23,462			
1997 1998	237 148	70 62	1,169 1,160	21 18	1,261 901	145 122	33 34	2,629 2,235	0			23,831 24,925			
1990	199	63	1,160	17	1.209	305	26	2,235	0			24,925			
2000	157	63	1,118	22	1,056	263	31	2,490	0			26,962			
2001	189	65	1,558	23	1,587	332	29	3,530	Õ			27,210			
2002	165	62 62	994	18	1,198	290	30 22	2,530	0			27,946			
2003	167	62	816	21	1,156	286	22	2,301	0			27,987			
2004	174	62	851	31	987	236	16	2,120	0			28,391			
2005 2006	198 R 197	60 57	520 435	30 17	811 R 767	290 57	17 9	1,668 R 1,285	0			29,640 29,800			
2007	161	59	368	9	841	58	6	1,282	ő			31,126			
								Trillion Btu							
1960	11.1	33.8	6.4	8.5	3.3	0.6	8.6	27.5	0.0	0.5	0.0	11.3	84.2	28.0	112.2
1965	3.0	41.8	5.1	4.9	4.3	0.7	9.5	24.5	0.0	0.3	0.0	15.3	84.9	36.4	121.3
1970	0.9	88.3	6.3	2.5	6.0	0.8	10.4	25.9	0.0	0.3	0.0	21.0 26.1	136.4	50.9	187.3
1975 1980	2.3 1.4	91.5 R 77.3	6.9 5.8	1.0 1.0	6.2 3.2	0.8 1.2	4.8 3.5	19.8 14.7	0.0 0.0	0.3 0.5	0.0 0.0	44.3	139.9 138.1	62.7 106.8	202.6 244.9
1985	2.8	R 61.4	8.9	0.2	2.2	1.4	0.8	13.4	0.0	0.5	0.0	51.9	129.9	119.5	249.4
1990	5.0	60.0	6.0	(s)	2.7	1.3	0.4	10.3	0.0	1.5	0.0	66.0	142.8	152.6	295.3
1995	4.1	_ 65.5	6.9	(s) 0.1	3.7	0.5	(s) (s) 0.2	11.2	0.0	1.6	0.0	76.8	159.4	174.4	333.8 354.7
1996	4.1	R 73.6	7.6	0.2	5.0	0.6	(s)	13.4	0.0	1.7	0.0	80.1	172.6	182.0	354.7
1997	5.4	R 70.5	6.8	0.1	4.6	0.8	0.2	12.5	0.0	1.7	0.0	81.3	171.2	184.2	355.4
1998	3.3	R 62.7	6.8	0.1	3.3	0.6 1.6	0.2 0.2	11.0	0.0 0.0	1.5	0.0	85.0	163.4	192.9	356.2
1999 2000	4.5 3.5	63.9 R 63.6	6.0 6.5	0.1 0.1	4.4 3.8	1.6	0.2	12.2 12.0	0.0	1.5 1.6	0.0 0.0	85.8 92.0	167.8 172.5	196.2 209.3	364.0 381.7
2000	3.5 4.3	65.3	9.1	0.1	5.0 5.7	1.4	0.2	16.9	0.0	1.0	0.0	92.0 92.8	172.5	206.9	387.9
2002	3.8	62.2	5.8	0.1	4.3	1.5	0.2	11.9	0.0	1.7	0.0	95.4	175.0	212.6	387.5
2003	3.9	R 62.6	4.8	0.1	4.2	1.5	0.1	10.7	0.0	1.8	0.0	95.5	174.2	210.7	384.9
2004	4.0	R 62.8	5.0	0.2	3.6	1.2	0.1	10.0	0.0	_ 1.7	0.0	96.9	175.2	214.3	389.5 R 398.2
2005	4.6	61.6	3.0	0.2	2.9	1.5	0.1	7.8	0.0	R 1.9	0.0	101.1	177.0	221.2	K 398.2
2006 2007	4.6 3.7	57.9 60.3	2.5 2.1	0.1 0.1	2.8 3.0	0.3 0.3	0.1	5.8 5.6	0.0 0.0	R 1.8 1.9	0.0 0.0	101.7 106.2	171.7 177.7	219.9 229.1	R 391.5 406.8
2007	3.1	00.3	2.1	U. I	3.0	0.3	(s)	0.0	0.0	1.9	0.0	100.2	177.7	229.1	400.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Missouri

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	2,605	79	5,722	437	3,074	1,630	6,556	17,419	0			3,890			
1965 1970	2,534 1,921	114 110	5,097 5,689	423 1,175	3,224 2,767	1,710 1,620	9,284 11,681	19,739 22,932	0			5,872 9,939			
1970	2,065	90	5,765	1,175	2,707	1,020	10,753	22,932	0			11,782			
1980	1,595	78	4,782	3,182	1,866	703	16,042	26,575	0			11,018			
1985	1,798	66	4,146	1,333	1,076	557	12,587	19,699	Ö			12,625			
1990	1,321	55	3,494	1,823	663	519	14,511	21,011	0			12,937			
1995	1,102	69	3,018	4,102	1,676	319	10,498	19,614	0			14,321			
1996	1,118	71	3,181	3,644	1,677	309	9,711	18,523	0						
1997	1,401	71	3,550	2,733	1,688	180	8,060	16,211	0			15,267			
1998 1999	1,218 1,203	64 64	3,785 4,869	2,108 4,555	1,033 915	182 109	9,438 11,349	16,546 21,798	0			15,801 16,122			
2000	941	68	3,641	3,712	902	72	9,156	17,484	0						
2001	1,015	68	4,128	2,053	1,745	108	11,846	19,881	0			15,815			
2002	994	67	4,627	4,658	1,848	71	11,144	22,348	Ö			15,341			
2003	1,001	62	4,753	4,538	1,944	84	10.933	22.251	0			14,831			
2004	1,063	64	5,774	5,545	2,254	126	14,083	27,781	0						
2005	1,052	₂ 66	5,293	5,277	2,144	79	13,359	26,153 R 25,052	0			16,869			
2006 2007	1,065 1,083	R 66 68	5,187 5,804	R 3,645 4,810	2,247 1,214	51 29	13,922 11,788	25,052	0			18,316			
2007	1,063	00	5,604	4,610	1,214	29	•		0			18,515			
							Tr	Ilion Btu							
1960	62.2	81.7	33.3	1.8		10.2	41.3	102.8	0.0	7.3	0.0		267.2	32.8	300.1
1965	59.9	116.4	29.7	1.7	16.9	10.8	56.9	116.0	0.0	8.7	0.0		321.1	47.8	368.9
1970	43.8	110.4	33.1	4.4	14.5	10.2	71.5	133.8	0.0	9.9	0.0		331.8	82.1	413.8
1975 1980	45.7 36.0	90.7 79.3	33.6 27.9	6.4 11.7	14.2 9.8	7.8 4.4	66.6 93.8	128.5 147.6	0.0 0.0	12.7 6.4	0.0 0.0		317.9 306.9	96.7 90.6	414.5 397.5
1985	41.2	R 66.8	24.2	4.8	9.0 5.7	3.5	74.2	112.3	0.0	7.5	0.0		270.8	99.2	397.5 370.0
1990	30.4	55.1	20.4	6.6	3.5	3.3	85.5	119.2	0.0	3.1	0.0		252.0	102.1	354.1
1995	25.5	_ 69.4	17.6	14.9	8.7	2.0	64.7	107.8	0.0	2.7	0.0		254.3	111.0	365.3
1996	25.9	R 72.0	18.5	13.2	8.7	1.9	60.5	102.9	0.0	2.8	0.0	50.9	254.3	115.7	370.0
1997	32.0	R 71.6	20.7	9.9		1.1	49.8	90.3	0.0	2.6	0.0		248.3	118.0	366.3
1998	27.9	65.0	22.0	7.6	5.4	1.1	57.8	94.0	0.0	2.5	0.0		243.3	122.3	365.6
1999	27.6	65.2	28.4	16.5	4.8	0.7	69.8	120.0	0.0	2.6	0.0		270.4	125.8	396.3
2000	21.8	R 69.5	21.2	13.4	4.7	0.5	56.3	96.0	0.0	2.2	0.0		244.2	124.8	368.9
2001 2002	23.3 23.0	68.3 67.3	24.0 27.0	7.4 16.8	9.1 9.6	0.7 0.4	73.5 68.8	114.8 122.6	0.0	6.8 5.3	0.0 0.0		267.1 270.6	120.2 116.7	387.3 387.3
2002	23.0	R 62.6	27.7	16.5	10.1	0.4	67.6	122.6	0.0	5.3	0.0		263.8	110.7	375.4
2003	24.4	R 65.5	33.6	20.1	11.8	0.8	87.4	153.6	0.0	5.6	0.0		297.7	108.0	405.7
2005	24.0	67.7	30.8	10.1	11.0	0.5	82.9	1/// 5	0.0	5.7	0.0	57.6	200 /	125.9	425.3
2006	24.2	R 67.0	30.2	R 13.1	11.7	0.3	86.0	R 141.4	0.0	R 5.9	0.0	62.5	R 301.0	135.1	R 436.1
2007	24.3	69.0	33.8	17.3	6.3	0.2	72.4	130.1	0.0	6.1	0.0		292.6	136.3	428.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Missouri

						Pe	troleum					D (!)			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	45	8	1,844	4,485	1,249	43	669	37,620	34	45,943	0	2			
1965	8	9	2,323	6,685	3,625	47	701	41,658	154	55,191	0	0			
1970 1975	3 (s)	13 7	179 184	7,990 8,721	8,074 8,311	85 74	735 793	53,122 59,476	163 141	70,349 77,698	0	0			
1980	(5)	6	162	10,824	6,268	68	932	56,877	142	75,272	0	0			
1985	0	4	135	13,271	5,889	138	848	58,698	38	79,017	34	Ö			
1990	0	5	126	16,049	6,647	117	955	63,092	34	87,019	623	0			
1995	0	7	109	19,195	11,425 12,133	112 98	911	67,155	21	98,928	561	16			
1996 1997	0	7	108 160	22,090 23,455	12,133 R 12,225	98 57	884 934	68,154 68,748	18 15	103,484 R 105,604	295 163	19 18			
1998	0	6	136	30,232	R 12,325 R 12,758	20	977	70,520	4	R 105,694 R 114,648	186	19			
1999	Ő	7	75	29,324	12,760	59	988	69,969	5	113,179	399	20			
2000	0	8	98	23,159	4,906	66	973	72,687	6	101.894	685	19			
2001	0	2	146	23,509	7,493	263	891	70,433	4	102,738	614	20			
2002	0	3	119	23,249	9,535	78	881	71,599	10	105,471	1,476	29			
2003 2004	0 0	3 3	104 124	25,134 26,985	8,048 3,999	116 111	814 825	74,523 74,551	13 18	108,752 106,612	2,098 _ 2,230	30 10			
2004	0	3	188	26,907	6,599	113	821	74,563	14	109,206	R 2.751	19			
2006	Ö	2	128	27,563	6,574	161	800	74,780	9	110,014	R 2,751 R 2,749	19			
2007	0	3	126	27,909	6,339	159	826	76,546	3	111,907	3,856	20			
								Trillion Btu							
1960	1.1	8.2	9.3	26.1	7.0	0.2	4.1	197.6	0.2	244.5	0.0	(s)	253.8	(s)	253.8
1965	0.2	9.1	11.7	38.9	20.4	0.2	4.3	218.8	1.0	295.3	0.0	0.0	304.6	0.0	304.6
1970 1975	0.1 (s)	12.8 7.6	0.9 0.9	46.5 50.8	45.7 47.0	0.3 0.3	4.5 4.8	279.0 312.4	1.0 0.9	378.0 417.2	0.0 0.0	0.0 0.0	390.9 424.7	0.0 0.0	390.9 424.7
1980	0.0	5.7	0.9	63.0	35.5	0.3	5.7	298.8	0.9	404.9	0.0	0.0	410.6	0.0	410.6
1985	0.0	4.3	0.7	77.3	33.3	0.5	5.1	308.3	0.2	425.5	0.1	0.0	430.0	0.0	430.0
1990	0.0	5.4	0.6	93.5	37.6	0.4	5.8	331.4	0.2	469.6	2.2	0.0	477.2	0.0	477.2
1995	0.0	7.2	0.5	111.8	64.8	0.4	5.5	350.2	0.1	533.4	2.0	0.1	540.7	0.1	540.8
1996	0.0	7.6	0.5	128.7	68.8	0.4	5.4	355.5	0.1	559.3 R 571.7	1.0	0.1	567.0	0.1	567.1
1997 1998	0.0 0.0	7.6 5.6	0.8 0.7	136.6 176.1	69.9 72.3	0.2 0.1	5.7 5.9	358.4 367.6	0.1 (s)	R 622.7	0.6	0.1 0.1	579.3 R 628.4	0.1 0.2	579.4 628.5
1998	0.0	6.9	0.7	170.8	72.3 72.3	0.1	5.9 6.0	364.6	(S) (S)	614.4	0.7 1.4	0.1	621.4	0.2	621.5
2000	0.0	7.8	0.5	134.9	27.8	0.2	5.9	378.7	(s)	548.1	2.4	0.1	555.9	0.1	556.1
2001	0.0	2.0	0.7	136.9	42.5	0.9	5.4	367.0	(s)	553.5	2.2	0.1	555.6	0.2	555.8
2002	0.0	2.7	0.6	135.4	54.1	0.3	5.3	372.9	(s) 0.1	568.7	5.2	0.1	571.4	0.2	571.7
2003	0.0	3.2	0.5	146.4	45.6	0.4	4.9	388.0	0.1	586.0	7.4	0.1	589.3	0.2	589.6
2004	0.0	3.5	0.6	157.2	22.7	0.4	5.0	388.8	0.1	574.8	7.9 R 9.7	(s)	578.3	0.1	578.3
2005 2006	0.0 0.0	2.7 2.5	0.9 0.6	156.7 160.6	37.4 37.3	0.4 0.6	5.0 4.8	389.1 390.2	0.1 0.1	589.6 594.2	R 9.7	0.1 0.1	592.4 596.8	0.1 0.1	592.5 596.9
2007	0.0	2.8	0.6	162.6	35.9	0.6	5.0	399.5	(s)	604.2	13.6	0.1	607.1	0.1	607.3
2007	0.0	2.8	0.6	162.6	ან.9 	0.6	5.0	399.5	(S)	604.2	13.6	U.1	607.1	U.1	60

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Missouri

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kil	owatthours		Total ^{f,i}
1960	3,674	30	150	178	0	328	0	726		0	0	0	0	
1965	5,690	48	77	92	0	168	0	802		0	0	0	0	
1970	10,846	63	133	159	0	291	0	927		0	0	0	0	
1975 1980	17,734 23,168	26 15	375 29	710 538	15 101	1,100 668	0	1,280 558		0	0	0	0	
1985	23,100	10	16	202	101	219	8,030	2,993		0	0	0	0	
1990	24,231	1	8	202	0	215	7,998	2,192		0	0	0	0	
1995	30,440	13	13	283	1,114	1,410	8,242	1,919		0	0	Ő	(s)	
1996	33,059	5	28	228	0	256	8,890	1,314		0	0	Ō	Ó	
1997	35.193	7	25	275	0	300	8,955	1,593		0	0	0	1	
1998	37,165	16	13	701	0	714	8,517	2,347		0	0	0	(s) 3	
1999	36,546	19	(s)	703	0	703	8,587	1,853		0	0	0		
2000 2001	37,183 38,585	30	(s)	592 313	0 919	592 1,233	9,992 8,384	600 1,104		0	0	0	0	
2001	38,585	33 30	(s)	220	766	987	8,384 8,390	1,104		0	0	0	0	
2002	43,835	22	0	240	89	330	9,700	652		0	0	0	(s)	
2003	44,379	22 25	0	154	221	375	7,831	1,480		0	0	0	-6	
2005	45,765	32	Õ	242	113	355	8,031	1.159		Ŏ	Õ	Ö	10	
2006	45,603	32	0	138	0	138	10.117	1,159 199		0	0	0	3	
2007	44,094	41	0	139	0	139	9,372	1,204		0	0	0	1	
							Trillion E	Btu						
1960	80.5	31.3	0.9	1.0	0.0	2.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	121.6
1965	122.6	48.5	0.5	0.5	0.0	1.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	180.5
1970 1975	233.4 381.2	63.4	0.8	0.9	0.0	1.8	0.0	9.7	0.0	0.0	0.0	0.0	0.0	308.3
1975 1980	381.2 493.6	25.7 15.0	2.4 0.2	4.1 3.1	0.1 0.6	6.6 3.9	0.0 0.0	13.3 5.8	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	426.8 518.3
1985	484.9	1.5	0.2	1.2	0.0	1.3	85.3	31.3	0.0	0.0	0.0	0.0	0.0	604.2
1990	503.0	3.6		1.2	(s) 0.0	1.3	84.6	22.8	0.0	0.0	0.0	0.0	0.0	615.3
1995	563.4	12.9	(s) 0.1	1.7	6.7	8.4	86.6	19.8	0.3	0.0	0.0	0.0	(s)	691.4
1996	600.6	5.3	0.2	1.3	0.0	1.5	93.4	13.6	0.3	0.0	0.0	0.0	0.0	714.6
1997	632.6	7.6	0.2	1.6	0.0	1.8	94.0	16.3	0.4	0.0	0.0	0.0	(s)	752.5
1998	664.1	16.3	0.1	4.1	0.0	4.2	89.3	23.9	0.8	0.0	0.0	0.0	(s)	798.7
1999	654.5	19.7	(s)	4.1	0.0	4.1	89.7	18.9	0.5	0.0	0.0	0.0	(s)	787.5
2000	663.3	R 30.9	(s) (s) (s) 0.0	3.4	0.0	3.4	104.2	6.1	0.7	0.0	0.0	0.0	0.0	808.6
2001	688.2	R 36.1	(s)	1.8 1.3	5.5	7.4	87.6	11.4	R (s)	0.0	0.0	0.0	0.0	830.6
2002 2003	698.3 768.1	30.2 R 22.1	(S)	1.3 1.4	4.6 0.5	5.9 1.9	87.6 101.1	13.8 6.7	(s)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 (s)	835.8
2003	778.5	R 25.1	0.0	0.9	1.3	2.2	81.7	14.8	(5)	0.0	0.0	0.0	(S) (S)	899.8 R 902.3
2004	806.7	32.5	0.0	1.4	0.7	2.1	83.8	11.6	(s) 0.0	0.0	0.0	0.0	(5)	936.7
2006	799.8	33.3	0.0	0.8	0.0	0.8	105.6	2.0	0.1	0.0	0.0	0.0	(s)	941.6
2007	774.0	42.0	0.0	0.8	0.0	0.8	98.3	2.0 11.9	0.2	0.0	0.0	0.0	(s)	927.2

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Montana

						Petroleum				Martan	II. da	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	253	56	4,898	265	737	6,922	2,063	4,234	19,118	0	5,801					
1965	370	71	4,962	384	926	7,709	1,241	4,587	19,809	0	8,389					
1970 1975	763 1,149	88 80	4,827 7,586	649 818	1,326 1,370	9,262 10,630	1,268 2,178	5,338 5,105	22,670 27,687	0	8,745 10,166					
1980	3,520	61	7,509	920	1,806	10,416	4,025	4,585	29,262	0	9,966					
1985	5,713	47	10,444	678	1,576	10,188	133	4,301	27,320	0	10,175					
1990	9,850	43	7,280	708	1,740	10,328	218	5,518	25,792	0	10,717					
1995 1996	10,272 8,210	58	8,049 8,070	1,052 999	918	11,328 11,753	236 181	6,425 7,412	28,008 30,032	0	10,746 13,795					
1996	9,653	61 60	9,037	R 793	1,618 277	11,753	162	7,412 6,782	R 28,530	0	13,795					
1998	11,046	60	7,863	R 798	271	11,596	106	7,697	28,331	ő	11,118					
1999	11,074	62 68 65	7,921	836	527	11,768	20	9,540	30,614	0	13,822					
2000	10,554	68	8,069	747	1,324	11,559	1	8,009	29,709	0	9,623					
2001 2002	11,000 9,841	70	8,476 8,145	756 768	1,400 1,502	11,640 11,871	2 39	6,213 6,953	28,488 29,278	0	6,613 9,567					
2002	11,127	68	7,721	832	2,151	11,846	6	6,009	28,566	0	8,702					
2004	11,522	67	9,988	1,008	2,384	11,991	42	6,774	32,187	0	8,856					
2005	11,822	68	11,465	1,112	2,455	11,770	106	6,617	33,527	0	9,587					
2006 2007	11,531 12.041	74 74	12,232 13,880	1,045 1,026	R 2,409 2,993	11,960 12,079	125 0	7,740 8,261	R 35,511 38,239	0	10,130 9,364					
	12,041	74	10,000	1,020	2,330	12,075			30,233		3,304					
								Trillion Btu								
1960	4.0	57.6	28.5	1.4	3.0 3.7	36.4	13.0	24.9	107.1	0.0	62.4	7.5	0.0	-11.1	(s) (s)	227.6
1965 1970	5.5 12.0	70.8 90.6	28.9 28.1	2.1	3.7 5.0	40.5 48.7	7.8	27.8 32.8	110.8 126.1	0.0 0.0	87.7 91.8	7.8 6.6	0.0 0.0	-23.7 -4.4	(S)	259.0 322.8
1975	18.6	81.2	44.2	3.6 4.6	5.0	55.8	8.0 13.7	32.0 31.2	154.6	0.0	105.8	6.2	0.0	-4.4	(s) (s)	345.5
1980	60.2	61.5	43.7	5.2	6.6	54.7	25.3	28.1	163.6	0.0	103.5	11.1	0.0	-39.5	(s)	360.5
1985	99.1	47.3	60.8	3.8	5.7	53.5	0.8	27.0	151.7	0.0	106.3	14.4	(s) 0.1	-48.4	0.3	370.6
1990	168.8	44.4	42.4	4.0	6.3	54.3	1.4	34.0	142.3	0.0	111.5	11.7		-128.7	0.2	350.3
1995 1996	175.3 138.8	59.6 63.3	46.9 47.0	5.9 5.7	3.3 5.8	59.1 61.3	1.5 1.1	39.5 45.6	156.1 166.5	0.0 0.0	110.8 142.6	16.4 15.7	0.1 0.1	-133.0 -132.3	(s) 0.1	385.3 394.8
1997	162.6	61.7	52.6	4.5	1.0	59.8	1.0	41.6	160.6	0.0	136.9	16.2	0.1	-171.0		367.1
1998	186.1	61.4	45.8	4.5	1.0	60.4	0.7	47.3	159.7	0.0	113.4	14.7	0.1	-147.0	(s) 0.1	388.5
1999	186.8	63.6	46.1	4.7	1.9	61.3	0.1	59.0	173.2	0.0	141.3	15.4	0.3	-184.5	-0.1	396.0
2000 2001	176.8 184.4	69.6 66.5	47.0 49.4	4.2	4.8	60.2 60.6	(s) (s)	49.5 37.8	165.8 157.2	0.0 0.0	98.2 68.3	15.3 11.9	0.3 0.3	-117.9 -132.8	(s) (s)	407.9 355.8
2001	166.3	68.9	49.4 47.4	4.3 4.4	5.1 5.4	61.8	(S) 0.2	37.8 42.4	161.7	0.0	97.3	11.9	0.3	-132.8	(S) 0.2	376.9
2002	189.0	67.7	45.0	4.7	7.8	61.7	(s)	36.2	155.5	0.0	89.1	12.0	0.3	-144.0	(s)	369.6
2004	195.6	66.7	58.2	5.7	8.6	62.5	0.3	41.3	176.6	0.0	88.8	12.5	0.3	-147.3	(s) -0.1	393.0
2005	199.5	71.1	66.8	6.3	8.9	61.4	0.7	40.2	184.2	0.0	95.9	R 13.4	0.3	-152.8	(s) -0.7	R 411.6
2006 2007	194.3 202.5	75.1 75.0	71.2 80.8	5.9 5.8	R 8.7 10.7	62.4 63.0	0.8 0.0	47.4 50.2	R 196.4 210.6	0.0 0.0	100.5 92.6	R 13.4 15.9	4.6 5.2	-153.9 -139.4	-0.7 -0.2	R 429.8 462.1
2001	202.0	73.0	00.0	J.0	10.7	03.0	0.0	50.2	210.0	0.0	34.0	10.8	J.Z	-100.4	-0.2	402.1

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Montana

				Petro	leum		Biomass			D . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960 1965	18 13	17 20	262 277	0	506 636	768 914	237 182			935 1,216			
1970	7	20 25	249	0	887	1.137	139			1,534			
1970 1975	3	24	589	0	973	1.562	153			2,143			
1980 1985	3	19 19	421	0	829	1,250 923	125			2,916			
1985	2	19	309	9	604	923	195			3,614			
1990 1995	11	17 20	291 218	1	813 473	1,106 691	89 86			3,358 3,640			
1995	1	20	325	1	519	845	90			3,911			
1996 1997	9	22 21	685	2	152	838	90 95			3,804			
1998 1999	(s)	19 20	404 225	3	86	492 569	84			3,722			
1999	(s)	20	225	. 1	342	569	89			3,664			
2000	(s)	20 20	170	(s)	922 940	1,092	95 52			3,908			
2001 2002	(s) (s)	20	170 122	1	940	1,110	52			3,886 4,031			
2002	(s)	22 20	190	4	963 1,637	1,086 1,831	53 56			4,120			
2004	11	20	187	1	1,865	2.052	57			4,053			
2005	12	20	169	1	1.824	1,994	57 R 110 R 101			4,221			
2006	12 R 13	19	196	1	R 1,759	1,994 R 1,956	^R 101			4,394			
2007	(s)	20	197	1	1,960	2,157	111			4,542			
						Т	rillion Btu						
1960	0.4	17.5	1.5	0.0	2.0	3.6	4.7	0.0	0.0	3.2	29.4	7.9	37.3
1960 1965 1970	0.4 0.3	19.9	1.6 1.5	0.0 0.0	2.0 2.6	3.6 4.2 4.8	3.6	0.0 0.0	0.0	3.2 4.1	32.2	7.9 9.9	42.1
1970	0.1	25.6	1.5	0.0	3.4 3.6	4.8	2.8	0.0	0.0	5.2	38.6	12.7	51.2
1975	0.1	24.6	3.4 2.5 1.8	0.0	3.6	7.0	3.1	0.0	0.0	7.3	42.0	17.6	59.6
1980 1985	0.1	19.5	2.5	0.0	3.0	5.5	2.5	0.0	0.0	9.9	37.5	24.0	61.5 68.0
1985	(s) 0.2	19.4 17.3	1.8	0.1	2.2 2.9	4.0 4.7	3.9 1.8	0.0 (s)	0.0	12.3 11.5	39.6 35.5	28.4 26.5	61.9
1990	(e)	20.2	1.7	(s) (s)	1.7	3.0	1.7	(s)	(s) (s) (s)	12.4	37.4	28.2	65.6
1995 1996	(s)	20.2 22.8	1.3 1.9	(s)	1.9	3.8	1.8	(s)	(5)	13.3	41.8	30.3	65.6 72.1
1997	(s) (s) 0.2	21.7	4.0	(s)	0.5	4.5	1.9	(s)	(s)	13.0	41.3	29.4	70.7
1998	(s)	19.7	2.4	(s)	0.3	4.5 2.7	1.7	(s)	(s)	12.7	36.8	28.8	65.6
1999	(s)	20.1	1.3	(s)	1.2	2.6	1.8	(s) 0.1	(s)	12.5	37.1	28.6	65.6
2000	(s)	20.6	1.0	(s)	3.3	4.3	1.9	0.1	(s)	13.3	40.2	30.3	70.6
2001	(s)	20.6	1.0	(s)	3.4	4.4	1.0	0.1	(s)	13.3	39.4	29.5	68.9
2002 2003	(s)	21.5 20.2	0.7 1.1	(s)	3.5 5.9	4.2 7.1	1.1 1.1	0.1 0.1	(s)	13.8 14.1	40.6 42.5	30.7 31.0	71.3 73.5
2003	(s) 0.2	20.2 19.9	1.1	(s) (s)	5.9 6.7	7.1 7.8	1 1	0.1	(s) (s)	13.8	42.5 _ 42.9	30.6	73.5
2004	0.2	20.6	1.0	(S)	6.6	7.6	R 2.2	0.1	(s)	14.4	R 45 1	31.5	73.5 R 76.6 R 77.0
2006	0.2	19.8	1.1	(s)	R 6.3	R 7.5	R 2.0	0.1	(s)	15.0	R 44.6	32.4	R 77.0
2007	(s)	19.8 20.0	1.1	(s)	7.0	8.2	R 2.2 R 2.0 2.2	0.1	(s)	15.0 15.5	46.0	33.4	79.4
	. ,			. ,					. ,				

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Montana

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total ^{f,h}
1960	12	12	297	466	89	135	2	989	0			688			
1965	10	14	315	227	112	144	1	800	Ö			925			
1970	5	19	283	94	157	220	1	755	0			1,187			
1975	7	19	668	54	172	174	2 7	1,071	0			1,645			
1980 1985	11 6	14 15	346 772	0 (s)	146 107	92 72	126	591 1,077	0			2,094 4,245			
1990	46	12	154	(S)	143	72 84	120	392	0			3,237			
1995	9	13	102	(s)	83	13	3	202	0			3,411			
1996	4	15	229	(s)	92 27	19	2	343	0			3,603			
1997	74	14	162	(s)	27	12	1	201	0			3,577			
1998	4	13	114	(s)	15	14	1	144	0			3,649			
1999 2000	3	12 14	142 143	(s) (s)	60 163	14 14	2	219 320	0			3,359 4.104			
2000	3	13	143 197	(S)	166	14	0	320 377	0			4,104 4,190			
2002	3	15	137	1	170	15	0	323	0			4,338			
2003	2	15 15	167	2	289	15 15	ĭ	474	Ő			4,438			
2004	97	13	294	3	329	15	0	641	0			4,330			
2005	133	13	163	7	322	15	0	508	0			4,473			
2006 2007	R 127	13 13	215 175	(s)	R 310 346	16 15	0 0	R 541 536	0			4,686 4,828			
2007		13	175	(s)	340	10	0		0			4,020			
								Trillion Btu							
1960	0.3	12.3	1.7	2.6	0.4	0.7	(s)	5.5	0.0	0.1	0.0	2.3	20.5	5.8	26.3
1965	0.2	14.1	1.8	1.3	0.5	0.8	(s) (s)	4.3	0.0	0.1	0.0	3.2	21.9	7.5	29.4
1970	0.1	19.2	1.6	0.5	0.6	1.2	(s)	3.9	0.0	0.1	0.0	4.1	27.3	9.8	37.1
1975 1980	0.2 0.2	19.0 14.4	3.9 2.0	0.3 0.0	0.6 0.5	0.9 0.5	(s) (s)	5.8 3.1	0.0 0.0	0.1 0.1	0.0 0.0	5.6 7.1	30.6 24.9	13.5 17.2	44.1 42.1
1985	0.2	14.8	4.5	(s)	0.5	0.3	0.8	6.1	0.0	0.1	0.0	14.5	35.5	33.4	68.9
1990	0.9	12.5	0.9	(s)	0.5	0.4	0.0	1.9	0.0	0.2	0.0	11.0	26.6	25.5	52.1
1995	0.2	13.9	0.6	(s)	0.3 0.3	0.1		1.0	0.0	0.2	0.1	11.6	27.0	26.4	53.4
1996	0.1	13.9 15.3	1.3	(s)		0.1	(s) (s)	1.0 1.8	0.0	0.2	0.1	12.3	29.7	28.0	57.7
1997	1.3	14.3	0.9	(s)	0.1	0.1	(s)	1.1	0.0	0.3	0.1	12.2	29.3	27.7	57.0
1998	0.1	13.3	0.7	(s)	0.1	0.1	(s) (s)	0.8	0.0	0.3	0.1	12.4	27.0	28.2	55.2
1999 2000	(s) (s)	12.4	0.8 0.8	(s)	0.2 0.6	0.1 0.1	(S)	1.1	0.0	0.3 0.3	0.1 0.2	11.5 14.0	25.5 29.9	26.2 31.9	51.7 61.7
2000	(S) (S)	13.9 13.5	0.6 1.1	(S)	0.6	0.1	(s) 0.0	1.5 1.8	0.0 0.0	0.3	0.2	14.0	30.0	31.9	61.9
2001	(s)	14.6	0.8	(s)	0.6	0.1	0.0	1.5	0.0	0.2	0.2	14.8	31.3	33.0	64.2
2003	(s) (s)	15.0	1.0	(s)	1.0	0.1	(s)	2.1	0.0	0.2	0.2	15.1	32.6	33.4	66.0
2004	1.8	13.4	1.7	(s)	1.2	0.1	0.0	3.0	0.0	0.2	0.2	14.8	33.3	32.7	66.0
2005	2.4	13.7	0.9	(s)	1.2	0.1	0.0	2.2	0.0	R 0.4	0.2	15.3	R 34.1	33.4	R 67.5
2006	2.3	13.4	1.3	(s)	1.1 1.2	0.1	0.0	2.5 2.3	0.0	R 0.3 0.3	0.2	16.0	R 34.6	34.6 35.5	R 69.2 68.3
2007	(s)	13.4	1.0	(s)	1.2	0.1	0.0	2.3	0.0	0.3	0.1	16.5	32.8	30.0	00.3

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Montana

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses ⁱ	Total f,h
1960	36	26	1,500	112	816		2,624	6,737	0			2,951			
1965 1970	52 28	34 41	1,693 1,274	164 246	887 635	914 1.123	3,901 5,047	7,559 8,324	0			3,939 6,029			
1975	50	34	2,494	174	774	1,123	4,810	10,215	0			5,160			
1980	154	20	1,925	786	619	4,018	4,229	11,577	ő			5,815			
1985	225	10	5.192	814	677	7	4,022	10,712	0			5,841			
1990	220	12	2,778	717	615	207	5,205	9,522	0			6,529			
1995	622	20	2,283	333	646		4,933	8,428	0			6,368			
1996	130	21	2,569	991	663	178	6,000	10,401	0						
1997 1998	105 145	21	2,422	90 108	686 437	161	5,357	8,716	0			4,537			
1998	145	23 24	1,955 1,982	108	437	106 18	6,211 7,883	8,817 10,416	0			6,774 6,258			
2000	166	26	1,904	227	406	0	6,315	8,852	0						
2001	159	24	1,907	275	546	2	4,487	7,217	ő			3,370			
2002	92	25	1,842	358	566	39	5,406	8,211	Ō			4,463			
2003	93 92	24	2,433	213	585	6	4,543	7,781	0			4,267			
2004	92	25	3,237	164	681	42	5,220	9,344	0						
2005	89	27	3,519	_ 287	638	106	5,130	9,681 R 10,989	0			4,784			
2006 2007	89 110	33 32	3,673 4,474	R 322 676	694 501	95 0	6,205 6,773	12,424	0			4,735 6,163			
2007	110	32	4,474	676	501	0	•					0,103			
							Tr	Ilion Btu							
1960	0.8	27.0	8.7	0.5		10.6	16.3	40.4	0.0	2.7	0.0		80.9	24.9	105.8
1965	1.2	34.3	9.9	0.7	4.7	5.7	24.1	45.0	0.0	3.7	0.0		97.6	32.1	129.7
1970 1975	0.6 1.0	42.5 34.6	7.4 14.5	0.9 0.6	3.3 4.1	7.1 12.3	31.1 29.5	49.8 61.1	0.0 0.0	3.0 3.0	0.0 0.0		116.5 117.3	49.8 42.3	166.3 159.6
1975	2.9	20.3	11.2	2.9			26.1	68.7	0.0	8.3	0.0		120.1	42.3 47.8	167.9
1985	4.1	10.3	30.2	2.9	3.6	(s)	25.4	62.2	0.0	9.8	0.0		106.3	45.9	152.2
1990	4.0	12.0	16.2	2.6		(s) 1.3	32.3	55.6	0.0	8.9	(s)	22.3	102.8	51.5	154.3
1995	11.2	21.0	13.3	1.2	3.4	1.5	30.5	49.9	0.0	14.4	(s)	21.7	118.3	49.3	167.7
1996	2.4	21.1	15.0	3.6		1.1	37.2	60.3	0.0	13.7	(s)	21.5	119.0	48.9	167.9
1997	1.9	21.7	14.1	0.3	3.6		33.1	52.1	0.0	14.0	(s)	15.5	105.2	35.1	140.3
1998	2.6	24.0	11.4	0.4	2.3	0.7	38.4	53.2	0.0	12.7	(s) 0.1	23.1	115.7	52.4	168.1
1999	3.0	24.6	11.5	0.4	2.2		49.1	63.4	0.0	13.3		21.4	125.8	48.8	174.6
2000 2001	2.7 2.6	27.1 24.5	11.1 11.1	0.8 1.0		0.0	39.4	53.5	0.0 0.0	13.1 10.7	0.1 0.1	22.4 11.5	118.7 91.8	51.0	169.7 117.4
2001	2.6	24.5 25.0	10.7	1.0	2.8	(s) 0.2	27.5 33.2	42.5 48.4	0.0	9.7	0.1	15.2	91.8	25.6 33.9	133.7
2002	1.4	24.0	14.2	0.8	3.0		27.5	45.5	0.0	10.6	(s)	14.6	96.1	32.1	128.3
2003	1.4	25.0	18.9	0.6		(s) 0.3	32.0	55.2	0.0	11.2	0.1	15.6	108.4	34.5	142.9
2005	1.3	28.3	20.5	1.0	3 3	0.7	31.3	56.8	0.0	10.8	0.1	16.3	113.6	35.7	_ 149.3
2006	1.3 1.6	33.7	21.4	R 1.2	3.6	0.6	38.2	56.8 R 65.0	0.0	11.1	0.1	16.2	R 127.3	34.9	R 162.2
2007	1.6	32.6	26.1	2.4	2.6	0.0	41.3	72.4	0.0	13.3	0.1	21.0	141.0	45.4	186.4

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Montana

						Pe	troleum					D-4-9			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	1	(s)	1,006	2,839	265	29	137	5,972	377	10,624	0	0			
1965	(s)	(s)	312	2,676	384	13	148	6,678	325	10,536	Ö	Ö			
1970	(s)	1	43	3,020	649	36	154	8,407	119	12,428	0	0			
1975 1980	(s) 0	2	79 159	3,835	818	50 45	162 196	9,682 9,705	160	14,786 15,786	0	0			
1985	0	2	91	4,759 4,132	920 678	45 51	179	9,705	0 (s)	14,569	0 14	0			
1990	0	2	111	3,993	708	67	201	9,630	0	14,709	3	0			
1995	Ō	4	78	5.390	1.052	28	192	10.669	0	17.409	16	0			
1996	0	3	99	4,886	999	16	186	11,070	0	17,256	0	0			
1997	0	3	71	5,718	R 793 R 798	8	197	10,782	0	R 17,569 R 17,664	0	0			
1998 1999	0	4 6	102 121	5,350 5,536	836	62 12	206 208	11,145 11,334	0	18,047	10 11	0			
2000	0	8	134	5,812	747	11	205	11,139	0	18,047	13	0			
2001	ŏ	8	109	6,200	756	20	188	11,079	ŏ	18.353	34	ŏ			
2002	0	8	115	6,018	768	11	185	11,290	0	18 388	34	0			
2003	0	8	101	4,903	832	12	171	11,246	0	^R 17,265	29	0			
2004 2005	0	8 8	42 47	6,237 7,597	1,008	26	174 173	11,295	0	18,782 20,069	36 R 246	0			
2005	0	8	47 87	8,122	1,112 1,045	22 18	173	11,117 11,251	0 30	20,069	R 293	0			
2007	0	8	70	9,013	1,026	12	174	11,563	0	21,858	503	0			
								Trillion Btu							
1960	(s)	0.5	5.1	16.5	1.4	0.1	0.8	31.4	2.4	57.7	0.0	0.0	58.2	0.0	58.2
1965	(s)	0.4	1.6	15.6	2.1	0.1	0.9	35.1	2.0	57.3	0.0	0.0	57.8	0.0	57.8
1970	(s)	0.7	0.2	17.6	3.6	0.1	0.9	44.2	0.7	67.4	0.0	0.0	68.1	0.0	68.1
1975 1980	(s) 0.0	1.8	0.4 0.8	22.3 27.7	4.6 5.2	0.2 0.2	1.0 1.2	50.9 51.0	1.0 0.0	80.4 86.0	0.0 0.0	0.0 0.0	82.1 88.9	0.0 0.0	82.1 88.9
1985	0.0	2.9 2.2	0.8	24.1	3.8	0.2	1.2	49.6	(s)	79.2	(s)	0.0	81.5	0.0	81.5
1990	0.0	2.1	0.6	23.3	4.0	0.2	1.2	50.6	0.0	79.8	(s)	0.0	82.0	0.0	82.0
1995	0.0	4.1	0.4	31.4	5.9	0.1	1.2	55.6	0.0	94.6	(s) 0.1	0.0	98.6	0.0	98.6
1996	0.0	3.5	0.5	28.5	5.7	0.1	1.1	57.7	0.0	93.5	0.0	0.0	97.1	0.0	97.1
1997	0.0	3.6	0.4	33.3	4.5	(s) 0.2	1.2	56.2	0.0	95.6	0.0	0.0	99.2	0.0	99.2
1998	0.0	3.9	0.5	31.2	4.5		1.2	58.1	0.0	95.8	(s) (s)	0.0	99.6	0.0	99.6
1999 2000	0.0 0.0	6.2 7.9	0.6 0.7	32.2 33.9	4.7 4.2	(s)	1.3 1.2	59.1 58.0	0.0 0.0	98.0 98.1	(S)	0.0 0.0	104.1 106.0	0.0 0.0	104.1 106.0
2000 2001	0.0	7.9 7.7	0.7	36.1	4.2	(s) 0.1	1.2	58.0 57.7	0.0	98.1	(s) 0.1	0.0	106.0	0.0	106.0
2001	0.0	7.7	0.6	35.1	4.4	(s)	1.1	58.8	0.0	100.0	0.1	0.0	107.7	0.0	107.7
2003	0.0	8.3	0.5	28.6	4.7	(s)	1.0	58.6	0.0	93.4	0.1	0.0	101.7	0.0	101.7
2004	0.0	8.3	0.2	36.3	5.7	0.1	1.1	58.9	0.0	102.3	0.1	0.0	110.6	0.0	110.6
2005	0.0	8.3	0.2	44.3	6.3	0.1	1.0	58.0	0.0	109.9	R 0.9	0.0	118.2	0.0	118.2
2006	0.0	7.7 7.9	0.4 0.4	47.3	5.9 5.8	0.1	1.0	58.7 60.3	0.2	113.7	R 1.0 1.8	0.0	121.4	0.0	121.4
2007	0.0	7.9	0.4	52.5	5.8	(s)	1.1	60.3	0.0	120.1	1.8	0.0	128.1	0.0	128.1

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Montana

				Petro	leum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Waad	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Kil	owatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	187	(s) 2	(s)	(s)	0	(s)	0	5,801		0	0	0	-1	
1965	296	ĹŹ		(s)	0		0	8,389		0	0	0	-1	
1970	723	3	26	(s)	0	26	0	8,745		0	0	0	-1	
1975	1,089	1	53	1	0	54	0	10,166		0	0	0	-2 -2	
1980 1985	3,352 5,480	4	0	59	0	59	0	9,966 10,175		0	0	0 (s)	-2 70	
1985	5,480 9,573	(s) (s)	0	38 63	0	38 63	0	10,175		0	0	(S)	70 47	
1995	9,641		0	57	1,222	1,278	0	10,746		0	0	0		
1996	8,075	(s) (s) (s)	0	62	1.126	1,187	0	13,795		0	0	0	(s) 38	
1997	9,465	(s)	Ö	50	1,155	1,205	Ŏ	13,406		Ŏ	Ŏ	Ŏ	11	
1998	10.896	ί	0	40	1,175	1,215	0	11,118		0	0	0	23	
1999	10,903	(s)	0	37	1,327	1,363	0	13,822		0	0	0	-17	
2000	10,385	(s)	0	41	1,356	1,397	0	9,623		0	0	0	-3	
2001	10,838	(s)	0	2	1,429	1,431	0	6,613		0	0	0	(s) 52	
2002	9,746	(s)	0	26	1,245	1,270	0	9,567		0	0	0		
2003	11,032	(s)	0	28	1,187	1,215	0	8,702		0	0	0	10	
2004 2005	11,322 11,588	(s)	0	32 18	1,334 1,258	1,366 1,276	0	8,856 9,587		0	0	0	-36 9	
2005	11,302	(s)	0	25	1,258	1,276	0	10,130		0	0	436	-214	
2007	11,929	i	0	21	1,244	1,264	0	9,364		0	0	496	-54	
						·	Trillion B	tu						
1960	2.5	0.4	(s) (s) 0.2	(s)	0.0	(s)	0.0	62.4	0.0	0.0	0.0	0.0	(s)	65.3
1960 1965	3.9	2.0	(s)	(s)	0.0	(s)	0.0	87.7	0.4	0.0	0.0	0.0	(s)	94.0
1970	11.2	2.6	0.2	(s)	0.0	0.2	0.0	91.8	0.8	0.0	0.0	0.0	(s)	106.5
1975	17.4	1.2	0.3	(s)	0.0	0.3	0.0	105.8	0.1	0.0	0.0	0.0	(s)	124.9
1980	57.0	4.4	0.0	0.3	0.0	0.3	0.0	103.5	0.2	0.0	0.0	0.0	(s)	165.4
1985	94.8	0.6	0.0	0.2	0.0	0.2	0.0	106.3	0.6	0.0 0.0	0.0 0.0	(s) 0.0	0.2 0.2	202.8
1990 1995	163.7 163.8	0.5 0.4	0.0 0.0	0.4 0.3	0.0 7.4	0.4 7.7	0.0 0.0	111.5 110.8	0.8 0.0	0.0	0.0	0.0		277.0 282.7
1995	136.3	0.4	0.0	0.3	6.8	7.1	0.0	142.6	0.0	0.0	0.0	0.0	(s) 0.1	286.7
1997	159.2	0.3	0.0	0.4	7.0	7.1	0.0	136.9	0.0	0.0	0.0	0.0		303.8
1998	183.4	0.5	0.0	0.2	7.1	7.3	0.0	113.4	0.0	0.0	0.0	0.0	(s) 0.1	304.7
1999	183.7	0.3	0.0	0.2	8.0	8.2	0.0	141.3	0.0	0.0	0.0	0.0	-0.1	333.5
2000	174.1	0.2	0.0	0.2	8.2	8.4	0.0	98.2	0.0	0.0	0.0	0.0	(s)	280.8
2001	181.7	0.2	0.0	(s)	8.6	8.6	0.0	68.3	0.0	0.0	0.0	0.0	(s)	258.9
2002	164.9	0.1	0.0	0.1	7.5	7.6	0.0	97.3	0.0	0.0	0.0	0.0	(s) 0.2	270.2
2003	187.6	0.2	0.0	0.2	7.1	7.3	0.0	89.1	0.0	0.0	0.0	0.0	(s)	284.3
2004	192.3	0.2	0.0	0.2	8.0	8.2	0.0	88.8	0.0	0.0	0.0	0.0	-0.1	289.3
2005	195.6	0.2	0.0	0.1	7.6	7.7	0.0	95.9	0.0	0.0	0.0	0.0	(s) -0.7	299.3
2006 2007	190.5 200.8	0.5 1.0	0.0 0.0	0.1 0.1	7.7 7.5	7.8 7.6	0.0 0.0	100.5 92.6	0.0 0.0	0.0 0.0	0.0 0.0	4.3 4.9	-0.7 -0.2	303.0 306.7
2007	200.6	1.0	0.0	0.1	7.5	0.1	0.0	92.0	0.0	0.0	0.0	4.9	-0.2	300.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Nebraska

						Petroleum				Martan	Heater	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	888	136	4,151	1,202	2,650	14,998	415	2,314	25,731	0	959					
1965 1970	896 1,283	166 222	3,689 7,449	1,371 1,783	3,407 5,616	15,745 18,525	332 793	2,331 2,499	26,875 36,665	-5 0	1,116 1,371					
1975	1,595	219	8,507	1,679	5,740	20,636	1,092	2,092	39,745	5,916	1,213					
1980	4,990	163	9,149	1,588	4,499	19,100	228	1,512	36,076	5,783	1,336					
1985 1990	6,653 8,266	126 111	12,411 12.848	1,357 1,501	2,590 2,912	17,737 18,451	62 257	1,073 2,227	35,229 38,196	4,134 7,511	1,441 1,140					
1995	10,396	136	14,599	1,001	3,020	19,302	121	1,433	39,475	7,485	1,426					
1996	10,379	133	16,644	1,007	3,831	19,474	167	2,263	43,386	9,457	1,602					
1997 1998	11,210 11,889	132 131	16,848 18,646	1,075 R 1,081	3,130 3,300	19,825 20,305	110 116	1,978 1,918	42,966 R 45,366	9,269 8,259	1,672 1,683					
1999	11,625	121	17,754	1,564	3,665	20,487	77	2,383	45,930	10,091	1,719					
2000	11,910	127	14,937	1,231	3,830	20,457	142	1,441	42,038	8,629	1,501					
2001 2002	13,130 12,605	122 120	14,207 13,936	1,113 1,527	3,615 4,943	20,392 20,846	127 124	1,591 1,528	41,046 42,903	8,726 10,122	1,124 1,097					
2003	13,115	119	14,954	1,205	4,328	20,673	142	2,041	43,344	7,997	980					
2004	13,023	115	16,435	918	4,039	20,840	231	2,021	44,485	10,241	913					
2005 2006	13,283 13,307	119 R 130	16,299 16,534	934 1,060	3,768 3,762	20,148 20,163	145 77	1,936 1,741	43,230 43,338	8,802 9,003	871 893					
2007	12,698	144	17,242	968	3,537	20,336	70	1,590	43,742	11,042	347					
								Trillion Btu								
1960 1965	20.0 20.8	140.4 164.7	24.2 21.5	6.4 7.4	10.6 13.7	78.8 82.7	2.6 2.1	13.8 13.8	136.5 141.1	0.0 -0.1	10.3 11.7	3.1 1.9	0.0 0.0	-2.0 9.1	0.0 0.0	308.3 349.2
1970	29.7	224.1	43.4	9.8	21.2	97.3	5.0	15.4	192.1	0.0	14.4	1.6	0.0	25.5	0.0	487.3
1975	32.9	217.5	49.6	9.2	21.3	108.4	6.9	12.7	208.1	65.2	12.6	2.8	0.0	-13.3	0.0	525.7
1980 1985	93.9 115.5	159.5 R 123.9	53.3 72.3	8.7 7.4	16.5 9.3	100.3 93.2	1.4 0.4	9.3 6.6	189.6 189.2	63.1 43.9	13.9 15.1	5.9 7.4	0.0 0.0	-18.3 6.1	(s) -1.0	507.5 500.0
1990	142.0	R 109.2	74.8	8.3	10.6	96.9	1.6	14.0	206.2	79.5	11.9	4.5	0.0	-30.6	0.2	522.9
1995	179.5	133.7	85.0	5.7	10.9	100.7	0.8	9.1	212.2	78.6	14.7	4.2	0.2	-36.5	(s)	586.5
1996 1997	178.9 193.3	R 133.8 R 132.1	97.0 98.1	5.7 6.1	13.8 11.3	101.6 103.3	1.1 0.7	14.6 12.7	233.8 232.3	99.3 97.3	16.6 17.1	7.8 6.3	0.2 0.3	-51.9 -51.6	-0.3 -0.1	618.1 626.9
1998	204.8	131.1	108.6	6.1	11.9	105.8	0.7	12.7	245.6	86.6	17.1	5.8	0.3	-48.8	-0.1	642.4
1999	198.5	121.4	103.4	8.9	13.3	106.8	0.5	15.4	248.2	105.5	17.6	6.0	0.3	-63.0	-0.1	634.3
2000 2001	206.9 226.7	R 127.6 124.1	87.0 82.8	7.0 6.3	13.8 13.1	106.6 106.2	0.9 0.8	9.2 9.9	224.5 219.1	90.0 91.2	15.3 11.6	5.7 7.6	0.3 0.4	-38.2 -51.8	-0.3 (s)	631.8 628.9
2001	217.9	124.1	81.2	8.7	17.9	108.6	0.8	9.5	226.5	105.7	11.0	8.2	0.4	-51.6 -49.2	(S)	641.1
2003	227.3	118.9	87.1	6.8	15.7	107.6	0.9	12.9	231.1	83.3	10.0	8.6	0.9	-35.8	(s)	644.3
2004	223.6 228.7	R 114.6 R 120.3	95.7	5.2 5.3	14.6	108.7	1.5	12.7 12.2	238.4 232.1	106.8	9.2	8.6 R 9.6	1.0	-52.7	(s)	R 649.4 R 655.0
2005 2006	228.7	R 120.3	94.9 96.3	5.3 6.0	13.6 13.6	105.1 105.2	0.9 0.5	12.2	232.1	91.8 93.9	8.7 8.9	R 9.5	1.7 3.3	-37.8 -38.8	(s) (s)	R 668.1
2007	216.8	146.4	100.4	5.5	12.7	106.1	0.4	9.9	235.1	115.8	3.4	10.3	3.0	-37.9	(s)	692.9

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nebraska

				Petro	leum		Biomass			5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960 1965	129 35	39 48 58 54 49	140 111	337 453	1,790 2,545	2,267 3,110	108 69		 	1,907 2,816	 		
1970	20	58	196	379	3.889	4.464	52			4,107			
1975	3	54	173	372	3,143	3,688	60			4,693			
1980 1985	4	49	360 353	10 40	1,406 998	1,775	287 361			5,521			
1985	3	47	353 196	40	998 978	1,392 1,178	361 201			6,195 6,800			
1995	i	45	88	4	1,173	1,265	176			7,597			
1996	(s) 13	49	113	4	1.575	1,691	183			7,741			
1997		47	90	7	1,265	1,362	142			7,989			
1998	0	41	65 77	10	1,674	1,748	126 133			8,160			
1999	0	41	77	6 8	1,713 1,744	1,796 1,862	133 143			7,929 8,346			
2000 2001	0	43 47	110 81	10	1,744 1,629	1,720	139			8,638			
2002	1	44	68	3	1,974	2,045	141			8,956			
2003	1	44 42	87	4	1,974 1,878	1,969	149			8,852			
2004	(s)	39 38	96	5	1,575	1,676	152			8,757			
2005	(s)	38	88	7	1,700	1,796	R 180			9,309			
2006 2007	(s)	36 39	102 53	2 6	R 1,393 1,667	R 1,497 1,726	R 164 181			9,294 9,748			
2007	(s)	39	33	0	1,007	1,720	101			9,740			
-						Tr	illion Btu						
1960	2.7	40.9 47.2	0.8	1.9 2.6	7.2 10.2	9.9	2.2	0.0	0.0	6.5	62.1	16.1	78.2
1965	0.7	47.2	0.6	2.6	10.2	13.4	1.4	0.0	0.0	9.6	72.3	22.9	95.3
1970	0.4	58.8	1.1	2.1	14.7	18.0	1.0	0.0	0.0	14.0	92.2	33.9	126.1
1975 1980	(s) 0.1	53.6	1.0	2.1 0.1	11.7	14.8	1.2	0.0	0.0 0.0	16.0	85.7	38.5	124.2
1985	0.1	47.9 R 45.8	2.1 2.1	0.1	5.2 3.6	7.3 5.9 4.7	5.7 7.2	0.0 0.0	0.0	18.8 21.1	79.9 79.1	45.4 48.7	125.3 127.8
1990	(s)	R 40.8	1.1	(s)	3.5	4.7	4.0	(s)	(s)	23.2	71.9	53.6	125.6
1995	(s)	44.1	0.5	(s)	3.5 4.2 5.7	4.8 6.4	3.5	(s) 0.1	(s) (s) (s)	25.9	78.4	58.9	137.3
1996	(s) (s) 0.2	R 49.3	0.7	(s)	5.7	6.4	3.5 3.7	0.1	(s)	26.4	85.7	60.1	145.8
1997	0.2	R 47.0	0.5	(s)	4.6	5.1	2.8	0.1	(s)	27.3	82.5	61.8	144.2
1998	0.0	40.9	0.4	0.1	6.1	6.5	2.5	0.1	(s)	27.8	77.8	63.1	141.0
1999	0.0	40.5 R 42.7	0.4	(s)	6.2	6.7	2.7	0.1	(s)	27.1	77.0	61.9	138.9
2000 2001	0.0	1 42.7 47.4	0.6 0.5	(s) 0.1	6.3 5.9	7.0 6.4	2.9 2.8	0.1 0.1	(s) (s)	28.5 29.5	81.0 86.2	64.8 65.7	145.8 151.9
2001	(s) (s)	43.9	0.5	(s)	7.1	7.5	2.8	0.1	(S)	30.6	84.9	68.1	153.0
2003	(s)	42.2	0.5	(s)	6.8	7.3	3.0	0.1	(s)	30.2	82.8	66.6	149.5
2004	(s)	R 38.5	0.6	(s)	5.7	6.3	3.0	0.1	(s)	29.9	77.8	66.1	143.9 R 150.1 R 145.7
2005	(s) (s)	38.4	0.5	(s)	6.2	6.7	R36	0.1	(s)	31.8	R 80.6	69.5	R 150.1
2006	(s)	36.4 39.3	0.6	(s)	R 5.0	R 5.6	R 3.3	0.1	(s)	31.7	R 77.2	68.6	K 145.7
2007	(s)	39.3	0.3	(s)	6.0	6.3	3.6	0.2	(s)	33.3	82.7	71.8	154.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nebraska

					Petro	oleum				Biomass		B . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total ^{f,h}
1960	89	22	140	65	316	84	43	649	0			1,269			
1965	26	22 26	112	87	449	95	84	827	Ö			2,025			
1970	16	47	197	73	686	110	241	1,307	0			3,505			
1975	6	43	174	71	555	120	159	1,079	0			3,660			
1980 1985	15 9	43 39	181 831	21 12	248 176	149 158	23 0	622 1,177	0			4,068 5,714			
1990	3	36	287	23	173	155	20	658	0			6,451			
1995	8	40	162	4	207	21	1	395	Ŏ			7,494			
1996	1	41	230	4	278	21	0	533	0			7,563			
1997	105	34	165	3	223	21	9	421	0			8,014			
1998 1999	0	29 28	222 219	3	295 302	21	7	548 546	0			8,069			
2000	0	28	198	1	302	21 279	3 8	546 794	0			7,997 8,727			
2000	5	28	243	3	287	209	21	763	0			8,757			
2002	6	28	92	2	348	126	0	569	Ŏ			9,142			
2003	5	28	205	3	331	96	14	650	0			8,583			
2004	3	30	182	7	278	203	49	718	0			8,501			
2005	3	27	206	4	300	26	23	559 R 589	0			8,848			
2006 2007	5 4	28 30	189 189	3 1	R 246 294	110 115	41 0	600	0			9,006 9,396			
2007		30	103		234	110			0			9,390			
								Trillion Btu							
1960	1.9	22.7	0.8	0.4	1.3	0.4	0.3	3.2	0.0	(s)	0.0	4.3	32.1	10.7	42.8
1965	0.5	25.3	0.7	0.5	1.8	0.5	0.5	4.0	0.0	(s)	0.0	6.9	36.7	16.5	53.2
1970	0.3	47.2	1.1	0.4	2.6	0.6	1.5	6.2	0.0	(s)	0.0	12.0	65.7	28.9	94.7
1975 1980	0.1 0.3	43.0 42.5	1.0 1.1	0.4 0.1	2.1 0.9	0.6 0.8	1.0 0.1	5.1 3.0	0.0 0.0	(s) 0.1	0.0 0.0	12.5 13.9	60.7 59.8	30.0 33.5	90.7 93.3
1985	0.3	R 38.7	4.8	0.1	0.9	0.8	0.1	6.4	0.0	0.1	0.0	19.5	64.1	44.9	109.0
1990	0.1	R 35.9	1.7	0.1	0.6	0.8	0.0	3.4	0.0	0.4	(s)	22.0	61.1	50.9	111.9
1995	0.2	39.2	0.9	(s)	0.7	0.1		1.8	0.0	0.5	0.1	25.6	67.4	58.1	125.5
1996	0.2 (s) 1.8	R 41 1	1.3	(s)	1.0	0.1	(s) 0.0	1.8 2.5	0.0	0.5	0.2	25.8	70.0	58.7	128.7
1997	1.8	R 33.8	1.0	(s)	0.8	0.1	0.1	2.0	0.0	0.6	0.2	27.3	65.6	62.0	127.6
1998	0.0	29.0	1.3	(s)	1.1	0.1	(s) (s)	2.5	0.0	0.5	0.2	27.5	59.8	62.4	122.3
1999	0.0	27.5 29.0	1.3	(s)	1.1	0.1	(S)	2.5	0.0	0.6	0.2	27.3 29.8	58.1	62.4 67.7	120.5
2000 2001	0.0 0.1	28.3	1.2 1.4	(S)	1.1 1.0	1.5 1.1	0.1 0.1	3.8 3.7	0.0 0.0	0.6 0.6	0.2 0.3	29.8 29.9	63.4 62.8	66.6	131.1 129.4
2001	0.1	28.2	0.5	(S)	1.3	0.7	0.0	2.5	0.0	0.6	0.3	31.2	62.9	69.5	132.4
2003	0.1	28.4	1.2	(s)	1.2	0.5	0.0	3.0	0.0	0.7	0.4	29.3	61.8	64.6	126.4
2004	0.1	29.7	1.1	(s)	1.0	1.1	0.3	3.5	0.0	0.7	0.5	29.0	63.4	64.2	127.6
2005	0.1	27.7	1.2	(s)	1.1	0.1	0.1	2.6	0.0	R 0.7	0.5	30.2	R 61.8	66.0	127.8
2006	0.1	R 28.5	1.1	(s)	0.9 1.1	0.6	0.3	R 2.8	0.0	R 0.7	0.6	30.7	R 63.4	66.4	R 129.8
2007	0.1	30.6	1.1	(s)	1.1	0.6	0.0	2.8	0.0	0.7	0.6	32.1	66.9	69.2	136.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nebraska

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	408	37	2,405	441	2,146	18	1,214	6,224	(s)			889			
1965 1970	349 240	48	1,956	314 823	1,790	32	1,086 1,530	5,177 7,082	(s)			1,182			
1970	308	56 74	3,271 3,234	1,811	1,319 1,644	139 137	1,530	8,035	(s) 0			2,145 3,200			
1975	269	52	3,234	2,675	1,471	29	920	8,506	0			4,155			
1985	261	33	4,457	1,359	1,392	62	608	7,877	0			3,794			
1990	235	26	4,810	1,700	950	236	1.761	9,457	ő			4,618			
1995	339	45	4,748	1,617	759	120	1,009	8,253	0			5,802			
1996	286	36	4,604	1,957	773	167	1,850	9,351	0			6,193			
1997	296	44	4,696	1,571	810	101	1,530	8,708	0			6,580			
1998	384	53	5,025	1,308	1,047	98	1,478	8,956	0			6,916			
1999 2000	405 407	46 47	4,198 4,545	1,636 1,753	686 634	69 115	1,936 1,005	8,524 8,052	0			6,883 7,276			
2000	518	40	4,545 5,170	1,753	953	106	1,005	9,056	0			7,276			
2001	388	41	5,014	2,579	1,031	124	1,101	9,849	0			7,563			
2003	385	38	5,146	2,077	1,086	127	1,648	10,084	Ö			8,421			
2004	371	39	5,523	2,133		180	1,646	10.786	Ö			8,618			
2005	393	41 R 54	5,222	_ 1,745	1 250	103	1,536	9,856 R 9,927	0			8,819			
2006	420	R 54	5,168	R 2,089	1,279	35	1,358	R 9,927	0			8,977			
2007	426	59	6,113	1,537	719	47	1,195	9,611	0			9,104			
							Tri	Ilion Btu							
1960	9.0	38.3	14.0	1.8		0.1	7.7	34.9	(s)	0.4	0.0		85.5	7.5	93.0
1965	7.6	47.7	11.4	1.3	9.4	0.2	6.9	29.1	(s)	0.5	0.0		88.9	9.6	98.6
1970	4.9	56.9	19.1	3.1	6.9	0.9	9.9	39.8	(s)	0.5	0.0	7.3	109.5	17.7	127.2
1975 1980	5.9 5.2	73.5 50.9	18.8 19.9	6.7 9.8	8.6 7.7	0.9 0.2	7.7 5.9	42.8 43.6	0.Ó 0.0	1.5	0.0 0.0	10.9 14.2	134.7 113.8	26.3 34.2	160.9 148.0
1985	4.9	R 32.6	26.0	9.0 4.9		0.2	3.9	43.6	0.0	(s) (s)	0.0	12.9	92.3	29.8	122.1
1990	4.5	R 25.4	28.0	6.2		1.5	11.3	51.9	0.0	0.0	0.0	15.8	97.1	36.4	133.5
1995	6.6	_ 43.9	27.7	5.9	4.0	0.8	6.6	44.9	0.0	(s)	0.0	19.8	115.1	45.0	160.1
1996	5.4	R 36 4	26.8	7.1	4.0	1.1	12.2	51.2	0.0	(s) 3.5	0.0	21.1	117.5	48.1	165.6
1997	5.7	R 44.4	27.4	5.7	4.2	0.6	10.1	48.0	0.0	2.7	0.0	22.4	123.2	50.9	174.0
1998	7.3	53.2	29.3	4.7	5.5	0.6	9.7	49.8	0.0	2.7	0.0	23.6	136.6	53.5	190.1
1999	7.7	45.7	24.5	5.9		0.4	12.8	47.2	0.0	2.7	0.0	23.5	126.8	53.7	180.5
2000	8.4	R 47.1	26.5	6.3		0.7	6.6	43.4	0.0	2.1	0.0	24.8	125.7	56.5	182.1
2001 2002	10.1	R 40.9	30.1	6.0		0.7	7.4	49.1	0.0	4.2	0.0	25.0	129.3	55.7	185.0
2002	8.0 7.8	40.8 38.4	29.2 30.0	9.3 7.5		0.8 0.8	7.0 10.6	51.6 54.6	0.0	4.7 4.6	0.0	25.8 28.7	130.9 134.1	57.5 63.4	188.4 197.5
2003	7.8 7.5	38.4	30.0 32.2	7.5 7.7		1.1	10.6	54.6 58.4	0.0	4.5	0.0	28.7 29.4	R 138.8	65.4 65.1	203.8
2004	7.8	41.6	30.4	6.3		0.6	9.8	53.7	0.0	18	0.0	30.1	120 1	65.8	_ 203.9
2006	8.2	R 54.3	30.1	R 7.5	6.7	0.2	8.7	53.7 R 53.2	0.0	R 4.8	0.0	30.6	R 151.1	66.2	R 217.3
2007	8.1	59.9	35.6	5.5		0.3	7.6	52.8	0.0	5.3	0.0	31.1	157.1	67.0	224.2

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nebraska

						Pe	troleum					-			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	7	6	371	1,402	1,202	103	328	12,768	258	16,432	0	0			
1965	1	9	410	1,439	1,371	99	295	13,861	109	17,583	0	0			
1970 1975	(s) (s)	13 10	199 141	3,658 4,618	1,783 1,679	217 231	319 299	17,096 18,871	225 138	23,497 25,976	0	0			
1980	(5)	7	213	5,112	1,588	171	348	17,480	0	24,911	0	0			
1985	Ö	6	96	6,709	1,357	57	317	16,187	Ő	24,722	416	Ö			
1990	0	4	83	7,524	1,501	61	356	17,346	0	26,871	667	0			
1995	0	3	77	9,540	1,001	23	340	18,521	0	29,501	621	0			
1996 1997	0	5 4	75 90	11,649 11,825	1,007 1,075	21 71	330 348	18,679 18,994	0	31,763	402 458	0			
1998	0	3	63	13,252	R 1,075	23	365	19,237	0	32,404 R 34,021	456 477	0			
1999	Ö	3	71	13,195	1,564	14	368	19,781	Ö	34,994	569	Ö			
2000	0	3	64	9,983	1,231	26	363	19,543	0	31,210	757	0			
2001	0	3	86	8,651	1,113	31	333	19,231	0	29,445	623	0			
2002	0	3 5	93 81	8,719 9,415	1,527 1,205	41 41	329 304	19,689 19,492	0	30,397 30,538	787 857	0			
2003 2004	0	5 4	56	10,589	918	53	304 308	19,492	0	30,538 31,257	799	0			
2005	0	4	82	10,739	934	23	306	18,872	0	30,957	R 409	0			
2006	Ö	R 5	80	11,036	1,060	34	298	18,774	Ö	31,283	R 400	Ö			
2007	0	5	79	10,834	968	38	308	19,501	0	31,729	741	0			
								Trillion Btu							
1960	0.2	6.5	1.9	8.2	6.4	0.4	2.0	67.1	1.6	87.6	0.0	0.0	94.2	0.0	94.2
1965 1970	(s)	8.6	2.1	8.4	7.4	0.4	1.8	72.8	0.7	93.5	0.0	0.0	102.2 139.3	0.0	102.2
970 975	(s) (s)	13.2 10.4	1.0 0.7	21.3 26.9	9.8 9.2	0.8 0.9	1.9 1.8	89.8 99.1	1.4 0.9	126.1 139.5	0.0 0.0	0.0 0.0	139.3	0.0 0.0	139.3 149.9
980	0.0	6.9	1.1	29.8	8.7	0.9	2.1	91.8	0.9	134.1	0.0	0.0	141.0	0.0	149.9
985	0.0	5.5	0.5	39.1	7.4	0.2	1.9	85.0	0.0	134.1	1.5	0.0	141.1	0.0	141.1
990	0.0	3.5	0.4	43.8	8.3	0.2	2.2	91.1	0.0	146.0	2.4	0.0	151.9	0.0	151.9
995	0.0	3.4	0.4	55.6	5.7	0.1	2.1	96.6	0.0	160.4	2.2	0.0	163.7	0.0	163.7
996 997	0.0 0.0	4.6 4.3	0.4 0.5	67.9 68.9	5.7	0.1 0.3	2.0 2.1	97.4 99.0	0.0 0.0	173.5 176.8	1.4 1.6	0.0 0.0	178.1 181.1	0.0 0.0	178.1 181.1
997 998	0.0	4.3 2.9	0.5	68.9 77.2	6.1 6.1	0.3 0.1	2.1	99.0 100.3	0.0	176.8 186.2	1.6	0.0	181.1	0.0	181.1
999	0.0	3.0	0.4	76.9	8.9	0.1	2.2	103.1	0.0	191.5	2.0	0.0	194.4	0.0	194.4
2000	0.0	3.2	0.3	58.2	7.0	0.1	2.2	101.8	0.0	169.6	2.7	0.0	172.8	0.0	172.8
2001	0.0	3.1	0.4	50.4	6.3	0.1	2.0	100.2	0.0	159.5	2.2	0.0	162.6	0.0	162.6
2002	0.0	2.7	0.5	50.8	8.7	0.1	2.0	102.5	0.0	164.6	2.8	0.0	167.3	0.0	167.3
003 004	0.0	5.4 4.0	0.4	54.8 61.7	6.8 5.2	0.1	1.8	101.5	0.0	165.6 170.0	3.0 2.8	0.0	170.9 174.1	0.0	170.9 174.1
1004	0.0 0.0	4.0	0.3 0.4	61.7 62.6	5.2 5.3	0.2 0.1	1.9 1.9	100.8 98.5	0.0 0.0	170.0	2.8 R 1.4	0.0 0.0	174.1	0.0 0.0	174.1
2005	0.0	R 4.6	0.4	64.3	6.0	0.1	1.8	98.0	0.0	170.6	R 1.4	0.0	173.2 R 175.2	0.0	173.2 R 175.2
2007	0.0	5.5	0.4	63.1	5.5	0.1	1.9	101.8	0.0	172.8	2.6	0.0	178.3	0.0	178.3

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Nebraska

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	256 486	31	96	64	0	160	0	959		0	0	0	0	
1965	486	36	107	.71	0	178	-5	1,115		0	0	0	0	
1970 1975	1,006 1,278	48	188 658	126 308	0	314 967	0	1,370 1,213		0	0	0	0	
1975	1,278 4,702	38 12	176	308 86	0	967 262	5,916 5,783	1,336		0	0	0	0	
1985	6,380	12	0	62	0	62	4,134	1,441		0	0	0	0	
1990	8,027	4	1	31	0	31	7,511	1.140		0	0	0	0	
1995	10,048	3	Ö	61	ŏ	61	7,485	1,426		ŏ	ŏ	ŏ	ŏ	
1996	10,091	2	0	47	0	47	9,457	1,602		0	0	0	0	
1997	10,796	3	(s)	71	0	72	9,269	1,672		0	0	0	1	
1998	11,505	5	11	83	0	93	8,259	1,683		0	0	0	-48	
1999	11,219	5	4	65	0	70	10,091	1,719		0	0	0	-42	
2000 2001	11,503 12,606	6	19	100	0	119 62	8,629 8,726	1,501 1,124		0	0	0	0	
2001	12,806	4	(s) (s)	62 43	0	43	10,122	1,124		0	0	3 8	0	
2002	12,725	5	(5)	101	0	102	7,997	980		0	0	38	2	
2003	12,650	3	2	45	0	47	10,241	913		0	0	38	-3	
2005	12,886	8	19	44	Ŏ	63	8,802	871		Ŏ	ŏ	97	-4	
2006	12,881	8	2	40	Ō	41	9,003	893		0	0	261	-1	
2007	12,267	11	23	54	0	76	11,042	347		0	0	217	9	
							Trillion E	Btu						
1960 1965	6.3	32.1	0.6	0.4	0.0	1.0	0.0	10.3	0.5	0.0	0.0	0.0	0.0	50.2
1965	11.9	35.9	0.7	0.4	0.0	1.1	-0.1	11.7	0.0	0.0	0.0	0.0	0.0	60.6
1970 1975	24.1	48.0	1.2	0.7	0.0	1.9	0.0	14.4	0.0	0.0	0.0	0.0	0.0	88.4
1975	26.8	37.0	4.1	1.8	0.0	5.9	65.2	12.6	0.0	0.0	0.0	0.0	0.0	147.5
1980 1985	88.4 110.4	11.3 1.2	1.1 0.0	0.5 0.4	0.0 0.0	1.6 0.4	63.1 43.9	13.9 15.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	178.3 170.9
1990	137.5	R 3.6	(s)	0.4	0.0	0.4	79.5	11.9	0.0	0.0	0.0	0.0	0.0	232.5
1995	172.7	3.1	0.0	0.4	0.0	0.4	78.6	14.7	0.2	0.0	0.0	0.0	0.0	269.7
1996	173.5	2.3	0.0	0.3	0.0	0.3	99.3	16.6	0.1	0.0	0.0	0.0	0.0	292.1
1997	185.6	2.7	(s)	0.4	0.0	0.4	97.3	17.1	0.2	0.0	0.0	0.0		303.3
1998	197.5	5.1	(s) 0.1	0.5	0.0	0.5	86.6	17.2	0.1	0.0	0.0	0.0	(s) -0.2	306.9
1999	190.8	4.6	(s) 0.1	0.4	0.0	0.4	105.5	17.6	0.1	0.0	0.0	0.0	-0.1	318.8
2000	198.6	5.6		0.6	0.0	0.7	90.0	15.3	0.1	0.0	0.0	0.0	0.0	310.3
2001	216.4	4.4	(s) (s)	0.4	0.0	0.4	91.2	11.6	0.1	0.0	0.0	(s)	0.0	324.1
2002	209.8	4.8		0.2 0.6	0.0 0.0	0.3	105.7 83.3	11.2	0.1 0.4	0.0 0.0	0.0	0.1	0.0	331.9 318.7
2003 2004	219.4 216.1	4.6 3.3	(s)	0.6	0.0	0.6 0.3	83.3 106.8	10.0 9.2	0.4	0.0	0.0 0.0	0.4 0.4	(s)	318.7 336.3
2004	220.8	3.3 8.0	(s) 0.1	0.3	0.0	0.3	91.8	9.2 8.7	0.5	0.0	0.0	1.0	(s) (s)	331.2
2005	219.2	7.8		0.3	0.0	0.4	93.9	8.9	0.5	0.0	0.0	2.6	(5)	333.1
2007	208.7	11.1	(s) 0.1	0.3	0.0	0.5	115.8	3.4	0.6	0.0	0.0	2.1	(s)	342.2
													. ,	

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Nevada

						Petroleum				Muslass	Uhadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	151	12	2,409	2,462	773	3,621	246	623	10,134	0	1,967					
1965	309	28	2,775	2,999	720	5,504	137	828	12,963	0	1,595					
1970 1975	680 4,521	53 61	2,834 2,565	4,584 5,859	839 493	7,374 9,633	143 1,339	927 1,182	16,700 21,070	0	1,646 1.690					
1980	4,215	58	3,966	7,223	880	11,224	2,439	982	26,715	ő	2,372					
1985	5,539	39	5,289	5,715	1,043	11,627	165	1,136	24,975	0	4,344					
1990 1995	7,442 7.340	65 109	6,815 8,774	6,114 7.374	1,430 815	14,942 18,017	454 1,109	1,324 1,749	31,079 37,837	0	1,735 1,942					
1996	7,604	122	11,031		970	18,962	276	1,749	40.842	0	2,164					
1997	7,447	132	9,987	7,843 R 7,559	852	19,952	230	759	40,842 R 39,339	0	2,587					
1998	8,216	149	9,207	R 6,721	911	22,070	145	1,690	R 40,744 41,930	0	3,166					
1999 2000	8,067 8,865	155 189	9,426 9,750	8,354 9,163	1,378 1,313	21,583 22,063	64 80	1,124 1,080	41,930	0	2,828 2,429					
2001	8,399	177	9,646	8,414	1,529	22,877	2,090	1,333	45,888	Ő	2,514					
2002	8,071	177	9,672	8,154	1,111	23,582	19	1,276	43,814	0	2,268					
2003 2004	8,095 8,715	186 215	8,960 11,388	7,651 7,915	790 614	24,863 26,050	8 149	2,086 2,164	44,357 48,280	0	1,757 1,615					
2004	8,826	227	12,452	8,157	931	27,137	6	2,104	51 169	0	1,702					
2006	3,696	250	13,862	8,551	R 911	28,237	13	2,434	R 54,009	Ő	2,058					
2007	3,650	254	13,431	9,207	915	28,414	8	1,645	53,621	0	2,003					
								Trillion Btu								
1960	4.0	12.9	14.0	13.2	3.1	19.0	1.5	3.6	54.5	0.0	21.2	0.9	0.0	-2.3 5.5	0.0	91.2
1965 1970	7.9 17.3	29.4 56.9	16.2 16.5	16.3 25.3	2.9 3.2	28.9 38.7	0.9 0.9	4.9 5.8	70.0 90.4	0.0	16.7 17.3	0.9 1.1	0.0 0.0	5.5 7.2	0.0	130.3 190.1
1975	101.3	65.4	14.9	25.3 32.7	3.2 1.8	50.6	0.9 8.4	5.6 7.4	115.9	0.0	17.3	1.1	0.0	-63.1	0.0	238.2
1980	93.2	62.0	23.1	40.4	3.2	59.0	15.3	6.1	147.1	0.0	24.6	2.8	0.0	-38.2	(s)	291.6
1985	126.2	41.6 R 66.9	30.8	31.7	3.8	61.1	1.0	7.3	135.6	0.0	45.4	4.6	0.0	-50.5	0.1	303.0
1990 1995	165.3 162.5	112.5	39.7 51.1	34.0 41.8	5.2 3.0	78.5 94.0	2.9 7.0	8.5 11.4	168.8 208.2	0.0 0.0	18.0 20.0	2.9 3.2	16.9 33.6	-39.0 -42.6	0.3 0.0	400.1 497.3
1996	169.5	126.9	64.3	44.5	3.5	98.9	1.7	11.4	224.2	0.0	22.4	3.6	33.7	-42.8	0.0	537.4
1997	166.7	135.5	58.2	44.5 R 42.9	3.1	104.0	1.4	4.8	214.3	0.0	26.4	4.5	34.5	-30.5	0.0	551.4
1998	184.2	154.7	53.6	38.1	3.3	115.0	0.9	10.9	221.9	0.0	32.3	4.0	33.5	-51.5	0.0	R 579.1
1999 2000	181.6 199.3	160.0 194.1	54.9 56.8	47.4 52.0	5.0 4.7	112.5 114.9	0.4 0.5	7.2 6.9	227.3 235.8	0.0 0.0	28.9 24.8	4.2 4.5	31.3 30.4	-33.1 -61.7	0.0	600.1 627.3
2001	188.6	181.3	56.2	47.7	5.5	119.2	13.1	8.5	250.3	0.0	26.0	3.3	27.0	-49.3	0.0	627.1
2002	164.8	183.3	56.3	46.2	4.0	122.8	0.1	8.1	237.7	0.0	23.1	3.1	25.5	2.1	0.3	639.9
2003 2004	182.6 193.6	189.9 219.5	52.2 66.3	43.4 44.9	2.9 2.2	129.5 135.9	(s) 0.9	13.6	241.5 264.3	0.0 0.0	18.0 16.2	3.3 3.4	24.2 29.1	R -7.7 -31.8	0.8 0.6	652.5 695.0
2004	193.6 197.8	219.5	66.3 72.5	44.9 46.2	_ 3.4	135.9	0.9	14.1 16.1		0.0	16.2 17.0	R 6.7	29.1	-31.8 R -37.5	0.6	R 730.3
2006	84.2	R 259.1	80.7	48.5	R 3.3	147.3	(s) 0.1	15.8	279.9 R 295.7	0.0	20.4	R 6.2	30.5	72.7	0.3	R 769.2
2007	82.9	263.6	78.2	52.2	3.3	148.3	0.1	10.5	292.6	0.0	19.8	6.7	29.2	81.5	1.0	777.4

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nevada

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	18	2 4	219	0	275	493	46			719			
1965 1970	39 37	7	286 328	0	519 621	805 949	43 52			1,268 1,990			
1975	3	11	265	0	316	581	61			2,803			
1980	1	13	187	ő	427	614	135			3,697			
1985	(s)	13 13	276	47	650	974	224			4,126			
1990 1995	1	17	213	8	817	1,039	128			5,540			
1995	(s) (s)	21	176	6	509	691	141			6,655			
1996 1997	(s)	23 25	198	6 5	549 584	754	146			7,526			
1997	(s)	20 20	260 273	10	615	849 897	182 161			7,801 7,975			
1999	(s) (s)	30 29 30 33 32 33 37 36	208	8	894	1,110	170			8,386			
2000	0	30	212	8	544	764	183			9,406			
2001	(s)	33	218	7	519	744	109			9,607			
2002	(s) (s)	32	208	7	756	970	111			9,702			
2003	(s)	33	165	11	416	592	116			10,340			
2004	(s)	37	171	18	372	560	119			10,673			
2005 2006	(s)	36	204 157	18 16	644 R 622	866 R 795	119 R 263 R 239			11,080 11,978			
2007	(s) (s)	38	147	17	622	785	264			12,390			
						Ti	rillion Btu						
1960	0.4	2.0	1.3	0.0	1.1	2.4	0.9	0.0	0.0	2.5 4.3	8.2	6.1	14.3
1965 1970	1.0	4.4	1.7	0.0	2.1	2.4 3.7	0.9	0.0	0.0	4.3	14.3	10.3	24.6
1970	0.9	7.9	1.9	0.0	2.3	4.3	1.0	0.0	0.0	6.8	20.8	16.4	37.3
1975	0.1	11.8	1.5	0.0	1.2	2.7	1.2	0.0	0.0	9.6	25.4	23.0	48.4
1980	(s) (s)	13.9 13.4	1.1	0.0	1.6	2.7	2.7 4.5	0.0	0.0	12.6	31.9	30.4	62.3
1985 1990	(S)	13.4 17.7	1.6 1.2	0.3 (s)	2.3 3.0	4.2 4.3	4.5 2.6	0.0 0.1	0.0 0.1	14.1 18.9	36.2 43.6	32.4 43.7	68.6 87.3
1995	(s)	21.4	1.2	(S) (S)	1.8	4.3 2.0	2.8	0.1	0.1	22.7	50.1	51.6	101.7
1996	(s) (s)	23.5	1.0 1.2	(s)	2.0	2.9 3.2	2.9	0.1	0.2	25.7	55.7	58.4	114.1
1997	(s)	25.9	1.5	(s)	2.1	3.7	3.6	0.1	0.3	26.6	60.2	60.3	120.5
1998	(s)	31.5	1.6	0.1	2.2	3.9	3.2	0.1	0.3	27.2	66.3	61.7	128.0
1999	(s) (s) 0.0	29.4	1.2	(s)	3.2	4.5 3.2	3.4	0.2	0.4	28.6	66.5	65.4	131.9
2000	0.0	30.8	1.2	(s)	2.0	3.2	3.7	0.2	0.5	32.1	70.5	73.0	143.5
2001	(s) (s)	33.4	1.3	(s)	1.9	3.2	2.2 2.2	0.2	0.6	32.8	72.3	73.0	145.3
2002	(s)	34.1	1.2	(s)	2.7	4.0 2.5	2.2	0.2 0.2	0.6	33.1	74.3	73.8	148.0
2003 2004	(8)	33.5 36.7	1.0 1.0	0.1 0.1	1.5 1.3	2.5 2.4	2.3	0.2 0.2	0.6 0.7	35.3 36.4	74.5	77.9 80.6	152.3
2004	(5)	38.4	1.0	0.1	23	3.6	2.4 R 5.3	0.2	0.7	37.8	78.8 R 86.1	82.7	R 168.8
2006	(s) (s) (s) (s) (s)	40.0	0.9	0.1	2.3 R 2.2	R 3.2	R 4.8	0.2	1.0	40.9	R 90.2	88.4	R 178.6
2007	(s)	40.0 39.9	0.9 0.9	0.1	2.2	R 3.2 3.2	R 4.8 5.3	0.2 0.2	1.2	40.9 42.3	92.1	91.2	159.4 R 168.8 R 178.6 183.3
	. ,												

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nevada

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	12	1	107	0	48	29	86	271	0			655			
1965	29	2	140	1	92	44	38	316	0			1,235			
1970	29	10	161	10	110	49	29	358	ŏ			2,069			
1975	6	15	130	12	56	69	34	301	0			2,876			
1980	3	10	353	0	75	61	7	496	0			1,775			
1985	2	12	315	5	115	82	25	542	0			3,408			
1990	2	15	311	4	144	84	2	545	0			4,550			
1995	1	19	832	1	90	13	0	935	0			5,509			
1996 1997	1	20 22	987 282	2	97 103	13 13	0	1,098 399	0			5,973 6,383			
1997	1	22	309	2	103	13	4	436	0			6.544			
1999	(s)	23 23	364	3	158	13 13	7	544	0			7,007			
2000	0	26	401	2	96	13	8	521	ŏ			7,147			
2001	Ĭ	23	336	2	96 92	16	Ö	445	Ō			7,321			
2002	1	23	357	1	133	18	0	509	0			8,130			
2003	1	24	272	2	73	16	0	363	0			8,168			
2004	11	27	372	2	66	16	0	455	0			8,275			
2005 2006	1	27	494	3 6	114 R 110	16 17	0	626 R 653	0			8,516 8,975			
2006	2 (s)	28 28	521 306	6	110	17	0 5	443	0			9,352			
2007	(3)		300		110							3,302			
								Trillion Btu							
1960	0.3	0.9	0.6	0.0	0.2	0.2	0.5	1.5	0.0	(s)	0.0	2.2	5.0	5.5	10.5
1965	0.7	2.5	0.8	(s)	0.4	0.2	0.2	1.7	0.0	(s) (s)	0.0	4.2	9.2	10.1	19.2
1970	0.7	10.4	0.9	0.1	0.4	0.3	0.2	1.8	0.0	(s)	0.0	7.1	20.0	17.1	37.1
1975	0.1	16.0	0.8	0.1	0.2	0.4	0.2	1.6	0.0	(s) 0.1	0.0	9.8	27.6	23.6	51.2
1980	0.1	10.7	2.1	0.0	0.3 0.4	0.3 0.4	(s) 0.2	2.7	0.0 0.0		0.0 0.0	6.1	19.6 27.6	14.6 26.8	34.2 54.4
1985 1990	(s) 0.1	13.0 15.5	1.8 1.8	(s) (s)	0.4	0.4	(s)	2.9 2.8	0.0	0.1 0.3	0.0	11.6 15.5	34.6	35.9	70.5
1995	(s)	19.3	4.8	(s)	0.3	0.4	0.0	5.2	0.0	0.3	0.4	18.8	44.2	42.7	86.9
1996	(s)	21.2	5.8	(S)	0.4	0.1	0.0	6.2	0.0	0.4	0.4	20.4	48.6	46.3	95.0
1997	(s)	22.5	1.6	(s)	0.4	0.1	(s)	2.1	0.0	0.6	0.4	21.8	47.4	49.3	96.8
1998	(s)	24.4	1.8	(s)	0.4	0.1	(s)	2.3	0.0	0.5	0.5	22.3	50.1	50.6	100.7
1999	(s) 0.0	23.2	2.1	(s)	0.6	0.1	(s) (s)	2.8	0.0	0.6	0.5	23.9	51.0	54.7	105.7
2000		26.4	2.3	(s)	0.3	0.1	0.1	2.8	0.0	0.6	0.5	24.4	54.7	55.5	110.1
2001	(s)	23.4	2.0	(s)	0.3	0.1	0.0	2.4	0.0	0.4	0.5	25.0	51.7	55.7	107.4
2002	(s)	24.2	2.1	(s)	0.5	0.1	0.0	2.7	0.0	0.4	0.5	27.7	55.6	61.8	117.4
2003	(S)	24.6	1.6	(s)	0.3	0.1	0.0	1.9	0.0	0.4	0.6	27.9	55.4	61.5	116.9
2004 2005	(S)	27.0 28.0	2.2 2.9	(s) (s)	0.2 0.4	0.1 0.1	0.0 0.0	2.5	0.0 0.0	0.4 R 0.8	0.6 0.7	28.2 29.1	58.8 R 62.0	62.5 63.6	121.2 R 125.5
2005	(s) (s)	28.0	3.0	(S) (S)	0.4	0.1	0.0	3.4 R 3.5	0.0	R 0.8	0.7	30.6	R 65.3	66.2	R 121.5
2007	(S)	29.6	1.8	(S)	0.4	0.1	(s)	2.3	0.0	0.8	0.7	31.9	R 65.3 65.3	68.8	R 131.5 134.2
	(0)	20.0		(0)	V. F	V.1	(0)	2.0		0.0		01.0	00.0	00.0	101.2

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nevada

	Retail Electricit Sales	Net Energy f,h 3 9 5 4 8 3 5 4 4 6 8 5 4 4 4 4 6 6 6 6	Electrical System Energy Losses	Total ^{f,h}
Year Short Tons Cubic Feet Thousand Barrels kWh Waste f.g there 1960 119 3 575 445 120 118 268 1,527 (s) — 1965 61 8 740 101 131 40 406 1,419 (s) — 1970 70 10 840 99 166 34 648 1,788 (s) — 1975 77 10 705 107 115 44 881 1,852 0 — 1980 147 7 651 374 111 1 692 1,830 0 — 1985 110 6 1,497 247 131 88 904 2,867 0 — 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 — 1996 179 7 3,959 3	rmal f kWh 79 1,05 1,63 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,01	Energy f,h	Energy Losses	
1970 70 10 840 99 166 34 648 1,788 (s) 1975 77 10 705 107 115 44 881 1,852 0 1980 147 7 651 374 111 1 692 1,830 0 1985 110 6 1,497 247 131 88 904 2,867 0 1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 </th <th> 1,05 1,63 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,03</th> <th>9 5 14 16 18 16 16 17 18 18 19 10 11 12 13 14 14 15 16 17 18 18 18 18 18 19 10 -</th> <th> </th> <th> </th>	1,05 1,63 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,03	9 5 14 16 18 16 16 17 18 18 19 10 11 12 13 14 14 15 16 17 18 18 18 18 18 19 10 -	 	
1970 70 10 840 99 166 34 648 1,788 (s) 1975 77 10 705 107 115 44 881 1,852 0 1980 147 7 651 374 111 1 692 1,830 0 1985 110 6 1,497 247 131 88 904 2,867 0 1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 </td <td> 1,05 1,63 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,03</td> <td>9 5 14 16 18 16 16 17 18 18 19 10 11 12 13 14 14 15 16 17 18 18 18 18 18 19 10 -</td> <td></td> <td> </td>	1,05 1,63 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,03	9 5 14 16 18 16 16 17 18 18 19 10 11 12 13 14 14 15 16 17 18 18 18 18 18 19 10 -		
1970 70 10 840 99 166 34 648 1,788 (s) 1975 77 10 705 107 115 44 881 1,852 0 1980 147 7 651 374 111 1 692 1,830 0 1985 110 6 1,497 247 131 88 904 2,867 0 1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 </td <td> 1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,51</td> <td>14</td> <td> </td> <td> </td>	1,96 4,93 3,80 6,26 8,49 9,07 10,03 10,51	14	 	
1980 147 7 651 374 111 1 692 1,830 0 1985 110 6 1,497 247 131 88 904 2,867 0 1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	4,93 3,80 6,26 8,49 9,07 10,03 10,51	66 —— 18 —— 13 —— 16 —— 15 ——	 	
1985 110 6 1,497 247 131 88 904 2,867 0 1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	3,80 6,26 8,49 9,07 10,03 10,51	18 13 16 15 14	 	
1990 169 8 2,906 446 170 8 1,116 4,646 0 1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	6,26 8,49 9,07 10,03 10,51	33 —— 16 —— 15 —— 14 ——		
1995 255 7 3,452 197 201 1,082 1,597 6,529 0 1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	8,49 9,07 10,03 10,51	6 5 4		
1996 179 7 3,959 302 206 129 1,580 6,176 0 1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	9,07 10,03 10,51	75 34		
1997 185 8 4,058 147 299 206 593 5,303 0 1998 254 10 3,233 180 434 77 1,526 5,451 0	10,03 10,51			
1998 254 10 3.233 180 434 77 1.526 5.451 0	10 <u>,</u> 51			
1999 304 12 2740 326 134 19 948 4166 0		8		
		51		
2000 231 11 2,824 672 111 0 901 4,508 0	11,23	9		
2001 208 11 2,530 775 456 0 1,156 4,916 0	11,23			
2002 185 11 2,211 220 473 6 1,105 4,015 0	11,37			
2003 225 11 1,610 244 503 1 1,926 4,284 0 2004 212 12 2,780 133 568 (s) 1,987 5,468 0	11,62 12,36			
2004 212 12 2,780 133 568 (s) 1,987 5,468 0 2005 203 14 3,171 84 614 (s) 2,254 6,124 0	12,36 12,89	i4		
2005 203 14 3,171 84 614 (s) 2,254 6,124 0 2006 206 14 3,373 R 114 619 2 2,203 R 6,312 0	12,69 13,62	 		
2007 204 13 3,576 119 313 0 1,411 5,418 0	13,89	3		
Trillion Btu				
1960 3.2 3.4 3.3 1.8 0.6 0.7 1.8 8.3 (s) 0.0	0.0 2.	7 17.6		24.2
1965 1.6 8.4 4.3 0.4 0.7 0.3 2.7 8.3 (s) 0.0	0.0 3.			30.5
1970 1.7 11.2 4.9 0.4 0.9 0.2 4.3 10.6 (s) 0.0	0.0 5.		13.5	42.6
1975 1.8 10.7 4.1 0.4 0.6 0.3 5.8 11.2 0.0 0.0 1980 3.4 7.7 3.8 1.4 0.6 (s) 4.5 10.3 0.0 0.0	0.0 6. 0.0 16.			46.5 78.9
1980 3.4 7.7 3.8 1.4 0.6 (s) 4.5 10.3 0.0 0.0 1985 2.6 6.6 8.7 0.9 0.7 0.6 6.0 16.8 0.0 0.0	0.0 16.	.0 30.3 .0 39.0	29.9	68.9
1990 3.9 7.7 16.9 1.6 0.9 (s) 7.4 26.9 0.0 0.0	0.0 13.		49.4	109.5
1995 5.8 7.3 20.1 0.7 1.1 6.8 10.5 39.2 0.0 0.0	0.4 29.			147.4
1996 4.0 7.7 23.1 1.1 1.1 0.8 10.4 36.4 0.0 0.2	0.3 31.			150.1
1997 4.3 8.6 23.6 0.5 1.6 1.3 3.8 30.9 0.0 0.2	0.3 34.	2 78.5	77.6	156.1
1998 5.9 10.5 18.8 0.7 2.3 0.5 10.0 32.3 0.0 0.2	0.2 35.	.9 85.0	81.4	166.4
1999 7.0 12.4 16.0 1.2 0.7 0.1 6.2 24.1 0.0 0.2	0.4 37.			165.9
2000 5.4 11.7 16.4 2.4 0.6 0.0 5.9 25.3 0.0 0.2	0.4 38.			168.6
2001 4.9 11.7 14.7 2.8 2.4 0.0 7.6 27.5 0.0 0.8	0.4 38.	3 83.6	85.5	169.1
2002 4.3 11.8 12.9 0.8 2.5 (s) 7.2 23.4 0.0 0.5 2003 5.2 10.9 9.4 0.9 2.6 (s) 12.7 25.6 0.0 0.5	0.4 38.		86.5	165.7
	0.3 39. 0.3 42.			169.7 185.9
2004 4.9 11.8 16.2 0.5 3.0 (s) 13.1 32.8 0.0 0.6 2005 4.6 14.5 18.5 0.3 3.2 (s) 14.9 36.9 0.0 0.6	0.3 42.		96.2	_ 197.2
2006 4.7 14.3 19.6 R 0.4 3.2 (s) 14.5 R 37.8 0.0 0.6	0.4 44.	.5 R 104.3	100.5	R 204.8
2006 4.7 14.3 19.6 R 0.4 3.2 (s) 14.5 R 37.8 0.0 0.6 2007 4.7 13.9 20.8 0.4 1.6 0.0 9.3 32.2 0.0 0.6	0.4 47.		102.3	201.4

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Nevada

						Per	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960 1965	2	0	281	1,501	2,462	5	73	3,472	0	7,795	0	0			
1965	(s)	0	335	1,599	2,999	9	86	5,329	7	10,364	0	0			
1970 1975	(s) (s)	0	186 197	1,492 1,407	4,584 5,859	9 13	83 94	7,158 9,449	5	13,512 17,023	0	0			
1980	(5)	(s)	206	2,754	7,223	3	83	11,052	0	21.322	0	0			
1985	0	(s)	105	3,146	5,715	31	76	11,414	0	21,322 20,487	2	Ö			
1990	0	`1	111	3,294	6,114	22 19	85	14,688	0	24,314	114	0			
1995 1996	0	1	63	4,287 5,852	7,374	19	81	17,803 18,743	0	29,628	300	0			
1996	0	1	93 76	5,852	7,843 R 7,559 R 6,721	22 19	79 83	19,640	0	32,632 R 32,717	0	0			
1998	0	1	65	5,354	R 6.721	7	87	21,623	0	R 33,858	345	0			
1999	Ö	1	78	6,079	8,354	(s)	88	21.437	0	36,036	632	Ō			
2000	0	1	81	6,266	9,163	1	87	21,938	0	37,537	685	0			
2001	0	1	88	6,528	8,414	144	80	22,406	0	37,659	731	0			
2002 2003	0	1	84 74	6,860 6,885	8,154 7,651	2 57	79 73	23,091 24,344	0	38,270 39,085	863 1,009	0			
2003	0	3	83	8,044	7,051	44	73 74	25,466	0	41,626	1,009	0			
2005	0	3	138	8,545	8.157	89	73	26,507	0	43,509	R 1.028	8			
2006	0	3	138	9,785	8,551	65	71	27,601	0	46,213	R 995	8			
2007	0	3	137	9,381	9,207	65	74	28,084	(s)	46,949	1,215	8			
								Trillion Btu							
1960	0.1	0.0	1.4	8.7	13.2	(s) (s) (s)	0.4	18.2	0.0	42.1 55.9	0.0	0.0	42.1	0.0	42.1
1965 1970	(s)	0.0	1.7	9.3 8.7	16.3 25.3	(s)	0.5 0.5	28.0 37.6	(s)	55.9 73.1	0.0 0.0	0.0	55.9 73.1	0.0	55.9 73.1
1970	(s)	0.0	0.9 1.0	8.2	25.3 32.7	(S)	0.5	37.6 49.6	(s)	73.1 92.1	0.0	0.0 0.0	92.1	0.0 0.0	92.1
1980	(s) 0.0	0.0	1.0	16.0	40.4		0.5	58.1	(s) 0.0	116.0	0.0	0.0	116.2	0.0	116.2
1985	0.0	0.1	0.5	18.3	31.7	(s) 0.1	0.5	60.0	0.0	111.0	(s) 0.4	0.0	111.2	0.0	111.2
1990	0.0	0.8	0.6	19.2	34.0	0.1	0.5	77.2	0.0	131.5		0.0	132.7	0.0	132.7
1995	0.0	0.9	0.3	25.0 34.1	41.8	0.1	0.5	92.8	0.0	160.5	1.1	0.0	161.4	0.0	161.4
1996 1997	0.0 0.0	0.9 0.7	0.5 0.4	34.1 31.1	44.5 R 42.9	0.1 0.1	0.5 0.5	97.8 102.4	0.0 0.0	177.3 177.3	0.0 0.0	0.0 0.0	178.3 178.0	0.0 0.0	178.3 178.0
1997	0.0	1.1	0.4	31.1	38.1		0.5	112.7	0.0	R 182.9	1.2	0.0	184.0	0.0	184.0
1999	0.0	1.2	0.4	35.4	47.4	(s) (s)	0.5	111.7	0.0	195.4	2.2	0.0	196.6	0.0	196.6
2000	0.0	1.3	0.4	36.5	52.0	(s)	0.5	114.3	0.0	203.7	2.4	0.0	205.0	0.0	205.0
2001	0.0	1.4	0.4	38.0	47.7	(s) 0.5	0.5	116.7	0.0	203.9	2.6	0.0	205.3	0.0	205.3
2002	0.0	1.4	0.4	40.0	46.2	(s) 0.2	0.5	120.3	0.0	207.4	3.1	0.0	208.8	0.0	208.8
2003 2004	0.0 0.0	2.3 2.9	0.4 0.4	40.1 46.9	43.4 44.9	0.2 0.2	0.4 0.4	126.8 132.8	0.0 0.0	211.3 225.6	3.6 3.7	0.0 0.0	213.6 228.5	0.0 0.0	213.6 228.5
2004	0.0	2.9	0.4	46.9 49.8	44.9 46.2	0.2	0.4	132.8	0.0	235.8	R 3 6	(s)	228.5	0.0	228.5
2006	0.0	3.4	0.7	57.0	48.5	0.2	0.4	144.0	0.0	250.9	R 3.5 4.3	(s)	254.3	0.1	R 254.3
2007	0.0	3.6	0.7	54.6	52.2	0.2	0.4	146.6	(s)	254.8	4.3	(s)	254.3 258.4	0.1	258.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Nevada

Coal Gast Residual Residual Fuel Oils Distillate Parolem Total Residual Power Po					Petro	oleum				Biomass				- 1	
Thousand Billion Thousand Barrels Million Kilowatthours Million Kilowatthours Million Kilowatthours Total		Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c		Total		Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
1965 180 13 51 8 0 60 0 1.594 0 0 0 0 0 0 0 1975 4.435 25 1.256 58 0 13 0 93 0 1.645 0 0 0 0 0 0 1975 4.435 25 1.256 58 0 1 3.0 93 0 1.690 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year				Thousan	d Barrels		Million Ki	owatthours	and		Million Kile	owatthours		Total ^{f,i}
1970	1960			41	7		48		1,967						
1975 4.435 25 1,256 58 0 1,314 0 1,690 0 0 0 0 0 1980 4.064 28 2,431 22 0 2,453 0 2,372 0 0 0 0 0 0 29 1985 5.427 8 51 54 0 1044 0 4,344 70 0 0 0 0 29 1985 7.424 71 8 77 0 83 51 0 4 0 1,732 1,754 0 0 0 2 2 1996 7.424 71 147 35 0 182 0 2,164 1,556 0 0 0 0 0 1998 7.261 76 23 47 0 71 0 2,597 1,596 0 0 0 0 1998 7.961 84 64 38 0 103 0 3,166 1,537 0 0 0 0 1998 7.961 84 64 38 0 103 0 3,166 1,537 0 0 0 0 1998 7.861 84 64 38 0 103 0 3,166 1,537 0 0 0 0 1998 7.861 84 121 72 48 0 119 0 2,429 1,371 0 0 0 0 2000 8.634 121 72 48 0 119 0 2,429 1,371 0 0 0 0 2001 8.190 109 2,093 34 0 2,125 0 2,514 1,200 0 0 0 0 2002 7.888 110 13 3 3 0 44 0 1,225 0 2,514 1,200 0 0 0 0 0 2004 7.888 110 13 3 37 0 44 0 1,257 0 1,126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1965	180	13	51	8	•	60		1,594		•			0	
1980	1970	544	25		13	•					•	•	•	0	
1985 5,427 8 51 54 0 104 0 4,344 0 0 0 29 1995 7,270 24 444 991 0 535 0 1,735 761 0 0 0 29 1995 7,084 62 26 27 0 54 0 1,942 1,554 0 0 0 1996 7,424 71 147 35 0 182 0 2,164 1,555 0 0 0 0 0 1997 7,261 76 23 47 0 77 0 71 0 2,567 1,596 0 0 0 0 1998 7,763 93 38 35 0 703 0 3,168 1,537 0 0 0 0 1998 7,763 93 38 35 0 73 0 3,168 1,577 0 0 0 0 0 1998 7,763 93 38 35 0 73 0 2,688 1,415 0 0 0 0 1998 7,763 93 38 35 0 73 0 2,688 1,415 0 0 0 0 1990 7,763 93 38 35 0 73 0 2,268 1,415 0 0 0 0 1990 7,763 93 38 36 0 73 0 2,268 1,415 0 0 0 0 1990 7,763 93 38 36 0 73 0 2,268 1,415 0 0 0 0 0 1990 7,763 93 38 36 0 73 0 2,268 1,415 0 0 0 0 0 1990 7,768 100 2,000 34 0 2,125 0 2,514 1,200 0 0 0 0 0 0 0 2002 7,885 110 20 3 36 0 49 0 2,228 1,127 0 0 85 2003 7,889 116 7 27 0 34 0 1,767 1,066 0 0 0 0 85 2004 8,502 137 148 22 0 0 170 0 1,615 1,298 0 0 0 188 2006 8,622 148 5 38 0 43 0 1,702 1,263 0 0 0 82 0 0 188 2006 3,488 167 11 26 0 37 0 2,088 1,344 0 0 9 1 2007 3,447 171 3 22 0 25 0 25 0 2,003 1,253 44 0 0 9 1 1995 46 11 1 26 0 37 0 2,088 1,344 0 0 9 1 1995 46 11 1 26 0 37 0 2,088 1,344 0 0 9 1 1995 56 6 6 0 3 (8) 0 0 0 15 4 0 0 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1975	4,435 4,064	25 28	1,256	58 22	0	1,314 2.453		1,690		0	•		0	
1990 7,270 24 444 91 0 535 0 1,735 761 0 0 2 1996 7,270 24 444 91 0 535 0 1,735 761 0 0 2 1996 7,084 62 26 27 0 54 0 1,942 1,555 0 0 0 0 1996 7,424 71 147 35 0 182 0 2,164 1,555 0 0 0 0 1997 7,281 76 23 47 0 77 0 77 0 2,567 1,596 0 0 0 0 1998 7,961 84 68 33 0 0 103 0 3,582 1,597 0 0 0 0 1998 7,962 84 68 33 0 0 103 0 3,582 1,597 0 0 0 0 1998 7,962 84 68 38 0 119 0 2,582 1,597 0 0 0 0 0 1998 7,962 84 68 38 0 0 103 0 3,582 1,597 0 0 0 0 0 1998 7,962 84 68 38 0 0 103 0 3,582 1,597 0 0 0 0 0 1998 7,962 84 68 38 0 119 13 0 3,582 1,597 0 0 0 0 0 0 0 1998 7,962 84 68 38 0 119 19 2,090 34 0 0 2,125 0 2,514 1,200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1985	5 427			54	•	104	-				0			
1995 7,084 62 26 27 0 54 0 1,942 1,554 0 0 0 0 0 1996 7,424 71 147 35 0 182 0 2,164 1,555 0 0 0 0 0 1997 7,261 76 23 47 0 71 0 2,587 1,596 0 0 0 0 1998 7,763 90 38 35 0 73 0 2,828 1,415 0 0 0 0 0 1998 7,763 90 38 35 0 73 0 2,828 1,415 0 0 0 0 0 1990 7,763 90 38 35 0 73 0 2,828 1,415 0 0 0 0 0 1990 8,895 110 12 0 2,050 34 0 0 2,45 0 0 2,43 1,770 0 0 0 0 0 1990 110 12 3 36 0 2,43 0 0 2,43 1,170 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1990	7,270		444	91	ŏ	535	•	1,735			ő			
1997 7,261 76 23 47 0 71 0 2,587 1,596 0 0 0 0 1998 7,763 90 38 35 0 73 0 2,828 1,415 0 0 0 0 1999 7,763 90 38 35 0 73 0 2,828 1,415 0 0 0 0 1,000 0 0 0 0 0 0 0 0 0	1995		62	26	27	•	54	-	1,942		1,554	0		0	
1998	1996	7,424			35	0		•	2,164		1,555	0		0	
2000 8,634 121 72 48 0 119 0 2,429 1,371 0 0 0 2001 8,190 109 2,090 34 0 2,125 0 2,514 1,207 0 0 0 0 0 85 2003 7,865 110 13 36 0 49 0 2,268 1,127 0 0 85 2004 8,502 137 148 22 0 170 0 1,615 1,298 0 0 188 2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 91 2007 3,41 1 26 0 37 0 2,058 1,344 0 0 91 2006	1997	7,261	76	23	47	0		0	2,587		1,596	0		0	
2000 8,634 121 72 48 0 119 0 2,429 1,371 0 0 0 2001 8,190 109 2,090 34 0 2,125 0 2,514 1,207 0 0 0 0 0 85 2003 7,865 110 13 36 0 49 0 2,268 1,127 0 0 85 2004 8,502 137 148 22 0 170 0 1,615 1,298 0 0 188 2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 91 2007 3,41 1 26 0 37 0 2,058 1,344 0 0 91 2006	1998	7,961	84	04 38	38 35	0	73	0			1,537			0	
2001 8,190 109 2,090 34 0 2,125 0 2,514 1,200 0 0 0 0 0 2002 7,889 116 7 27 0 34 0 1,757 1,066 0 0 0 85 2003 7,889 116 7 27 0 34 0 1,757 1,066 0 0 0 188 2005 8,622 148 5 38 0 43 0 1,702 1,263 0 0 0 188 2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 0 91 2007 3,447 171 3 22 0 25 0 2,003 1,253 44 0 300	2000	8 634	121	72	48	0		0			1,413	•	•	0	
2002 7,885 110 13 36 0 49 0 2,288 1,127 0 0 0 85 2003 7,889 116 7 7 7 0 0 34 0 1,757 2004 8,502 137 148 22 0 170 0 1,615 2005 8,622 148 5 38 0 43 0 1,702 2006 3,488 167 11 26 0 37 0 2,058 2007 3,447 171 3 22 0 25 0 2,003 2007 3,447 171 3 22 0 25 0 2008 3,488 167 11 26 0 37 0 2,058 2009 3,487 171 3 22 0 25 0 2,003 2009 3,487 171 3 22 0 25 0 2,003 2009 3,487 171 3 22 0 25 0 2000 2,003 2000 3,488 167 11 26 0 37 0 2000 3,447 171 3 22 0 25 0 2000 3,447 171 3 22 0 25 0 2000 2,003 2000 3,488 167 11 26 0 37 0 2000 3,447 171 3 22 0 25 0 2000 2,003 2000 3,447 171 3 22 0 25 0 2000 2,003 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 3,488 167 11 26 0 37 0 2000 4,40 27,4 0.5 0.1 0.0 0.4 0.0 16.7 0.0 0.0 0.0 0.0 0.0 0.0 2000 3,57 29.5 15.3 0.1 0.0 0.4 0.0 17.3 0.0 0.0 0.0 0.0 0.0 0.0 2000 1940 27.4 0.5 0.5 0.1 0.0 15.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 2000 161.3 25.1 2.8 0.5 0.0 3.3 0.0 18.0 0.0 16.1 0.0 0.0 0.0 0.0 2000 1940 27.5 2.8 0.5 0.3 0.0 0.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 0.0 2000 1940 27.5 0.5 0.1 0.3 0.0 0.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 0.0 2000 1940 17.3 18.7 0.1 0.1 0.0 0.0 0.0 0.0 0.0 2.5 0.0 0.0 0.0 0.0 2000 1940 17.3 18.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2	2001	8.190		2.090	34	ŏ	2.125	•	2.514		1.200	•		ŏ	
2004 8,502 137 148 22 0 170 0 1,615 1,298 0 0 188 2005 8,622 148 5 38 0 43 0 1,702 1,263 0 0 0 185 2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 0 91 2007 3,447 171 3 22 0 25 0 2,003 1,253 44 0 300 **Trillion Btu** **Trill	2002	7,885	110	13	36	0	49	0	2,268		1,127	•		_ 85	
2005 8,622 148 5 38 0 43 0 1,702 1,263 0 0 0 82,45 2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 0 91 2007 3,447 171 3 22 0 25 0 2,003 1,253 44 0 300 2007 3,447 171 3 22 0 0 25 0 2,003 1,253 44 0 300 2007 3,447 171 3 22 0 0 25 0 2,003 1,253 44 0 300 2007 3,447 171 3 22 0 0 25 0 2,003 1,253 44 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 2000 1,253 44 0 0 300 200 0 0,0 0 0,0 0 0,0 0 0,0 0 0,0 0 0,0 0 0,0 0 0,0 0	2003				27	0		•	1,757		1,066	•		R 221	
2006 3,488 167 11 26 0 37 0 2,058 1,344 0 0 9 91 2007 3,447 171 3 22 0 25 0 2,003 1,253 44 0 300 **Trillion Btu** **Trillion Btu** **Trillion Btu** **Trillion Btu** **Trillion Btu** 1960 0.0 6.6 0.3 (s) 0.0 0.3 0.0 21.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 28.0 1.965 4.6 14.1 0.3 (s) 0.0 0.4 0.0 16.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 35.7 1970 14.0 27.4 0.5 0.1 0.0 0.6 0.0 17.3 0.0 0.0 0.0 0.0 0.0 0.0 59.2 1975 99.3 26.8 7.9 0.3 0.0 8.2 0.0 17.6 0.0 0.0 0.0 0.0 0.0 0.0 151.9 1980 89.7 29.5 15.3 0.1 0.0 15.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 0.0 151.9 1980 89.7 29.5 15.3 0.1 0.0 15.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 151.3 1985 123.6 8.6 0.3 0.3 0.0 0.6 0.0 45.4 0.0 24.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 151.3 1985 123.6 8.6 0.3 0.3 0.0 0.6 0.0 45.4 0.0 0.0 16.1 0.0 0.0 0.0 0.1 172.3 1990 161.3 25.1 2.8 0.5 0.0 3.3 0.0 16.0 0.0 18.0 0.0 16.1 0.0 0.0 0.0 (s) 123.3 1995 156.7 63.7 0.2 0.2 0.0 0.3 0.0 20.0 0.0 18.0 0.0 16.1 0.0 0.0 0.0 (s) 273.2 1997 162.4 77.7 0.1 0.3 0.0 0.1 1.0 0.2 2.4 0.0 32.5 0.0 0.0 0.0 0.0 273.2 1997 162.4 77.7 0.1 0.3 0.0 0.4 0.0 26.4 0.0 32.5 0.0 0.0 0.0 0.0 273.2 1999 174.6 93.9 0.2 0.0 0.1 1.0 0.2 2.4 0.0 32.5 0.0 0.0 0.0 0.0 273.2 1999 174.6 93.9 0.2 0.0 0.0 0.4 0.0 26.4 0.0 32.5 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 0.0 32.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2004	8,502	137	148	22	0		•	1,615		1,298	•		188	
Trillion Btu Tril	2005	8,622	148		38	0		•	1,702		1,263				
1960 0.0 6.6 0.3 (s) 0.0 0.3 0.0 21.2 0.0 0.0 0.0 0.0 0.0 0.0 28.0	2007	3,447	171	3	22		25		2,003		1,253			300	
1965 4.6 14.1 0.3 (s) 0.0 0.4 0.0 16.7 0.0<								Trillion E	Stu .						
1970 14.0 27.4 0.5 0.1 0.0 0.6 0.0 17.3 0.0	1960	0.0		0.3	(s)	0.0	0.3						0.0	0.0	
1975 99.3 26.8 7.9 0.3 0.0 8.2 0.0 17.6 0.0	1965		14.1	0.3	(s)									0.0	35.7
1980 89.7 29.5 15.3 0.1 0.0 15.4 0.0 24.6 0.0 0	1970	14.0		0.5	0.1		0.6							0.0	
1985 123.6 8.6 0.3 0.3 0.0 0.6 0.0 45.4 0.0 0.0 0.0 0.0 0.1 178.3 1990 161.3 25.1 2.8 0.5 0.0 3.3 0.0 18.0 0.0 16.1 0.0 <	1975	99.3	26.8	7.9		0.0								0.0	151.9
1990 161.3 25.1 2.8 0.5 0.0 3.3 0.0 18.0 0.0 16.1 0.0 0.0 0.0 223.8 1995 156.7 63.7 0.2 0.2 0.0 0.3 0.0 20.0 0.0 32.5 0.0 0.0 0.0 273.2 1996 165.4 73.5 0.9 0.2 0.0 1.1 0.0 22.4 0.0 32.6 0.0 0.0 0.0 295.0 1997 162.4 77.7 0.1 0.3 0.0 0.4 0.0 26.4 0.0 33.5 0.0 0.0 0.0 30.4 1998 178.3 87.1 0.4 0.2 0.0 0.6 0.0 32.3 0.0 32.3 0.0 0.0 0.0 30.4 1999 174.6 93.9 0.2 0.2 0.0 0.4 0.0 28.9 0.0 32.7 0.0 0.0 0.0 327.6	1900			13.3	0.1	0.0	15.4		24.0 45.4						159.5
1995 156.7 63.7 0.2 0.2 0.0 0.3 0.0 20.0 0.0 32.5 0.0 0.0 0.0 0.0 273.2 1996 165.4 73.5 0.9 0.2 0.0 1.1 0.0 22.4 0.0 32.5 0.0 0.0 0.0 0.0 295.0 1997 162.4 77.7 0.1 0.3 0.0 0.4 0.0 26.4 0.0 33.5 0.0 0.0 0.0 30.4 1998 178.3 87.1 0.4 0.2 0.0 0.6 0.0 32.3 0.0 0.0 0.0 30.7 1999 174.6 93.9 0.2 0.2 0.0 0.4 0.0 28.9 0.0 29.7 0.0 0.0 0.0 327.6 2000 194.0 123.9 0.5 0.3 0.0 0.7 0.0 24.8 0.0 29.7 0.0 0.0 0.0 372.6	1990	161.3		2.8	0.5										
1996 165.4 73.5 0.9 0.2 0.0 1.1 0.0 22.4 0.0 32.6 0.0 0.0 0.0 295.0 1997 162.4 77.7 0.1 0.3 0.0 0.4 0.0 26.4 0.0 33.5 0.0 0.0 0.0 0.0 300.4 1998 178.3 87.1 0.4 0.2 0.0 0.6 0.0 32.3 0.0 0.0 0.0 300.7 1999 174.6 93.9 0.2 0.2 0.0 0.4 0.0 28.9 0.0 29.7 0.0 0.0 0.0 327.6 2000 194.0 123.9 0.5 0.3 0.0 0.7 0.0 24.8 0.0 28.8 0.0 0.0 0.0 372.2 2001 183.7 111.3 13.1 0.2 0.0 13.3 0.0 26.0 0.0 25.2 0.0 0.0 0.3 319.6	1995	156.7	63.7	0.2	0.2	0.0	0.3				32.5			0.0	273.2
1998 178.3 87.1 0.4 0.2 0.0 0.6 0.0 32.3 0.0 32.3 0.0 0.0 0.0 0.0 330.7 1999 174.6 93.9 0.2 0.2 0.0 0.4 0.0 28.9 0.0 29.7 0.0 0.0 0.0 0.0 327.2 2000 194.0 123.9 0.5 0.3 0.0 0.7 0.0 24.8 0.0 28.8 0.0 0.0 0.0 0.0 37.2 2001 183.7 111.3 13.1 0.2 0.0 13.3 0.0 26.0 0.0 25.2 0.0 0.0 0.0 0.0 359.6 2002 160.5 111.8 0.1 0.2 0.0 0.3 0.0 23.1 0.0 23.7 0.0 0.0 0.3 319.6 2003 177.3 118.7 (\$\$\$) 0.2 0.0 0.2 0.0 18.0 0.0 22.4 0.0 0.0 8.8 837.3 2004 188.7 P141.2 <	1996	165.4	73.5	0.9	0.2	0.0	1.1	0.0	22.4	0.0	32.6	0.0	0.0	0.0	295.0
1999 174.6 93.9 0.2 0.2 0.0 0.4 0.0 28.9 0.0 29.7 0.0 0.0 0.0 327.6 2000 194.0 123.9 0.5 0.3 0.0 0.7 0.0 24.8 0.0 28.8 0.0 0.0 0.0 0.0 372.6 2001 183.7 111.3 13.1 0.2 0.0 13.3 0.0 26.0 0.0 25.2 0.0 0.0 0.0 375.6 2002 160.5 111.8 0.1 0.2 0.0 0.3 0.0 23.1 0.0 23.7 0.0 0.0 0.3 319.6 2003 177.3 118.7 (s) 0.2 0.0 0.2 0.0 18.0 0.0 22.4 0.0 0.0 R.8 R337.3 2004 188.7 R141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.6<	1997	162.4	77.7		0.3		0.4		26.4		33.5			0.0	300.4
2000 194.0 123.9 0.5 0.3 0.0 0.7 0.0 24.8 0.0 28.8 0.0 0.0 0.0 0.0 372.2 2001 183.7 111.3 13.1 0.2 0.0 13.3 0.0 26.0 0.0 25.2 0.0 0.0 0.0 359.6 2002 160.5 111.8 0.1 0.2 0.0 0.3 0.0 23.1 0.0 23.7 0.0 0.0 0.3 319.6 2003 177.3 118.7 (s) 0.2 0.0 0.2 0.0 18.0 0.0 22.4 0.0 0.0 R.337.3 2004 188.7 R141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.6 375.0 2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 0.8 8310.0 2006 79.5 171.8 0.1 0.1 0.0 0.2	1998	178.3	87.1	0.4	0.2	0.0	0.6		32.3	0.0	32.3		0.0	0.0	330.7
2001 183.7 111.3 13.1 0.2 0.0 13.3 0.0 26.0 0.0 25.2 0.0 0.0 0.0 359.6 2002 160.5 111.8 0.1 0.2 0.0 0.3 0.0 23.1 0.0 23.7 0.0 0.0 0.3 319.6 2003 177.3 118.7 (s) 0.2 0.0 0.2 0.0 18.0 0.0 22.4 0.0 0.0 R0.8 R337.3 2004 188.7 R141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.6 875.0 2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 0.0 R0.8 8301.0 2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.3 300.5				0.2										0.0	327.6
2002 160.5 111.8 0.1 0.2 0.0 0.3 0.0 23.1 0.0 23.7 0.0 0.0 0.3 319.6 2003 177.3 118.7 (s) 0.2 0.0 0.2 0.0 18.0 0.0 22.4 0.0 0.0 R0.8 R37.3 2004 188.7 R141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.6 875.0 2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 R0.8 R391.0 2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.3 300.5	2000	194.0 193.7			0.3	0.0		0.0	24.8	0.0	28.8			0.0	372.2
2004 188.7 R 141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.6 375.0 2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 R 0.8 R 391.0 2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.3 300.5	2001	160.7	111.3	0.1	0.2	0.0	13.3		20.0	0.0	23.2		0.0	0.0	319.6
2004 188.7 R 141.2 0.9 0.1 0.0 1.1 0.0 16.2 0.0 27.3 0.0 0.0 0.0 0.6 375.0 2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 R 0.8 R 391.0 2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.0 0.3 300.5	2003		118.7	(s)	0.2						22.4			R 0.8	R 337.3
2005 193.2 153.1 (s) 0.2 0.0 0.3 0.0 17.0 0.0 26.5 0.0 0.0 ^R 0.8 ^R 391.0 2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.3 300.5	2004	188.7	R 141.2	0.9	0.1	0.0	1.1	0.0	16.2	0.0	27.3	0.0	0.0	0.6	_ 375.0
2006 79.5 171.8 0.1 0.1 0.0 0.2 0.0 20.4 0.0 28.2 0.0 0.0 0.3 300.5	2005	193.2	153.1	(s)	0.2	0.0	0.3	0.0	17.0	0.0	26.5	0.0	0.0	R 0.8	R 391.0
2007 78.2 176.6 (s) 0.1 0.0 0.1 0.0 19.8 0.0 26.3 0.4 0.0 1.0 302.5	2006	79.5	171.8	0.1			0.2				28.2			0.3	300.5
	2007	78.2	176.6	(s)	0.1	0.0	0.1	0.0	19.8	0.0	26.3	0.4	0.0	1.0	302.5

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, New Hampshire

						Petroleum				Marian	II. de	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	216	3	4,590	1,151	532	4,940	2,195	1,449	14,856	0	1,373					
1965 1970	407 992	4	5,912 7,681	1,097 1,053	657 829	5,773 8,122	2,416 5,520	1,341 1,597	17,195 24,802	0	1,053 1,239					
1975	982	8	7.194	916	1,436	9,373	4,611	1,177	24,707	0	1,259					
1980	1,093	9	5,820	777	1,280	9,382	5,692	1,150	24,103	0	1,027					
1985 1990	1,481 1,186	11 14	5,754 7,236	521 647	1,586 2,122	10,340 11,778	3,442 5,235	2,009 1,716	23,652 28,733	0 4,081	1,131 1,881					
1995	1,355	20	7,534	333	2,285	13,495	3,295	989	27,932	8,379	1,370					
1996	1,377	19	7,808	360	2,466	13,939	2,891	3,580	31,045	9,845	1,919					
1997 1998	1,705 1,469	21 19	7,802 8,335	408 R 610	2,183 2,447	14,666 15,086	3,115 3,339	3,708 3,686	R 31,882 33,503	7,979 8,387	1,622 1,597					
1999	1,409	20	8,835	820	2,447	15,659	3,347	3,432	34.498	8.676	1,411					
2000	1,677	25	9,403	977	2,773	15.952	1,425	3,508	34,037	7,922	1,427					
2001 2002	1,537 1,531	23 25	9,340 10,257	880 839	2,449 2,344	16,102 16,737	1,496 1,713	845 901	31,112 32,791	8,693 9,295	991 1,141					
2002	1,597	54	10,257	942	3,136	16,893	3,993	1,532	36,597	9,295	1,141					
2004	1,662	61	10,914	904	2,875	17,074	4,341	1,608	37,717	10,178	1,316					
2005 2006	1,727 1,638	70	9,785 8,837	452 162	2,891 3,015	16,908 17,326	3,466 1,474	1,878 1,308	35,381 32,122	9,456 9,398	1,799 1,529					
2007	1,628	63 62	8,226	152	3,308	17,708	1,388	1,254	32,037	10,764	1,265					
								Trillion Btu								
1960 1965	5.4 11.2	3.0 4.1	26.7 34.4	6.2 5.9	2.1 2.6	25.9 30.3	13.8 15.2	8.7 8.0	83.5 96.5	0.0 0.0	14.8 11.0	10.9 11.0	0.0 0.0	-5.2 -2.4	0.0 0.0	112.3 131.4
1970	27.1	6.8	44.7	5.7	3.1	42.7	34.7	9.6	140.5	0.0	13.0	12.3	0.0	-12.5	0.0	187.2
1975	26.2	7.7	41.9	4.9	5.3	49.2	29.0	7.1	137.5	0.0	13.0	12.8	0.0	4.8	0.0	202.1
1980 1985	29.3 39.7	R 9.7 R 10.9	33.9 33.5	4.2 2.8	4.7 5.7	49.3 54.3	35.8 21.6	6.8 12.2	134.6 130.2	0.0 0.0	10.7 11.8	21.7 22.0	0.0	4.3 16.9	-0.8 2.5	209.5 234.0
1990	31.5	R 14.5	42.2	3.6	7.7	61.9	32.9	10.9	159.1	43.2	19.6	27.2	(s)	-30.7	-0.1	264.3
1995	35.6	R 20.1	43.9	1.9	8.3	70.4	20.7	5.9	151.1	88.0	14.1	25.3	(s)	-67.0	4.3	271.6
1996	36.1 44.5	R 19.4 R 21.2	45.5	2.0	8.9	72.7	18.2	20.2	167.5	103.4	19.8	27.7	(s)	-82.9	4.4	295.5
1997 1998	44.5 38.6	R 19.3	45.4 48.6	2.3 3.5	7.9 8.8	76.5 78.6	19.6 21.0	20.7 20.5	172.4 181.0	83.7 88.0	16.6 16.3	25.7 24.3	(S)	-72.7 -72.7	5.7 5.9	297.2 300.7
1999	35.4	R 20.5	51.5	4.6	8.7	81.6	21.0	19.0	186.4	90.7	14.4	24.5	(s)	-66.1	6.5	312.4
2000	44.0	R 26.4	54.8	5.5	10.0	83.1	9.0	19.4	181.8	82.6	14.6	24.1	(s)	-51.6	5.2	327.2
2001 2002	40.1 39.8	24.8 26.4	54.4 59.7	5.0 4.8	8.9 8.5	83.9 87.2	9.4 10.8	5.0 5.5	166.5 176.4	90.8 97.0	10.2 11.6	R 19.9 17.3	(s) (s)	-48.4 -55.8	2.5 1.0	R 306.6 R 313.8
2002	39.0 41.6	54 1	58.8	4.0 5.3	o.ə 11.4	88.0	25.1	9.5	198.2	97.0	13.6	R 16.3	(S)	-55.6 -94.6	0.4	R 326 5
2004	43.4	R 64 5	63.6	5.1	10.4	89.0	27.3	9.9	205.4	106.1	13.2	R 21.7	0.1	-115.7	1.4	R 340.1
2005 2006	44.2 44.8	R 73.0 R 64.8	57.0 51.5	2.6	10.5 10.9	88.2 90.4	21.8	11.6	191.7 171.0	98.7 98.1	18.0 15.2	R 21.6 R 16.3	0.1	-114.4 -99.7	1.6	R 334.4 R 312.0
2006	44.8 44.9	64.6	51.5 47.9	0.9 0.9	11.9	90.4 92.4	9.3 8.7	8.0 7.8	169.6	112.9	12.5	20.5	0.1 0.1	-99.7 -112.9	1.5 2.1	314.2
			•													· -

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Hampshire

				Petro	leum		Biomass			D			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	12 7	2 3	3,622 4,724	803	412 460	4,837 5,894	186			619			
1960 1965	7	3	4,724	710	460	5,894	156			868			
1970	4	4	6,039	705	474	7,218	136			1,476			
1975	1	4	5,709	406	692	6,807 4,430 5,329	159			2,148			
1980 1985	1	4	3,519 3,619	322 855	588 856	4,430	372 268			2,478 2,851			
1985	2	5 6	4,034	933	1,449	5,329 5,717	184			3,444			
1990 1995 1996 1997	1	7	4,448	233 331	1,662	6 441	201			3,364			
1996	1	7	4,643	393	1.834	6,441 6,870 6,718	201 209 152			3,429			
1997	1	7	4,635	393 476	1,607	6.718	152			3,389			
1998 1999	(s)	6	4.319	620 377	1.803	6,742 6,788	135 142			3,401			
1999	(s)	7	4.530	377	1.880	6,788	142			3,640			
2000	(s)	7	4,577 4,523	393 353	1,799 1,769	6.768	153			3,656			
2001	(s)	7	4,523	353	1,769	6,645	121			3,789			
2002	(s)	/	4,164	262	1,773	6,199	123			4,003			
2003 2004	(S)	8 7	4,962 5,336	415 523	2,456 2,254	7,833 8,113	129			4,252 4,282			
2004	(S)	/ Q	4,795	523 561	2,204	0,113 7.457	R 05			4,202 4,495			
2006	(s)	7	4,793	434	2,102 R 2,028	7,457 R 6,700	132 R 95 R 86			4,401			
2007	(s)	7	4.068	297	2,474	6.839	95			4,493			
			,		· · · · · · · · · · · · · · · · · · ·		rillion Btu						
4000	0.0	4.0	04.4	4.0	4.7	07.0	0.7	0.0	0.0	0.4	05.0	F 0	40.4
1960 1965	0.3	1.8 2.7	21.1 27.5	4.6 4.0	1.7 1.8	27.3	3.7 3.1	0.0 0.0	0.0 0.0	2.1 3.0	35.2 42.3	5.2 7.1	40.4 49.4
1900	0.2 0.1	3.7	35.2	4.0	1.0	33.4 41.0	2.7	0.0	0.0	5.0	52.5	12.2	64.7
1970 1975 1980 1985	(s)	3.8	33.3	2.3	1.8 2.6	38.1	3.2	0.0	0.0	7.3	52.4	17.6	70.1
1980	(s)	3.8 R 4.4 R 4.8	20.5	1.8	2.2	24.5	7.4	0.0	0.0	8.5	44.5	20.4	70.1 64.8 71.1
1985		R 4.8	21.1	1.8 4.8	2.2 3.1	24.5 29.0	7.4 5.4	0.0 0.0	0.0 0.0	8.5 9.7	44.5 48.7	20.4 22.4	71.1
1990 1995	(s) 0.1	R 6.0 R 6.6	23.5 25.9	1.3	5.3	30.1 33.8	3.7	0.0	(s) (s)	11.8	51.5	27.2	78.7 82.0
1995	(s)	R 6.6	25.9	1.9	6.0	33.8	4.0	0.0	(s)	11.5	55.9	26.1	82.0
1996 1997	(s)	7.1	27.0	2.2	6.6	35.9	4.2	0.0	(s)	11.7	58.9	26.6	85.5
1997	(s)	7.0	27.0	2.7	5.8	35.5	3.0	0.0	(s)	11.6	57.1	26.2	83.3
1998	(s)	6.3 R 6.7	25.2	3.5	6.5	35.2	2.7	0.0	(s)	11.6	55.8	26.3	82.2 85.7
1999	(s)	R 7.7	26.4	2.1	6.8	35.3	2.8	(s)	(s)	12.4	57.3	28.4	85.7
2000 2001	(s) (s)	`` 1.1 7.2	26.7 26.3	2.2 2.0	6.5 6.4	35.4 34.7	3.1 2.4	(s)	(s) (s)	12.5 12.9	58.6 57.3	28.4 28.8	87.0 86.2
2001	(S)	7.2 R 7.4	24.3	1.5	6.4	32.1	2.5	(s)	(s)	13.7	55.6	30.4	86.1
2002	(s)	7.5	28.9	2.4	8.9	32.1 40.2	2.6	(s)	(s)	14.5	64.8	30.4 32.0	86.1 96.8
2004	(s)	7.6	31.1	3.0	8.2	42.2	2.6	(s)	(s)	14.6	67 1	32.3	99.4
2005	(s)	7.6 R 8.0	27.9	3.0 3.2	7.6	38.7	R 1.9	(s)	(s) (s) 0.1	15.3	R 64.0	33.5	R 97.5
2006	(s)	6.9 7.5	24.7 23.7	2.5 1.7	R 7.3	R 34.5	2.6 R 1.9 R 1.7	(s)	0.1	15.0	R 64.0 R 58.1 59.1	32.5	99.4 R 97.5 R 90.6 92.2
2007	(s)	7.5	23.7	1.7	8.9	34.3	1.9	(s)	0.1	15.3	59.1	33.1	92.2

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Hampshire

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	8	1	376	30	73	37	18	534	0			371			
1965	6	1	491	26	81	43	26	667	0			468			
1970	3	2	628	26	84	46	71	854	0			699			
1975	3	3	593	15	122	52	56	839	0			883			
1980 1985	2 6	4 5	1,044 615	9 41	104 151	116 126	372 87	1,645 1,020	0			1,110 1,582			
1985	10	5 5	1,415	25	256	74	648	2,417	0			2,117			
1995	7	7	1,129	44	293	11	436	1,912	0			3,357			
1996	7	7	1,320	42	324	11	447	2.144	0			3,373			
1997	5	7	1,325	58	284	11	474	2,151	0			3,407			
1998	4	7	1.235	57	318	11	277	1,898	0			3,478			
1999	3	7	1,435	42	332	11	126	1,945	0			3,732			
2000	4	8	1,903	47	317	14	125	2,407	0			3,905			
2001	4	7	1,746	53	312	20	82	2,213	0			4,044			
2002 2003	4	9 10	1,547 1,949	35 43	313	11	123 153	2,029 2,590	0			4,159			
2003	2 2	9	1,835	43 46	433 398	11 12	810	2,590 3,101	0			4,318 4,363			
2004	4	10	1,538	62	371	17	1,251	3,238	0			4,576			
2006	4	8	1,134	46	R 358	129	409	R 2,076	0			4,563			
2007	3	9	1,112	39	437	47	442	2,077	Ő			4,570			
								Trillion Btu							
1960	0.2	0.5	2.2	0.2	0.3	0.2	0.1	3.0	0.0	0.1	0.0	1.3	5.0	3.1	8.2
1965	0.1	0.8	2.9	0.1	0.3	0.2	0.2	3.7	0.0	0.1	0.0	1.6	6.3	3.8	10.1
1970	0.1	2.3	3.7	0.1	0.3	0.2	0.4	4.8	0.0	0.1	0.0	2.4	9.6	5.8	15.4
1975 1980	0.1	2.6 R 4.2	3.5 6.1	0.1 0.1	0.5	0.3 0.6	0.4	4.6	0.0	0.1 0.2	0.0	3.0	10.4	7.2	17.7 26.5
1980	0.1 0.1	R 5.1	3.6	0.1	0.4 0.5	0.6	2.3 0.5	9.5 5.6	0.0 0.0	0.2	0.0 0.0	3.8 5.4	17.3 16.1	9.1 12.4	26.5 28.5
1905	0.1	5.1	3.6 8.2	0.2	0.5	0.7	4.1	13.8	0.0	0.1	0.0	7.2	26.7	16.7	43.4
1995	0.2	6.6	6.6	0.1	1.1	0.4	2.7	10.7	0.0	0.4	0.0	11.5	29.4	26.0	55.4
1996	0.2	7.2	7.7	0.2	1.2	0.1	2.8	12.0	0.0	0.6	0.0	11.5	31.4	26.2	57.6
1997	0.1	R 7.6	7.7	0.3	1.0	0.1	3.0	12.1	0.0	0.5	0.0	11.6	31.9	26.3	58.2
1998	0.1	R 6 9	7.2	0.3	1.2	0.1	1.7	10.5	0.0	0.4	0.0	11.9	29.7	26.9	56.6
1999	0.1	R 7.3	8.4	0.2	1.2	0.1	0.8	10.6	0.0	0.5	0.0	12.7	31.1	29.1	60.3
2000	0.1	R 8.8	11.1	0.3	1.1	0.1	0.8	13.4	0.0	0.5	0.0	13.3	36.0	30.3	66.3
2001	0.1	7.8	10.2	0.3	1.1	0.1	0.5	12.2	0.0	0.4	0.0	13.8	34.3	30.7	65.1
2002	0.1	9.3 9.2	9.0	0.2	1.1	0.1	0.8	11.2	0.0	0.4	0.0	14.2	35.2	31.6	66.8
2003	(s) (s)	9.2	11.4	0.2	1.6	0.1	1.0	14.2	0.0	0.5	0.0	14.7	38.6	32.5	71.1
2004 2005	(s) 0.1	9.6	10.7 9.0	0.3 0.4	1.4 1.3	0.1	5.1 7.9	17.5 18.6	0.0 0.0	0.4 R 0.3	0.0 0.0	14.9 15.6	42.5 R 44.6	32.9 34.1	75.4 R 78.8
2005	0.1	10.0 8.7	9.0 6.6	0.4	1.3	0.1 0.7	7.9 2.6	18.6	0.0	R 0.3	0.0	15.6	R 36.0	34.1	R 69.7
2006	0.1	9.5	6.5	0.3	1.6	0.7	2.8	11.4	0.0	0.3	0.0	15.6	36.7	33.6	70.4
	0.1	0.0	0.0	U. <u>L</u>	1.0	V. <u>L</u>	2.0	11.0	0.0	0.0	0.0	10.0	00.1	00.0	70.7

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Hampshire

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	100	1	280	47	66	727	524	1,644	239			596			
1965 1970	36	1	421 511	114 267	53 38	1,046 2,842	498 774	2,132 4,432	170 184			902 1,452			
1970	9	1	460	617	30	2,042	675	4,432	178			1,432			
1980	10	1	558	514	27	923	719	2,741	155			2,406			
1985	40	1	428	556	61	1,024	1,034	3,104	155			2,974			
1990	28	3	517	402	55	522	1,375	2,871	175			3,418			
1995	1	5	433	312		1,092	534	2,479	169			2,286			
1996	0		393	294	108	957	3,070	4,821	206			2,344			
1997	0		311	282	116	829	3,091	4,629	197			2,372			
1998 1999	0	6	374 469	323 194	74 151	715 592	2,926 2,922	4,413 4,328	199 200			2,425 2,516			
2000	0		580	656	161	546	2,922	4,326	183			2,516			
2001	0		635	368	298	619	318	2,238	93			2,483			
2002	ő	8	619	216	318	493	498	2,145	53			2,222			
2003	0		724	240		384	978	2,670	162			2,403			
2004	0		775	215		433	921	2.708	6			2,328			
2005	0		783	_ 409	349	144	1,134	2,819 R 2,963	8			2,174			
2006	0	6	613	R 618	360	642	730	K 2,963	5			2,131			
2007	0	6	490	390	188	408	819	2,296	4			2,173			
							Tr	illion Btu							
1960	2.5	0.7	1.6	0.2	0.3	4.6	3.4	10.2	2.6	7.1	0.0		25.0	5.0	30.0
1965	0.9	0.7	2.5	0.5		6.6	3.2	13.0	1.8	7.8	0.0		27.2	7.3	34.6
1970 1975	0.2 0.1	0.8 _ 1.1	3.0 2.7	1.0 2.3		17.9 14.2	4.9 4.3	26.9 23.7	1.9 1.9	9.5 9.6	0.0	5.0 6.3	44.4 42.6	12.0 15.1	56.4 57.7
1975	0.1	R 1.0	3.2	2.3 1.9	0.2	5.8	4.3	25.7 15.4	1.9	14.1	0.0	8.2	40.5	19.8	60.3
1985	1.0	0.9	2.5	2.0		6.4	6.7	17.9	1.6	16.5	0.0	10.1	48.1	23.4	71.4
1990	0.7	3.3	3.0	1.5		3.3	8.9	17.0	1.8	7.8	0.0	11.7	42.3	27.0	69.2
1995	(s) 0.0	R 4.7	2.5	1.1	0.6	6.9	3.4	14.4	1.7	7.0	0.0	7.8	35.7	17.7	53.4
1996		5.0	2.3	1.1	0.6	6.0	17.3	27.2	2.1	9.0	0.0	8.0	51.2	18.2	69.4
1997	0.0	5.9	1.8	1.0	0.6	5.2	17.2	25.9	2.0	7.9	0.0	8.1	49.8	18.3	68.1
1998	0.0	5.9	2.2	1.2	0.4	4.5	16.2	24.4	2.0	6.5	0.0	8.3	47.1	18.8	65.9
1999	0.0	R 6.0	2.7	0.7	0.8	3.7	16.1	24.0	2.0	6.5	0.0	8.6	47.1	19.6	66.7
2000	0.0	9.0	3.4	2.4	0.8	3.4	16.4	26.4	1.9	5.8 R 3.5	0.0	8.9	52.0 R 34.6	20.2	72.1 R 53.5
2001 2002	0.0	9.2 R 8.6	3.7 3.6	1.3 0.8	1.6 1.7	3.9 3.1	2.0 3.2	12.5 12.3	1.0 0.5	1.5	0.0	8.5 7.6	30.5	18.9 16.9	1 53.5 47.4
2002	0.0	7.5	4.2	0.6		2.4	5.2 6.4	15.7	1.7	R 1.4	0.0	8.2	R 34.4	18.1	R 52.5
2003	0.0	7.9	4.5	0.8			6.0	16.0	0.1	R 6 6	0.0	7.9	38.5	17.6	K 56.0
2005	0.0	7.0	4.6	1.5	1.8	0.9	7.4	16.2	0.1	R 6.8	0.0	7.4	R 37 5	16.2	R 53.7
2006	0.0	6.1	3.6	R 2.2	1.9	4.0	4.8	R 16.5	0.1	R 1.6	0.0	7.3	R 31.5	15.7	R 53.7 R 47.2
2007	0.0	6.4	2.9	1.4		2.6	5.4	13.2	(s)	1.6	0.0		28.6	16.0	44.6

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Hampshire

						Pe	troleum					D 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total e,f
1960 1965	2 (s)	0	18 46	209 178	1,151 1,097	(s)	74 60	4,837 5,677	49 1	6,338 7,061	0	0			
1970	(s)	0	38	319	1,053	5	55	8,038	69	9,577	0	0			
1975	(s)	0	33	418	903	5	48	9,290	9	10,706	0	Ö			
1980	0	(s)	40	687	771	74	60	9,240	49	10,921	0	0			
1985 1990	0	(s)	24 21	1,061 1,232	521 647	24	55 61	10,152 11,649	0 82	11,837 13,706	0	0			
1990	0	(s) (s)	21	1,232	333	15 18	59	13,376	0	15,280	0	0			
1996	0	(s)	20	1.424	360	15	57	13,820	5	15.700	0	0			
1997	0	(s)	23	1,494	408	10	60	14,540	3	R 16,538	0	0			
1998	0	(s)	20	2,376	R 610	2	63 64	15,001	6	R 18,078	0	0			
1999 2000	0	(s) (s)	28 24	2,365 2,313	820 977	(s) 0	64	15,496 15,777	0	18,773 19,154	0	0			
2000	0	(s)	64	2,313	880	0	63 57	15,777	0	19,184	0	0			
2002	Ö	(s)	50	3,870	839	41	57	16,408	Ŏ	21,265	Ő	Ő			
2003	0	(s)	44	2.399	942	7	52 53 53	16,537	0	19,982	0	0			
2004	0	(s)	65	2,797	904	8	53	16,698	0	20,525	0	0			
2005 2006	0	(s) (s)	69 46	2,534 2,597	452 162	10 11	53 52	16,542 16,836	0	19,660 19,703	R 334 R 808	0			
2007	0	(s)	46	2,471	152	8	53	17,473	0	20,203	1,019	0			
								Trillion Btu							
1960	(s) (s)	0.0	0.1	1.2 1.0	6.2 5.9	(s)	0.5	25.4	0.3	33.6	0.0	0.0	33.7	0.0	33.7
1965	(s)	0.0	0.2	1.0	5.9	(s)	0.4	29.8	(s) 0.4	37.3	0.0	0.0	37.3	0.0	37.3
1970 1975	(s) (s)	0.0 0.0	0.2 0.2	1.9 2.4	5.7 4.8	(s) (s)	0.3 0.3	42.2 48.8	0.4 0.1	50.7 56.6	0.0 0.0	0.0 0.0	50.7 56.6	0.0 0.0	50.7 56.6
1975	0.0	(s)	0.2	4.0	4.1	0.3	0.3	48.5	0.1	57.8	0.0	0.0	57.9	0.0	57.9
1985	0.0	0.1	0.1	6.2	2.8	0.1	0.3	53.3	0.0	62.9	0.0	0.0	62.9	0.0	62.9
1990	0.0	(s)	0.1	7.2	3.6	0.1	0.4	61.2	0.5	73.0	0.0	0.0	73.0	0.0	73.0
1995	0.0	(s)	0.1	8.6	1.9	0.1	0.4	69.8	0.0	80.8	0.0	0.0	80.8	0.0	80.8
1996 1997	0.0 0.0	0.1 0.2	0.1 0.1	8.3 8.7	2.0 2.3	0.1 (s)	0.3 0.4	72.1 75.8	(s) (s)	83.0 87.3	0.0 0.0	0.0 0.0	83.0 87.5	0.0 0.0	83.0 87.5
1998	0.0	(s)	0.1	13.8	3.5	(S)	0.4	78.2	(S)	96.0	0.0	0.0	96.0	0.0	96.0
1999	0.0	(s)	0.1	13.8	4.6	(s)	0.4	80.8	(s) (s)	99.7	0.0	0.0	99.7	0.0	99.7
2000	0.0	(s)	0.1	13.5	5.5	0.0	0.4	82.2	0.0	101.7	0.0	0.0	101.7	0.0	101.7
2001	0.0	(s)	0.3	14.0	5.0	0.0	0.3	82.2	0.0	101.9	0.0	0.0	101.9	0.0	101.9
2002 2003	0.0 0.0	0.1 (s)	0.3 0.2	22.5 14.0	4.8 5.3	0.1 (s)	0.3 0.3	85.5 86.1	0.0 0.0	113.5 106.0	0.0 0.0	0.0 0.0	113.6 106.0	0.0 0.0	113.6 106.0
2003	0.0	(S) (S)	0.2	16.3	5.3 5.1	(S) (S)	0.3	87.1	0.0	109.2	0.0	0.0	106.0	0.0	106.0
2005	0.0	(s)	0.3	14.8	2.6	(s)	0.3	86.3	0.0	104.3	R _{1.2}	0.0	104.4	0.0	104.4
2006	0.0	(s)	0.2	15.1	0.9	(s)	0.3	87.8	0.0	104.5	R 2.9	0.0	104.5	0.0	104.5
2007	0.0	(s)	0.2	14.4	0.9	(s)	0.3	91.2	0.0	107.0	3.6	0.0	107.1	0.0	107.1

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, New Hampshire

				Petro	leum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	18/aad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965 1970 1975	94	0	1,401	102	0	1,504	0	1,134		0	0	0	0	
965	358 975	0	1,343 2,537	98	0	1,441 2,721	0	882 1,056		0	0	0	0	
970	975	0	2,537	184	0	2,721	0	1,056		0	0	0	0	
975	972	(s)	2,279	27	0	2,306	0	1,073		0	0	0	0	
980	1,080	0	4,348	18	0	4,366	0	872		0	0	0	0	
985 990	1,433 1,146	0	2,332 3,983	31 39	0	2,363 4,022	0	975 1,706		0	0	0	893 37	
990 205	1,146	2	3,963 1,768	59 51	0	4,022 1,819	4,081 8,379	1,700		0	0	0	1,276	
995 996 997	1,369	(s)	1,482	28	0	1,510	9,845	1,201 1,713		0	0	0	1,325	
990	1,699	(3)	1,809	28 37	0	1,845	7,979	1,425		0	0	0	1,699	
998	1,465	(s)	2,341	32	0	2,372	8,387	1 398		Õ	Õ	ŏ	1,759	
998 999	1,341	(s)	2,628	32 36 30 38 57	Ö	2,664	8,676	1,398 1,212		Ŏ	Ŏ	ŏ	1,934	
000	1.673	1	754	30	Ō	784	7.922	1 244		Ö	Ō	Ö	1.585	
001	1,533	1	795	38	0	832	8,693	898		0	0	0	766	_
002	1,527	1	1,096		0	1,153	9,295	1.088		0	0	0	326	-
003	1,595	29	3,456	66	0	3,522	9,276	1,170		0	0	0	147	_
004	1,660	38	3,098	172	0	3,270	10,178	1.310		0	0	0	424	_
005	1,723	46 41	2,072	135	0	2,206	9,456	1,791		0	0	0	491	_
006	1,634 1,625	41	424	256	0	680 622	9,398	1,524		0	0	0	477	-
007	1,025	39	538	84	0	622	10,764	1,261		0	0	0	617	
							Trillion I	3tu						
960 965	2.4	0.0	8.8	0.6	0.0	9.4	0.0 0.0	12.2 9.2	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	24.0
200	10.0 26.7	0.0 0.0	8.4 16.0	0.6 1.1	0.0 0.0	9.0 17.0	0.0	9.2 11.1	0.0	0.0 0.0	0.0	0.0 0.0	0.0	28.2 54.9
970 975 980	26.0	0.0	14.3	0.2	0.0	17.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	54. 51.
180	29.0	0.2	27.3	0.1	0.0	27.4	0.0	9.1	0.0	0.0	0.0	0.0	0.0	65.
85	38.6	0.0	14.7	0.2	0.0	14.8	0.0	10.2	0.0	0.0	0.0	0.0	0.0 3.0	66.
85 90	30.5	0.0	25.0	0.2	0.0	25.3	43.2	17.7	15.3	0.0	0.0	0.0	0.1	132
95	35.4	2.3	11.1	0.3	0.0	11.4	88.0	12 4	13.7	0.0	0.0	0.0	4.4	167
95 196	35.4 35.9	2.3 (s) 0.6	9.3	0.3 0.2	0.0	9.5	103.4	17.7	14.0	0.0	0.0	0.0	4.4 4.5 5.8	185.
97	44.4	0.6	11.4	0.2	0.0	11.6	83.7	14.6	14.2	0.0	0.0	0.0	5.8	174
98 199	38.5 35.3	0.2 0.6	14.7	0.2 0.2	0.0	14.9 16.7	88.0	14.3 12.4	14.6	0.0	0.0	0.0	6.0 6.6	176 177
99	35.3		16.5	0.2	0.0	16.7	90.7	12.4	14.7	0.0	0.0	0.0	6.6	177
00 01	43.9 40.0	0.8	4.7	0.2	0.0	4.9	82.6	12.7	14.7	0.0	0.0	0.0	5.4 2.6	165
01	40.0	0.6	5.0	0.2 0.3	0.0	5.2	90.8	9.3	13.6	0.0	0.0	0.0	2.6	162
002	39.7 41.6	1.1	6.9	0.3 0.4	0.0 0.0	7.2	97.0 96.7	11.1	12.9 11.9	0.0	0.0 0.0	0.0	1.1	170
003	41.6 43.4	29.9	21.7 19.5	0.4 1.0	0.0	22.1 20.5	96. <i>7</i> 106.1	12.0 13.1	11.9 12.0	0.0 0.0	0.0	0.0 0.0	0.5 1.4	214. 235.
005	44.1	39.4 R 48.0	13.0	0.8	0.0	13.8	98.7	17.9	12.0	0.0	0.0	0.0	1.4	235.
005	44.7	43.1	2.7	1.5	0.0	4 2	98.1	15.1	12.6	0.0	0.0	0.0	1.6	230.
000	44.8	41.2	3.4	1.5 0.5	0.0	4.2 3.9	112.9	12.5	16.7	0.0	0.0	0.0	2.1	219. 234.

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, New Jersey

						Petroleum				Needer	Heater	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	6,424	139	46,051	2,125	3,213	48,706	42,854	22,984	165,934	0	45					
1965	9,034	210	53,611	5,280	4,268	55,149	42,900	30,873	192,082	0	-31					
1970 1975	4,946 2,397	323 244	63,391 59,630	6,705 6,267	6,748 7,328	66,231 77,617	80,770 49,463	34,514 33,336	258,360 233,642	3,454 3,146	-403 -272					
1980	2.634	340	52,854	8.781	7,383	72,740	53,617	38,418	233,792	7,627	-282					
1985	3,943	379	43,747	43,910	7,184	75,405	23,986	31,372	225,604	17,770	-244					
1990	3,029	446	38,999	46,377	4,295	78,343	15,194	38,778	221,986	23,770	31					
1995 1996	3,015 3,323	697 701	34,080 35,370	50,059 43,002	4,062 3,813	82,325 86,044	12,526 9,709	41,905 34,587	224,956	16,806 11,028	11 19					
1996	3,841	701	35,271	R 38,754	4,268	88,850	9,709	39,706	212,526 R 216,015	13,908	18					
1998	3,299	680	34,192	R 37,103	3,717	91,734	8,669	37,095	R 212,511	27,132	21					
1999	3,405	716	36,449	36,343	7,569	91,783	8,393	40,957	221,494	28,971	17					
2000	4,395	605	37,034	36,781	6,801	94,729	14,032	37,235	226,613	28,578	14					
2001 2002	4,315 4,079	565 599	38,612 35,937	33,952 28,933	7,632 7,526	94,145 96,329	12,642 15,862	45,189 44,915	232,172 229,503	30,469 30,866	18 12					
2002	4,191	613	38,408	25,901	3,539	98,327	14,100	42.664	222,939	29,709	39					
2004	4,440	621	40,318	25,038	3,045	103,782	14,054	43,597	229,833	27,082	38					
2005	5,004	602	39,814	31,834	2,420	103,150	18,780	43,885	239,882	31,392	31					
2006 2007	4,642 4.671	R 547 619	36,651 39,647	33,726 36,534	1,979 2,758	103,580 106,074	16,882 19,780	41,278	234,096 246,986	32,568	35 21					
2007	4,071	019	39,047	30,334	2,700	100,074	19,700	42,193	240,900	32,010	21					
								Trillion Btu								
1960 1965	168.8 236.6	144.1 219.2	268.2 312.3	11.5 29.4	12.9 17.1	255.9 289.7	269.4 269.7	138.4 181.5	956.3 1,099.7	0.0 0.0	0.5 -0.3	20.0 24.0	0.0 0.0	12.9 18.1	0.0 0.0	1,302.6 1,597.3
1900	123.3	331.2	369.3	37.5	25.5	347.9	209.7 507.8	201.8	1,489.8	37.9	-0.3 -4.2	30.1	0.0	19.9	0.0	2,028.0
1975	60.5	251.7	347.3	35.1	27.2	407.7	311.0	195.2	1.323.6	34.6	-2.8	33.8	0.0	237.8	0.0	1,939.1
1980	68.7	R 351.0	307.9	49.3	27.1	382.1	337.1	222.0	1,325.5	83.2	-2.9	51.3	0.0	252.7	-9.9	2,119.6
1985	103.3	R 389.1	254.8	248.6	25.9	396.1	150.8	181.9	1,258.1	188.8	-2.6	52.2	0.0	231.3	-13.8	2,206.4
1990 1995	80.8 79.9	R 458.1 R 720.7	227.2 198.5	262.6 283.8	15.6 14.7	411.5 429.3	95.5 78.8	222.1 242.7	1,234.5 1,247.9	251.5 176.6	0.3 0.1	25.4 42.5	0.4 0.6	291.9 296.3	-10.2 -7.5	2,332.6 2,557.0
1995	86.6	R 725.7	206.0		13.8	448.8	61.0	203.2	_ 1,176.7	115.8	0.1	40.4	0.6	388.5	-7.5 -7.0	2,527.5
1997	99.9	R 742 0	205.5	243.8 R 219.7	15.4	463.2	57.6	235.3	R 1.196.7	146.0	0.2	38.5	0.6	323.9	-6.7	R 2,541.1
1998	86.2	R 705.5	199.2	R 210.4	13.4	478.1	54.5	219.3	R 1,174.9	284.6	0.2	37.9	0.7	220.3	-9.4	R 2,500.9
1999	89.0	R 743.6	212.3	206.1	27.4	478.3	52.8	244.0	1,220.7	302.7	0.2	39.2	0.7	224.3	-6.0	2,614.3
2000	114.7	R 626.5 R 585.8	215.7 224.9	208.5	24.5 27.6	493.5 490.5	88.2	220.6	1,251.1	298.0	0.1	39.6	0.7	196.3	-8.6 -12.8	2,518.5 2,529.0
2001 2002	112.2 104.8	R 622.5	209.3	192.5 164.1	27.0	490.5 501.7	79.5 99.7	266.3 265.5	1,281.3 1,267.4	318.3 322.2	0.2 0.1	28.1 27.5	0.7 1.0	215.2 208.1	-12.8	2,529.0 2,550.1
2002	104.8	R 639.2	223.7	146.9	12.8	512.0	88.6	248.5	1,232.6	309.6	0.1	25.0	1.3	259.7	-0.5	2.574.1
2004	112.7	R 645.0	234.8	142.0	11.0	541.2	88.4	252.5	1,270.0	282.4	0.4	25.1	1.5	R 288.0	-0.6	R 2.624.6
2005	125.3	R 626.5	231.9	180.5	8.8	538.2	118.1	254.8	1,332.3	327.6	0.3	R 23.5	1.8	287.2	-0.5	R 2 724 0
2006 2007	116.1 111.8	R 567.5 640.7	213.5 230.9	191.2 207.2	7.1 9.9	540.5 553.6	106.1 124.4	240.8	1,299.2 1,373.3	339.8 335.7	0.4 0.2	R 23.3 22.2	2.2 2.6	252.8 257.5	-0.2	R 2,601.0 2,743.7
2007	111.8	040.7	230.9	201.2	9.9	553.6	124.4	247.4	1,373.3	333. <i>l</i>	0.2	22.2	2.0	207.5	-0.4	2,143.1

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Jersey

				Petro	leum		Biomass			B 4 11			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	266	75	25,587	1,200	737	27,524	353			5,080			
1965	266 159	114	29.038	969	737 672	30.679	338			7,410			
1970	84	140	32,933	769	834	34,536	503			12,131			
1975	24 12	129	30,655	431	964	32,050	550			14.495			
1980	12	136	23,976	262	777	25,015	1,609			16,329			
1985	24	151	20,180	907	918	22,005	1,502			17,177			
1990	3	172	13,661	295	899	14,855	809			20,498			
1995	1	194	12,030	236	1,548	13,814	726			22,470			
1996	1	223 217	12,169	284	1,685	14,137	754			22,632			
1997 1998	1	197	11,361 9,127	292 308	1,394 1,755	13,046 11,191	427 380			22,286 23,191			
1998	1	209	9,127	270	1,755	11,191	400			23,191			
2000	1	220	10,228	299	1,973	12,500	430			24,551			
2000	(s)	215	9,469	410	1,993	11,872	395			25,491			
2001	(s)	210	9,050	143	1,583	10,775	401			27,171			
2002	(3)	244	10,302	138	2,094	12,534	422			27,367			
2004	i	232	9,909	155	1.690	11,754	433			28,020			
2005	(s)	231	8,801	184	1,414	10.399	R 327			29,973			
2006	(s)	197	7,079	116	1,414 R 1,159	10,399 R 8,354	R 298			28,622			
2007	(s)	228	7,527	72	1,617	9,217	328			29,752			
						Т	rillion Btu						
1960	6.6	77.7	149.0	6.8	3.0	158.8	7.1	0.0	0.0	17.3	267.5	42.9	310.4
1965	3.9	119.6	169.1	5.5	2.7	177.3	6.8	0.0	0.0	25.3	332.8	60.4	393.2
1970	2.0	143.9	191.8	4.4	3.2	199.3	10.1	0.0	0.0	41.4	396.6	100.2	496.8
1975	0.5	133.4	178.6	2.4	3.6	184.6	11.0	0.0	0.0	49.5	379.0	118.9	498.0
1980	0.3	R 140.9 R 154.3	139.7	1.5	2.9 3.3	144.0	32.2	0.0	0.0	55.7	369.1	134.3	503.4 498.9
1985	0.6	154.3	117.5	5.1	3.3	126.0	30.0	0.0	0.0	58.6	364.0	135.0	498.9
1990 1995	0.1	R 175.8 R 201.2	79.6 70.1	1.7	3.3 5.6	84.5 77.0	16.2 14.5	0.1	0.4 0.5	69.9	343.0 367.9	161.7 174.1	504.8
1995	(s) (s)	R 230.9	70.1	1.3 1.6	5.0	77.0 78.6	15.1	0.1 0.1	0.5	76.7 77.2	400.2	174.1	542.0 575.8
1996	(S)	R 224.5	70.9 66.2	1.6	6.1 5.0	78.6 72.9	8.5	0.1	0.5	77.2 76.0	380.6	175.6	575.8 552.9
1997	(S)	R 204.0	53.2	1.7	6.3	61.3	0.5 7.6	0.1	0.5	76.0 79.1	349.9	172.3	502.9 520.2
1999	(s)	R 204.0 R 217.8	53.2 56.9	1.7 1.5	6.8	65.2	7.6 8.0	0.1	0.6 0.6	83.8	373.7	191.6	529.3 565.3
2000	(s)	R 227.8	59.6	1.7	7.1	68.4	8.6	0.1	0.6	83.8	386.1	190.5	576.6
2001	(s)	R 223.3	55.2	2.3	7.2	64.7	7.9	0.1	0.6	87.0	378.6	193.8	572.4
2002	(s)	R 218 9	52.7	0.8	5.7	59.2	8.0	0.1	0.9	92.7	378.6	206.7	585.2
2003	(s)	R 254.7	60.0	0.8	7.6	68.4	8.4	0.2	1.1	93.4	426.1	206.0	632.1 R 623.5 R 632.2
2004	(s)	241 6	57.7	0.9	6.1	64.7	8.7	0.2	1.4	95.6	R 411.9	211.5	R 623.5
2005	(s)	R 240.6	51.3	1.0	5.1	57.4	R 6.5	0.2	1.6	102.3	R 408.5	223.7	R 632.2
2006	(s)	R 204.6	41.2	0.7	R 4.2	46.1	R 6.0	0.2	1.9	97.7	R 356.3	211.2	^R 567.5
2007	(s)	236.1	43.8	0.4	5.8	50.1	6.6	0.3	2.1	101.5	396.5	219.0	615.5

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

net energy and total.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Jersey

					Petr	oleum				Biomass		-			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	185	10	8,640	466	130	308	7,117	16,661	0			4,391			
1965	120	20	9,805	377	119	420	7,473	18.194	0			6.945			
1970	66	56	11,121	299	147	613	11,415	23,595	0			10,799			
1975	56	53	10,351	168	170	634 297	6,484	17,807	0			13,849			
1980 1985	44 84	60 83	9,167 6,296	39 77	137 162	660	10,950 3,128	20,590 10,323	0			16,878 20,903			
1900	10	116	8,217	178	159	754	1,460	10,323	0			20,903			
1995	6	139	3,467	566	273	78	1,238	5,622	0			30,170			
1996	7	150	4,944	243	297	77	1,281	6,843	Ö			30,520			
1997	5	169	3,406	750	246	79	794	5,274	0			30,127			
1998	4	147	3,061	1,084	310	76	489	5,021	0			31,489			
1999	4	164	4,121	1,244	331	75	591	6,362	0			32,897			
2000 2001	4	159 131	3,340 3,394	1,189 1,248	348 352	74 77	479 385	5,430 5,455	0			33,474 34,743			
2001	4	146	2,414	452	279	73	279	3,497	0			35,727			
2002	3	160	3,052	247	370	73 74	442	4,184	0			36,616			
2004	5	169	2,680	276	298	72	347	3,673	Ő			38,074			
2005	3	170	3,498	351	250	71	281	4.451	0			39,762			
2006	2	153	2,092	140	R 205	70	217	R 2,723	0			39,437			
2007	2	169	3,349	108	285	76	233	4,051	0			40,876			
								Trillion Btu							
1960	4.6	10.7	50.3	2.6	0.5	1.6	44.7	99.9	0.0	0.1	0.0	15.0	130.2	37.1	167.3
1965	2.9	21.1	57.1	2.1	0.5	2.2	47.0	108.9	0.0	0.1	0.0	23.7	156.8	56.6	213.4
1970	1.6	57.4	64.8	1.7	0.6	3.2	71.8	142.0	0.0	0.2	0.0	36.8	238.0	89.2	327.2
1975 1980	1.2	55.0 R 62.5	60.3	1.0 0.2	0.6 0.5	3.3 1.6	40.8 68.8	106.0	0.0	0.2	0.0 0.0	47.3	209.7	113.6	323.3 383.4
1985	1.0 2.0	R 85.3	53.4 36.7	0.2	0.6	3.5	19.7	124.5 60.8	0.0 0.0	0.8 0.7	0.0	57.6 71.3	244.6 217.1	138.8 164.3	381.3
1990	0.3	118.4	47.9	1.0	0.6	4.0	9.2	62.6	0.0	1.8	0.0	92.8	273.2	214.6	487.8
1995	0.2	143.8	20.2	3.2	1.0	0.4	7.8	32.6	0.0	2.0	0.0	102.9	280.0	233.8	513.8
1996	0.2	156.0	28.8	1.4	1.1	0.4	8.1	39.7	0.0	2.1	0.0	104.1	300.7	236.8	537.5
1997	0.1	174.7	19.8	4.3	0.9	0.4	5.0	30.4	0.0	1.6	0.0	102.8	308.0	232.9	540.9
1998	0.1	152.1	17.8	6.1	1.1	0.4	3.1	28.6	0.0	1.3	0.0	107.4	287.5	243.7	531.1
1999	0.1	170.3	24.0	7.1	1.2	0.4	3.7	36.4	0.0	1.4	0.0	112.2	319.0	256.7	575.7
2000 2001	0.1	164.3 136.5	19.5 19.8	6.7 7.1	1.3	0.4 0.4	3.0	30.8	0.0 0.0	1.4	0.0 0.0	114.2 118.5	308.6 284.5	259.8 264.2	568.4 548.6
2001	0.1 0.1	152.5	19.8	2.6	1.3 1.0	0.4	2.4 1.8	30.9 19.8	0.0	1.4 1.5	0.0	121.9	284.5 294.8	204.2	548.6
2002	0.1	166.8	17.8	1.4	1.3	0.4	2.8	23.7	0.0	1.5	0.0	121.9	316.9	271.7	592.6
2004	0.1	175.4	15.6	1.6	1.1	0.4	2.2	20.8	0.0	1.5	0.0	129.9	327.6	287.4	R 615.0
2005	0.1	176.9	20.4	2.0	0.9	0.4	1.8	25.4	0.0	R ₁ n	0.0	135.7	339.0	296.7	R 615.0 R 635.7
2006	(s) 0.1	158.2	12.2	0.8	R 0.7	0.4	1.4	R 15.4	0.0	R 1.0	0.0	134.6	309.2	291.0	R 600.2 639.1
2007	0.1	174.7	19.5	0.6	1.0	0.4	1.5	23.0	0.0	1.0	0.0	139.5	338.2	300.9	639.1

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^{'f} There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

ⁱ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Jersey

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	2,368	28	6,719	2,340	612	18,822	19,486	47,980	10			8,021			
1965	1,921	52	8,423	3,438	532	17,049	27,755	57,196	4			11,519			
1970 1975	740 67	80 52	9,560 7,963	5,665 6,096	401 233	22,609 14,809	32,713 32,040	70,948 61,142	4			15,215 14,562			
1975	33	63	7,339	6,429	147	17,694	37,321	68,931	3			16,345			
1985	359	81	2,835	5,994	462	4,851	29,555	43,697	3			15,657			
1990	276	90	3,453	3,163	460	3,622	37,456	48,154	ŏ			15,041			
1995	13	209	1,994	2,172	602	1,901	40,262	46.931	0			13,989			
1996	7	196	1,927	1,773	597	1,660	33,271	39,228	0						
1997	10	193	1,789	2,523	628	1,356	37,817	44,113	0			13,369			
1998	10	199	2,002	1,599	509	855	34,824	39,789	0			13,339			
1999 2000	8	197 88	2,076 1,795	5,352 4,457	242 259	633 590	38,583 34,914	46,887 42,016	0			13,121 11,812			
2000	6	86	2,434	5,250	259 962	600	42,789	52,035	0			12,707			
2001	5	80	2,149	5,479	992	292	43,432	52,033	0			11,476			
2003	7	77	2,088	940	1,074	506	41,441	46,050	Ö			12,215			
2004	6	77	3,135	984	1,211	539	42,423	48,291	1						
2005	6	75	1,958	_ 670	1.054	430	42,614	46.724	2			11.862			
2006	5	66	2,231	R 546	1,096	469	40,322	R 44,664	1						
2007	0	63	1,977	770	1,175	512	41,243	45,677	0			11,013			
							Tr	llion Btu							
1960	61.2	28.7	39.1	9.4	3.2		119.0	289.1	0.1	12.8	0.0		419.3	67.7	487.0
1965	49.0	54.6	49.1	13.8	2.8	107.2	164.3	337.1	(s)	17.1	0.0		497.2	93.9	591.1
1970	18.6	81.9	55.7	21.4	2.1	142.1	191.5	412.8	(s)	19.9	0.0		585.2	125.7	710.8
1975	1.6	54.0	46.4	22.6	1.2	93.1	187.7	351.1	(s)	22.6	0.0		478.9	119.5	598.4
1980 1985	0.8 8.8	R 64.9 R 83.0	42.7 16.5	23.6 21.6	0.8 2.4	111.2 30.5	215.6 171.4	394.0 242.5	(s)	18.3 21.5	0.0		532.0 406.3	134.4 123.0	666.4 529.3
1985	7.0	R 92.6	20.1	11.5	2.4	22.8	214.3	242.5	(s) 0.0	3.1	0.0		423.0	123.0	541.7
1995	0.3	R 216.2	11.6	7.9	3.1	12.0	233.2	267.8	0.0	4.5	0.0		534.3	108.4	642.6
1996	0.2	R 202 8	11.2	6.4	3.1	10.4	195.6	226.7	0.0	6.4	0.0		480.6	105.5	586.2
1997	0.3	K 199 7	10.4	9.1	3.3	8.5	224.4	255.7	0.0	6.7	0.0		506.2	103.3	609.5
1998	0.2	R 206.3	11.7	5.8	2.7	5.4	206.2	231.7	0.0	5.6	0.0		486.5	103.2	589.7
1999	0.2	K 205 1	12.1	19.4	1.3	4.0	230.3	266.9	0.0	5.9	0.0		521.2	102.4	623.6
2000	0.2	R 91.6	10.5	16.1	1.4	3.7	207.2	238.8	0.0	5.6	0.0		375.1	91.7	466.8
2001	0.1	R 89.4	14.2	19.0	5.0		252.5	294.4	0.0	3.7	0.0		429.0	96.6	525.6
2002 2003	0.1 0.2	R 84.0 80.9	12.5	19.8 3.4	5.2 5.6	1.8 3.2	256.9 241.4	296.2 265.8	0.0	2.6 2.3	0.0		421.5	87.3 92.0	508.8 482.8
2003	0.2	80.9 R 80.1	12.2 18.3	3.4		3.2	241.4	265.8	0.0 (s)	2.3	0.0 0.0		390.8 R 398.4	92.0 84.6	482.8 483.1
2004	0.2	R 78.0	11.4	_ 2.4	5.5	2.7	245.7	_ 269.5	(S)	2.8	0.0		_ 390.8	88.5	479.3
2005	0.1	R 68.1	13.0	R 2.0	5.7	2.7	235.2	R 258.8	(S)	2.8	0.0		R 368.5	83.6	R 452.1
2007	0.0	65.3	11.5	2.8	6.1	3.2	241.8	265.5	0.0	2.7	0.0		371.0	81.1	452.1

^a Includes supplemental gaseous fuels.

but should be counted only once in net energy and total.

b Liquefied petroleum gases.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector

includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Jersey

						Pe	troleum					.			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses ⁹	Total ^{e,f}
1960	41	1	1,147	4,748	2,125	6	685	47,786	5,754	62,252	0	4			
1965 1970	6	(s)	1,153 160	5,964 8,558	5,280 6,705	40 102	619 574	54,198 65,217	6,431 9,081	73,684 90,396	0	4 39			
1970	(s)	(s)	92	8,907	5,777	98	605	76,750	4,246	96,475	0	43			
1980	(3)	(s)	83	10,243	8,088	40	713	72,296	12,053	103,516	0	33			
1985	0	(s) 2	184	13,766	43,910	111	649	74,283	11,010	143,911	0	95			
1990	0	3	119	12,982	46,377	75	730	77,129	7,273	144.684	0	117			
1995	0	3	145	15,309	50,059	69	696	81,644	8,049	155 972	289	125			
1996	0	3	114	15,705	43,002 R 38,754	58	676	85,370	6,009	150,933	244	135			
1997	0	3	133	18,239	K 38,754	106	714	88,143	6,663	150,933 R 152,752 R 155,324	277	132			
1998 1999	0	3	132 106	19,482 19,768	R 37,103	53 10	747 755	91,149 91,466	6,658 6,478	155,324	218 187	143 134			
2000	0	3	90	20,536	36,343 36,781	22	755 744	94,396	12,226	164,795	221	134			
2000	0	3 4	90 61	20,536	33,952	37	681	93,107	10,397	160,206	201	237			
2002	0	2	214	22,039	28,933	185	673	95,265	14,440	161,750	294 25	228			
2003	Õ	2	215	22.189	25,901	135	622	97,179	11,941	158,183	26	184			
2004	0	2	113	23,903	25,038	74	631	102,499	12,328	164,585	142	290			
2005	0	2	109	25,130	31,834	87	627	102,025	17,195	177,007	R 2,748 R 7,386	299			
2006	0	1	88	25,123	33,726	70	611	102,414	15,991	178,023 187,584	^R 7,386	291			
2007	0	2	139	26,568	36,534	85	631	104,822	18,804	187,584	9,217	293			
								Trillion Btu							
1960	1.0	0.6	5.8	27.7	11.5	(s) 0.2	4.2	251.0	36.2	336.3	0.0	(s)	337.9	(s) (s)	338.0
1965 1970	0.2	0.5	5.8 0.8	34.7	29.4 37.5	0.2 0.4	3.8	284.7 342.6	40.4	399.0	0.0 0.0	(s) 0.1	399.6	(s)	399.7
1970	(s) (s)	1.0 0.4	0.8	49.8 51.9	37.5	0.4	3.5 3.7	342.6 403.2	57.1 26.7	491.7 518.6	0.0	0.1	492.8 519.1	0.3 0.4	493.1 519.5
1980	0.0	0.4	0.4	59.7	45.4	0.4	4.3	379.8	75.8	565.5	0.0	0.1	566.1	0.4	566.3
1985	0.0	2.3	0.9	80.2	248.6	0.1	3.9	390.2	69.2	793.4	0.0	0.3	796.1	0.7	796.8
1990	0.0	2.7	0.6	75.6	262.6	0.3	4.4	405.2	45.7	794.4	0.0	0.4	797.5	0.9	798.4
1995	0.0	2.7	0.7	89.2	283.8	0.2	4.2	425.8	50.6	854.6	1.0	0.4	857.7	1.0	858.6
1996	0.0	3.3	0.6	91.5	243.8	0.2	4.1	445.3	37.8	823.3	0.9	0.5	827.0	1.0	828.1
1997	0.0	3.6	0.7	106.2	R 219.7	0.4	4.3	459.5	41.9	R 832.7	1.0	0.5	R 836.8	1.0	R 837.8
1998	0.0	3.0	0.7	113.5	R 210.4	0.2	4.5	475.1	41.9	R 846.2	0.8	0.5	R 849.7	1.1	R 850.8
1999	0.0	4.5	0.5	115.1	206.1	(s) 0.1	4.6	476.6	40.7	843.7	0.7	0.5	848.7	1.0	849.7
2000 2001	0.0 0.0	3.3 4.2	0.5 0.3	119.6 128.0	208.5 192.5	0.1	4.5	491.8 485.1	76.9 65.4	901.9 875.5	0.8 1.0	0.5 0.8	905.6 880.5	1.1 1.8	906.8 882.3
2001	0.0	1.8	1.1	128.4	164.1	0.1	4.1 4.1	496.1	90.8	885.2	0.1	0.8	887.8	1.0	889.5
2002	0.0	2.0	1.1	129.3	146.9	0.7	3.8	506.0	75.1	862.5	0.1	0.6	865.2	1.4	866.6
2004	0.0	2.0	0.6	139.2	142.0	0.3	3.8	534.5	77.5	897.9	0.5	1.0	900.8	2.2	903.0
2005	0.0	1.6	0.5	146.4	180.5	0.3	3.8	532.4	108.1	972.0	R g 7	1.0	974.6 R 979.1	2.2	976.8
2006	0.0	^R 1.2	0.4	146.3	191.2	0.3	3.7	534.4	100.5	976.9	R 26.1	1.0	R 979.1	2.1	981.3
2007	0.0	1.8	0.7	154.8	207.2	0.3	3.8	547.1	118.2	1,032.0	32.6	1.0	1.034.9	2.2	1,037.0

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, New Jersey

				Petro	oleum		Nesslass		Biomass				Floorities	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	3,565	25	11,160	357	0	11,518	0	35		0	0	0	0	
1965	6.829	22	11,947 37,665	382	0	12,329 38,885	0	-35		0	0	0	0	
1970	4.054	46	37,665	1,220	0	38,885	3,454	-407		0	0	0	0	
975	2.250	9	23.924	2,244	0	26,168	3,146	-276		0	0	0	0	
980	2,545	80	12,919	2,821	0	15,740	7,627	-286		0	0	0	0	
985	3.476	61	4.997	671	0	5,668	17,770	-247		0	0	0	0	
990	2,740	66	2,839	686	0	3,525	23,770	31		0	0	0	0	
995	2,996 3,308	152 129	1,339 759	1,279 626	0	2,618	16,806	11		0	0	0	0	
996	3,308	129	759	626	0	1,385	11,028	19		0	0	0	0	
997	3,824	135	352	477	0	829	13,908	18		0	0	0	0	
998	3,284	135	668	519	0	1,187	27,132	21		0	0	0	0	
999	3,392	141	691	712	0	1,404 1,872	28,971 28,578	17		0	0	0	0	
000	4,382	135	737	1,135	0	1,872	28,578	14		0	0	0	0	
001	4,305	128	1,261	1,343 286	0	2,604	30,469	18		0	0	0	0	
002	4,070	160	852	286	0	1,138	30,866	12		0	0	0	0	
003	4,180	130	1,212	776	0	1,988	29,709	39		0	0	0	0	
004	4,429	141	840	691	0	1,531	27,082	36		0	0	0	(s)	
005	4,995	125	874	428	0	1,302	31,392	29 34		0	0	0	0	
006 007	4,635 4.669	131 157	205 230	127 226	0	331 456	32,568 32,010	34 21		0 0	0 0	16 20	0	
2007	4,003	107	230	220		430	Trillion E			0	0	20	0	
960 965	95.4 180.7	26.4 23.4	70.2 75.1	2.1 2.2	0.0	72.2	0.0	0.4 -0.4	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0	194.4
965	180.7	23.4	75.1	2.2	0.0	77.3	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	281.1
970	101.1	47.1	236.8	7.1	0.0	243.9 163.4	37.9	-4.3	0.0	0.0	0.0	0.0	0.0	425.8
975	57.2	8.8	150.4	13.0	0.0	163.4	34.6	-2.9	0.0	0.0	0.0	0.0	0.0	261.2
980	66.6	R 82.2 R 64.2	81.2	16.3 3.9	0.0	97.5 35.3	83.2	-3.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0	324.3 375.4
985	92.0	K 64.2	31.4	3.9	0.0	35.3	188.8	-2.6	0.0	0.0	0.0	0.0	0.0	3/5.4
990	73.5	R 68.5 R 156.9	17.8	4.0	0.0	21.8	251.5	0.3	4.3	0.0	0.0	0.0	0.0	418.5
995	79.4	N 156.9	8.4	7.4	0.0	15.9	176.6	0.1	21.4	0.0	0.0	0.0	0.0	418.5 448.7 358.8 410.5
996 997	86.2 99.5	R 132.6 R 139.5 R 140.1	4.8 2.2	3.6 2.8	0.0	8.4 5.0	115.8	0.2 0.2	16.8 21.7	0.0	0.0	0.0 0.0	0.0	358.8
997	99.5	N 139.5	2.2	2.8	0.0	5.0	146.0	0.2	21.7	0.0	0.0	0.0	0.0	410.5
998	85.9 88.7	R 140.1	4.2 4.3	3.0 4.1	0.0	7.2	284.6	0.2 0.2	23.5	0.0 0.0	0.0 0.0	0.0	0.0 0.0	539.7
999	88.7 114.4	R 120.6	4.3 4.6	4.1 6.6	0.0 0.0	8.5 11.2	302.7 298.0	0.2	23.9 24.0	0.0	0.0	0.0 0.0	0.0	508.8
)00)01	114.4	R 145.9 R 139.6 R 132.5	4.6 7.9	7.8	0.0	15.8	298.0 318.3	0.1 0.2	24.0 15.1	0.0	0.0	0.0	0.0	539.7 568.8 585.6 590.9
002	104.6	R 165 4	7.9 5.4	1.0	0.0	7.0	322.2	0.2	15.1	0.0	0.0	0.0	0.0	613.8
003	106.6	R 165.4 R 134.7	7.6	4.5	0.0	12.1	309.6	0.1	12.7	0.0	0.0	0.0	0.0	576 1
003	112.4	R 145.9	5.3	4.0	0.0	9.3	282.4	0.4	12.7	0.0	0.0	0.0	(s)	576.1 R 562.5
005	125.1	R 129 /	5.5	2.5	0.0	8.0	327.6	0.3	13.1	0.0	0.0	0.0	0.0	603.4
006	115.9	R 129.4 R 135.3	1.3	0.7	0.0	2.0	339.8	0.3 0.2	13.5	0.0	0.0	0.0 0.2 0.2	0.0	607.0
2007	111.7	162.8	1.4	1.3	0.0	2.8	335.7	0.0	11.9	0.0	0.0	0.2	0.0	625.2

^a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

 $-\stackrel{\circ}{-}$ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

¹ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, New Mexico

Thousand District Field Line Line Line Line Line Field Line Line							Petroleum				Nortee	Under	Biomass				
Thousand Park Thousand Barrels Thousand Bar		Coal				LPG ^b			Other ^d	Total			Wood	thermal,	Interstate		
1965	Year						Thousand Barrel	s			Millio	n kWh	and	and	Electricity/	Other ^j	Total ^g
1970 5,529 270 5,410 3,110 4,413 13,146 220 3,301 28,901 0 66											•						
1975 7,425 240 6,717 2,667 3,865 16,493 3,046 4,166 36,855 0 63		2,450 5,529	202	5,095 5,410	2,530 3.110		13,146		2,003 3,301	24,127	0						
1986 14,589 151 7,381 2,873 3,002 17,905 225 3,075 35,061 0 128	1975	7,425	240	6,717	2,667	3,865	16,493	3,046	4,166	36,955	•	63					
1990 15.111 239 7.973 2.912 7.943 18.647 148 3.507 41.129 0 205											0						
1996 15,227 27 10,049 1,615 2,015 20,47 195 6,670 40,691 0 211											0						
1986 257 10,797 15,886 257 10,797 17,772 2,667 21,505 158 6,404 43,283 0 259 1999 15,963 236 11,605 2,723 4,115 22,189 141 6,789 47,562 0 243 1999 15,303 236 11,605 2,723 4,115 22,189 141 6,789 47,562 0 243 1999 15,303 236 11,605 2,723 4,115 22,189 141 6,789 47,562 0 243 1001 16,031 266 12,419 3,065 4,411 21,655 96 3,676 45,322 0 237 1001 16,031 266 12,419 3,065 4,411 21,655 96 3,676 45,322 0 237 1001 17,000	1995	15,221	215	5,067	2,222	8,191	21,014	179	4,256	40,928	Ő	264					
1998 15,963 246 11,377 \$\frac{7}{2},193 2,201 21,918 136 6,895 \$\frac{8}{4},5324 0 236			227	10,049	1,615		20,247	195		40,691	0						
1999 16,303 236 11,605 2,723 4,115 22,189 141 6,789 47,562 0 243			257 246		N 1,752 R 2 198		21,505 21,918			43,283 R 45,324	v	259 236					
2000	1999	16,303	236	11,605	2,723	4,115	22,189	141	6,789	47,562	0	243					
2002 15,275 235 12,396 2,510 3,587 22,357 131 4,775 45,756 0 2,655										45,755	0						
2003 16.625 221 13.009 2.438 2.842 22.669 157 4.956 46.071 0 171	2001	16,031 15,275	266 235	12,419 12,306	3,065		21,655	96 131		45,322 45,756	0	237					
2004 16,745 224 14,151 2,274 2,769 23,249 105 5,294 47,841 0 139				13.009			22,669		4,956		0						
2006 17,044 224 15,772 2,363 8,3155 23,340 138 5,476 850,235 0 198	2004	16,745	224	14,151	2,274	2,769	23,249	105	5,294	47,841	0	139					
Trillion Btu Tril			221				23,014			47,697 R 50,335	0						
1960							22,935				•						
1965 44,3 224,3 22,7 13,7 13,4 56,8 4,4 17,7 128,6 0,0 0,4 5,6 0,0 -49,4 0,0 353,8 1970 99,4 292,5 31,5 17,0 16,7 69,1 1,4 20,2 155,8 0,0 0,7 4,9 0,0 -94,5 0,0 458,8 1975 132,5 256,6 39,1 14,6 14,4 86,6 19,1 25,8 199,7 0,0 0,7 4,9 0,0 -94,5 0,0 458,8 1985 268,6 16,23 43,0 15,7 10,8 94,1 5,2 19,5 188,2 0,0 1,0 5,2 0,0 -163,0 0,5 465,6 1990 275,7 251,5 46,4 16,0 28,8 98,0 0,9 21,8 212,0 0,0 1,3 7,9 0,0 -163,0 0,5 465,6 1995 275,2 219,5 29,5 12,6 29,7 109,6 1,1 26,5 209,0 0,0 2,									Trillion Btu								
1975				17.9	11.7	12.1	50.2		14.2						3.1	0.0	329.0
1975			224.3			13.4 16.7				128.6 155.8							353.8 458.8
1985	1975		255.6	39.1	14.6		86.6	19.1	25.8	199.7			5.3		-134.1	0.0	459.7
1990 275.7 251.5 46.4 16.0 28.8 98.0 0.9 21.8 212.0 0.0 2.1 3.9 0.7 -147.5 1.3 599.6 1995 275.2 219.5 29.5 12.6 29.7 109.6 1.1 26.5 209.0 0.0 2.7 4.0 0.8 -125.9 0.0 585.3 1996 279.1 233.6 58.5 9.2 7.3 105.6 1.2 38.8 220.6 0.0 2.2 4.0 0.8 -123.2 0.0 617.0 1997 288.5 261.9 62.9 9.9 9.6 112.1 1.0 37.5 233.0 0.0 2.6 4.5 0.7 -134.6 0.0 656.7 1998 290.4 241.4 66.3 12.5 10.1 114.2 0.9 41.0 245.0 0.0 2.4 4.0 0.7 -134.1 0.0 649.9 1999 298.1 231.3 67.6 15.4 14.9 115.6 0.9 40.2 254.6 0.0 2.5 4.3 1.2 -139.8 0.0 652.1 2000 30.5 25.0 69.5 17.1 10.3 110.7 0.9 38.7 247.2 0.0 2.3 4.5 1.1 -142.6 (s) 677.0 2001 297.1 259.6 72.3 17.4 15.9 112.8 0.6 22.2 241.3 0.0 2.5 3.0 1.1 -140.1 0.0 664.2 2002 284.1 237.4 72.2 14.2 13.0 116.4 0.8 29.5 246.2 0.0 2.7 2.9 1.1 -111.3 0.1 663.2 2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0 1.7 2.8 2.8 R.134.1 0.1 663.2 2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 316.2 R.220.0 91.9 13.3 11.4 121.8 0.9 33.7 R.273.0 0.0 2.0 R.5.1 13.4 -153.8 -0.1 R.668.9 2006 2006 2006 2006 2006 2006 2006 200	1980	202.9	231.3	46.4		17.3	88.8		28.0	201.6	0.0		5.2				481.1
1995 275.2 219.5 29.5 12.6 29.7 109.6 1.1 26.5 209.0 0.0 2.7 4.0 0.8 -125.9 0.0 585.3 1996 279.1 233.6 58.5 9.2 7.3 105.6 1.2 38.8 220.6 0.0 2.2 4.0 0.8 -123.2 0.0 617.0 1997 288.5 261.9 62.9 9.9 9.6 112.1 1.0 37.5 233.0 0.0 2.6 4.5 0.7 -134.6 0.0 666.7 1998 290.4 241.4 66.3 12.5 10.1 114.2 0.9 41.0 245.0 0.0 2.4 4.0 0.7 -134.6 0.0 669.9 1999 298.1 231.3 67.6 15.4 14.9 115.6 0.9 40.2 254.6 0.0 2.5 4.3 1.2 -139.8 0.0 652.1 2000 305.5 259.0																	
1996 279.1 233.6 58.5 9.2 7.3 105.6 1.2 38.8 220.6 0.0 2.2 4.0 0.8 -123.2 0.0 617.0 1997 288.5 261.9 62.9 9.9 9.6 112.1 1.0 37.5 233.0 0.0 2.6 4.5 0.7 -134.6 0.0 664.9 1998 298.1 231.3 67.6 15.4 14.9 115.6 0.9 40.2 254.6 0.0 2.5 4.3 1.2 -139.8 0.0 682.1 2000 305.5 259.0 69.5 17.1 10.3 110.7 0.9 38.7 247.2 0.0 2.3 4.5 1.1 -142.6 (s) 677.0 2001 297.1 259.6 72.3 17.4 15.9 112.8 0.6 22.2 241.3 0.0 2.5 3.0 1.1 -140.1 0.0 667.0 2002 284.1 237.4		275.7								209.0						0.0	
1998 290.4 241.4 66.3 12.5 10.1 114.2 0.9 41.0 245.0 0.0 2.4 4.0 0.7 -134.1 0.0 649.9 1999 298.1 231.3 67.6 15.4 14.9 115.6 0.9 40.2 254.6 0.0 2.5 4.3 1.2 -139.8 0.0 652.1 2000 305.5 259.0 69.5 17.1 10.3 110.7 0.9 38.7 247.2 0.0 2.3 4.5 1.1 -142.6 (s) 667.1 2001 297.1 259.6 72.3 17.4 15.9 112.8 0.6 22.2 241.3 0.0 2.5 3.0 1.1 -142.6 (s) 667.4 2002 284.1 237.4 72.2 14.2 13.0 116.4 0.8 29.5 246.2 0.0 2.7 2.9 1.1 -111.3 0.1 663.2 2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0	1996	279.1	233.6	58.5	9.2	7.3	105.6	1.2	38.8	220.6	0.0	2.2		0.8	-123.2	0.0	617.0
1999 298.1 231.3 67.6 15.4 14.9 115.6 0.9 40.2 254.6 0.0 2.5 4.3 1.2 -139.8 0.0 652.1 2000 305.5 259.0 69.5 17.1 10.3 110.7 0.9 38.7 247.2 0.0 2.3 4.5 1.1 -142.6 (s) 677.0 2001 297.1 259.6 72.3 17.4 15.9 112.8 0.6 22.2 241.3 0.0 2.5 3.0 1.1 -140.1 0.0 664.4 2002 284.1 237.4 72.2 14.2 13.0 116.4 0.8 29.5 246.2 0.0 2.7 2.9 1.1 -111.3 0.1 663.2 2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0 1.7 2.8 2.8 2.8 R-134.1 0.1 651.7 2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0 1.6 R5.4 8.9 R-142.9 -0.1 R676.9 2006 316.2 R22.0 91.9 13.3 11.4 121.8 0.9 33.7 R273.0 0.0 2.0 R5.1 13.4 -153.8 -0.1 R684.8																	
2000 305.5 259.0 69.5 17.1 10.3 110.7 0.9 38.7 247.2 0.0 2.3 4.5 1.1 -142.6 (s) 677.0 2001 297.1 259.6 72.3 17.4 15.9 112.8 0.6 22.2 241.3 0.0 2.5 3.0 1.1 -140.1 0.0 667.7 2002 284.1 237.4 72.2 14.2 13.0 116.4 0.8 29.5 246.2 0.0 2.7 2.9 1.1 -111.3 0.1 663.2 2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0 1.7 2.8 2.8 R-134.1 0.1 661.7 2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0			241.4	67.6	12.5		114.2		41.0 40.2	245.0 254.6	0.0						649.9 652.1
2002 284.1 237.4 72.2 14.2 13.0 116.4 0.8 29.5 246.2 0.0 2.7 2.9 1.1 -111.3 0.1 663.2 2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0 1.7 2.8 2.8 R-134.1 0.1 651.7 2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0 1.6 R-5.4 8.9 R-142.9 -0.1 R-676.9 2006 316.2 R-229.0 91.9 13.3 11.4 121.8 0.9 33.7 R-273.0 0.0 2.0 R-5.1 13.4 -153.8 -0.1 R-684.8	2000	305.5	259.0	69.5	17.1	10.3	110.7	0.9	38.7	247.2	0.0	2.3	4.5	1.1	-142.6		677.0
2003 305.6 223.2 75.8 13.8 10.3 118.0 1.0 30.6 249.5 0.0 1.7 2.8 2.8 R-134.1 0.1 651.7 2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0 1.6 R5.4 8.9 R-142.9 -0.1 R676.9 2006 316.2 R229.0 91.9 13.3 11.4 121.8 0.9 33.7 R273.0 0.0 2.0 R5.1 13.4 -153.8 -0.1 R684.8			259.6														664.4
2004 309.4 230.3 82.4 12.9 10.0 121.2 0.7 32.6 259.8 0.0 1.4 2.9 6.0 -128.3 0.2 681.7 2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0 1.6 R5.4 8.9 R-142.9 -0.1 R676.9 2006 316.2 R229.0 91.9 13.3 11.4 121.8 0.9 33.7 R273.0 0.0 2.0 R5.1 13.4 -153.8 -0.1 R684.8																	651.7
2005 317.9 227.1 83.7 12.9 10.3 120.1 0.5 31.4 258.9 0.0 1.6 ^R 5.4 8.9 ^R -142.9 -0.1 ^R 676.9 2006 316.2 ^R 229.0 91.9 13.3 11.4 121.8 0.9 33.7 ^R 273.0 0.0 2.0 ^R 5.1 13.4 -153.8 -0.1 ^R 684.8	2004		230.3	82.4	12.9		121.2		32.6	259.8			2.9	6.0	-128.3	0.2	681.7
	2005				12.9					258.9			R54				

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Mexico

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	25	20	3	17	1,441	1,461	287			872			
1965 1970	6	24	2	14	1,518	1,534	234			988			
1970	(s)	31	3	29	2,004	2,036	202			1,475			
1975 1980	U	28	5	27 132	1,270 1,209	1,301 1,352	210 196			1,957 2,453			
1985	9	29 22	11 15	41	2,091	2,147	315			2,453 3,098			
1990	1	28	8	41	1,705	1,718	157			3,566			
1995	1	20	3	6	860	869	155			4,124			
1996	1	34	3	7	853	862	161			4,328			
1997	i	29 34 37	3	5	1,085	1,093	182			4,502			
1997 1998	1	36	2	6	1.593	1,600	161			4,642			
1999	1	36 36 36 35 33 32 34 33	20 6	23	2,045 2,040	2.088	170			4.649			
1999 2000	1	36	6	23 6	2,040	2.052	183			4,937			
2001	1	35	5	5	3.446	3.455	100			4,999			
2002	1	33	7	3	2,744	2,754	101			5,238			
2003 2004	. 1	32	3	4	2,086	2,092	107			5,418			
2004	(s) (s)	34	4	5	1,941	1,950	110			5,635			
2005 2006	(s)	33	4	5	1,996 R 2,200	2,004	110 R 216 R 197			5,865			
2006	(s)	30 33	3 4	3	1.807	R 2,207 1.814	217			6,009 6,387			
2007	(s)	აა	4	3	1,007	,-				0,307			
						Tı	illion Btu						
1960 1965 1970 1975	0.6	21.1 26.9 33.3	(s)	0.1	5.8 6.1	5.9 6.2	5.7 4.7	0.0	0.0	3.0 3.4	36.2	7.4	43.6
1965	0.1	26.9	(s)	0.1	6.1	6.2	4.7	0.0	0.0	3.4	41.2	8.1	49.3
1970	(s) 0.0	33.3	(s) (s) (s) (s) 0.1 0.1	0.2	7.6	7.8	4.0	0.0	0.0	5.0	50.2	12.2	62.3
1975	0.0	29.9	(s)	0.2	4.7	4.9 5.3 7.9	4.2	0.0	0.0	6.7	45.7	16.1	61.8
1980 1985	0.2 (s)	29.9 23.9	0.1	0.7	4.4 7.5	5.3	3.9 6.3	0.0 0.0	0.0	8.4	47.7	20.2 24.3	67.8 73.0
1985	(s)	23.9		0.2	7.5	7.9	6.3		0.0	10.6	48.6	24.3	73.0
1990	(s)	29.7	(s)	(s)	6.2	6.3	3.1	(s)	0.6	12.2	51.9	28.1	80.0
1995	(s)	29.4	(s) (s) (s) (s)	(s)	3.1	3.2	3.1	(s)	0.6	14.1	50.3	32.0	82.3
1996 1997	(s)	34.9 37.4	(S)	(s)	3.1 3.9	3.1 4.0	3.2 3.6	(s)	0.6 0.6	14.8	56.6	33.6 34.8	90.2 95.8
1997	(s)	37.4 35.1	(S)	(s)	3.9	4.0	3.0	(s)	0.6	15.4 15.8	61.0 60.6	34.8 35.0	95.8 06.5
1998 1999	(s) (s)	34.7	(s) 0.1	(s) 0.1	5.8 7.4	5.8 7.6	3.2 3.4	(s)	0.5	15.0	62.1	35.9 36.3	96.5 98.4
2000	(s)	34.8		(s)	7.4	7.6	3.7	(s) (s)	0.5	16.8	63.2	38.3	101.5
2000	(s)	33.8	(s) (s) (s)	(s)	12.5	7.4 12.5	2.0	(S) (S)	0.5	17.1	65.8	38.0	103.8
2002	(s)	33.9	(5)	(s)	9.9	10.0	2.0	(s)	0.4	17.1	64.1	39.8	104.0
2003	(s)	32.0	(s)	(s)	7.6	7.6	2.1	(s)	0.3	18.5	60.6	40.8	101 4
2003 2004	(s)	35.4		(s)	7.0	7.1	2.2	(s)	0.3	19.2	64.2	42.5	106.7 R 110.0 R 108.3
2005	(s)	34.4	(s) (s) (s) (s)	(s)	7.2 R 7.9	7 3	2.2 R 4.3 R 3.9 4.3	(s)	0.2	20.0	64.2 R 66.2 R 64.0	43.8	R 110.0
	(s) (s)	31.3	(s)	(s)	R 7.9	R 8.0	R 3 9	(s)	0.2	20.5	R 64 0	44.3	R 108 3
2006 2007	(5)	34.3	(0)	(s)	6.5	6.5	0.0		0.2	21.8	67.2	47.0	114.3

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Mexico

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	17	9	107	4	254	46	0	412	0			963			
1965	5	13	65	4	268	54	0	391	0			1,485			
1970	(s)	33	114	8	354	70	0	545	0			2,216			
1975	0	23	179	7	224	91	0	501	0			2,743			
1980	35	25	133	659	213	108	0	1,113	0			3,380			
1985 1990	6	17	320	61	369	113 127	4	866	0			4,664			
1990	4 7	24	426 242	15 4	301 152		0	868 416	0			5,842 6,641			
1995	7	24 26	242 176	4	152	18 18	(s)	345	0			6,641			
1990	7	27	169	3	192	18	(8)	381	0			6,839			
1998	8	27	138	3	281	18	0	440	0			7,346			
1999	5	27	316	6	361	18	0	701	0			7,435			
2000	5	27	266	8	360	19	ő	652	0			8,371			
2001	4	27	350	16	608	39	Ŏ	1,013	Ŏ			8,455			
2002	4	25	329	8	484	337	0	1,159	0			8,653			
2003	3	24	389	6	368	551	0	1,314	0			8,063			
2004	4	25	403	3	343	77	0	826	0			8,239			
2005	4	24	628	3	352	23	0	1,007	0			8,411			
2006	4	23 25	301	3	R 388	20	0	R 712	0			8,604			
2007	3	25	189	2	319	21	0	530	0			8,932			
								Trillion Btu							
1960	0.4	9.3	0.6	(s)	1.0	0.2	0.0	1.9	0.0	0.1	0.0	3.3	15.0	8.1	23.2
1965	0.1	13.9	0.4	(s)	1.1	0.3	0.0	1.8	0.0	0.1	0.0	5.1	21.0	12.1	33.1
1970	(s)	35.8	0.7	(s)	1.3	0.4	0.0	2.4	0.0	0.1	0.0	7.6	45.8	18.3	64.1
1975	0.0	24.5	1.0	(s) 3.7	0.8	0.5	0.0	2.4	0.0	0.1	0.0	9.4	36.4	22.5	58.9
1980	0.7	25.7	0.8		0.8	0.6	0.0	5.9 4.2	0.0	0.1	0.0	11.5	43.9	27.8	71.7
1985 1990	0.1 0.1	18.2 25.0	1.9 2.5	0.3 0.1	1.3 1.1	0.6 0.7	(s) 0.0	4.2	0.0 0.0	0.1 0.3	0.0	15.9 19.9	38.5 49.8	36.7 46.1	75.2 95.9
1995	0.1	24.4	1.4	(s)	0.6	0.7	0.0	2.1	0.0	0.3	(s)	22.7	49.8	51.5	101.2
1996	0.1	27.4	1.0	(s)	0.6	0.1	(e)	1.7	0.0	0.4	(s) (s) (s)	23.6	53.3	53.7	107.0
1997	0.1	28.0	1.0	(s)	0.7	0.1	(s) 0.0	1.8	0.0	0.6	(5)	23.3	53.9	52.9	106.8
1998	0.2	26.6	0.8	(s)	1.0	0.1	0.0	1.9	0.0	0.5	(s)	25.1	54.4	56.8	111.2
1999	0.1	26.4	1.8	(s)	1.3	0.1	0.0	1.9 3.3	0.0	0.6	(s) 0.1	25.4	55.8	58.0	113.9
2000	0.1	26.1	1.5	(s)	1.3	0.1	0.0	3.0	0.0	0.6	0.1	28.6	58.5	65.0	123.5
2001	0.1	26.4	2.0	0.1	2.2	0.2	0.0	4.5	0.0	0.4	0.1	28.8	60.3	64.3	124.6
2002	0.1	25.8	1.9 2.3	(s)	1.7	1.8	0.0	5.5	0.0	0.4	0.1	29.5	61.3	65.8	127.1
2003	0.1	24.0	2.3	(s)	1.3	2.9	0.0	6.5	0.0	0.4	0.1	27.5	58.6	60.7	119.3
2004	0.1	26.3	2.3 3.7	(s)	1.2	0.4	0.0	4.0	0.0	R 0.4	0.1	28.1 28.7	58.9	62.2	121.1 R 122.4
2005	0.1	25.0	3.7	(s)	1.3	0.1	0.0	5.1	0.0	K 0.7	0.1	28.7	R 59.6	62.8	K 122.4
2006	0.1	24.1	1.8	(s)	1.4	0.1	0.0	3.3	0.0	R 0.6	0.1	29.4	R 57.5	63.5	R 121.0 124.9
2007	0.1	25.5	1.1	(s)	1.1	0.1	0.0	2.4	0.0	0.7	0.1	30.5	59.1	65.8	124.9

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Mexico

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	105	120	1,028	1,194	295	59	1,931	4,508 5,855	0			1,548			
1965 1970	22	97 121	1,206 2,127	1,345 1,813	241	621	2,442 2,987	5,855 7,242	0			1,299			
1970	11 0	95	2,127	2,160	192 145	123 1,342	2,987 3,854	9,800	0			1,911 1,960			
1980	8	74	2,196	3,260	84	858	3,468	9,866	0			2,945			
1985	83	58	2,595	447	361	781	2,684	6,868	0			4,111			
1990	41	85	1,486	5,819	330	115	3,183	10,934	Ö			4,413			
1995	76 74	74	1,907	7,085	653	179	3,985	10,934 13,809	0			5,651			
1996	74	105	2,024	926	658	194	6,260	10.063	0			5,921			
1997	76	90	2,080	1,316	693	158	6,080	10,327 10,056	0			6,187			
1998 1999	72 73	85 82	1,896 2,175	927	497 342	136 141	6,601 6,464	10,056 10,814	0			6,186			
2000	73	111	2,175	1,692 438	342	136	6,252	9,442	0			5,957 5,492			
2000	71	110	2,180	320	630	86	3,372	6,588	0			5,272			
2002	73	97	2,078	340	622	131	4,489	7,659	ŏ			5,316			
2003	79	98	2,322	338	666	157	4,696	8.179	0			5,849			
2004	80	106	2,280	405	755	105	5,007	8.552	0			5,972			
2005	78	102	1,923	₂ 420	729	87	4,847	8,006 R 8,838	0			6,363			
2006 2007	79 76	97 101	2,216 2,326	R 496	750 512	138 158	5,238 5,529	13,666	0			6,822 6,948			
2007	76	101	2,326	5,141	512	158	5,529	13,000	0			6,948			
							Tr	Ilion Btu							
1960	2.4	124.5	6.0	4.8	1.6	0.4	12.1	24.8	0.0	0.8	0.0		157.7	13.1	170.7
1965	0.5	107.1	7.0	5.4	1.3	3.9	15.4	33.0	0.0	0.9	0.0		145.9	10.6	156.5
1970	0.2	131.2	12.4	6.8	1.0	0.8	18.4	39.4	0.0	0.7	0.0	6.5	178.1	15.8	193.9
1975 1980	0.0 0.2	102.6 77.6	13.4 12.8	8.0 12.0	0.8 0.4	8.4 5.4	24.0 21.4	54.6 52.0	0.0 0.0	1.1 1.2	0.0 0.0	6.7 10.0	164.9 141.0	16.1 24.2	181.0 165.3
1985	1.8	63.5	15.1	1.6	1.9	4.9	17.2	40.8	0.0	1.4	0.0	14.0	121.5	32.3	153.8
1990	0.9	90.0	8.7	21.1	1.7	0.7	20.0	52.2	0.0	0.3	0.0	15.1	158.5	34.8	193.3
1995	1.7	75.1	11.1	25.7	3.4	1.1	25.0	66.3	0.0	0.3	0.1	19.3	162.7	43.8	206.5
1996	1.6	108.2	11.8	3.3	3.4	1.2	37.0	56.8	0.0	0.2	0.1	20.2	187.1	45.9	233.1
1997	1.7	92.4	12.1	4.8	3.6	1.0	35.6	57.1	0.0	0.2	0.1	21.1	172.6	47.8	220.4
1998	1.6	82.9	11.0	3.3	2.6	0.9	39.3	57.2	0.0	0.2	0.1	21.1	163.1	47.9	210.9
1999	1.6	79.9	12.7	6.1	1.8	0.9	38.3	59.8	0.0	0.2	0.6	20.3	162.4	46.5	208.8
2000	1.9	107.1	13.2	1.6		0.9	36.9	54.4	0.0	0.2	0.6	18.7	182.9	42.6	225.6
2001 2002	1.8 1.8	106.8 98.1	12.7 12.1	1.2 1.2	3.3 3.2	0.5 0.8	20.4 27.9	38.1 45.3	0.0	0.4 0.3	0.7 0.7	18.0 18.1	165.7 164.3	40.1 40.4	205.8 204.8
2002	2.0	99.5	13.5	1.2		1.0	27.9	48.3	0.0	0.3	0.7	20.0	170.6	44.0	214.6
2003	2.0	108.9	13.3	1.5	3.9		30.9	50.3	0.0	0.3	0.5	20.4	182.4	45.1	227.5
2005	1.9	105.7	11.2	1.5	3 8	0.5	29.9	46.9	0.0	0.3	0.6	21.7	177 2	47.5	224.6
2006	1.9	R 99.4	12.9	R 1.8	3.9	0.9	32.3	^R 51.8	0.0	0.3	0.6	23.3	R 177.4	50.3 51.2	R 227.7
2007	1.9	104.2	13.5	18.5	2.7	1.0	34.4	70.0	0.0	0.4	0.6	23.7	200.8	51.2	251.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, New Mexico

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	2	17	201	1,919	2,186	124	159	9,213	25 36	13,826	0	0			
1965	(s)	25	239	2,618	2,530	203	165	10,511		16,301	0	0			
1970 1975	(s)	30 29	111 81	3,158 4,200	3,110 2,667	243 211	166 197	12,884 16,257	11 0	19,684 23,615	0	0			
1975	0	38	167	4,200 5,411	2,673	29	213	16,721	0	25,214	0	0			
1985	0	26	95	4,406	2,873	95	194	17,431	0	25,094	138	0			
1990	Ö	76	86	6,016	2,912	118	218	18,190	0	27,539	361	Õ			
1995	0	57	53	2,871	2,222	94	208	20,342	0	25,790	456	0			
1996	0	27	101	7,804	1,615	85	202	19,570	0	29,377	384	0			
1997 1998	0	62 53	102 61	8,504 9,296	R 1,752 R 2,198	75	214 224	20,794 21,403	0 0	R 31,440 R 33,182	386 655	0			
1998	0	53 49	70	9,296	2,723	1 17	224	21,403	0	33,182	551	0			
2000	0	46	73	9,327	3,017	18	223	20,883	0	33,541	627	0			
2001	ő	46	79	9,824	3,065	37	204	20,986	Ŏ	34,195	206	ő			
2002	0	42	74	9,928	2,510	19	202	21,398	0	34,129	175	0			
2003	0	29	64	10,207	2,438	51	186	21,451	0	34,398	140	0			
2004	0	27	89	11,411	2,274	81	189 188	22,416 22,262	0	36,459	155 R 224	0			
2005 2006	0	20 18	60 49	11,752 13,179	2,283 2,353	74 71	188	22,262 22,570	0	36,617 38,405	R 291 R 282	0			
2007	0	14	46	13,043	1,943	39	189	22,403	0	37,664	368	0			
								Trillion Btu							
1960	(s)	17.6	1.0	11.2	11.7	0.5	1.0	48.4	0.2	73.9	0.0	0.0	91.5	0.0	91.5
1965	(s)	27.6	1.2	15.3	13.7	0.8	1.0	55.2	0.2	87.4	0.0	0.0	115.0	0.0	115.0
1970	(s)	32.8	0.6	18.4	17.0	0.9	1.0	67.7	0.1	105.7	0.0	0.0	138.5	0.0	138.5
1975	0.0	31.2	0.4	24.5	14.6	0.8	1.2	85.4	0.0	126.9	0.0	0.0	158.1	0.0	158.1
1980 1985	0.0 0.0	40.2 28.2	0.8 0.5	31.5 25.7	14.6 15.7	0.1 0.3	1.3 1.2	87.8 91.6	0.0 0.0	136.2 134.9	0.0 0.5	0.0 0.0	176.3 163.6	0.0 0.0	176.3 163.6
1990	0.0	80.4	0.3	35.0	16.0	0.3	1.3	95.6	0.0	148.8	1.3	0.0	230.4	0.0	230.4
1995	0.0	58.0	0.3	16.7	12.6	0.3	1.3	106.1	0.0	137.3	1.6	0.0	195.3	0.0	195.3
1996	0.0	28.0	0.5	45.5	9.2	0.3	1.2	102.1	0.0	158.7	1.4	0.0	186.7	0.0	186.7
1997	0.0	63.8	0.5	49.5	9.9	0.3	1.3	108.4	0.0	169.9	1.4	0.0	233.7	0.0	233.7
1998	0.0	51.4	0.3	54.1 52.6	12.5	(s)	1.4	111.6	0.0	179.8	2.3	0.0	231.2	0.0	231.2
1999 2000	0.0 0.0	47.5 44.5	0.4 0.4	52.6 54.3	15.4 17.1	0.1 0.1	1.4	113.7 108.8	0.0	183.5	1.9 2.2	0.0 0.0	231.0 226.5	0.0 0.0	231.0 226.5
2000	0.0	44.5 44.5	0.4	54.3 57.2	17.1 17.4	0.1	1.4 1.2	108.8	0.0 0.0	182.0 185.7	2.2 0.7	0.0	226.5	0.0	226.5 230.2
2001	0.0	44.5	0.4	57.2 57.8	14.2	0.1	1.2	111.4	0.0	185.2	0.7	0.0	230.2	0.0	230.2 227.4
2002	0.0	29.8	0.3	59.5	13.8	0.1	1.1	111.7	0.0	186.6	0.5	0.0	216.4	0.0	216.4
2004	0.0	28.2	0.4	66.5	12.9	0.3	1.1	116.9	0.0	198.1	0.5	0.0	226.3	0.0	226.3
2005	0.0	20.6	0.3	68.5	12.9	0.3	1.1	116.2	0.0	199.3	R 1 n	0.0	219.9 R 227.7	0.0	219.9
2006 2007	0.0 0.0	18.3 14.1	0.2 0.2	76.8 76.0	13.3 11.0	0.3 0.1	1.1 1.1	117.8 116.9	0.0 0.0	209.5 205.4	R 1.0 1.3	0.0 0.0	^R 227.7 219.6	0.0 0.0	R 227.7 219.6

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, New Mexico

				Petro	leum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	owatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
960	26	34	107	10	0	117	0	69		0	0	0	0	_
960 965 970	2,418 5,518	44 55	42 86	4	0	46 94	0	43		0	0	0	0	-
970	5,518	55	86	8	0	94	0	66		0	0	0	0	-
975	7 425	65	1,704	34	0	1,738	0	63		0	0	0	0	-
975 980	11,406	56	175	216	0	391	0	94		0	0	0	0	-
985 990 995	14,498	28 25 32 35 40	41	45 37	0	86	0	128		0	0	0	0	-
990	15,065 15,137	25	32	37	0	69	0	205		0	0	0	0	
995	15,137	32		44	0	44	0	264		0	0	0	0	
996 997	15,215	35	(s) (s)	43 41	0	43	0	211		0	0	0	0	
997	15,802	40	(s)	41	0	42	0	259		0	0	0	0	
998 999	15,883 16,224	46 43 47	Ó	45 72	0	45 72	0	236		0	0	0	0	
999	16,224	43	0	/2	0	/2	0	243		0	0	0	0	
000	16,503	47	0	67	0	67	0	221		0	0	0	(s)	
01	16,503 15,955 15,197	49	9	61 54	0	70	0	237		0	0	0	0	
02	15,197	49 37 38	0	54	0	54	0	265		0	0	0	15 R 23	•
03	16,542 16,661	38 31	0	88	0	88	0	171 139		0	0	183 513	`` 23	
004	17,001	41	0	53	0	53	0	165		0	0	705	57 R -15	
005	17,034	56	0	88 53 64 73	0	64 73	0	198		0	0	1 255	24	
007	17,034 16,961 15,959	61	0	82	0	82	0	268		0	0	795 1,255 1,393	-34 -25	
							Trillion E	Stu						
960 965 970 975 980 985	0.6	34.9	0.7	0.1	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	37
965	43.5 99.1	48.7	0.3 0.5	(s) (s) 0.2	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	90 159 21 260 290
970	99.1	59.5	0.5	(s)	0.0	0.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	15
75	132.5	67.4	10.7	0.2	0.0	10.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	21
80	201.8	57.9	1.1	1.3 0.3 0.2	0.0	2.4 0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	26
85	266.4 274.7	28.5	0.3	0.3	0.0	0.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0	29
90	274.7	26.3	0.2	0.2	0.0	0.4	0.0	2.1	0.2	0.0	0.0	0.0	0.0	30
195	273.4 277.4 286.7	32.6	(s)	0.3 0.3 0.2	0.0	0.3	0.0	2.7	0.1	0.0	0.0	0.0	0.0	30
96 97	277.4	35.1 40.3	(s)	0.3	0.0	0.3 0.2	0.0	2.2 2.6	0.2	0.0	0.0	0.0	0.0 0.0	31
197	286.7	40.3	(s) (s) (s) 0.0	0.2	0.0	0.2	0.0	2.6	0.1	0.0	0.0	0.0	0.0	32
98 199	288.6	45.3	0.0	0.3 0.4	0.0	0.3 0.4	0.0	2.4	0.1	0.0	0.0	0.0 0.0	0.0	33
99	296.3	42.8	0.0	0.4	0.0	0.4	0.0	2.5	0.1	0.0	0.0	0.0	0.0	34
00	303.5 295.2	46.5 48.1	0.0 0.1	0.4	0.0 0.0	0.4 0.4	0.0 0.0	2.3 2.5	0.1 0.2	0.0 0.0	0.0	0.0 0.0	(s) 0.0	35
01	295.2 282.2	48.1 37.4	0.1	0.4 0.3	0.0	0.4	0.0	2.5	0.2	0.0	0.0 0.0	0.0	0.0	34
002	202.2	37.4	0.0	0.3	0.0	0.3	0.0	1.7	0.2	0.0	0.0	1.9	0.1	30 30 31 32 33 34 35 34 32 R 34 34 R 36
003 004	303.6 307.4	37.9 31.5	0.0	0.5	0.0	0.5 0.3	0.0	1.7	0.0	0.0	0.0	5.1	0.1	34
04	315.9	41.4	0.0	0.3	0.0	0.3	0.0	1.4	0.0	0.0	0.0	7.9	0.2 R -0.1	34 R و R
005	314.2	41.4 55.0	0.0	0.4	0.0	0.4	0.0	2.0	(s) 0.2	0.0	0.0	12.5	-0.1	30
006 007	294.1	55.9 62.1	0.0	0.4	0.0	0.4	0.0	2.0 2.6	0.2	0.0	0.0	13.8	-0.1 -0.1	38 37
101	∠34.1	UZ. I	0.0	0.5	0.0	0.5	0.0	2.0	0.5	0.0	0.0	13.0	-0.1	31

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, New York

						Petroleum						Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste f,g	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	26,418	419	82,380	9,411	2,849	95,706	77,563	29,628	297,538	0	12,087					
1965	28,736	545	104,033	23,620	3,174	109,226	104,296	23,028	367,377	727	19,576					
1970	23,936	711	111,107	38,338	4,506	130,737	152,252	23,414	460,354	4,273	25,051					
1975	12,678	577	105,118	38,634	5,188	133,461	144,721	22,486	449,609	13,111	28,323					
1980 1985	12,503 11,944	737 763	72,559 67,766	35,936 3,856	5,631 4,923	127,422 136,330	115,488 66,334	21,530 21,513	378,566 300,723	19,276 24,092	26,474 27,189					
1990	13,597	869	73,802	5,447	5,606	139,180	77,242	19,869	321,146	23,623	28,188					
1995	11,785	1,260	70,349	7.697	6,332	132,627	30,126	20,202	267,333	26,336	25,993					
1996	12,074	1,200	71,914	11,532 R 12,138	7,073	130,979	36,628	32,058	290,185	35,226	28,951					
1997	12,522	1,324	71,033	K 12,138	6,686	130,923	29,992 35,732	33,549	290,185 R 284,321 R 290,058	29,570	30,618					
1998 1999	12,952 12,187	1,233 1,274	64,516 71,969	R 14,800 9,122	7,306 7,316	131,469 133,621	35,732 35,353	36,235 36,672	290,058	31,314 37,019	29,316 24,752					
2000	12,107	1,274	79,039	9,122	9,850	132,831	42,349	35,068	308,653	31,508	24,732					
2001	11,783	1,172	82,878	14.655	7,111	133.724	37,090	22,188	297.644	40,395	23,084					
2002	10,908	1,200	76,684	15,428	7,613	136,664	31,110	20,130	287,629	39,617	25,048					
2003	11,314	1,102	88,919	17,268	7,771	138,010	46,578	20,486	319,031	40,679	24,269					
2004 2005	11,335 10,739	1,098	95,300	19,300	8,639	137,391 137,355	51,469	25,046	337,145	40,640	23,990					
2005	10,739	1,080 1.097	86,630 75,871	20,016 20,341	8,261 7,152	140,020	52,150 25,526	26,619 23,711	331,031 292,622	42,443 42,224	25,783 27,345					
2007	11,022	1,190	78,850	19,977	7,345	139,140	28,975	21,065	295,352	42,453	25,253					
								Trillion Btu								
1960	691.7	434.1	479.9	52.6	11.4	502.7	487.6	166.2	1,700.6	0.0	130.1	59.3	0.0	-38.5	12.4	2,989.6
1965 1970	755.2 598.9	558.7 725.8	606.0 647.2	133.2 216.7	12.7 17.0	573.8 686.8	655.7 957.2	136.1 138.5	2,117.5 2,663.4	8.6 46.9	204.6 262.9	58.1 62.6	0.0 0.0	-31.5 -43.6	1.7 3.2	3,672.9 4,320.2
1970	312.5	725.6 585.5	612.3	218.5	17.0	701.1	909.9	133.6	2,594.6	144.4	202.9	60.2	0.0	-43.6 -51.5	5.6	4,320.2 3,946.0
1980	313.7	R 755.9	422.7	203.3	20.7	669.3	726.1	126.6	2,168.7	210.3	275.0	129.7	0.0	24.8	21.1	3,899.1
1985	301.4	R 784.7	394.7	21.4	17.7	716.1	417.0	128.6	1,695.6	255.9	284.0	131.5	0.0	22.4	57.1	3,532.7
1990	349.8	R 895.4	429.9	30.4	20.3	731.1	485.6	118.1	1,815.5	250.0	293.2	97.4	0.3	47.4	2.0	3,750.9
1995	305.3	R 1,295.4 R 1,230.8	409.8 418.9	43.6	22.9 25.6	691.7 683.2	189.4	120.7	1,478.2 1.606.4	276.7 370.0	268.0	122.6 139.2	0.6	89.5	28.8	3,865.1 4,056.5
1996 1997	311.8 325.2	R 1,230.8	413.8	65.4 68.8	25.6 24.2	682.5	230.3 188.6	183.0 191.8	1,569.6	370.0	299.4 312.7	139.2	0.7 0.8	75.6 43.2	22.8 4.4	4,056.5 4,102.0
1998	337.4	R 1,267.1	375.8	R 83.9	26.4	685.2	224.6	208.0	1,604.0	328.5	298.9	159.0	0.8	28.4	2.1	R 4,026.4
1999	318.0	R 1.308 7	419.2	51.7	26.5	696.3	222.3	210.1	1,626.1	386.8	253.1	167.1	0.9	52.3	2.9	4,115.8
2000	330.8	R 1,279.7	460.4	54.0	35.5	692.0	266.2	199.8	1,707.9	328.6	254.1	176.1	1.0	140.8	28.7	4,247.7
2001	307.0	R 1,205.9	482.8	83.1	25.7	696.7	233.2	132.1	1,653.5	422.0	238.5	111.1	1.1	94.8	25.5	4,059.5
2002 2003	280.6 286.2	1,191.2 1.145.7	446.7 518.0	87.5 97.9	27.5 28.2	711.7 718.6	195.6 292.8	119.6 121.7	1,588.6 1,777.2	413.6 423.9	254.8 248.5	107.4 110.2	1.8 1.5	163.9 149.9	37.4 18.7	4,039.2 4,161.8
2003	286.2 276.5	1,145.7	518.0 555.1	109.4	28.2 31.3	716.5 716.5	292.8 323.6	150.1	1,777.2	423.9 423.8	248.5 240.4	110.2	1.5 2.4	149.9	17.7	4,161.8 4,248.4
2005	256.9	1 108 3	504.6	113.5	29.9	716.7	327.9	159.1	1,851.7	442.9	257.8	R 105 2	2.4	112.7	24.9	R 4.163.0
2006	254.5	R 1,123.5	442.0	115.3	25.8	730.6	160.5	142.4	1,616.6	440.6	271.2	R 100.8	8.4	74.1	34.1	R 3,923.7
2007	257.5	1,218.9	459.3	113.3	26.4	726.2	182.2	126.1	1,633.4	445.2	249.6	105.0	10.4	105.8	38.5	4,064.3

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Geothermal, solar thermal, photovoltaic, and wind energy.

i Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

¹ Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, New York

				reno	leum		Biomass			D 4 "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal ^d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960 1965	1,158 735	225 288	44,927 57,623	4,174 4,161	2,130 2,254 2,782	51,232 64,037	1,295 1,070			12,496 17,027			
1970	373	347	60,128	5.581	2.782	68,491	1,096			25,492			
1975	128	327	55,966	5,581 3,746	3.078	62.790	1.103			28.710			
1980	75 95 55 29	334 320 338	37.690	1.723	2,511 3,227 4,079	41.923	3.960			30,583 32,757			
1985	95	320	34,608	3,219 1,765	3,227	41.054	3,655 1,902			32,757			
1990	55	338	31,520	1,765	4,079	37,364	1,902			38,574			
1995	29	375	28,624	1,240	4,516	34,381	2,618			39,887			
1996 1997	34 28	403 376	30,240 29,367	1,450	4,937	36,627	2,719 4,202			40,285			
1997	20 16	340	29,367 26,637	1,744 1,866	4,937 4,379 4,323 4,691	35,490 32,827	3,734			40,059 40,563			
1999	22	371	28,347	2,327	4,691	35,365	3,931			42,919			
2000	11	400	35,229	2.344	6.211	43.785	4.225			43,018			
2001	13	400 376	35,229 36,502	2,344 2,390	6,211 4,698	43,785 43,591	4,225 2,755			44.236			
2002	5	370	32 893	1 642	5,441 5,390	39,977 40,876 42,288	2.796			46,457 47,116			
2003	11	410	33,847 34,262	1,639 2,065	5,390	40,876	2,943			47,116			
2004	16	393	34,262	2,065	5,961	42,288	3,017			47,379			
2005 2006	13 R 13	406	35,054 26,797	2,203	4,903 R 4,504	42,160 R 33,105	R 2,518			50,533			
2007	12	356 397	30,101	1,803 1,318	R 4,504 5,140	36,559	R 2,518 R 2,292 2,527			48,427 50,241			
						Tr	rillion Btu						
1960	28.6 17.9	232.5 295.0 353.8	261.7	23.7	8.5	293.9	25.9	0.0	0.0	42.6	623.5	105.4	729.0
1965	17.9	295.0	335.7	23.6	9.0	368.3	21.4	0.0	0.0	58.1 87.0	760.7	138.7	899.5 1,074.4
1970	8.8	353.8	350.2	31.6	10.5	392.4	21.9	0.0	0.0	87.0	863.9	210.5	1,074.4
1975	2.9	332.2	326.0 219.5 201.6	21.2	11.4 9.2	358.7	22.1	0.0	0.0	98.0	813.8	235.6	1,074.4 1,049.4 1,015.4 1,004.0 1,031.8 1,075.1 1,121.7
1980	1.8 2.3	R 341.5 R 328.8 R 347.9	219.5	9.8 18.3	9.2 11.6	238.5 231.5	79.2	0.0 0.0	0.0 0.0	104.3 111.8	763.8 746.6	251.5 257.4	1,015.4
1985 1990	1.4	R 347 0	183.6	10.0	14.8	208.4	73.1 38.0	0.0	0.0	131.6	727.5	304.4	1,004.0
1995	0.7	R 386.7	166.7	7.0	16.4	190.1	52.4	(s) 0.1 0.1	0.3	136.1	766.0	309.1	1,031.0
1995 1996	0.7 0.8	R 386.7 R 414.1	166.7 176.1	7.0 8.2	16.4 17.8	190.1 202.2	52.4 54.4	0.1	0.4 0.5	137.5	766.0 809.2	312.6	1,121.7
1997	0.7	R 385.8	171.1	9.9	15.8	196.8	84.0	0.1	0.5	136.7	804.3	309.7	1,114.0
1998	0.4	R 385.8 R 349.5	171.1 155.2	10.6	15.6	181.4	74.7	0.1	0.6	138.4	744.8	313.9	1,114.0 1,058.7
1999	0.6	R 381.3 R 413.1 R 388.8	165.1 205.2	13.2 13.3	17.0	195.3	78.6	0.1	0.6	146.4	802.6	335.0 333.9	1,137.6 1,219.8
2000	0.3	K 413.1	205.2	13.3	22.4	240.9	84.5	0.1	0.6	146.8	886.0	333.9	1,219.8
2001	0.3	^ 388.8	212.6	13.6 9.3	17.0	243.2 220.6	55.1	0.1	0.6	150.9	838.6	336.3	1,174.9 1,152.0
2002 2003	0.1 0.3	362.9	191.6	9.3	19.7 19.6	220.6	55.9 58.9	0.1 0.1	0.6 0.6	158.5 160.8	798.7 874.6	353.3 354.7	1,152.0 1,229.3
2003	0.3	428.0 R 400.4	197.2 199.6	9.3 11.7	21.6	232 9	50.9 60.3	0.1	0.6	161.7	856.5	354.7 357.7	1,229.3
2004	0.3	R 417.5	204.2	12.5	17.7	234.4	60.3 R 50.4 R 45.8	0.1	0.7	172.4	K 876 0	377.1	1,214.2 R 1,253.1 R 1,118.5
2006	0.3	365.9	156.1	10.2	17.7 R 16.2	R 182.6	R 45.8	0.1	1.2	165.2	R 761.2 831.9	357.3	R 1,118.5
2007	0.3	406.8	156.1 175.3	10.2 7.5	18.5	234.4 R 182.6 201.3	50.5	0.2	1.4	171.4	831.9	369.9	1,201.8

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation methodology. ' Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in

both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New York

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total ^{f,h}
1960	805	63	15,225	468	376	636	28,208	44,913	0			17,546			
1965	555	87	19,527	467	398	828	37,514	58,733	0			23,528			
1970	293	139	20,376	626	491	1,052	43,318	65,863	Ő			32,790			
1975	300	128	18,965	420	543	1,162	28,482	49,573	0			37,827			
1980	283	162	14,492	169	443	1,035	25,431	41,569	0			40,471			
1985	339	165	13,215	862	569	1,911	16,677	33,235	0			48,816			
1990	218	195	15,415	269 714	720	1,201	17,400	35,004	7			56,025			
1995 1996	191 249	231 253	15,711 15,531	714 751	797 871	208 200	13,555 12,791	30,985 30,145	4 7			62,509 62,663			
1997	226	321	14,337	801	773	195	10,105	26,210	5			64,033			
1998	131	335	11,914	981	763	212	6.765	20,636	4			65.834			
1999		360	13,946	682	828	200	7,439	23,095	3			67,969			
2000	158 90	366	15,128	948	1,096	202	9,429	26,803	4			70,417			
2001	102	347	16,865	874	829	218	7,193	25,979	0			71,850			
2002	40	362	15,032	493	960	855	8,678	26,018	(s)			73,198			
2003	73	339	19,198	665	951	293	10,784	31,892	(s)			72,495			
2004	145	359	19,907	745	1,052	197	11,441	33,341	5			74,378			
2005 2006	147 R 127	276 260	18,086	759	865 R 795	235	10,066	30,012 R 24,976	3 5			76,822			
2006	109	290	15,602 14,606	354 244	907	284 263	7,941 8,723	24,744	5 4			76,029 74,326			
2007	109	230	14,000	244	301	200	0,723	· · · · · · · · · · · · · · · · · · ·				74,320			
-								Trillion Btu							
1960	19.9	65.2	88.7	2.7	1.5	3.3	177.3	273.5	0.0	0.5	0.0	59.9	419.0	148.1	567.0
1965	13.5	88.8	113.7	2.6	1.6	4.3	235.9 272.3	358.2	0.0	0.4	0.0	80.3	541.2	191.7	732.9
1970	6.9	142.4	118.7	3.5	1.9	5.5	272.3	402.0	0.0	0.4	0.0	111.9	663.6	270.8	934.4
1975	6.8	130.2	110.5	2.4	2.0	6.1	179.1	300.0	0.0	0.4	0.0	129.1	566.5	310.4	876.8
1980 1985	6.6 8.1	165.5 170.0	84.4 77.0	1.0 4.9	1.6	5.4 10.0	159.9 104.8	252.3 198.8	0.0 0.0	2.0 1.7	0.0 0.0	138.1 166.6	563.7 544.8	332.8 383.6	896.6 928.4
1985	5.4	200.7	77.0 89.8	4.9 1.5	2.1 2.6	6.3	104.8	209.6	0.0	4.4		191.2	611.3	383.6 442.0	1,053.3
1995	4.8	238.5	91.5	4.1	2.0	1.1	85.2	184.8	(s)	10.6	(s) 0.1	213.3	651.9	484.4	1,136.2
1996	6.2	259.9	90.5	4.3	3.1	1.0	80.4	179.3	0.1	11.0	0.2	213.8	670.2	486.2	1,156.4
1997	5.6	329.5	83.5	4.5	2.8	1.0	63.5	155.4	0.1	17.7	0.2	218.5	726.8	495.0	1,221.8
1998	3.3	345.3	69.4	5.6	2.8	1.1	42.5	121.4	(s)	15.9	0.2	224.6	710.5	509.4	1.219.9
1999	4.0	370.4	81.2	3.9	3.0	1.0	46.8	135.9	(s)	16.8	0.2	231.9	759.2	530.5	1,289.7
2000	2.3	377.7	88.1	5.4	4.0	1.1	59.3	157.8	(s)	18.1	0.2	240.3	796.1	546.5	1,342.6
2001	2.5	358.9	98.2	5.0	3.0	1.1	45.2	152.6	0.0	12.2	0.3	245.2	771.2	546.3	1,317.6
2002	1.0	355.6	87.6	2.8	3.5	4.5	54.6	152.8	(s)	12.4	0.3	249.8	771.9	556.7	1,328.6
2003	1.8	354.6	111.8	3.8	3.5	1.5	67.8	188.4	(s)	12.8	0.4	247.4	805.3	545.8	1,351.1
2004	3.6	366.1	116.0	4.2	3.8	1.0	71.9	196.9	(s)	12.6 R 10.6	0.4	253.8	833.6	561.5	1,395.1
2005 2006	3.7 3.2	283.4 266.9	105.4 90.9	4.3 2.0	3.1 2.9	1.2 1.5	63.3 49.9	177.3 147.2	(s) 0.1	R 10.6	0.5 0.5	262.1 259.4	737.6 687.3	573.3 560.9	R 1,311.0 R 1,248.2
2006	3.2 2.7	200.9 296.9	90.9 85.1	2.0 1.4	3.3	1.5	49.9 54.8	147.2	(s)	10.1	0.5 0.6	259.4 253.6	710.3	560.9 547.2	1,248.2
2001	۷.1	200.0	00.1	1.7	0.0	1.7	57.0	170.3	(3)	10.5	0.0	200.0	110.0	577.2	1,207.7

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

ⁱ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, New York

					Petro	leum			Unidan	Biomass		D-1-11			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	l Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	11,947	72	12,930	325	3,369	22,444	9,888	48,956	341			14,428			
1965	13,811	93	16,909	485	3,708	29,213	14,852	65,167	275 269			23,101			
1970 1975	12,125 6,125	116	16,810 15,761	1,125 1,442	3,281 1,351	33,696	15,763 17,096	70,676 58,689	188			27,152			
1975	5,699	105 114	9,339	2,598	1,535	23,039 14,815	18,254	46,541	188			27,247 32,110			
1985	3,723	101	9,339 5,378	2,596	1,224	5,553	16,243	29,378	233 233			28,659			
1990	3,199	101	4,073	657	1,145	4,684	16,667	27,227	129			31,929			
1995	2 791	215	3,071	881	1,126	1,990	17,131	24,199	94			25,317			
1996	2,791 2,799	216	3,071 3,053	1.142	1,114	2,456	28,759	36,524	115			25,947			
1997	2.804	207	2,922	1,445	1,173	1,965	29,870	37,375	115			25,285			
1998	2.878	173	3,016	1,687	1,030	1,868	31,814	39.416	109			25,218			
1999	2,742 2,747	102	3,441	1,772	899	1,623	31 808	39,543 38,852	101			25.835			
2000	2,747	97	3,285	2,308	931	2,005	30,323	38,852	87			25,838			
2001	2.411	85 93 84	2,981	1,559	1,741	1,544	17,619	25,444 23,966	70			25,450			
2002	1,708	93	2,889	1,145	1,984	1,362	16,585	23,966	67			25,148			
2003	1,583	84	2,960	1,379	2,112	1,584	17,040	25,075	80			21,745			
2004	1,472	79	3,481	1,561	2,145	1,483	20,554	29,223	78			20,675			
2005	1,510 1,354	81 78	3,371	2,417 R 1,754	2,214	1,337	20,190	29,528	59			19,947			
2006 2007	1,354	80	3,463 3,625	1,243	2,426 2,164	1,301 1,461	19,756 17,879	R 28,700 26,371	87 58			14,976 20,213			
							Tri	llion Btu							
1960 1965	311.9	74.2 95.3	75.3 98.5	1.3	17.7	141.1	62.3	297.7 394.4	3.7	32.9 36.3	0.0	49.2	769.6 967.8	121.8	891.4
1965	360.1	95.3	98.5	1.9	19.5	183.7	90.8	394.4	2.9	36.3	0.0	78.8	967.8	188.2	1,156.0
1970	308.4	118.0	97.9	4.3	17.2	211.8	94.8	426.0	2.8	40.3	0.0	92.6	988.2	224.2	1,212.4 969.9
1975	155.5	106.2	91.8	5.4	7.1	144.8	102.8	351.9	2.0	37.7	0.0	93.0	746.3	223.6	969.9
1980	146.5 94.8	R 116.4	54.4	9.5	8.1	93.1	107.8	272.9	2.4	48.4 56.7	0.0	109.6	695.7	264.1	959.8
1985	94.8 82.6	R 103.6	31.3 23.7	3.5	6.4	34.9 29.5	98.5	174.7	2.4 1.3	56.7	0.0	97.8	529.8 485.7	225.2 251.9	755.0 737.6
1990 1995	72.4	105.1 R 221.2	23.7 17.9	2.4 3.2	6.0 5.9	29.5 12.5	99.5 103.0	161.1 142.4	1.0	26.6 20.9	0.0 0.0	108.9 86.4	485.7 544.1	196.2	737.6
1995	72.5	R 221.4	17.8	4.1	5.8	15.4	164.0	207.1	1.0	32.6	0.0		623.1	201.3	740.2
1990	72.7	R 212.1	17.0	5.2	6.1	12.4	170.6	211.3	1.2 1.2	34.5	0.0	86.3	618.0	195.5	824.4 813.4
1998	75.1	R 177.8	17.6	6.1	5.4	11.7	182.6	223.4	1.1	28.9	0.0	86.0	592.3	195.1	787.4
1999	71.6	R 105.2	20.0	6.4	4.7	10.2	181.9	223.3	1.0	30.4	0.0		519.6	201.6	721.2
2000	73.5	100.2	19.1	8.3	4.8	12.6	172.4	217.3	0.9	32.1	0.0	88.2	512.1	200.5	712.6
2001	63.1	R 87.9	17.4	5.6		9.7	105.9	147.7	0.7	17.7	0.0	86.8	403.9	200.5 193.5	712.6 597.4
2002	45.2	91.4	16.8	4.1	10.3	8.6	99.1	139.0	0.7	14.0	0.0	85.8	376.1	191.3	567.3
2003	41.9	_ 87.3	17.2	5.0	11.0	10.0	101.8	145.0	0.8	13.9	0.0	74.2	363.0	163.7	526.8
2004	38.9	R 80.4	20.3	5.6		9.3	124.2	170.6	0.8	17.2	0.0	70.5	378.5	156.1	534.6
2005	39.9	_ 83.7	19.6	_ 8.8	11.6	8.4	121.7	170.0 R 166.6	0.6	16.9	0.0	68.1	379.2 R 351.5	148.9	528.1 R 462.0
2006	35.3	R 80.5	20.2	R 6.3	12.7	8.2 9.2	119.3	K 166.6	0.9	17.1	0.0	51.1	K 351.5	110.5	K 462.0
2007	33.9	82.2	21.1	4.5	11.3	9.2	107.6	153.6	0.6	16.5	0.0	69.0	355.8	148.8	504.6

^a Includes supplemental gaseous fuels.

but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

¹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. -- = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, New York

						Pe	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total ^{e,f}
1960	205	2	13,729	8,758	9,411	18	1,368	91,701	17,060	142,046	0	2,045			
1965	45	3	2,427	8,800	23,620	38	1,122	104,690	16,158	156,856	0	2,144			
1970	19	3	249	10,653	38,338	107	1,196	126,403	18,450	195,396	0	2,366			
1975	1	3	274	10,488	37,252	125	950	130,948	8,862	188,899	0	2,057			
1980 1985	0	4	320 221	10,309 13,744	35,916 3,856	79 147	1,064 968	124,853 133,195	11,344 884	183,885 153,015	0	2,146 2,442			
1990	0	5	78	21,700	5,447	150	1.089	136,834	1,358	166,656	0	2,795			
1995	ő	8	76	21,316	7 697	138	1,039	131,294	2,318	163 878	648	2,757			
1996	0	8	66	21,822	11,532 R 12,138 R 14,800	123	1,009	129,665	6,441	170,658 R 170,865 R 172,495	546	2,632			
1997	0	8	68	22,839	R 12,138	90	1,066	129,555	5,109	R 170,865	526	2,567			
1998	0	8	238	21,558	K 14,800	533 25	1,116	130,227	4,024	K 172,495	391	2,580			
1999	0	9	84 75	24,028	9,122	25	1,127	132,521	6,237	173,145	338 374	2,654			
2000 2001	0 0	8 6	75 249	23,044 23,520	9,516 14,655	234 25	1,110 1,017	131,698 131,764	8,126 3,207	173,804 174,437	374 106	2,753 2,646			
2001	0	9	175	23,641	15,428	66	1,005	133,825	3,826	177,966	93	2,637			
2003	ő	8	18	30,504	17,268	51	929	135,605	4,583	188,959	540	2,689			
2004	0	9	226	35,910	19,300	66	942	135,049	5,823	197,315	6 904	2,650			
2005	0	13	275	28,545	20,016	75	937	134,906	5,684	190,437	R 2,280 R 5,939	2,846			
2006	0	14	25	29,388	20,341	99	913	137,309	6,530	194,606	R 5,939	2,806			
2007	0	16	185	29,146	19,977	56	942	136,714	7,063	194,083	7,482	3,397			
								Trillion Btu							
1960	5.3	2.4	69.3	51.0	52.6	0.1	8.3	481.7	107.3	770.3	0.0	7.0	784.9	17.3	802.2
1965	1.2	3.4	12.3	51.3	133.2	0.2	6.8	549.9	101.6	855.2	0.0	7.3	867.1	17.5	884.6
1970 1975	0.5	3.2 3.0	1.3 1.4	62.1 61.1	216.7 210.7	0.4 0.5	7.3 5.8	664.0 687.9	116.0 55.7	1,067.7 1,023.0	0.0 0.0	8.1 7.0	1,079.5 1,033.0	19.5 16.9	1,099.0 1,049.8
1975	(s) 0.0	3.6	1.4	60.1	203.2	0.3	5.6 6.5	655.9	71.3	998.8	0.0	7.0	1,033.0	17.6	1,049.6
1985	0.0	3.6	1.1	80.1	21.4	0.5	5.9	699.7	5.6	814.2	0.0	8.3	826.1	19.2	845.3
1990	0.0	4.9	0.4	126.4	30.4	0.5	6.6	718.8	8.5	891.7	0.0	9.5	906.1	22.1	928.2
1995	0.0	8.6	0.4	124.2	43.6	0.5	6.3	684.7	14.6	874.3	2.3	9.4	892.3	21.4	913.6
1996	0.0	8.4	0.3	127.1	65.4	0.4	6.1	676.3	40.5	916.2	1.9	9.0	933.6	20.4	954.0
1997	0.0	7.7	0.3	133.0	68.8	0.3	6.5	675.4	32.1	916.5	1.9	8.8	933.0	19.8	952.8
1998	0.0	8.2	1.2	125.6	R 83.9 51.7	1.9	6.8	678.7	25.3 39.2	R 923.4 928.8	1.4	8.8	R 940.4 946.7	20.0	R 960.4
1999 2000	0.0 0.0	8.8 8.5	0.4 0.4	140.0 134.2	51.7 54.0	0.1 0.8	6.8 6.7	690.6 686.1	39.2 51.1	928.8 933.4	1.2 1.3	9.1 9.4	946.7 951.3	20.7 21.4	967.4 972.7
2000	0.0	6.2	1.3	134.2	54.0 83.1	0.8	6.2	686.5	20.2	933.4 934.3	0.4	9.4 9.0	951.3 949.5	20.1	969.6
2001	0.0	8.8	0.9	137.7	87.5	0.1	6.1	697.0	24.1	953.4	0.4	9.0	971.2	20.1	991.3
2003	0.0	8.7	0.1	177.7	97.9	0.2	5.6	706.1	28.8	1,016.4	1.9	9.2	1,034.3	20.2	1,054.6
2004	0.0	8.9	1.1	209.2	109.4	0.2	5.7	704.3	36.6	1,066.6	24.4 R 8.1	9.0	1 084 5	20.0	1 104 5
2005	0.0	13.1	1.4	166.3	113.5	0.3	5.7	703.9	35.7	1,026.8	R 8.1	9.7	1,049.6 R 1,074.3	21.2	1,070.9 R 1,095.0
2006	0.0	R 14.6	0.1	171.2	115.3	0.4	5.5	716.5	41.1	1,050.1	R 21.0	9.6	K 1,074.3	20.7	K 1,095.0
2007	0.0	16.1	0.9	169.8	113.3	0.2	5.7	713.5	44.4	1,047.8	26.5	11.6	1,075.5	25.0	1,100.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, New York

				Petro	leum		Needeen		Biomass				Electricity	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960 1965 1970 1975 1980	12,302	58 74	9,851	540	0	10,391	0	11,746		0	0	0	3,623	
1965	13,591 11,125	74	9,851 21,410	1,174	0	10,391 22,584 59,927 89,658	727	19,301 24,781 28,135		0	0	0	495	
1970	11,125	106	56.787	3,139 5,319	0	59,927	4,273	24,781		0	0	0	944	
1975	6,124	14	84,338	5,319	0	89,658	13,111	28,135		0	0	0	1,632	
1980	6,446	124	63,898	749	0	64,647	19,276	26,241 26,956 28,052 25,895 28,830 30,498 29,203 24,648 24,819 23,014 24,981 24,189 23,907 25,720 27,252 25,191		0	0	0	7,167	
1985	7,787	173 229	43,220	821 1,095	0	44,041 54,895	24,092 23,623	26,956		0	0	0	17,287	
1990	10,125 8,774 8,992 9,464 9,928	424	53,800 12,264	1,095	0	04,090 12 001	26,336	20,032		0	0	0	712 8,899	
1995	8 002	431 320	14,940	1,627 1,268	23	13,891 16,231 14,381	35,226	28,830		0	0	0	7,049	
1997	9.464	413	12,813	1,568 1,390 2,207 2,352 3,010 2,229	0	14 381	29,570	30.498		0	0	0	1,550	
1998	9 928	377	23,075	1,300	220	24,685 22,905 25,409 28,194 19,702	31,314	29 203		0	0	0	826	
1990 1995 1996 1997 1998 1999 2000 2001 2002	9 265	433	20,053	2 207	644	22 905	37,019	24 648		Ŏ	Õ	ŏ	977	
2000	9,265 9,763 9,258	433 373	20,053 22,789	2.352	267	25,409	31.508	24.819		Ŏ	Ö	10	8,664	
2001	9,258	357	25 146	3,010	38	28,194	40,395	23,014		Ö	Ö	21	7.762	
2002	9,154	357 366	17.244	2,229	229	19,702	40,395 39,617	24,981		0	0	82	10.964	
2003	9 646	261 259 304	29,627 32,722	2,410	194	32,230	40.679	24,189		0	0	41	R 5.489	
2004	9,702	259	32,722	1,740	514	34,977	40,640	23,907		0	0	116	5,194 R 7,313	
2005	9,069	304	35,064	1,574	2,256	38,894	42 443	25,720		0	0	103 655	^R 7,313	
2003 2004 2005 2006 2007	9,417 9,613	388	35,064 9,754 11,728	2,410 1,740 1,574 622 1,372	860	32,230 34,977 38,894 11,236 13,596	42,224 42,453	27,252		0	0	655	9,986 11,288	
2007	9,613	408	11,728	1,372	496	13,596	42,453	25,191		0	0	833	11,288	
							Trillion E	Btu						
1960 1965 1970 1975 1980 1985 1990	326.1	59.8	61.9	3.1	0.0	65.1	0.0	126.4 201.8	0.0	0.0	0.0	0.0	12.4	589.7 792.2 1,068.3
1965	362.6 274.4	76.1	134.6 357.0	6.8	0.0	141.4	8.6	201.8	0.0	0.0	0.0	0.0	1.7	792.2
1970	2/4.4	108.4	357.0	18.3	0.0	141.4 375.3 561.0	46.9	260.1	0.0	0.0	0.0	0.0	3.2	1,068.3
1975	147.3 158.8	14.0 R 400.0	530.2 401.7 271.7 338.2	30.8	0.0	561.0	144.4	292.8 272.6	0.0 0.1	0.0	0.0 0.0	0.0	5.6 24.5	1,165.0
1980	196.2	R 128.9	401.7	4.4	0.0 0.0	406.1 276.5 344.6	210.3	281.6	0.1	0.0 0.0	0.0	0.0 0.0	24.5 59.0	1,200.6
1000	260.4	R 236 8	27 1.7	4.8 6.4	0.0	2/0.5	255.9 250.0	291.8	(s) 28.4	0.0	0.0	0.0	2.4	1,247.3
1005	200.4	R 440 4	77.1	0.4	0.0	86.6	276.7	267.0	38.7	0.0	0.0	0.0	30.4	1 366 6
1996	227.4 232.3	R 326 9	93.9	9.5 7.4	0.1	86.6 101.5	370.0	267.0 298.1	38.7 41.2	0.0	0.0	0.0	24.1	1,300.0
1997	246.2	R 422 9	80.6	9.1	0.0	89.7	310.3	311.5	41.4	0.0	0.0	0.0	5.3	1 426 9
1995 1996 1997 1998	246.2 258.6	14.0 R 128.9 R 178.7 R 236.8 R 440.4 R 326.9 R 422.9 R 386.3 R 443.0 R 380.1 R 364.1	145.1	8.1	1.3	89.7 154.5 142.8	328.5	297.8 252.0	39.6	0.0	0.0	0.0	5.3 2.8	1,065.3 1,165.0 1,200.6 1,247.5 1,414.3 1,366 1,393.7 1,426.9 1,467.8
1999	241.8	R 443.0	126.1	12.9	3.9	142.8	386.8	252.0	39.6 R 41.4	0.0	0.0	0.0	3.3	
2000	254.8	R 380.1	143.3	13.7	1.6	158.6	328.6	253.2	41.4	0.0	0.0	0.1	29.6	1,446.0
2001	241.1	R 364.1	158.1	17.5 13.0	0.2	158.6 175.9 122.8	422.0	253.2 237.8	26.1	0.0	0.0	0.2	26.5	1,446.0 1,493.4 1,460.6
2002	234.3	372.5	108.4	13.0	1.4	122.8	413.6	254.1	25.0	0.0	0.0	0.8	37.4	1,460.6
2003 2004 2005	242.1	267.1 R 264.2	186.3	14.0	1.2	201.5	423.9	247.7	24.7	0.0	0.0	0.4	18.7	1,426.1 R 1,424.9 1,520.1
2004	233.6	K 264.2	205.7	10.1 9.2	3.1	219.0	423.8	239.6	26.0	0.0	0.0	1.2 1.0	17.7	K 1,424.9
2005	213.0	310.6	220.4	9.2	13.6	243.2	442.9	257.2	27.3	0.0	0.0	1.0	R 25.0	1,520.1
2006	215.8	395.5	61.3	3.6	5.2	70.1	440.6	270.3	27.8	0.0	0.0	6.5 8.2	34.1	1,460.7
2007	220.6	416.9	73.7	8.0	3.0	84.7	445.2	249.0	27.5	0.0	0.0	8.2	38.5	1,490.7

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, North Carolina

						Petroleum				Martan	Hadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	8,947	45	13,445	3,401	2,635	35,875 43,144	4,603	16,310	76,268	0	4,998					
1965 1970	12,707 20,417	76 151	17,182 22,612	3,649 4,702	4,188 5,489	43,144 56,348	4,723 6,778	17,801 17,651	90,687 113,580	0	5,385 4,374					
1975	20,417	115	21,259	3.809	6,445	66,935	7.779	11,858	118,083	1,405	7.055					
1980	25,466	153	24,116	5,209	7,979	66,222	9,058	10,880	123,465	5,775	5,486					
1985	22,052	134	26,290	6,668	7,546	70,856	6,233	11,990	129,582	19,303	4,094					
1990 1995	22,590 26,434	162 205	26,189 31,396	5,567 4,947	8,892 12,137	77,525 86,421	5,857 6,263	12,192 14,846	136,222 156,010	25,905 35,910	6,819 5,521					
1996	29,813	214	32,589	9.127	13,917	88,147	6.832	19,067	169,679	33,718	5,952					
1997	30,859	216	32,724	9,127 R 7,156	15,789	90,933	5,999	20,060	169,679 R 172,661	32,453	5,626					
1998	30,319	214	33,296	R 6,761	13,100	94,177	4,884	21,393	R 173,611	38,778	5,738					
1999 2000	29,738 31,371	217 234	31,371 36,210	6,802 7,277	11,858 14,101	97,421 97,833	4,364 4,969	20,642 20,406	172,458 180,797	37,524 39,127	3,684 3,138					
2001	30,481	207	36,595	6,051	13,847	98,717	3,623	18,167	177,000	37,775	2,596					
2002	31,208	235	34,084	4,825	12,562	100,642	3,972	16,687	172,771	39,627	3,492					
2003	31,124	219	34,755	5,246	11,945	102,618	4,904	16,898	176,365	40,907	7,201					
2004 2005	31,723 32,860	225 230	36,644 36,441	5,397 7,366	12,122 13,192	105,414 105,796	5,910 5,568	18,442 17,387	183,929 185,750	40,091 39,982	5,435 5,397					
2006	31,797	223	35,689	5,323	13,062	106,440	4.223	16,248	180,985	39,963	3,839					
2007	33,599	237	35,483	7,161	12,074	107,871	3,756	15,786	182,132	40,045	2,984					
								Trillion Btu								
1960 1965	231.3 325.9	47.0 78.2	78.3 100.1	18.2 19.7	10.6 16.8	188.4 226.6	28.9 29.7	94.9 103.4	419.4 496.3	0.0 0.0	53.8 56.3	73.7 67.3	0.0 0.0	1.7 -21.8	0.0 0.0	827.0 1,002.2
1970	491.4	154.9	131.7	25.7	20.7	296.0	42.6	103.4	620.6	0.0	45.9	65.9	0.0	-33.5	0.0	1,345.2
1975	476.5	116.9	123.8	20.8	23.9	351.6	48.9	70.3	639.5	15.5	73.4	66.4	0.0	74.8	0.0	1,463.0
1980	624.7	R 155.2	140.5	28.7	29.3	347.9	56.9	64.6	667.9	63.0	57.0	78.9	0.0	31.5	(s)	1,678.1
1985 1990	550.5 568.3	R 138.4 166.7	153.1 152.6	37.0 30.8	27.2 32.2	372.2 407.2	39.2 36.8	71.2 72.8	700.0 732.5	205.0 274.1	42.8 70.9	94.0 97.5	0.0 0.3	74.0 174.8	0.8	1,805.4 2,085.2
1995	662.9	212.0	182.9	28.0	44.0	450.7	39.4	89.7	834.7	377.3	56.9	111.5	0.3	139.9	0.0	2,395.5
1996	744.3	222.1	189.8	51.7	50.3	459.8	43.0	109.3	903.9	354.1	61.5	109.5	0.3	118.7	0.0	2,514.5
1997	765.9	223.4	190.6	40.6	57.1	474.0	37.7	115.2	915.2	340.6	57.5	107.0	0.3	112.1	0.0	2,522.1
1998 1999	754.3 742.4	222.7 R 224.8	193.9 182.7	38.3 38.6	47.3 42.9	490.9 507.7	30.7 27.4	123.2 118.7	924.4 918.0	406.8 392.1	58.5 37.7	100.8 102.1	0.3 0.3	91.2 154.7	0.0 (s)	R 2,559.1 2,572.0
2000	786.1	240.7	210.9	41.3	50.9	509.7	31.2	117.6	961.6	408.1	32.0	104.2	0.3	145.7	(s)	2,678.7
2001	756.3	215.6	213.2	34.3	50.0	514.3	22.8	106.7	941.3	394.7	26.8	100.2	0.3	161.5	(s)	2,596.8
2002	770.9	244.8	198.5	27.4	45.4	524.1	25.0	97.9	918.3	413.7	35.5	89.4	0.4	144.7	(s)	2,617.6
2003 2004	771.6 782.7	227.8 232.7	202.4 213.5	29.7 30.6	43.3 43.9	534.3 549.7	30.8 37.2	99.0 108.4	939.7 983.2	426.3 418.0	73.7 54.5	108.2 84.9	0.4 0.4	82.8 R 144.1	(s) 0.0	2,630.7 2,700.5
2004	811.9	238.4	212.3	41.8	47.8	552.0	35.0	102.3	991.1	417.2	54.0	R 88.2	0.4	122.8	0.0	R 2,724.2
2006	777.9	230.8	207.9	30.2	47.1	555.4	26.5	96.0	963.2	417.0	38.1	R 99.1	0.7	134.3	0.0	R 2,661.0
2007	827.8	245.2	206.7	40.6	43.4	563.0	23.6	93.5	970.8	420.0	29.5	83.5	0.8	122.5	0.0	2,700.0

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Carolina

Coal Gas Fuel Oil Kerosene LPG Total Wood Code Solar/PV de Sales Solar/PV de					Petro	leum		Biomass			5			
Thousand Short Form Clubic Feet Thousand Barrels Thousand Short Form Short Form Cords		Coal		Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c						
1965 309 15 6.654 10.547 2.563 19.765 1.527 8.601 1975 111 27 7.261 4.901 2.245 14.408 1.047 18.999 1975 111 27 7.261 4.901 2.245 14.408 1.047 18.999 1980 3.3 34 7.044 2.78 8.663 10.045 3.003 21.711 1.024 18.999 1980 3.3 34 7.044 2.78 8.663 10.364 12.636 11.455 28.6377 1980 3.3 34 7.044 2.78 8.663 10.366 11.456 11.456 28.6377 1980 43 2.98 6.425 1.79 8.656 11.970 8.65 28.6377 1980 11.55	Year				Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e		Net Energy ^{d,f}	Energy	Total d,f
1965 309 15 6.654 10.547 2.563 19.765 1.527 8.601 1975 111 27 7.261 4.901 2.245 14.408 1.047 18.999 1975 111 27 7.261 4.901 2.245 14.408 1.047 18.999 1975 111 27 7.261 4.901 2.245 14.408 1.047 18.999 1986 4.3 2.2 5.444 2.347 2.464 12.366 1.455 24.377 1986 4.3 2.2 5.444 2.347 2.466 12.666 1.468 1.468 24.877 24.377 1986 2.2 5.444 2.2 60.3 6.47 1.910 6.588 28.644 1996 2.2 5.4 5.4 4.22 2.2 6.3 6.64 1.970 8.55 38.506 1996 2.2 5.5 5.5 4.257 2.546 6.686 13.499 919 41.592 40.611 1998 2.2 5.1 2.993 2.988 6.388 12.339 645 40.611 40.611 1998 2.2 5.1 2.993 2.988 6.388 12.339 645 43.648 3 43.648 3 25.648 3	1960	587	9	5.887	10.429	1.615	17.931	2.196			5.796			
1970	1965	309	15	6,654	10.547	2,563	19,765	1,527			8,601			
1995 43 29 5,449 3,994 3,194 12,636 1,428 26,852 1995 29 49 4,023 2,098 5,850 11,970 885 33,144 1995 29 49 4,023 2,098 5,850 11,970 885 33,506 1996 25 59 4,257 2,546 6,696 13,499 979 41,592 1996 27 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 53 5,603 19,79 6,505 11,393 679 46,637 2000 12 6 53 2,888 1,979 6,656 11,393 679 46,637 2001 14 57 3,118 2,022 7,158 12,297 484 46,637 2002 16 59 2,898 1,223 6,670 10,700 492 49,854 2003 17 65 2,967 17,766 7,415 12,616 617 49,349 2004 35 63 2,868 1,892 7,781 12,541 630 50,403 49 50,403	1970	244		8,663	10.045	3,003	21,711	1,024			14,660			
1995 43 29 5,449 3,994 3,194 12,636 1,428 26,852 1995 29 49 4,023 2,098 5,850 11,970 885 33,144 1995 29 49 4,023 2,098 5,850 11,970 885 33,506 1996 25 59 4,257 2,546 6,696 13,499 979 41,592 1996 27 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 3,426 2,603 6,664 12,693 729 40,611 1997 12 53 53 5,603 19,79 6,505 11,393 679 46,637 2000 12 6 53 2,888 1,979 6,656 11,393 679 46,637 2001 14 57 3,118 2,022 7,158 12,297 484 46,637 2002 16 59 2,898 1,223 6,670 10,700 492 49,854 2003 17 65 2,967 17,766 7,415 12,616 617 49,349 2004 35 63 2,868 1,892 7,781 12,541 630 50,403 49 50,403		111	27	7,261	4,901	2,245	14,408				18,999			
1990 31 35 4,225 1,408 4,277 9,910 585 33,144 1996 25 59 49 4,023 2,098 5,850 11,970 885 39,506 1996 25 59 4,257 2,546 6,696 13,499 919 41,592 1998 22 51 2,993 2,988 6,359 12,339 645 42,800 1998 22 51 2,993 2,988 6,359 12,339 645 42,800 1998 22 51 2,993 2,988 6,359 12,339 645 42,800 1998 18 53 2,968 1,985 6,430 11,383 679 43,648 46,537 2000 12 64 3,238 1,979 6,956 12,172 729 46,537 2001 14 57 3,118 2,022 7,158 12,297 484 46,201 49,844 2002 16 59 2,2007 1,226 6,670 10,700 482 49,844 49,844 2003 16 59 2,2007 1,765 12,297 484 49,344 2004 35 63 2,288 1,925 6,529 10,223 10,243	1980	36	34	7,044	2,747	2,846	12,637	1,154			24,377			
1995 29 49 4023 20,98 5,850 11,970 885 39,506 1996 25 59 4,257 2,546 6,696 13,499 919 41,592 1997 21 53 3,426 2,603 6,684 12,694 725 40,611 1998 22 51 2,993 2,988 6,358 12,339 645 42,890 43,648 1999 18 53 2,968 1,965 6,430 11,383 679 43,648 1999 18 53 2,968 1,965 6,430 11,383 679 44,648 1900 12 64 3,238 1,979 6,956 12,172 729 46,537 1900 14 57 3,118 2,022 7,158 12,297 484 46,201 1900 14 57 3,118 2,022 7,158 12,297 484 46,201 1900 14 57 3,118 2,022 7,158 12,297 484 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 49,854 1900 17,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 50,000 492 5	1985	43	29		3,994	3,194	12,636	1,428			26,852			
1997 21 53 3,426 2,603 6,664 12,694 725 40,611 1999 18 53 2,988 1,985 6,388 12,393 645 42,890 1999 18 53 2,986 1,985 6,430 11,383 679 43,648 12001 14 57 3,118 2,022 7,158 12,997 484 46,537 2001 14 57 3,118 2,022 7,158 12,297 484 46,201 48,864 12002 16 59 2,806 1,223 6,670 10,700 492 48,864 12003 17 65 2,967 1,786 7,415 12,168 517 49,349 51,717 2004 35 63 2,888 1,892 7,781 12,541 7,55 6,529 10,512 8,688 54,073 51,717 2005 12 64 2,228 1,755 6,529 10,512 8,688 54,073 52,851 2007 4 58 1,972 849 5,725 8,546 660 56,095 56,095 12,007 4 58 1,972 849 5,725 8,546 660 56,095 56,095 19,777 5,73	1990	31	35	4,225	1,408	4,277	9,910	585			33,144			
1997 21 53 3,426 2,603 6,664 12,694 725 40,611 1999 18 53 2,988 1,985 6,388 12,393 645 42,890 1999 18 53 2,986 1,985 6,430 11,383 679 43,648 12001 14 57 3,118 2,022 7,158 12,997 484 46,537 2001 14 57 3,118 2,022 7,158 12,297 484 46,201 48,864 12002 16 59 2,806 1,223 6,670 10,700 492 48,864 12003 17 65 2,967 1,786 7,415 12,168 517 49,349 51,717 2004 35 63 2,888 1,892 7,781 12,541 7,55 6,529 10,512 8,688 54,073 51,717 2005 12 64 2,228 1,755 6,529 10,512 8,688 54,073 52,851 2007 4 58 1,972 849 5,725 8,546 660 56,095 56,095 12,007 4 58 1,972 849 5,725 8,546 660 56,095 56,095 19,777 5,73	1006	29	49 50	4,023	2,098	5,850	11,970	885 010			39,506 44,502			
1999 18 53 2,968 1,985 6,430 11,383 679 43,648 2000 12 64 3,238 1,979 6,956 12,172 729 46,637 2001 14 57 3,118 2,022 7,158 12,297 484 49,854 2002 16 59 2,808 1,223 6,670 10,700 492 49,849 2003 17 65 2,967 1,766 7,415 12,168 517 49,349 2004 35 63 2,868 1,892 7,781 12,541 530 51,717 2005 12 64 2,228 1,755 6,529 10,512 6,589 54,073 2006 R10 57 2,030 1,194 8,5811 8,903 6 8,599 52,2851 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 14 58 8,9 34.3 59.1 6,5 99.9 43.9 0.0 0.0 19,8 187.0 48.9 2 1970 5,8 2,80 50.5 57.0 11,3 118.8 20.5 0.0 0.0 29.3 191.4 70.1 2 1970 5,8 2,80 42.3 2,78 8,3 76.4 20.9 0.0 0.0 50.0 223.1 121.1 3 1975 2,6 2,6 2,80 42.3 2,78 8,3 76.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1980 0.9 34.4 41.0 15,6 10.5 67.1 23.1 0.0 0.6 83.2 20.6 20.0 5 4 1985 1.1 2,96 31.7 22.6 11.5 65.9 28.6 0.0 0.0 0.0 91.6 48 194.8 155.9 3 1980 0.9 34.4 44.0 15,6 10.5 67.1 23.1 0.0 0.0 83.2 20.6 20.5 4 1985 1.1 2,96 31.7 22.6 11.5 66.9 28.6 0.0 0.0 0.0 91.6 218.8 211.0 4 1985 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 134.8 261.1 306.1 5 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 134.8 261.1 306.1 5 1998 0.6 62.9 17.4 16.9 23.0 57.4 12.9 0.2 0.1 138.8 267.0 31.9 19.9 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 5 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 156.6 20.1 156.6 20.2 0.1 157.6 28.2 31.3 5 10.0 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 158.8 295.1 30.1 168.4 302.2 371.5 6 2001 0.4 69.2 17.7 16.9 23.0 57.4 12.9 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 55.5 55.5 9.7 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 30.2 371.5 6 2005 0.3 66.5 13.0 10.0 23.6 44.6 8.9 0.9 8.9 8.9 8.2 0.0 5.0 2 180.8	1990	20	59 53	3,426	2,540	6,664	12,499	725			41,592			
1999 18 53 2,968 1,985 6,430 11,383 679 43,648 2000 12 64 3,238 1,979 6,956 12,172 729 46,637 2001 14 57 3,118 2,022 7,158 12,297 484 49,854 2002 16 59 2,808 1,223 6,670 10,700 492 49,849 2003 17 65 2,967 1,766 7,415 12,168 517 49,349 2004 35 63 2,868 1,892 7,781 12,541 530 51,717 2005 12 64 2,228 1,755 6,529 10,512 6,589 54,073 2006 R10 57 2,030 1,194 8,5811 8,903 6 8,599 52,2851 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 14 58 8,9 34.3 59.1 6,5 99.9 43.9 0.0 0.0 19,8 187.0 48.9 2 1970 5,8 2,80 50.5 57.0 11,3 118.8 20.5 0.0 0.0 29.3 191.4 70.1 2 1970 5,8 2,80 42.3 2,78 8,3 76.4 20.9 0.0 0.0 50.0 223.1 121.1 3 1975 2,6 2,6 2,80 42.3 2,78 8,3 76.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1980 0.9 34.4 41.0 15,6 10.5 67.1 23.1 0.0 0.6 83.2 20.6 20.0 5 4 1985 1.1 2,96 31.7 22.6 11.5 65.9 28.6 0.0 0.0 0.0 91.6 48 194.8 155.9 3 1980 0.9 34.4 44.0 15,6 10.5 67.1 23.1 0.0 0.0 83.2 20.6 20.5 4 1985 1.1 2,96 31.7 22.6 11.5 66.9 28.6 0.0 0.0 0.0 91.6 218.8 211.0 4 1985 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 134.8 261.1 306.1 5 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 134.8 261.1 306.1 5 1998 0.6 62.9 17.4 16.9 23.0 57.4 12.9 0.2 0.1 138.8 267.0 31.9 19.9 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 5 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 156.6 20.1 156.6 20.2 0.1 157.6 28.2 31.3 5 10.0 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 158.8 295.1 30.1 168.4 302.2 371.5 6 2001 0.4 69.2 17.7 16.9 23.0 57.4 12.9 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 51.8 13.6 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 11.3 23.3 55.5 55.5 9.7 0.2 0.1 157.6 28.2 351.3 6 2001 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 30.2 371.5 6 2005 0.3 66.5 13.0 10.0 23.6 44.6 8.9 0.9 8.9 8.9 8.2 0.0 5.0 2 180.8		22	53 51	2 993	2,003	6 358	12,034	645						
2000 12 64 3,238 1,979 6,956 12,172 729 46,537 2002 16 59 2,808 1,223 6,670 10,700 492 48,201 48,201 2002 16 59 2,808 1,223 6,670 10,700 492 49,854 2004 35 63 2,868 1,892 7,781 12,168 517 49,349 2004 35 63 2,868 1,892 7,781 12,541 530 51,717 2005 12 64 2,228 1,755 6,629 10,512 8,659 54,073 52,851 2006 R 10 57 2,030 1,194 R 5,811 R 9,036 R 599 52,851 52,851 2007 4 58 1,972 849 5,725 8,546 660 56,095	1999	18	53	2 968	1 985	6,430	11 383	679			43 648			
2001			64	3.238	1.979	6.956	12.172	729						
2003 17 65 2,967 1,786 7,415 12,168 517 49,349 2004 35 63 2,868 1,892 7,781 12,541 530 51,717 2005 12 64 2,228 1,755 6,529 10,512 8668 54,073 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 4 58 1,972 849 5,725 8,546 660 56,095 Trillion Btu 1960 14.5 8.9 34.3 59.1 6.5 99.9 43.9 0.0 0.0 19.8 187.0 48.9 2 1965 7.6 15.1 38.8 59.8 10.3 10.8 30.5 0.0 0.0 29.3 191.4 70.1 2 1970 5.8 28.0 50.5 57.0 11.3 118.8 20.5 0.0 0.0 50.0 22.3 121.1 3 1975 2.6 28.0 42.3 27.8 8.3 78.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1978 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 83.2 28.6 200.5 4 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 9.9 16. 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 13.8 62.6 32.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 148.8 26.1 306.1 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 148.9 285.6 322.7 6 2001 0.4 61.5 16.4 6.9 24.1 58.8 14.5 0.2 0.1 156.5 29.9 17.0 12.9 13.8 29.9 34.0 7 2002 0.4 61.5 16.4 6.9 24.1 56.9 55.5 9.7 0.2 0.1 156.5 39.9 1.0 16.8 29.1 15.5 62.9 18.9 11.2 25.5 55.5 9.7 0.2 0.1 156.5 39.9 1.0 16.8 29.9 34.0 7 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.5 17.7 0.2 0.1 156.5 28.7 351.3 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 81.3 0.3 0.3 0.1 168.4 302.2 371.5 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 81.3 0.4 0.1 184.5 831.6 40.5 87.5 87.5 87.5 11.8 6.8 820.9 54.5 0.0 0.0 0.0 18.8 29.1 50.0 18.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87	2001	14	57	3,118	2,022	7,158	12,297	484			46,201			
2003 17 65 2,967 1,786 7,415 12,168 517 49,349 2004 35 63 2,868 1,892 7,781 12,541 530 51,717 2005 12 64 2,228 1,755 6,529 10,512 8668 54,073 2007 4 58 1,972 849 5,725 8,546 660 56,095 2007 4 58 1,972 849 5,725 8,546 660 56,095 Trillion Btu 1960 14.5 8.9 34.3 59.1 6.5 99.9 43.9 0.0 0.0 19.8 187.0 48.9 2 1965 7.6 15.1 38.8 59.8 10.3 10.8 30.5 0.0 0.0 29.3 191.4 70.1 2 1970 5.8 28.0 50.5 57.0 11.3 118.8 20.5 0.0 0.0 50.0 22.3 121.1 3 1975 2.6 28.0 42.3 27.8 8.3 78.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1978 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 83.2 28.6 200.5 4 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 9.9 16. 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 13.8 62.6 32.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 148.8 26.1 306.1 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 148.9 285.6 322.7 6 2001 0.4 61.5 16.4 6.9 24.1 58.8 14.5 0.2 0.1 156.5 29.9 17.0 12.9 13.8 29.9 34.0 7 2002 0.4 61.5 16.4 6.9 24.1 56.9 55.5 9.7 0.2 0.1 156.5 39.9 1.0 16.8 29.1 15.5 62.9 18.9 11.2 25.5 55.5 9.7 0.2 0.1 156.5 39.9 1.0 16.8 29.9 34.0 7 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.5 17.7 0.2 0.1 156.5 28.7 351.3 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 81.3 0.3 0.3 0.1 168.4 302.2 371.5 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 81.3 0.4 0.1 184.5 831.6 40.5 87.5 87.5 87.5 11.8 6.8 820.9 54.5 0.0 0.0 0.0 18.8 29.1 50.0 18.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87.5 12.0 0.5 0.2 180.8 89.8 87	2002	16	59	2,808	1,223	6,670	10,700	492			49,854			
2005	2003	17	65	2,967	1.786	7,415	12,168	517			49,349			
2006 R10 57 2,030 1,194 R5,811 R9,036 R599 52,851 56,095	2004	35	63	2,868	1,892	7,781	12,541	_ 530			51,717			
Trillion Btu 1960		_ 12	64	2,228	1,755	6,529	10,512	K 658						
1960			5/	2,030	1,194	^ 5,811	N 9,036	× 599						
1960	2007	4	58	1,972	849	5,725	8,546	660			56,095			
1965 7.6 15.1 38.8 59.8 10.3 108.8 30.5 0.0 0.0 29.3 191.4 70.1 2 1970 5.8 28.0 50.5 57.0 11.3 118.8 20.5 0.0 0.0 0.0 50.0 223.1 121.1 3 1975 2.6 28.0 42.3 27.8 8.3 78.4 20.9 0.0 0.0 0.0 64.8 194.8 155.9 3 1980 0.9 34.4 41.0 15.6 10.5 67.1 23.1 0.0 0.0 83.2 208.6 200.5 4 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 0.0 91.6 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 113.1 210.1 261.5 4 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 134.8 261.1 306.1 55 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 138.6 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 138.6 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 157.6 282.7 351.3 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 390.4 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 831.6 403.5 87.2 2006 8.0 66.5 13.0 10.0 23.6 46.6 87.2 20.0 0.5 0.2 1							Ti	illion Btu						
1970 5.8 28.0 50.5 57.0 11.3 118.8 20.5 0.0 0.0 50.0 223.1 121.1 3 1975 2.6 28.0 42.3 27.8 8.3 78.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1980 0.9 34.4 41.0 156 10.5 67.1 23.1 0.0 0.0 0.0 83.2 208.6 200.5 3 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 91.6 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 <td< td=""><td>1960</td><td>14.5</td><td>8.9</td><td>34.3</td><td>59.1</td><td>6.5</td><td>99.9</td><td>43.9</td><td>0.0</td><td></td><td>19.8</td><td></td><td>48.9</td><td>235.9</td></td<>	1960	14.5	8.9	34.3	59.1	6.5	99.9	43.9	0.0		19.8		48.9	235.9
1975 2.6 28.0 42.3 27.8 8.3 78.4 20.9 0.0 0.0 64.8 194.8 155.9 3 1980 0.9 34.4 41.0 15.6 10.5 67.1 23.1 0.0 0.0 0.0 83.2 208.6 200.5 4 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 0.0 91.6 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 322.7 6 1997 0.5 <td< td=""><td>1965</td><td>7.6</td><td>15.1</td><td>38.8</td><td>59.8</td><td>10.3</td><td>108.8</td><td>30.5</td><td>0.0</td><td>0.0</td><td>29.3</td><td>191.4</td><td>70.1</td><td>261.5</td></td<>	1965	7.6	15.1	38.8	59.8	10.3	108.8	30.5	0.0	0.0	29.3	191.4	70.1	261.5
1980 0.9 34.4 41.0 15.6 10.5 67.1 23.1 0.0 0.0 83.2 208.6 200.5 4 1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 91.6 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 322.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 6 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331	1970	5.8	28.0	50.5	57.0	11.3	118.8	20.5	0.0		50.0	223.1	121.1	344.2
1985 1.1 29.6 31.7 22.6 11.5 65.9 28.6 0.0 0.0 91.6 216.8 211.0 4 1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 322.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 148.9 269.9 34	1975	2.6	28.0	42.3	27.8	8.3	/8.4	20.9	0.0	0.0	64.8	194.8	155.9	350.6
1990 0.8 36.1 24.6 8.0 15.5 48.1 11.7 0.1 0.2 113.1 210.1 261.5 4 1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 32.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 134.8 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 148.9 269.9 340.7 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 66.2 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 157.6 282.7 351.3 66 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 390.4 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 813.2 0.4 0.1 184.5 8311.6 403.5 87 2006 80.3 58.7 11.8 6.8 820.9 839.5 812.0 0.5 0.2 180.3 82.9 15	1980	0.9	34.4		15.6	10.5	67.1	23.1	0.0	0.0	83.2	208.6	200.5	409.0 427.8
1995 0.7 51.0 23.4 11.9 21.2 56.5 17.7 0.2 0.2 134.8 261.1 306.1 5 1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 322.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 3	1900	1.1	29.0	31.7	22.0	11.5	00.9	20.0 11.7	0.0	0.0		210.0		471.6
1996 0.6 60.9 24.8 14.4 24.2 63.4 18.4 0.2 0.2 141.9 285.6 322.7 6 1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 6 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 </td <td>1990</td> <td>0.6</td> <td>50.1 51.0</td> <td>24.0</td> <td>11 0</td> <td>21.0</td> <td>40.1 56.5</td> <td>11.7</td> <td>0.1</td> <td>0.2</td> <td>13.1</td> <td>210.1</td> <td>201.5 306.1</td> <td>567.2</td>	1990	0.6	50.1 51.0	24.0	11 0	21.0	40.1 56.5	11.7	0.1	0.2	13.1	210.1	201.5 306.1	567.2
1997 0.5 54.8 20.0 14.8 24.1 58.8 14.5 0.2 0.2 138.6 267.6 313.9 5 1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371	1996		60.9	24.8	14.4	24.2	63.4		0.2	0.2	141 9			608.3
1998 0.6 52.9 17.4 16.9 23.0 57.4 12.9 0.2 0.2 146.3 270.4 331.9 6 1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 36.2 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.	1997		54.8			24.1	58.8		0.2	0.2		267.6		581.5
1999 0.5 54.7 17.3 11.3 23.3 51.8 13.6 0.2 0.1 148.9 269.9 340.7 6 2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 36.2 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 390.4 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 R 13.2 0.4 0.1 184.5 R 311.6 403.5 R 7 2006 R 0.3 58.7 11.8 6.8 R 20.9 R 39.5 R 12.0 0.5	1998	0.6	52.9	17.4	16.9	23.0	57.4	12.9	0.2	0.2	146.3	270.4	331.9	602.3
2000 0.3 65.9 18.9 11.2 25.1 55.2 14.6 0.2 0.1 158.8 295.1 361.2 6 2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 390.4 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 R 13.2 0.4 0.1 184.5 R 311.6 403.5 R 7 2006 R 0.3 58.7 11.8 6.8 R 20.9 R 39.5 R 12.0 0.5 0.2 180.3 R 291.5 389.9 R 6		0.5	54.7		11.3	23.3	51.8	13.6	0.2	0.1		269.9	340.7	610.5
2001 0.4 59.2 18.2 11.5 25.9 55.5 9.7 0.2 0.1 157.6 282.7 351.3 6 2002 0.4 61.5 16.4 6.9 24.1 47.4 9.8 0.2 0.1 170.1 289.6 379.2 6 2003 0.4 68.3 17.3 10.1 26.9 54.3 10.3 0.3 0.1 168.4 302.2 371.5 6 2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 391.6 40.5 8 2005 0.3 66.5 13.0 10.0 23.6 46.6 8 13.2 0.4 0.1 184.5 8 311.6 403.5 8 7 2006 8.0.3 58.7 11.8 6.8 8 20.9 8 39.5 8 12.0 0.5 0.2 180.3 8 291.5 389.9 8	2000	0.3	65.9	18.9	11.2	25.1	55.2	14.6	0.2	0.1	158.8	295.1	361.2	656.2
2003	2001	0.4	59.2	18.2	11.5	25.9	55.5	9.7	0.2	0.1	157.6	282.7	351.3	634.0
2004 0.9 65.2 16.7 10.7 28.2 55.6 10.6 0.3 0.1 176.5 309.1 390.4 6 2005 0.3 66.5 13.0 10.0 23.6 46.6 R13.2 0.4 0.1 184.5 R311.6 403.5 R7 2006 R0.3 58.7 11.8 6.8 R20.9 R39.5 R12.0 0.5 0.2 180.3 R291.5 389.9 R6	2002		61.5	16.4		24.1	47.4	9.8	0.2	0.1		289.6	379.2	668.8
2004			68.3					10.3	0.3					673.8
2005	2004	0.9	65.2	16.7	10.7	28.2		10.6	0.3	0.1	176.5	309.1	390.4	699.6
ZUUD ''U.3 58.7 11.8 6.8 ''ZU.9 ''39.5 ''1Z.U U.5 U.2 180.3 ''291.5 389.9 ''6	2005	0.3	66.5		10.0	23.6	46.6	r 13.2	0.4	0.1		N 311.6	403.5	^N 715.1
		'` U.3	58.7	11.8	6.8	'` 20.9	'\ 39.5	12.0	0.5	0.2		'\ 291.5	389.9	^ 681.4 715.9
2007 0.1 00.0 11.0 4.0 20.0 50.9 10.2 0.0 0.2 191.4 502.9 415.0 7	2007	0.1	00.5	11.5	4.8	∠0.0	30.9	13.2	0.0	0.2	191.4	302.9	413.0	/ 15.9

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Carolina

1960						Petr	oleum				Biomass					
Thousand Thousand Thousand Thousand September Thousand September Thousand September Thousand September Thousand September September		Coal			Kerosene	LPG b			Total ^d	electric	Waad	-	Electricity			
1985 233 7 1,307 251 452 278 120 2,409 0 5,360 1975 192 22 1,701 239 530 355 179 3,004 0 9,687 11,679 1975 259 22 1,426 117 396 414 233 2,586 0 11,679 11,679 1986 135 26 1,673 118 502 790 491 3,574 0 19,163	Year	Thousand Short Tons	Billion Cubic Feet			Thousa	nd Barrels				and	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	Energy	Total f,h
1970	1960	408		1,156	248	285	206		2,018				2,667			
1975 259 22 1.426 117 396 414 233 2.586 0 11.679 11.679 11.679	1965	233		1,307	251	452	278	120	2,409				5,360			
1980 135 26 1.673 118 502 790 491 3.574 0 14.258 1990 152 25 2.958 245 564 633 322 4.721 0 19.163 1990 125 31 2.302 78 755 782 223 4.140 24 2.5516 1996 185 37 2.345 147 1.032 61 185 3.770 15 31.104 1996 181 40 2.424 178 1.182 312 220 4.716 13 32.563 1997 171 38 2.661 205 1.176 176 169 4.687 16 33.544 1998 172 33 2.563 2.563 1.176 176 169 4.687 16 35.263 1998 172 33 2.563 2.592 281 1.123 341 114 4.427 13 35.702 2 39.687 172 2.001 114 33 2.592 281 1.125 341 114 4.427 13 35.702 2 39.867 2001 114 39 3.096 192 1.263 283 128 4.941 2 39.885 2001 114 39 3.096 192 1.263 283 128 4.941 2 39.885 2002 116 40 1.992 99 1.177 275 74 3.613 8 41.451 2003 113 44 2.125 269 1.308 1.163 208 5.075 6 41.672 41.686 2.000 137 45 1.680 188 1.373 1.461 276 4.958 17 42.684 42.684 2006 8.166 8.6 1.168 1.169 1.152 1.139 2.29 5.151 18 44.161 44.161 2006 8.166 8.6 1.604 1.152 1.139 2.29 5.151 18 44.161 44.161 2006 8.166 8.6 1.604 1.153 1.150 2.11 1.101 1.153 30 3.766 7 44.897 44.897 44.898 44.998 4						530			3,004	•						
1985 152 25 2,589 245 564 633 322 4,721 0 19,163 1990 125 31 2,302 78 755 782 223 4,140 24 2,5516 1995 195 37 2,345 147 1,032 61 185 3,770 15 3,5516 1996 181 40 2,824 178 1,182 312 220 4,716 13 3,2563 1997 171 38 2,861 205 1,176 176 169 4,887 16 33,544 33,744 1998 178 36 2,584 261 1,122 347 114 4,427 13 3,5720 1998 178 36 2,584 261 1,122 347 114 4,427 13 3,7202 1998 132 38 2,162 185 1,135 311 100 3,892 10 3,0007 3,0007 2001 114 39 2,679 2,94 1,227 330 113 40,833 10 3,0007 3,0007 2001 114 39 3,086 195 1,283 2,283 128 4,841 2 3,0007 3,0007 2001 114 4 39 3,086 195 1,283 2,283 128 4,841 2 3,0007 3,0007 2001 114 4 2,925 295 1,107 275 188 44,451 2004 113 4 4 1,295 295 1,107 275 188 5,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 188 1,000 189 1,	1975	259	22	1,426	117	39b	414	233	2,586				11,679			
1990 125 31 2,302 78 785 782 223 4,140 24 25,516 1996 195 37 2,345 147 1,032 61 185 3,770 15 31,104 1996 181 40 2,824 178 1,182 312 220 4,716 13 32,563 1998 178 36 2,861 205 1,176 176 176 169 4,867 16 33,344 1998 178 36 2,864 261 1,122 347 114 4,427 13 35,720 37,202 2000 101 43 2,679 234 1,227 330 113 4,883 10 37,202 2001 114 39 3,096 192 1,263 263 128 4,941 2 39,087 2002 116 40 1,992 95 1,177 275 74 3,613 8 41,451 2003 113 44 2,125 269 1,308 1,163 208 5,075 6 41,451 2004 317 45 1,880 188 1,373 1,461 276 4,988 17 42,864 44,161 2005 137 48 1,689 162 1,152 1,939 229 5,151 18 44,161 44,865 44,161 2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,382 12 44,585 44,585 1,000 R	1980	135	26		118	502		491	3,574				14,258			
1995 195 37 2.345 147 1,032 61 185 3,770 15 31,104 1996 181 40 2.624 178 1,162 312 220 4,716 13 32,563 1997 171 38 2,661 205 1,176 176 169 4,587 16 33,344 1998 178 36 2,584 261 1,122 347 114 4,427 13 35,720 1999 132 38 2,162 185 1,135 311 100 3,892 10 37,202 2001 101 43 2,679 234 1,227 330 113 40,883 10 39,067 2001 114 39 3,096 192 1,263 263 128 4,941 2 39,895 12002 116 40 1992 95 1,177 275 74 30,13 8 41,451 42,664 2003 113 44 2,125 269 1,308 1,163 208 5,775 6 41,672 41,672 2005 137 45 1,680 188 1,373 1,461 276 4,551 180 42,664 44,165 2006 R106 R106 R106 R106 R106 R106 R106 R	1000	102	20 31	2,900	243 78	755	792	322	4,721				19,103			
1996 181 40 2,824 178 1,182 312 220 4,716 13 32,563 1998 178 36 2,584 261 1,176 176 176 169 4,587 16 33,344 35,720 1998 178 36 2,584 261 1,122 347 114 4,427 13 35,720 1999 132 38 2,162 185 1,135 311 100 3,892 10 37,202 2000 101 43 2,679 234 1,227 330 113 4,583 10 39,067 2001 114 39 3,096 192 1,263 263 128 4,941 2 39,067 2002 116 40 1,992 95 1,177 275 74 3,613 8 41,451 2003 113 44 2,125 269 1,308 1,163 208 5,075 6 41,451 2004 317 45 1,880 168 1,373 1,461 276 4,588 17 42,884 2005 137 48 1,669 162 1,152 1,999 229 5,5151 18 44,161 2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,362 12 44,885 14,885 12007 37 45 1,502 71 1,010 1,153 30 3,766 7 44,885 44,885 14,885 3	1005	125			1/7	1 032			3 770				23,310			
1997 171 38 2,861 205 1,176 176 169 4,587 16 33,344 1998 178 36 2,564 261 1,122 347 114 4,427 13 35,720 1999 132 38 2,162 185 1,135 311 100 3,892 10 37,202 2001 101 43 2,679 234 1,227 330 113 4,583 10 39,067 39,067 2001 114 39 3,096 192 1,263 263 128 4,941 2 39,985 2001 116 40 1,992 95 1,177 275 74 3,613 8 41,451 41,672 2003 113 44 2,125 269 1,308 1,163 208 5,075 6 41,672 41,672 2004 317 45 1,680 168 1,373 1,461 276 4,958 17 44,161 2005 137 48 1,669 162 1,152 1,939 229 5,151 18 44,161 2006 R/0 R/6 R/6 1,471 100 R/0 C6 1,664 161 R/4 362 20 12 44,680 44,680	1996	181		2,343	178	1 182	312	220	4 716				32 563			
1988	1997		38		205	1,176	176		4.587							
1999 132 38 2,162 185 1,135 311 100 3,892 10 37,202									4.427				35.720			
2000 101 43 2,679 234 1,227 330 113 4,583 10 39,067	1999	132	38	2,162	185	1,135	311	100	3 892				37,202			
2002 116 40 1,992 95 1,177 275 74 3,613 8 41,451 2004 317 45 1,680 188 1,373 1,461 276 4,988 17 42,864 2004 317 45 1,680 188 1,373 1,461 276 4,988 17 42,864 2005 137 48 1,669 162 1,152 1,939 229 5,151 18 44,161 2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,362 12 44,585 2007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,010 1	2000	101	43	2 679	234	1.227	330	113	4,583	10			39,067			
2002 116 40 1,992 95 1,177 275 74 3,613 8 41,451 2004 317 45 1,680 188 1,373 1,461 276 4,988 17 42,864 2004 317 45 1,680 188 1,373 1,461 276 4,988 17 42,864 2005 137 48 1,669 162 1,152 1,939 229 5,151 18 44,161 2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,362 12 44,585 2007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 1,007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807	2001		39	3,096	192	1,263	263		4,941				39,895			
2004 317 45 1,880 168 1,373 1,461 276 4,958 17 42,864 2005 137 48 1,669 162 1,152 1,393 229 5,151 18 44,161 2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,362 12 44,585 2007 37 45 1,502 71 1,010 1,153 30 3,766 7 44,585 44,585 2007 37 45 1,502 71 1,010 1,153 30 3,766 7 44,585 44,	2002			1,992	95	1,177	275		3,613				41,451			
2005	2003	113	44	2,125	269	1,308	1,163	208	5,075				41,672			
2006 R 106 R 46 1,471 100 R 1,026 1,604 161 R 4,362 12 44,585 2007 37 45 1,502 71 1,010 1,153 30 3,766 7 46,807 46,807 46,807 46,807 46,807	2004					1,373	1,461		4,958							
1960	2005	137	_ 48	1,669	162	1,152	1,939	229	5,151				44,161			
1960 10.1 3.8 6.7 1.4 1.1 1.1 0.8 11.1 0.0 0.8 0.8 0.0 9.1 35.0 22.5 1965 5.7 7.5 7.6 1.4 1.8 1.5 0.8 13.1 0.0 0.6 0.0 18.3 45.2 43.7 1970 4.6 22.0 9.9 1.4 2.0 1.9 1.1 16.3 0.0 0.4 0.0 33.1 76.3 80.1 1975 6.1 22.0 8.3 0.7 1.5 2.2 1.5 14.1 0.0 0.4 0.0 33.1 76.3 80.1 1980 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 0.4 0.0 39.8 82.4 95.8 1980 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 48.6 98.5 117.3 1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.9 199.9 2.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 20.6 7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 2.1 0.0 150.7 232.5 329.6		37		1,4/1 1,502		1,026	1,604 1,153		3,766	12 7			44,585 46,807			
1965 5.7 7.5 7.6 1.4 1.8 1.5 0.8 13.1 0.0 0.6 0.0 18.3 45.2 43.7 1970 4.6 22.0 9.9 1.4 2.0 1.9 1.1 16.3 0.0 0.4 0.0 33.1 76.3 80.1 1975 6.1 22.0 8.3 0.7 1.5 2.2 1.5 14.1 0.0 0.4 0.0 33.8 82.4 95.8 1980 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 48.6 98.5 117.3 1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.1 0.0 12.1 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.1 0.0 12.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 12.9 19.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 136.1 206.8 303.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 Re.1 0.0 150.7 232.5 329.6									Trillion Btu							
1965 5.7 7.5 7.6 1.4 1.8 1.5 0.8 13.1 0.0 0.6 0.0 18.3 45.2 43.7 1970 4.6 22.0 9.9 1.4 2.0 1.9 1.1 16.3 0.0 0.4 0.0 33.1 76.3 80.1 1975 6.1 22.0 8.3 0.7 1.5 2.2 1.5 14.1 0.0 0.4 0.0 33.8 82.4 95.8 1980 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 48.6 98.5 117.3 1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.1 0.0 12.1 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 12.9 19.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 8.2 1.8 0.0 146.3 228.2 323.6 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 8.2 1.8 0.0 150.7 23.5 329.6	1960	10.1	3.8	6.7	1.4	1.1	1.1	0.8	11.1	0.0	0.8	0.0	9.1	35.0	22.5	57.5
1970 4.6 22.0 9.9 1.4 2.0 1.9 1.1 16.3 0.0 0.4 0.0 33.1 76.3 80.1 1975 6.1 22.0 8.3 0.7 1.5 2.2 1.5 14.1 0.0 0.4 0.0 39.8 82.4 95.8 1980 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 48.6 98.5 117.3 1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 0.06.1 171.9 241.0	1965	5.7	7.5	7.6		1.8			13.1	0.0	0.6	0.0				88.8
1975 6.1 22.0 8.3 0.7 1.5 2.2 1.5 14.1 0.0 0.4 0.0 39.8 82.4 95.8 1880 3.3 26.5 9.7 0.7 1.8 4.1 3.1 19.5 0.0 0.6 0.0 48.6 98.5 117.3 1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 12.1 0.0 12.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 12.9 19.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 133.3 206.7 303.2 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 142.2 219.2 325.5 329.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 2.1 0.0 150.7 232.5 329.6	1970		22.0	9.9		2.0	1.9		16.3	0.0	0.4	0.0	33.1	76.3	80.1	156.4
1985 3.8 25.9 17.2 1.4 2.0 3.3 2.0 26.0 0.0 0.7 0.0 65.4 121.7 150.6 1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276			22.0	8.3	0.7	1.5			14.1				39.8	82.4	95.8	178.2
1990 3.2 32.3 13.4 0.4 2.7 4.1 1.4 22.1 0.3 1.3 0.0 87.1 146.1 201.3 1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 8.1	1980		26.5	9.7		1.8		3.1	19.5	0.0	0.6	0.0			117.3	215.8
1995 4.9 38.6 13.7 0.8 3.7 0.3 1.2 19.7 0.2 2.4 0.0 106.1 171.9 241.0 1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4	1985	3.8	25.9	17.2	1.4	2.0			26.0	0.0	0.7	0.0	65.4		150.6	272.3
1996 4.5 41.9 16.4 1.0 4.3 1.6 1.4 24.7 0.1 2.5 0.0 111.1 184.9 252.7 1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 133.3 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4	1990	3.2	32.3	13.4	0.4				22.1	0.3	1.3	0.0		146.1		347.4
1997 4.3 39.4 16.7 1.2 4.3 0.9 1.1 24.1 0.2 2.4 0.0 113.8 184.1 257.8 1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1	1995	4.9	38.6	13.7	0.8	3.7	0.3		19.7	0.2	2.4	0.0	106.1	171.9	241.0	412.9
1998 4.8 37.9 15.1 1.5 4.1 1.8 0.7 23.1 0.1 2.1 0.0 121.9 189.9 276.4 1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6	1996	4.5	41.9	16.4	1.0	4.3	1.6		24.7	0.1	2.5	0.0	111.1	184.9	252.7	437.6
1999 3.6 39.4 12.6 1.0 4.1 1.6 0.6 20.0 0.1 2.2 0.0 126.9 192.2 290.3 2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 8.1 0.0 150.7 232.5 329.6					1.2						2.4					441.8
2000 2.7 44.4 15.6 1.3 4.4 1.7 0.7 23.8 0.1 2.4 0.0 133.3 206.7 303.2 2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 R 2.1 0.0 150.7 232.5 329.6	1998	4.8	37.9	15.1	1.5		1.8	0.7	23.1	0.1	2.1	0.0	121.9	189.9	2/6.4	466.3
2001 2.8 40.2 18.0 1.1 4.6 1.4 0.8 25.9 (s) 1.7 0.0 136.1 206.8 303.3 2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 R.1 0.0 150.7 232.5 329.6									20.0		2.2				290.3	482.5 509.9
2002 2.9 42.0 11.6 0.5 4.3 1.4 0.5 18.3 0.1 1.7 0.0 141.4 206.4 315.3 2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 8.1 0.0 150.7 232.5 329.6	2000		44.4 40.2	10.0 10.0		4.4 1.6			∠ა.ŏ 25.0	U.1	∠. 4 1.7	0.0	133.3	200.7	ა∪ა.∠ ვევ ვ	510.1
2003 2.9 46.2 12.4 1.5 4.7 6.1 1.3 26.0 0.1 1.8 0.0 142.2 219.2 313.8 2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 R2.1 0.0 150.7 232.5 329.6		2.0	40.2 42.0		0.5	4.0 1 3		0.6	2J.9 12 2	(a) 0.1	1.7	0.0			315.3	521.7
2004 7.9 47.1 9.8 1.0 5.0 7.6 1.7 25.1 0.2 1.8 0.0 146.3 228.2 323.6 2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 R2.1 0.0 150.7 232.5 329.6	2002	2.9	46.2			4.3 4.7		1.3	26.0	0.1			141.4	219.4	313.8	532.9
2005 3.5 49.7 9.7 0.9 4.2 10.1 1.4 26.4 0.2 ^R 2.1 0.0 150.7 232.5 329.6		7.9				5.0				0.1	1.8				323.6	551.8
2006 27 R481 86 06 R37 84 10 R22 01 R19 00 1521 2272 3290	2005	3.5	49 7	9.7	0.9	4.2			26.4	0.2	R 2.1		150.7	232.5	329.6	R 562.0
	2006	2.7	R 48.1	8.6	0.6	R 3.7	8.4	1.0	R 22.2	0.1	R 1.9	0.0	152.1	227.2	329.0	R 556.1
2006 2.7 R 48.1 8.6 0.6 R 3.7 8.4 1.0 R 22.2 0.1 R 1.9 0.0 152.1 227.2 329.0 2007 0.9 47.1 8.7 0.4 3.6 6.0 0.2 19.0 0.1 2.1 0.0 159.7 228.9 344.6	2007	0.9	47.1	8.7	0.4	3.6	6.0		19.0	0.1	2.1	0.0	159.7	228.9	344.6	551.8 R 562.0 R 556.1 573.5

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Carolina

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	2,421 2,563	26	3,155	730		3,967	4,396	13,336 16,896	48			8,773			
1965	2,563	47	4,710	1,156	1,315	4,005	5,710	16,896	37			10,707			
1970	2,267	75	4,514	1,891	1,004	5,809	6,692	19,911 21,915	10			16,099			
1975 1980	1,479 1,375	62 86	4,271	3,695	782 514	7,045 8,468	6,123	21,915 24,859	5 3			20,875			
1985	2,247	75	4,131 3,613	4,581 3,606	832	5,814	7,165 7,000	20,864	3			25,254 26,272			
1990	2,247	86	3,467	3,700	807	5,121	9,843	20,004	3						
1995	2.437	107	4,640	5,115	977	5,779	11,842	22,938 28,352	1,636			34,063			
1996	2,336	104	4,372	5,908	1,003	6,280	15,593	33,155	1,741			34,142			
1997	2,158	112	4,019	7,827	1,041	5,554	16,451	34,891	1,697			35,095			
1998	1,883	106	4,822	5,409	923	4,622	17,242	33,018	1,663			34,986			
1999	1,751	107	3,935	4,221	657	4,132	17,613	30,558 32,950	1,174			34,165			
2000 2001	1,762 1,704	107	4,207 4,676	5,820 5,368	804	4,729 3,391	17,391 15,195	32,950	936 733			34,252 32,931			
2001	1,704	89 98	3,411	4,581	2,019 1,957	3,099	14,678	27,727	1,062			31,381			
2002	1,590	88	3,411	3.094	1,666	3,914	14,147	26 255	866			30,314			
2004	1,448	90	3,483	2.830	1,966	5,233	15,712	26,255 29,225	688			31,075			
2005	1,408	87	4,272	4 264	1,831	4,918	14,783	30.067	722			30,101			
2006	1,225	87	3,914	R 5,052	1,941	3,869	14,303	R 29,078	494			29,263			
2007	1,145	88	3,923	4,440	1,385	3,136	14,208	27,092	2			28,978			
							Tri	llion Btu							
1960	61.6	27.0	18.4	2.9		24.9	27.6	79.5	0.5	29.0	0.0	29.9	227.6	74.0	301.6
1965	64.6	48.3	27.4	4.6		25.2	35.1	99.2	0.4	36.2	0.0		285.3	87.2	372.5
1970 1975	53.9 34.7	76.9 63.2	26.3 24.9	7.1 13.7	5.3 4.1	36.5 44.3	41.5 37.8	116.8 124.8	0.1 0.1	45.0 45.1	0.0		347.6 339.1	133.0 171.3	480.5 510.4
1975	33.6	86.6	24.9	16.8	2.7	53.2	43.4	140.2	(s)	55.3	0.0		401.9	207.7	609.6
1985	55.9	R 77.4	21.0	13.0	4.4	36.6	42.8	117.8	(s)	64.8	0.0		405.5	206.5	611.9
1990	74.5	88.9	20.2	13.4	4.2	32.2	59.4	129.4	(s) (s)	82.8	0.0		482.4	246.7	729.1
1995	61.6	110.3	27.0	18.5	5.1	36.3	72.5	159.5	16.9	84.9	0.0	116.2	549.3	263.9	813.2
1996	58.7	107.9	25.5	21.3	5.2	39.5	89.5	181.0	18.0	82.7	0.0	116.5	564.8	264.9	829.7
1997	54.1	115.6	23.4	28.3	5.4	34.9	94.6	186.6	17.3	83.8	0.0		577.1	271.3	848.4
1998	47.2	110.9	28.1	19.5		29.1	99.5	181.0	17.0	78.9	0.0		554.3	270.7	825.0
1999	43.9	111.1	22.9	15.3		26.0	101.4	169.0	12.0	79.6	0.0		532.2	266.6	798.8
2000 2001	46.7 45.6	109.8 92.6	24.5 27.2	21.0 19.4	4.2 10.5	29.7 21.3	100.3 89.7	179.7 168.2	9.5 7.6	80.6 82.3	0.0 0.0	116.9 112.4	543.2 508.7	265.8 250.4	809.0 759.1
2001	42.2	102.7	19.9	19.4			86.4	152.5	10.8	71.4	0.0		486.7	238.7	725.3
2002	42.1	92.4	20.0	11.2		24.6	83.3	147.8	8.9	89.9	0.0		484.5	228.2	712.7
2004	38.1	93.5	20.3	10.2		32.9	92.8	166.5	6.9	65.9	0.0		477.0	234.6	R 711.6
2005	36.9	90.4	24.9	15.4	9.6	30.9	87.3	168.1	7.2	65.7	0.0		471.1	224.6	695.7
2006	32.2	R 90.5	22.8	R 18.2	10.1	24.3	84.9	168.1 R 160.3	4.9	76.7	0.0	99.8	R 464.4	215.9	R 680.3
2007	30.0	91.7	22.8	15.9	7.2	19.7	84.4	150.1	(s)	59.7	0.0	98.9	430.4	213.3	643.7

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Carolina

						Pe	troleum					-			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960 1965	42 8	2	692 714	3,187 4,458	3,401 3,649	5 17	545 578	34,580 41,551	494 581	42,905	0	0			
1900	0	6	151	6,301	4,702	65	523	54,989	345	51,548 67,077	0	0			
1975	(s)	4	219	8,207	3,809	108	498	65,739	263	78,844	0	0			
1980	0	6	215	10,707	5,209	50	635	64,918	99 97	81.834	Ö	Õ			
1985	0	5	174	13,827	6,668	183	578	69,392		90,917	223	0			
1990	0	6	213	15,804	5,567	160	650	75,937	513	98,844	0	0			
1995 1996	0	6	139 148	19,855 20,539	4,947	141 131	620 602	85,383 86,832	299 328	111,384	28 778	0			
1996	0	7	159	21,909	9,127 R 7,156	122	636	89,716	320 277	117,707 R 119,973 R 123,071 125,953	776 787	0			
1998	0	7	138	22,240	R 6,761	211	665	92,908	148	R 123.071	962	0			
1999	0	7	187	21,635	6,802	72	672	96,454	132	125,953	828	0			
2000	0	7	140	24,918	7,277	98	662	96,699	128	129,923 128,234	934 1,272	0			
2001	0	7	151	24,827	6,051	58	607	96,436	104	128,234	1,272	0			
2002 2003	0	6	91 141	25,061 25,071	4,825 5,246	134 128	600 554	98,410 99,788	798 782	129,919 131,710	1,567 2,045	0			
2003	0	5	108	27,964	5,246	138	562	101,987	702 401	136,557	2,0 4 5 2 180	0			
2005	0	4	128	27,724	7,366	1,247	559	102,026	421	139,472	R 598	(s)			
2006	Ö	5	107	27,801	5,323	1,173	544	102,895	193	138,036	2,180 R 598 R 856	(s)			
2007	0	5	96	27,561	7,161	900	562	105,333	590	142,202	1,270	(s)			
								Trillion Btu							
1960 1965	1.1	2.5	3.5	18.6	18.2	(s)	3.3	181.6	3.1	228.4	0.0	0.0	232.0 279.4	0.0	232.0
1965	0.2	4.4	3.6	26.0	19.7	(s) 0.1	3.5	218.3	3.7	274.8	0.0	0.0	279.4	0.0	279.4
1970	0.1	6.3	0.8	36.7	25.7	0.2	3.2	288.9	2.2	357.7	0.0	0.0	364.0	0.0	364.0
1975	(s) 0.0	3.6	1.1	47.8	20.8 28.7	0.4	3.0	345.3 341.0	1.7	420.1 437.8	0.0	0.0	423.8 443.7	0.0	423.8 443.7
1980 1985	0.0	5.9 4.9	1.1 0.9	62.4 80.5	37.0	0.2 0.7	3.8 3.5	341.0 364.5	0.6 0.6	437.8 487.7	0.0 0.8	0.0 0.0	443.7	0.0 0.0	443.7 493.4
1990	0.0	6.5	1.1	92.1	30.8	0.7	3.9	398.9	3.2	530.6	0.0	0.0	537.1	0.0	537.1
1995	0.0	6.3	0.7	115.7	28.0	0.5	3.8	445.3	1.9	595.8	0.1	0.0	602.1	0.0	602.1
1996	0.0	7.7	0.7	119.6	51.7	0.5	3.6	452.9	2.1	631.2	2.8	0.0	638.9	0.0	638.9
1997	0.0	7.6	0.8	127.6	40.6	0.4	3.9	467.7	1.7	642.7	2.8	0.0	650.3	0.0	650.3
1998	0.0	7.0	0.7	129.5	38.3	0.8	4.0	484.2	0.9	658.5	3.4	0.0	665.5	0.0	665.5
1999	0.0	6.8	0.9	126.0	38.6	0.3	4.1	502.6	0.8	673.3	2.9	0.0	680.1	0.0	680.1
2000 2001	0.0 0.0	7.4 6.9	0.7 0.8	145.1 144.6	41.3 34.3	0.4 0.2	4.0 3.7	503.8 502.4	0.8 0.7	696.1 686.7	3.3 4.5	0.0 0.0	703.5 693.6	0.0 0.0	703.5 693.6
2001	0.0	6.4	0.6	146.0	27.4	0.2	3.6	512.5	5.0	695.5	5.5	0.0	701.8	0.0	701.8
2003	0.0	6.4	0.7	146.0	29.7	0.5	3.4	519.6	4.9	704.8	7.2	0.0	711.3	0.0	711.3
2004	0.0	5.2	0.5	162.9	30.6	0.5	3.4	531.9	2.5	732.3	7.7	0.0	737.6	0.0	737.6
2005	0.0	4.5	0.6	161.5	41.8	4.5	3.4	532.4	2.6	746.8	R 2.1	(s)	751.3	(s)	751.3
2006 2007	0.0 0.0	4.9 5.2	0.5 0.5	161.9 160.5	30.2 40.6	4.2 3.2	3.3 3.4	536.9 549.7	1.2 3.7	738.3 761.7	R 3.0 4.5	(s)	743.2 766.9	(s) (s)	743.2 766.9
2007	0.0	5.2	0.0	100.5	40.6	3.2	3.4	549.7	3.1	/01./	4.5	(s)	700.9	(S)	700.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, North Carolina

				Petro	oleum				Biomass				=1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	5.488	5	19	60	0	79	0	4,951		0	0	0	0	
1965	5,488 9,595	3	19 16	60 53	0	70	0	5,349		0	0	0	0	
1970	17,709	21	445	1,432	0	1,877	0	4,363		0	0	0	0	
1975	18,206	(s) 2	237	93	0	330	1,405	7,050		0	0	0	0	
1980	23,920	2	(s) 0	561	0	561 443	5,775	5,483		0	0	0	0	
1985 1990	19,610 19,444	1	0	443 390	0	443 390	19,303 25,905	4,091 6,792		0	0	0	0	
1990	23,774	3 6	0	533	0	533	25,905 35,910	0,792 2,971		0	0	0	0	
1996	27,272	4	4	597	0	601	33,718	3,871 4,198		0	0	0	0	
1997	28,509	6	(s)	509	6	515	32.453	3,914		0	0	0	0	
1998	28,235	14	0	657	99	755	38,778	4,062		Õ	ŏ	Ő	Õ	
1999	27,838	12	Ŏ	672	0	672	37,524	2,500		Õ	Ŏ	Ö	Ŏ	
2000	29,496	13	0	1,169	0	1,169	39,127	2.192		0	0	0	0	
2001	28,649	16	0	879	0	879	37,775	1,861 2,421		0	0	0	0	
2002	29,478	32	0	813	0	813	39,627	2,421		0	0	0	0	
2003	29,403	14	0	1,158	0	1,158	40,907	6,329		0	0	0	0	
2004	29,922	21	0	649	0	649	40,091	4,731		0	0	0	0	
2005	31,303	27	0	548	0	548	39,982	4,656		0	0	0	0	
2006 2007	30,456 32,412	28 40	0	473 525	0	473 525	39,963 40,045	3,333 2,975		0	0	0	0	
2007	32,412	40	U	525	0	525	•	,		0	0	0	0	
							Trillion E	Btu						
1960 1965	144.0 247.7	4.8 3.0	0.1 0.1	0.4 0.3	0.0 0.0	0.5 0.4	0.0 0.0	53.3 55.9	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	202.6 307.0
1905	427.0	21.6	2.8	8.3	0.0	11.1	0.0	45.8	0.0	0.0	0.0	0.0	0.0	505.6
1975	433.1	0.1	1.5	0.5	0.0	2.0	15.5	73.4	0.0	0.0	0.0	0.0	0.0	524.1
1980	586.9	1.8	(s)	3.3	0.0	3.3	63.0	57.0	0.0	0.0	0.0	0.0	0.0	711.9
1985	489.8	0.6	(s) 0.0	2.6	0.0	2.6	205.0	42.7	0.0	0.0	0.0	0.0	0.0	740.7
1990	489.8	2.9	0.0	2.3	0.0	2.3	274.1	70.7	1.8	0.0	0.0	0.0	0.0	841.5
1995	595.7	5.8	0.0	3.1	0.0	3.1	377.3	39.9	6.5	0.0	0.0	0.0	0.0	1,028.3
1996	680.4	3.7	(s) (s) 0.0	3.5	0.0	3.5	354.1	43.4	5.9	0.0	0.0	0.0	0.0	1,091.1
1997	707.0	6.1	(s)	3.0	(s) 0.6	3.0	340.6	40.0	6.3	0.0	0.0	0.0	0.0	1,102.9
1998	701.8	14.0	0.0	3.8	0.6	4.4	406.8	41.4	6.9	0.0	0.0	0.0	0.0	1,175.4
1999	694.5	12.7	0.0	3.9	0.0	3.9	392.1	25.6	6.6	0.0	0.0	0.0	0.0	1,135.4
2000	736.4	13.2	0.0	6.8	0.0	6.8	408.1	22.4	6.7	0.0	0.0	0.0	0.0	1,193.4
2001	707.5	16.6	0.0	5.1	0.0	5.1	394.7 413.7	19.2	6.5	0.0	0.0	0.0	0.0	1,149.7
2002 2003	725.5 726.2	32.2 14.4	0.0 0.0	4.7 6.7	0.0 0.0	4.7 6.7	413.7 426.3	24.6 64.8	6.3 6.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,207.0 1,244.7
2003	726.2 735.8	21.6	0.0	3.8	0.0	3.8	426.3 418.0	47.4	6.6	0.0	0.0	0.0	0.0	1,233.3
2004	771.2	27.4	0.0	3.2	0.0	3.2	417.2	46.6	7.2	0.0	0.0	0.0	0.0	1,272.8
2006	742.8	28.7	0.0	2.8	0.0	2.8	417.0	33.1	8.4	0.0	0.0	0.0	0.0	1,232.8
2007	796.7	40.7	0.0	3.1	0.0	3.1	420.0	29.4	8.5	0.0	0.0	0.0	0.0	1,298.4
														,

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, North Dakota

						Petroleum				Martan	Ukadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millio	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001	2,100 1,719 4,186 5,100 12,346 22,958 28,114 30,237 30,511 29,360 31,060 31,276 31,902 31,524	26 32 33 37 23 28 32 45 49 56 50 56	3,773 5,170 4,975 4,446 8,139 7,637 7,219 8,005 8,334 7,181 7,548 7,805 8,869	2,103 2,069 2,074 1,855 1,702 1,682 1,178 333 246 189 211 405 413 751	1,212 1,154 1,719 1,580 1,302 549 1,426 2,226 2,534 1,976 2,675 3,354 5,426	7,719 8,212 8,766 10,044 9,167 8,822 8,151 8,650 8,683 8,628 8,681 8,711 8,512 8,478	687 868 728 1,089 716 505 326 164 135 187 44 61 78 69	3,089 2,054 2,879 2,463 2,057 2,051 2,168 2,141 2,391 2,698 2,751 3,451 2,375 2,838	18,583 19,526 21,141 21,477 23,083 21,246 20,468 21,047 22,015 22,270 20,844 22,850 22,538 26,430	0 0 0 0 0 0 0 0 0 0 0 0 0	1,060 2,497 2,815 3,345 2,513 2,173 1,711 2,457 3,151 3,320 2,296 2,609 2,123					
2002 2003 2004 2005 2006 2007	31,984 31,970 30,079 32,044 31,073 31,302	67 61 60 53 53 60	8,202 8,298 9,405 9,798 9,966 11,934	528 558 1,093 646 735 710	3,406 2,775 3,311 3,370 2,766 3,023	8,554 8,675 8,603 8,716 8,455 8,648	101 143 63 256 105 94	2,538 2,172 2,490 2,908 3,353 2,039	23,330 22,621 24,965 25,694 25,380 26,448	0 0 0 0	1,593 1,724 1,546 1,342 1,521 1,305	 	 	 	 	
1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 2000 2001 2002 2003 2004 2005 2006 2007	30.5 24.7 57.5 67.9 163.3 302.0 374.5 399.8 404.0 386.0 409.2 411.3 424.6 420.0 422.8 420.8 398.4 431.1 414.8 420.1	27.4 32.4 33.7 36.9 R 24.0 R 29.8 R 33.5 R 47.7 R 51.6 R 59.3 R 51.4 R 59.0 R 58.5 R 62.6 R 64.9 R 64.9 R 59.1 R 60.3 R 55.7	22.0 30.1 29.0 25.9 47.4 44.5 42.1 46.6 48.5 46.8 41.8 44.0 45.5 51.7 47.8 48.3 54.8 57.1 58.1 69.5	11.3 11.1 11.2 10.0 9.2 9.1 6.4 1.9 1.4 1.1 1.2 2.3 2.3 2.3 4.3 3.0 3.2 6.2 3.7 4.2	4.9 4.6 6.5 5.9 4.8 2.0 5.2 6.4 8.0 9.2 7.1 9.7 12.1 19.6 12.3 10.1 12.0 12.2	40.5 43.1 46.0 52.8 48.2 46.3 42.8 45.1 45.3 45.0 45.2 44.4 44.3 44.2 44.5 45.2 44.5 45.2 44.5	4.3 5.5 4.6 6.8 4.5 3.2 2.1 1.0 0.9 1.2 0.3 0.4 0.5 0.6 0.9 0.4	18.9 12.7 18.0 15.4 12.8 13.1 13.5 13.3 14.9 17.0 17.4 22.0 15.0 17.8 15.9 13.4 15.5 18.3 21.2	101.9 107.1 115.3 116.8 126.8 118.2 112.0 114.3 119.0 120.2 113.1 123.8 119.7 137.9 124.2 121.0 133.8 138.3 138.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.4 26.1 29.5 34.8 26.1 22.7 17.8 25.3 32.6 33.9 23.4 26.7 21.7 13.8 16.2 17.7 15.5 13.4 15.1	0.5 0.3 0.4 0.5 2.4 3.1 1.9 2.6 2.4 2.3 2.2 2.4 2.6 8.3.5 2.6 8.2.7 8.3.3 8.4.2 8.4.0 3.8	0.0 0.0 0.0 0.0 0.0 (s) 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.3 1.0 2.6 2.7 4.2	-12.0 -21.1 -46.3 -54.4 -129.8 -181.2 -225.2 -239.0 -255.3 -240.9 -250.2 -245.7 -246.3 -232.4 -232.9 -226.2 R-212.4 -238.0 -218.1 -220.4	0.0 (s) 1.0 4.0 9.5 5.0 -5.1 -3.5 -2.9 -5.2 -6.1 -2.9 -3.3 -4.6 -6.6 -4.4 0.5 -3.1	159.6 169.6 191.1 206.5 222.5 299.6 309.5 347.3 351.5 355.7 343.0 371.5 378.1 8 402.4 R 393.5 R 397.0 R 407.1 R 410.8 428.1

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Dakota

				Petro	leum		Biomass			D 4 7			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960 1965 1970 1975	328 177	4	874 1,269	860	787 758	2,521 2,067	23			728			
1965	177	7	1,269	40	758	2,067	16			911			
1970	80	8	1,103	190 21	1,283	2,576	19			1,399			
1975	46	10	776	21	1,181	1,978	22			1,901			
1980 1985	30 43	10 10	1,173 1,162	5 14	511 169	1,689 1,345	119			2,456 3,012			
1985	43 27	9	981	14 5	653	1,639	153 84			2,954			
1995	14	11	717	4	775	1,039	73			3,384			
1995 1996	18	13	818	5	945	1,495 1,768	73 76			3,602			
1997	15	11	602	5	1.519	2,127 1,626	59			3.437			
1998	13	10	532	6	1,088	1,626	59 52			3,272			
1999	15	11	485	17	1,439	1,941 2,322	55 59 55			3,307			
2000	15	11	564	3	1,756	2,322	59			3,390			
2001 2002	15 17	11	492 424	4	2,006 1,800	2,502 2,226	55			3,480 3,664			
2002	17	12 12	502	2	1,800	2,226	56 59			3,664			
2003 2004	22 25	11	582	5 5	1,693	2,280	61			3,663			
2005	21	11	460	7	1.843	2,200	61 R 72			3,796			
2006	21 R g	10	462	3	1,843 R 1,459	2,310 R 1,923	R 65			3,853			
2007	24	11	470	2	1,507	1,979	72			4,067			
						Т	rillion Btu						
1960 1965 1970 1975	5.1 2.7	4.0 6.6	5.1	4.9 0.2	3.2 3.0	13.1	0.5	0.0	0.0	2.5 3.1	25.1	6.1	31.3
1965	2.7	6.6	7.4	0.2	3.0	10.7	0.3	0.0	0.0	3.1	23.4	7.4	30.8
1970	1.2	8.4	6.4	1.1	4.8	12.4	0.4	0.0	0.0	4.8 6.5	27.1	11.6	38.7
1975	0.6	10.2	4.5	0.1	4.4	9.0 8.7 7.5	0.4	0.0	0.0 0.0	6.5 8.4	26.8 30.0	15.6 20.2	42.4
1980 1985	0.4 0.6	10.1 R 11.0	6.8 6.8	(s) 0.1	1.9 0.6	8. <i>1</i>	2.4 3.1	0.0 0.0	0.0	10.3	30.4	23.7	50.2 54.1
1900	0.0	R 9.5	5.7	(s)	2.4	7.5 8.1	17	0.0	0.0	10.3	27.7	23.7	51.0
1990 1995	0.4 0.2	R 11.8 R 13.2 R 11.9	4.2	(s)	2.4 2.8	8.1 7.0 8.2	1.7 1.5	0.1	(s) (s) (s)	11.5	29.8	23.3 26.2	56.0
1996	0.3	R 13.2	4.8	(s)	3.4	8.2	1.5	0.1	(s)	12.3	33.3	27.9	61.3
1997	0.3 0.2	R 11.9	4.8 3.5	(s)	3.4 5.5	9.0	1.2	0.1	(s)	11.7	32.7	26.6	59.3
1998 1999	0.2 0.2	R 10.5	3.1 2.8	(s) 0.1	3.9 5.2	7.1 8.1	1.0 1.1	0.1 0.1	(s)	11.2 11.3	28.6 30.3	25.3 25.8	53.9 56.2
1999	0.2	R 10.5 R 11.0	2.8		5.2	8.1	1.1	0.1	(s)	11.3	30.3	25.8	56.2
2000	0.2	K 11 3	3.3	(s)	6.3	9.6	1.2	0.1	(s)	11.6	32.5	26.3	58.8
2001 2002	0.2 0.3	R 10.9	2.9 2.5	(s) (s)	7.3	10.1	1.1	0.1	(s)	11.9	32.9	26.5	59.4 60.9
2002	0.3 0.4	R 11.4	2.5 2.9		6.5 6.3	9.0	1.1 1.2	0.1	(s)	12.5 12.6	33.0 33.5	27.9 27.9	60.9 61.4
2003 2004	0.4 0.4	R 11.5 R 11.2	2.9	(s) (s)	6.3 6.1	9.2 9.5	1.2 _ 1.2	0.2	(s) (s)	12.5	33.5 33.7	27.9 27.7	01.4 61.2
2004	0.4	R 11.1	3.4 2.7	(S)	_ 6.7	9.4	R 1 ⊿	0.2 0.2	(s)	13.0	33.7 R 33.7	28.3	61.3 R 62.0
2005 2006	0.4 R 0.2	R 10.1	2.7	(s)	R 5.3	R 8.0	R 1.3	0.2	(s)	13.1	31.3	28.4	59.7
2007	0.4	11.2	2.7	(s)	5.4	8.2	1.4	0.3	(s)	13.9	31.3 33.9	29.9	59.7 63.8
2007	0.4	11.2	2.7	(s)	5.4	8.2	1.4	0.3	(s)	13.9	33.9	29.9	

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Dakota

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wasal	-	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	228	3	198	0	139	32	73	442	0			304			
1965	133	5	288	0	134	179	209	809	0			443			
1970 1975	63 107	8 12	250 176	0	226 208	151 95	104 493	731 972	0			696 805			
1975	117	11	642	0	90	73	493 400	1,206	0			1,145			
1985	154	10	502	(s)	30	69	64	665	0			2,026			
1990	108	10	175	(s)	115	70	22	383	Ö			2,300			
1995	96	12	148	`1	137	10	19	315	0			2,728			
1996	129	12	208	2	167	10	6	393	0			2,877			
1997 1998	125 105	11	257 269	1	268 192	10	9	545 499	0			2,769 2,761			
1998	113	10 10	269	1	254	21 22	16 15	525	0			2,761			
2000	119	11	232	1	310	10	12	565	0			2,793			
2001	119	10	262	2	354	10	36	664	Ŏ			3,577			
2002	128	12	142	1	318	10	94	565	0			3,920			
2003	147	11	178	1	305	19	100	603	0			3,800			
2004	226	10	180	2	299	10	18	509	0			3,843			
2005 2006	239 R 94	10 9	141 149	3	325 R 257	10 20	46 10	525 R 440	0			3,994			
2006	216	10	160	1	266	17	26	470	0			4,127 4,215			
								Trillion Btu							
1960	3.5	2.9	1.2	0.0	0.6	0.2	0.5	2.3	0.0	(s)	0.0	1.0	9.9	2.6	12.5
1965	2.1	5.0	1.7	0.0	0.5	0.9	1.3	4.5	0.0	(s)	0.0	1.5	13.0	3.6	16.6
1970	0.9	8.6	1.5	0.0	0.9	0.8	0.7	3.8	0.0	(s)	0.0	2.4	15.6	5.7	21.4
1975	1.5	12.4	1.0	0.0	0.8	0.5	3.1	5.4	0.0	(s)	0.0	2.7	22.1	6.6	28.7
1980 1985	1.5	R 11.6 R 10.7	3.7	0.0	0.3	0.4	2.5	7.0 3.8	0.0	0.1	0.0	3.9	23.9	9.4 15.9	33.3 37.6
1985	2.0 1.5	R 10.7	2.9 1.0	(s) (s)	0.1 0.4	0.4 0.4	0.4 0.1	3.8 1.9	0.0 0.0	0.1 0.2	0.0	6.9 7.8	21.6 19.7	18.1	37.8 37.8
1995	1.5	R 12.2	0.9	(S) (S)	0.4	0.4	0.1	1.5	0.0	0.2	(s) 0.1	9.3	22.4	21.1	43.6
1996	1.9	K 12 8	1.2	(s)	0.6	0.1	(s)	1.9	0.0	0.2	0.1	9.8	24.5	22.3	46.9
1997	1.9	R 11.4	1.5	(s)	1.0	0.1	0.1	2.6	0.0	0.2	0.1	9.4	24.2	21.4	45.6
1998	1.5	R 10.5	1.6	(s)	0.7	0.1	0.1	2.5	0.0	0.2	0.1	9.4	22.7	21.4	44.1
1999	1.6	K 10 5	1.4	(s)	0.9	0.1	0.1	2.5	0.0	0.2	0.1	9.5	22.9	21.8	44.7
2000	1.7	R 11.4	1.3	(s)	1.1	0.1	0.1	2.6	0.0	0.2	0.1	10.2	24.7	23.2	47.9
2001 2002	1.9 2.1	R 10.8 R 11.3	1.5 0.8	(s) (s)	1.3 1.1	0.1 0.1	0.2 0.6	3.1 2.6	0.0 0.0	0.2 0.2	0.1 0.1	12.2 13.4	26.9 28.3	27.2 29.8	54.1 58.1
2002	2.1	R 11.3	1.0	(S) (S)	1.1	0.1	0.6	2.6	0.0	0.2	0.1	13.4	28.3 27.8	29.8	56.4
2003	3.8	R 10.5	1.0	(s)	1.1	0.1	0.0	2.3	0.0	0.2	0.2	13.1	28.9	29.0	57.9
2005	4.3	K 10.3	0.8	(s)	1.2	0.1	0.3	2.4	0.0	0.2	0.2	13.6	29.4	29.8	59.2
2006	1.7	R 9.8	0.9	(s)	0.9	0.1	0.1	2.0	0.0	0.2	0.3	14.1	26.4	30.4	R 56.8
2007	3.4	10.8	0.9	(s)	1.0	0.1	0.2	2.1	0.0	0.2	0.3	14.4	29.8	31.0	60.9

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Dakota

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	521	20	2,104	257	2,927	530	2,005	7,823	0			121			
1965 1970	444 523	21 16	2,696	240 206		632	1,702 2,456	7,804	0			241 720			
1970	523	14	2,174 1,613	189		558 577	2,456	7,710 6,792	0			1,007			
1980	585	2	2,460	690	1,540	315	1,836	6,842	0			1,576			
1985	5,407	7	2,890	340		440	1,896	6,646	Ő			1,988			
1990	6,400	11	3,016	644	799	304	1,979	6,742	0			1,760			
1995	7,447	18	3,027	830	685	145	1,923	6,610	0			1,771			
1996 1997	6,724 6,465	20	2,912 2,613	1,093 734	575 450	129 178	2,190 2,508	6,899 6,482	0						
1997	6,664	29 29	2,563	691	562	27	2,506	6,386	0			2,076 2,187			
1999	6,608	26	2,362	972	434	46	3,233	7,048	0			3,013			
2000	6,719	24	2,756	1,283	443	66	2,179	6,726	ő			3,031			
2001	6.595	26	3,420	3,057	527	33	2,600	9,637	0			2,753			
2002	6,592	29	2,839	1,279	550	4	2,334	7,005	0			2,636			
2003 2004	6,628	24 24	2,796 3,532	721 1,286	573 717	43 45	1,965	6,098 7,865	0			2,954 3,010			
2004	5,913 6,467	19	3,532 3,747	1 180	626	210	2,285 2,699	7,000 8,462	0			3,050			
2006	6,671	21	3,787	R 1,031	676	95	3,173	8,462 R 8,762	0			3,266			
2007	6,424	25	3,871	1,230	577	68	1,865	7,611	Ö						
							Tr	illion Btu							
1960	7.7	20.3	12.3	1.0	15.4	3.3	12.7	44.7	0.0	0.0	0.0	0.4	73.2	1.0	74.2
1965	6.5	20.9	15.7	1.0		4.0	10.7	44.7	0.0		0.0		72.9	2.0	74.8
1970	7.2	16.3	12.7	0.8		3.5	15.6	44.7	0.0		0.0	2.5	70.8	5.9	76.7
1975	7.4	14.0	9.4	0.7	11.5	3.6	14.0	39.2	0.0		0.0		64.1	8.3	72.3
1980	7.7	2.1 _R 7.3	14.3	2.5	8.1	2.0	11.5	38.4	0.0		0.0		53.6	13.0	66.5
1985 1990	71.2 86.3	R 11.7	16.8 17.6	1.2 2.3	5.7 4.2	2.8 1.9	12.2 12.4	38.7 38.4	0.0 0.0		0.0 0.0		123.6 141.5	15.6 13.9	139.2 155.4
1995	99.4	R 18.7	17.6	3.0	3.6	0.9	12.4	37.2	0.0	0.1	0.0		161.0	13.7	174.8
1996	90.0	R 20.5	17.0	3.9	3.0	0.8	13.7	38.5	0.0	0.7	0.0	6.3	154.5	14.2	168.7
1997	85.9	R 30 6	15.2	2.7	2.3	1.1	15.9	37.2	0.0		0.0		159.0	16.1	175.0
1998	88.9	R 30.0	14.9	2.5	2.9	0.2	16.2	36.7	0.0	1.0	0.0	7.5	161.3	16.9	178.2
1999	88.2	R 27 4	13.8	3.5	2.3	0.3	20.8	40.6	0.0	1.1	0.0		165.0	23.5	188.5
2000	95.6	R 24.7	16.1	4.6	2.3	0.4	13.8	37.2	0.0		0.0		167.1	23.5	190.6 R 200.9
2001 2002	93.5 92.2	R 26.9 R 28.2	19.9 16.5	11.0 4.6		0.2	16.5 14.7	50.4 38.8	0.0	_ 1.3	0.0		R 180.0 R 167.2	20.9 20.0	R 200.9 R 187.2
2002	94.8	R 23.2	16.3	2.6		(s) 0.3	12.2	34.4	0.0	R 1 3	0.0		K 161 8	20.0	R 184.0
2003	84.8	R 24.4	20.6	4.7	3.7	0.3	14.4	43.6	0.0	R 1.9	0.0		K 162.9	22.7	185.6
2005	92.3	R 19 8	21.8	4.3	3.3	1.3	17.1	47 7	0.0	K 2 5	0.0	10.4	R 170 9	22.8	193 6
2006	95.3	R 22.2	22.1	R 3.7	3.5	0.6	20.2	^R 50.1	0.0	R 2.5	0.0	11.1	R 178.9	24.1	R 203.0
2007	91.8	26.4	22.5	4.4	3.0	0.4	11.5	42.0	0.0	2.1	0.0	12.4	172.2	26.7	198.8

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, North Dakota

						Pe	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	9	(s)	66	592	2,103	29	158	4,760	69	7,778	0	0			
1965	1	(s)	165	916	2,069	22	147	5,499	25	8,843	0	0			
1970 1975	(s)	(s) (s)	95 85	1,441 1,880	2,074 1,855	3 2	138 137	6,300 7,756	41 0	10,092 11,715	0	0			
1980	0	(s)	64	3.795	1,702	12	151	7,553 7,673	0	13,278	Ö	ő			
1985	0	1	4	3,009	1,682	11	138	7,673	0	12,517	60	0			
1990	0	2	28	2,990	1,178	14	155	7,282	0	11,647	76	0			
1995 1996	0	5 5	65 50	4,014 4,241	333 246	13 21	148 144	7,955 8,098	0	12,528 12,800	151 113	0			
1997	0	5	33	4,409	189	12	152	8,168	0	12,963	112	0			
1998	Ō	(s) 10	43	3,728	211	4	159	8,098	Ō	12,243	108	Ō			
1999	0		39	4,386	405	9	160	8,255	0	13,255	117	0			
2000 2001	0	11 14	34 86	4,158 4,632	413 751	5 8	158 145	8,060 7,941	0 0	12,829 13,562	141 168	0			
2001	0	14	58	4,032	528	10	143	7,941	0	13,465	213	0			
2003	ő	14	70	4,727	558	23	132	8,083	ő	13,592	254	Ő			
2004	0	14	64	5,037	1,093	33	134	7,875	0	14,237	222	0			
2005	0	13	66	5,380	646	23	133	8,080	0	14,327	R 491 R 470	0			
2006 2007	0	13 14	43 37	5,489 7,338	735 710	19 19	130 134	7,759 8,054	0	14,176 16,291	583	0			
			<u> </u>	.,000				Trillion Btu		.0,201					
1960	0.1	(s)	0.3	3.5	11.3	0.1	1.0	25.0	0.4	41.6	0.0	0.0	41.7	0.0	41.7
1965	(s)	(s)	0.8	3.5 5.3	11.1	0.1	0.9	28.9	0.2	47.3	0.0	0.0	47.3	0.0	47.3
1970	(s)	(s)	0.5	8.4	11.2	(s)	0.8	33.1	0.3	54.2	0.0	0.0	54.3	0.0	54.3
1975 1980	(s) 0.0	0.1 0.2	0.4 0.3	11.0 22.1	10.0 9.2	(s)	0.8 0.9	40.7 39.7	0.0 0.0	63.0 72.3	0.0 0.0	0.0 0.0	63.1 72.5	0.0 0.0	63.1 72.5
1985	0.0	0.2	(s)	17.5	9.2	(s) (s)	0.9	40.3	0.0	67.8	0.0	0.0	68.8	0.0	68.8
1990	0.0	1.8	(s) 0.1	17.4	6.4	0.1	0.9	38.3	0.0	63.2	0.3	0.0	65.3	0.0	65.3
1995	0.0	5.0	0.3	23.4 24.7	1.9 1.4	(s)	0.9	41.5	0.0	68.0	0.5	0.0	73.0	0.0	73.0
1996	0.0	5.1	0.3	24.7		0.1	0.9	42.2	0.0	69.5	0.4	0.0	74.6	0.0	74.6
1997 1998	0.0 0.0	5.3 0.5	0.2 0.2	25.7 21.7	1.1	(s)	0.9 1.0	42.6 42.2	0.0 0.0	70.5 66.3	0.4 0.4	0.0 0.0	75.8 66.8	0.0 0.0	75.8 66.8
1998	0.0	10.0	0.2	21.7 25.5	1.2 2.3	(s) (s)	1.0	42.2 43.0	0.0	66.3 72.1	0.4	0.0	82.1	0.0	82.1
2000	0.0	11.0	0.2	24.2	2.3	(s)	1.0	42.0	0.0	69.7	0.4	0.0	80.7	0.0	80.7
2001	0.0	14.0	0.4	27.0	4.3	(s)	0.9	41.4	0.0	74.0	0.6	0.0	88.0	0.0	88.0
2002	0.0	13.9	0.3	27.6	3.0	(s)	0.9	41.6	0.0	73.4	0.8	0.0	87.3	0.0	87.3
2003	0.0	13.8	0.4	27.5	3.2	0.1	0.8	42.1	0.0	74.0	0.9	0.0	87.8	0.0	87.8
2004 2005	0.0 0.0	14.2 13.8	0.3 0.3	29.3 31.3	6.2 3.7	0.1 0.1	0.8 0.8	41.1 42.2	0.0 0.0	77.9 78.4	0.8 R 1.7	0.0 0.0	92.1 92.2	0.0 0.0	92.1 92.2
2006	0.0	13.6	0.3	32.0	4.2	0.1	0.8	40.5	0.0	77.7	R 1.7	0.0	91.3	0.0	91.3
2007	0.0	14.6	0.2	42.7	4.0	0.1	0.8	42.0	0.0	89.9	2.1	0.0	104.5	0.0	104.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, North Dakota

				Petro	oleum				Biomass				=	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^C	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Weed	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Kil	owatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	1,014	(s)	15	4	0	20	0	1,060		0	0	0	0	
1965	964	(s) (s)	15 2	1	Ō	3	0	2,497		Ō	Ō	0	-1	
1970 1975	3,519	(s)	25	7	0	32	0	2,815		0	0	0	293	
1975	4,377	(s)	18	2	0	20	0	3,345		0	0	0	1,166	
1980 1985	11,618	(s)	0	68	0	68	0	2,513		0	0	0	2,850	
1985	17,354 21,579	(s) (s)	0	74 57	0	74 57	0	2,173 1,711		0	0	(s) 0	2,645 20	
1995	22,680	(s)	0	99	0	99	0	2,457		0	0	0	731	
1996	23,640	(s)	0	155	0	155	0	3,151		0	0	0	868	
1997	22.754	(s) (s)	Ö	153	Ő	153	Ő	3,320		Ő	ő	Ő	118	
1998	24,278 24,540	`ó	0	89	0	89	0	2,296		0	0	0	-200	
1999	24,540	0	0	81	0	81	0	2,609		0	0	0	-160	
2000	25,048	.0	0	95	0	95	0	2,123		0	0	0	647	
2001	24,795	(s) (s)	0	64 65	0	64	0	1,332		0	0	0	570	
2002	25,247	(S)	3	65	0	68	0	1,593		0	0	0	175	
2003 2004	25,173 23,915	(s)	0	95 74	0	95 74	0	1,724 1,546		0	0	59 215	-414 104	
2004	25,317	(s) (s)	0	74	0	74	0	1,342		0	0	220	1,694	
2006	24,298	(s)	0	78	0	78	0	1,521		0	0	369	756	
2007	24,639	(s)	ő	96	ő	96	ŏ	1,305		ő	ő	621	1,332	
							Trillion B	tu						
1960	14.0	0.1	0.1	(s)	0.0	0.1	0.0	11.4	0.0	0.0	0.0	0.0	0.0	25.7
1965	13.4	(s)	(s) 0.2	(s)	0.0	(s)	0.0	26.1	0.0	0.0	0.0	0.0	(s)	39.6
1970	48.1	0.4	0.2	(s)	0.0	0.2	0.0	29.5	0.0	0.0	0.0	0.0	1.0	79.2
1975 1980	58.4 153.8	0.2	0.1 0.0	(s) 0.4	0.0 0.0	0.1 0.4	0.0 0.0	34.8 26.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	4.0 9.7	97.5 190.0
1985	228.2	(s) (s)	0.0	0.4	0.0	0.4	0.0	20.1	0.0	0.0	0.0	(s)	9.7	260.4
1990	286.3	(s)	0.0	0.3	0.0	0.3	0.0	17.8	0.0	0.0	0.0	0.0	0.1	304.5
1995	298.6	(s)	0.0	0.6	0.0	0.6	0.0	25.3	0.0	0.0	0.0	0.0	2.5	327.0
1996	311.8	(s) (s)	0.0	0.9	0.0	0.9	0.0	32.6	0.0	0.0	0.0	0.0	3.0	348.2
1997	298.0	(s)	0.0	0.9	0.0	0.9	0.0	33.9	0.0	0.0	0.0	0.0	0.4	333.2
1998	318.6	0.0	0.0	0.5	0.0	0.5	0.0	23.4	0.0	0.0	0.0	0.0	-0.7	341.9
1999	321.3	0.0	0.0	0.5	0.0	0.5	0.0	26.7	0.0	0.0	0.0	0.0	-0.5	347.9
2000	327.1	0.0	0.0	0.6	0.0	0.6	0.0	21.7	0.0	0.0	0.0	0.0	2.2	351.5
2001	324.4	(s) (s)	0.0	0.4	0.0	0.4	0.0	13.8	0.0	0.0	0.0	0.0	1.9	340.4
2002 2003	328.3 323.2	(S) (S)	(s) 0.0	0.4 0.6	0.0 0.0	0.4 0.6	0.0 0.0	16.2 17.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.6	0.6 -1.4	345.5 340.6
2003	323.2 309.3	(S) (S)	0.0	0.6	0.0	0.6	0.0	17.7	0.0	0.0	0.0	2.1	-1.4 0.4	340.6
2004	334.1	(s)	0.0	0.4	0.0	0.4	0.0	13.4	0.0	0.0	0.0	2.2	5.8	355.9
2006	317.6	(s)	0.0	0.5	0.0	0.5	0.0	15.1	0.0	0.0	0.0	3.7	2.6	339.4
2007	324.5	(s)	0.0	0.6	0.0	0.6	0.0	12.9	0.0	0.0	0.0	6.1	4.5	348.7
		. , ,												

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Ohio

						Petroleum						Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	51,250	700	23,919	1,808	3,680	78,170	11,605	24,677	143,859	0	20					
1965	54,022	880	27,663	3,075	5,441	86,271	10,963	33,792	167,205	22	11					
1970 1975	66,863 70,764	1,053 957	34,458 42,168	5,857 6,039	8,712 9,910	106,296 118,808	6,445 10,399	36,273 34,230	198,040 221,554	0	7					
1980	64,914	897	48,833	7.219	44,263	113,232	6,918	37,425	257,892	2,119	6					
1985	57,979	733	36,629	7,204	27,919	108,763	2,322	27,522	210,359	1,943	175					
1990	59,205	747	37,580	10,602	10,994	110,487	1,656	35,393	206,713	10,664	181					
1995 1996	56,580	890	40,203 44.036	11,236 11,960	14,273 16.019	116,222 115.361	1,422 1.684	34,246 40,148	217,603	16,768	232					
1990	59,835 58,821	933 898	44,036	R 12,610	11,105	118,336	1,004	43,317	229,208 R 233,688	13,919 15,331	397 507					
1998	60,514	811	45,775	R 13,838	8,687	119,932	916	42,774	R 231,922	16,476	406					
1999	57,600	842	47,989	16,457	12,929	120,902	1,221	45,931	245,429	16,422	423					
2000	60,246	891	48,814	18,655	11,961	121,297	1,510	40,044	242,282	16,781	583					
2001 2002	58,424 59,610	804 831	49,465 50,706	18,579 17,489	9,779 13,392	121,450 123,465	1,034 966	39,915 38,351	240,222 244,369	15,464 10,865	511 488					
2002	61.064	848	50,801	17,403	20,632	124,282	571	37,700	251,671	8,475	511					
2004	59,023	826	55,757	18,635	10,965	124,517	750	40,119	250,743	15,950	730					
2005	63,826	826	53,578	18,615	13,308	124,698	1,424	35,869	247,492	14,803	516					
2006 2007	R 62,837 63,791	742 806	55,293 57,859	18,486 18,145	12,137 9,022	124,364 124,107	1,375 909	37,110 38,491	248,765 248,533	16,847 15,764	632 410					
								Trillion Btu								
1960	1,269.2	724.8	139.3	9.8	14.8	410.6	73.0	149.9	797.4	0.0	0.2	36.8	0.0	167.0	0.0	2,995.5
1965	1,324.4	909.4	161.1	17.0	21.8	453.2	68.9	201.1	923.2	0.3	0.1	38.6	0.0	178.9	0.0	3,374.9
1970 1975	1,571.4 1,619.0	1,077.2 978.9	200.7 245.6	32.8 33.9	32.9 36.8	558.4 624.1	40.5 65.4	217.2 206.4	1,082.5 1,212.2	0.0 0.0	0.1 0.1	44.1 46.2	0.0 0.0	168.8 137.5	0.0 0.0	3,944.1 3,993.9
1975	1,528.1	R 911.3	245.6 284.5	40.6	30.0 162.6	594.8	43.5	221.2	1,347.2	23.1	0.1	107.3	0.0	157.5	-70.3	3,999.9
1985	1,389.5	R 765.4	213.4	40.6	100.6	571.3	14.6	164.9	1,105.4	20.6	1.8	121.9	0.0	267.5	-20.9	3,651.2
1990	1,425.3	R 776.6	218.9	59.9	39.9	580.4	10.4	212.8	1,122.2	112.8	1.9	66.1	0.4	325.7	8.1	3,839.1
1995	1,379.8	R 923.9	234.2	63.7	51.7	606.1	8.9	205.6	1,170.2	176.2	2.4	65.3	0.6	372.9	-0.9	4,090.3
1996 1997	1,447.1 1,407.2	R 968.6 R 938.2	256.5 274.2	67.8 71.5	57.9 40.2	601.7 616.9	10.6 7.8	240.9 261.8	1,235.4 1,272.3	146.2 160.9	4.1	74.2 68.3	0.6 0.7	324.7 334.3	-1.9 -1.5	4,199.1 R 4,185.7
1997	1,407.2	R 843.9	274.2 266.6	R 78.5	40.2 31.4	625.1	7.8 5.8	257.2	1,272.3	172.8	5.2 4.1	62.3	0.7	334.3 291.6	-1.5 -1.2	R 4,185.7
1999	1,382.2	R 873 2	279.5	93.3	46.8	630.0	7.7	276.2	1,333.5	171.6	4.3	69.4	0.9	402.5	-1.2	4,236.3
2000	1,428.5	R 928.4	284.3	105.8	43.1	632.0	9.5	241.3	1,316.0	175.0	5.9	72.8	0.9	336.3	-1.5	4,262.3
2001	1,362.8	R 838.0 R 852.6	288.1	105.3	35.3	632.8	6.5	241.6	1,309.6	161.6	5.3	44.9	0.9	289.7	-1.2	4,011.7
2002 2003	1,396.9 1,443.5	R 872.1	295.4 295.9	99.2 100.3	48.4 74.9	643.0 647.1	6.1 3.6	231.3 226.9	1,323.3 1,348.7	113.4 88.3	5.0 5.2	32.2 41.5	1.0 1.4	241.9 202.6	-0.1 -1.1	3,966.2 4,002.2
2003	1,391.3	R 846.4	324.8	105.7	39.7	649.4	4.7	241.6	1,365.8	166.3	7.3	42.5	1.4	193.6	-0.7	R 4.014.0
2005	1,481.0	R 862.3	312.1	105.5	48.2	650.7	9.0	216.0	1,341.4	154.5	5.2	R 49 4	1.9	165.2	-1.8	R 4 059 0
2006	1,446.0	R 771.3	322.1	104.8	43.8	648.9	8.6	223.8	1,352.0	175.8	6.3	R 48.1	2.1	94.6	1.7	R 3,897.9
2007	1,461.7	836.3	337.0	102.9	32.4	647.7	5.7	231.3	1,357.0	165.3	4.1	51.3	2.4	170.5	0.4	4,048.9

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Geothermal, solar thermal, photovoltaic, and wind energy.

¹ Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Ohio

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	l Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	2,013	362 412	7,270	1,837	1,750	10,857 13,715	990			10,786			
1965	1,285	412	7,795	3,626	2,293 3,892	13,/15	805			14,504			
1970	906	460	9,320	2,979	3,892	16,191 17,713 11,003	925			22,266			
1975 1980	340 117	428 394 328	10,776 7,430	2,060 1,016	4,876	17,713	963 2,421			27,890			
1985	189	394	7,430 4,645	1,016	2,556 3,339 4,205	11,003	2,421			33,459			
1000	131	308	4,740	941 625	3,339 4 205	8,925 9,570	1,560			33,945 37,889			
1005	53	358	3 008	748	4,979	9,370	838			44 010			
1990 1995 1996	53 79 36 43 26	358 375 355 297	3,998 3,777	818	6,683	9,725 11,278	871			44,010 44,573			
1997	36	355	3,777 3,325 2,893 3,432 2,999 2,764 3,175	774	6 467	10 567	567			43,635			
1997 1998	43	297	2.893	774	6,467 5,593	9,261 12,210 9,887 7,517 8,767 9,902 8,903	567 504			44,516			
1999	26	318	3,432	1,295	7.483	12,210	530			46,629			
2000	24	344 309	2,999	419	6.468	9,887	570			46.488			
2001	25	309	2,764	442	4.311	7,517	758			47,346			
2002 2003	24 25 43 26 46	321	3,175	329	5.263	8,767	770			50.864			
2003	26	343 321	3,242	369	6,291	9,902	810			49,621			
2004	46	321	3.348	485	5,071	8,903	831			50.300			
2005	27	323	2,860	442	5,052	8 354	831 R 1,140 R 1,038			53,904			
2006 2007	R 10 13	272 300	2,197 2,514	364 243	R 4,514 5,096	R 7,075 7,854	^K 1,038 1,144			51,375 54,376			
						Т	rillion Btu						
1960	48.0	374.5	42.3	10.4	7.0	59.8	19.8	0.0	0.0	36.8	538.9	91.0	629.9
1965	30.5	425.6	45.4	20.6	9.2	75.2	16.1	0.0	0.0	49.5	538.9 596.9	118.2	715.0
1960 1965 1970	30.5 20.8	470.6	45.4 54.3	20.6 16.9	9.2 14.7	85.9	18.5	0.0 0.0	0.0 0.0	76.0	671.7	183.9	715.0 855.6
1975	7.6	438 1	62.8	11.7	18.1	92.6	19.3	0.0	0.0	95.2	652.7	228.8	881.5
1980	2.7	R 400.1	43.3	5.8	9.4	58.4	48.4	0.0	0.0	114.2	592.5	275.2	867.7
1980 1985 1990	2.7 4.5 3.2	R 400.1 R 342.0 R 320.7	43.3 27.1	5.8 5.3 3.5	12.0	44.4	48.4 50.3 31.2	0.0	0.0	115.8	545.5	266.7	867.7 812.2 829.7
1990	3.2	R 320.7	27.6	3.5	15.2	46.4	31.2	0.3	(s) (s) (s) (s)	129.3	530.7	299.0	829.7
1995 1996	1.3 1.9	R 371.4 R 389.1	23.3 22.0	4.2 4.6	18.0	45.6	16.8	0.4 0.5	(s)	150.2	585.3	341.0	926.3 956.8
1996	1.9	N 389.1	22.0	4.6	24.1	50.8	17.4	0.5	(S)	152.1	611.0	345.8	956.8
1997 1998	0.9	R 370.5 R 308.5	19.4	4.4 4.4	23.4	47.1	11.3	0.5	0.1	148.9	578.7	337.3 344.5 363.9	916.0 857.6 918.9 933.1 893.3 946.7
1998	1.1	N 308.5	16.9	4.4	20.2	41.5	10.1	0.5	0.1	151.9	513.1	344.5	857.6
1999	0.6	R 330.1 R 358.5	20.0	7.3	27.1	54.4	10.6	0.6	0.1 0.1	159.1	555.0	363.9	918.9
2000	0.6 0.6	358.5 R 221 6	17.5 16.1	2.4	23.3 15.6	43.2	11.4	0.6		158.6 161.5	572.3	360.8	933.1 902.2
2001 2002	1.0	321.0	18.5	2.5 1.9	19.0	34.2 39.4	15.2 15.4	0.6 0.7	0.1 0.1	161.5 173.5	533.3 559.8	360.0 386.9	093.3
2002	0.6	R 321.6 329.7 R 352.6 R 328.8 R 337.1 R 282.9	18.9	2.1	22.8	43.8	16.2	0.7	0.1	169.3	583.1	373.6	940.7 956.7
2003 2004	1.0	R 328 8	19.5	2.7	18.3	40.6	16.2	0.9	0.1 0.2	171.6	559 5	379.7	R 939 3
2005	0.6	R 337.1	16.7	2.5	18.3	37.5	R 22.8	1.1	0.2	183.9	R 582.9	402.3	R 985.2
2006	0.2	R 282.9	12.8	2.1	18.3 R 16.3	37.5 R 31.1	16.6 R 22.8 R 20.8 22.9	1.2 1.5	0.2 0.2	175.3	559.5 R 582.9 R 511.7	379.1	956.7 R 939.3 R 985.2 R 890.7
2007	0.3	310.7	14.6	1.4	18.3	34.3		:-=		185.5	555.3	400.3	955.6

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

net energy and total.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation methodology. ' Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in

both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Ohio

					Petro	oleum			Unidad	Biomass		D. (-)			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total ^{f,h}
1960	1,399	108	1,443	95	309	541	2,118	4,507	0			7,594			
1965	969	127	1,548	188	405	572	1,997	4,710	0			10,384			
1970	712	183	1,850	155	687	401	824	3,917	0			17,073			
1975 1980	792 439	169 166	2,139 2,591	107 130	861 451	956 2,058	1,457 380	5,520 5,610	0			20,047 23,323			
1985	670	143	2,114	440	589	604	83	3,830	0			29,176			
1990	523	144	1,920	189	742	1,059	22	3,932	0			34,850			
1995	356	175	1,709	.89	879	438	5	3,119	0			40,093			
1996 1997	577 293	190 184	1,335 1,402	155 127	1,179 1,141	365 1,956	2	3,036 4,628	0			40,570 40,935			
1997	293 348	157	1,402	218	987	744	<u> </u>	3,074	0			40,935			
1999	191	168	1,810	129	1,321	175	Ó	3,435	0			43.297			
2000	192	178	1.740	132	1,141	525	0	3,539	0			44,635			
2001	205	173	1,886	147	761	213	1	3,007	0			43,310			
2002	314	163	2,256	93	929	403	4	3,685	0			44,029			
2003 2004	176 410	180 170	1,753 1,932	203 258	1,110 895	212 189	2 101	3,281 3,374	0			44,737 45,313			
2004	307	167	1,270	224	892	275	108	2,769	0			46,870			
2006	R 100	147	1,534	161	R 797	454	28	R 2,974	0			46,141			
2007	117	159	1,765	84	899	458	1	3,207	0			48,129			
								Trillion Btu							
1960	33.4	111.7	8.4	0.5	1.2	2.8	13.3	26.3	0.0	0.4	0.0	25.9	197.7	64.1	261.8
1965	23.0	131.0	9.0	1.1	1.6	3.0	12.6	27.3	0.0	0.3	0.0	35.4	217.1	84.6	301.7
1970 1975	16.3 17.7	187.6 173.4	10.8 12.5	0.9 0.6	2.6 3.2	2.1 5.0	5.2 9.2	21.5 30.4	0.0 0.0	0.3 0.4	0.0 0.0	58.3 68.4	284.1 290.3	141.0 164.5	425.1 454.8
1975	17.7	173.4	12.5	0.6	3.2 1.7	10.8	9.2 2.4	30.4 30.7	0.0	1.2	0.0	79.6	290.3 277.3	194.5	454.8 469.1
1985	16.0	149.6	12.3	2.5	2.1	3.2	0.5	20.6	0.0	1.2	0.0	99.5	281.9	229.3	511.2
1990	12.6	149.2	11.2	1.1	2.7	5.6	0.1	20.6	0.0	3.6	0.0	118.9	305.0	275.0	580.0
1995	8.7	181.8	10.0	0.5	3.2	2.3	(s)	16.0	0.0	2.5	0.1	136.8	345.7	310.7	656.3
1996	13.7	197.2	7.8	0.9	4.3	1.9	(s)	14.8	0.0	2.5	0.1	138.4	366.4	314.8	681.2
1997 1998	7.0 8.8	192.1 162.9	8.2 6.5	0.7 1.2	4.1 3.6	10.2 3.9	(s)	23.2 15.2	0.0 0.0	2.6 2.2	0.2 0.2	139.7 144.1	364.5 333.2	316.4 326.8	680.9 660.0
1990	0.0 4.6	173.8	10.5	0.7	4.8	0.9	(s) 0.0	17.0	0.0	2.2	0.2	144.1	345.3	320.0	683.2
2000	4.6	185.4	10.1	0.7	4.1	2.7	0.0	17.7	0.0	2.4	0.2	152.3	362.4	346.4	708.8
2001	4.9	179.9	11.0	0.8	2.7	1.1	(s)	15.7	0.0	2.9	0.2	147.8	351.2	329.3	680.5
2002	7.6	167.5	13.1	0.5	3.4	2.1	(s)	19.1	0.0	3.5	0.3	150.2	348.3	334.9	683.1
2003 2004	4.3 8.8	184.6 174.5	10.2 11.3	1.2 1.5	4.0 3.2	1.1 1.0	(s) 0.6	16.5 17.6	0.0 0.0	3.5	0.4 0.4	152.6 154.6	361.7 359.2	336.8 342.1	698.5 701.3
2004	0.0 7.4	174.5	7.4	1.3	3.2	1.0	0.6	14.0	0.0	3.5 R 3.7	0.4	159.9	359.5	349.8	R 709.3
2006	2.4	152.7	8.9			2.4	0.2	15.3	0.0	R 3.4 4.3	0.5	157.4	331.6	340.4	R 672.0 707.8
2007	2.8	165.4	10.3	0.9 0.5	2.9 3.2	2.4	(s)	16.4	0.0	4.3	0.5	164.2	353.5	354.3	707.8

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Ohio

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	25,835	218	7,112	1,585	3,354	9,082	19,969	41,102	12			39,246			
1965 1970	26,758 29,875	327 376	8,479 11,429	2,649 3,999	2,598 1,926	8,228 4,166	26,590 31,186	48,544 52,706	1			41,757 45,827			
1970	29,675	345	11,429	3,999	1,519	7,038	29,950	52,706	0			45,62 <i>1</i> 55,597			
1980	15,821	321	12,591	41,031	1,154	5,678	34,381	94,834	0			55,283			
1985	10,420	253	6,944	23,612	1,074	2,098	24,514	58,242	0			61,109			
1990	9,703	284	5,973	5,689	973	1,493	32,881	47,010	ő			69,682			
1995	6.386	332	5,861	8.159	1,200	1,362	31,782	48.364	0			74,473			
1996	5,636	345	5,609	7,922	1,203	1,600	37,479	53,813	0						
1997	5,599	336	5,721	3,219	1,231	1,185	40,610	51,966	0			73,888			
1998	5,510	332	5,369	1,998	1,311	846	39,922	49,447	0			72,998			
1999 2000	5,156 4,296	327 340	5,271 4,868	3,936 4,206	1,126 707	1,193 1,485	42,754 37,788	54,279 49,054	0			74,293 74,019			
2000	4,360	297	5,471	4,200	1,874	952	37,766	50,620	0			65,099			
2002	3,336	307	5,451	7.021	1,974	852	36,442	51,741	0			58.472			
2003	3,637	291	6,201	12,964	2,098	553	35,754	57,570	0			57,828			
2004	3,573	303	6,576	4,776	2,408	648	36,104	50,512	Ö			58,558			
2005	3.885	295	6,017	7,096	2,349	1,315	31,994	48,772	0			59,354			
2006	4,123	287	5,941	R 6,564	2,440	1,346	33,196	R 49,487	0			55,869			
2007	4,210	296	5,883	2,829	1,932	905	35,074	46,623	0			59,219			
							Tr	Ilion Btu							
1960	664.3	226.1	41.4	6.4	17.6		123.6	246.1	0.1	16.5	0.0		1,287.1	331.2	1,618.2
1965	681.5	338.3	49.4	10.6	13.6	51.7	161.1	286.5	(s)	22.1	0.0		1,470.8	340.2	1,811.0
1970	738.5	384.8	66.6	15.1	10.1	26.2	188.3	306.3	0.0	25.2	0.0		1,611.1	378.5	1,989.6
1975	556.5	352.8	64.9	14.8	8.0	44.2	181.8	313.8	0.0	26.6	0.0		1,439.3	456.2	1,895.5
1980 1985	404.7 265.7	R 326.0 R 264.4	73.3 40.4	150.7 85.1	6.1 5.6	35.7 13.2	203.6 147.5	469.5 291.9	0.0	57.7 67.6	0.0		1,421.1 1,089.3	454.7 480.2	1,875.8 1,569.5
1985	248.2	R 294.9	34.8	20.6	5.0	9.4	198.1	268.0	0.0	27.6	0.0		1,076.3	549.8	1,626.1
1995	162.9	R 344.5	34.1	29.6	6.3	8.6	191.2	269.7	0.0	45.5	0.0		1,076.4	577.1	1,653.4
1996	142.2	K 358 1	32.7	28.6	6.3	10.1	225.4	303.1	0.0	53.4	0.0	250.4	1,106.5	569.5	1,676.0
1997	141.2	K 351 2	33.3	11.6		7.5	246.1	304.9	0.0	53.6	0.0		1,102.5	571.2	1,673.7
1998	139.8	R 345.6	31.3	7.2	6.8	5.3	240.6	291.3	0.0	49.3	0.0	249.1	1.074.6	564.8	1.639.4
1999	131.1	K 339 1	30.7	14.2	5.9	7.5	257.7	316.0	0.0	55.9	0.0		1,095.1	579.8	1,674.9
2000	110.8	R 354.5	28.4	15.2	3.7	9.3	228.1	284.6	0.0	57.9	0.0	252.6	1,059.8	574.5	1,634.2
2001	114.0	R 309.1	31.9	16.3	9.8	6.0	229.2	293.1	0.0	25.8	0.0		963.7	495.0	1,458.7
2002	86.6	314.9	31.8	25.4	10.3	5.4	220.0	292.8	0.0	12.2	0.0		906.0	444.7	1,350.7
2003 2004	94.8 93.7	R 299.6 R 310.5	36.1	47.0	10.9	3.5	215.4 217.8	313.0 290.0	0.0	20.5	0.0		924.8	435.4 442.1	1,360.2 1,357.1
2004	93.7	R 308.0	38.3 35.1	17.3 _ 25.7	12.6 12.3	4.1 8.3	192.9	290.0	0.0	21.3 _ 21.8	0.0		915.0 _ 906.3	442.1 443.0	1,357.1
2005	100.1	R 298.6	34.6	R 23.7	12.3	8.5	200.7	R 280.2	0.0	R 22.9	0.0		R 898.3	443.0	R 1,349.2
2007	108.7	307.0	34.3	10.2	10.1	5.7	211.1	271.3	0.0	23.0	0.0		911.9	436.0	1,347.8
															.,

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Ohio

						Per	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	444	9	1,395	7,987	1,808	36	1,381	74,274	310	87,192	0	91			
1965 1970	87 48	11 12	2,125 712	9,722 11,068	3,075 5,857	94 133	1,263 1,241	83,101 103,970	633 758	100,013 123,739	0	57 54			
1975	40	9	491	15,647	5,926	180	1,622	116,333	592	140,790	0	45			
1980	Ö	11	473	24.578	7.219	225	1.425	110,021	255	144,198	Ö	46			
1985	0	8	330	22,418	7,204	379	1,297	110,021 107,086	0	138,713	1,280	46			
1990	0	10	239	24,495	10,602	358	1,459	108,455	5	145,613	2,485	44			
1995 1996	0	18 20	235 345	27,993 32,731	11,236	256 234	1,392 1,351	114,584 113,793	56	155,753	5,074	49 50			
1990	0	20	379	36,052	11,960 R 12,610 R 13,838	23 4 277	1,427	115,795	82 59	160,497 R 165,953 R 169,494	2,002 3,576	50			
1998	0	18	365	35,753	R 13.838	109	1,494	117,877	58	R 169,494	5.312	47			
1999	0	18	244	36,490	16.457	190	1,510	119.601	7	174,499	5,312 5,478	52			
2000	0	19	218	38,414	18,655	145	1,487	120,065	12	178,997	5,593	53			
2001	0	16	147	38,560	18,579	201	1,363	119,363	68	178,280	4,881 4,774	43			
2002 2003	0	17 16	141 129	39,154 38,736	17,489 17,685	179 267	1,347 1,245	121,086 121,972	102 16	179,498 180,049	4,774	43 45			
2003	0	13	118	43,160	18,635	223	1,261	121,972	10	185,319	4 342	49			
2005	Ö	14	109	42,707	18.615	268	1,255	122,074	Ö	185,028	R 5.320	48			
2006	0	13	331	45,037	18,486	262	1,222	121,470	1	186,808	R 5,320 R 5,801	44			
2007	0	14	327	47,104	18,145	198	1,262	121,717	3	188,757	7,271	48			
								Trillion Btu							
1960	11.0	9.4	7.0	46.5	9.8	0.1	8.4	390.2	2.0	464.0	0.0	0.3	484.7	0.8	485.5
1965 1970	2.1 1.1	11.4 12.3	10.7 3.6	56.6 64.5	17.0 32.8	0.4 0.5	7.7 7.5	436.5 546.2	4.0 4.8	532.9 659.8	0.0 0.0	0.2 0.2	546.7 673.4	0.5 0.4	547.1 673.8
1970	0.1	9.2	2.5	91.1	32.8	0.5 0.7	7.5 9.8	546.2 611.1	3.7	752.2	0.0	0.2	761.7	0.4	762.1
1980	0.0	11.6	2.4	143.2	40.6	0.8	8.6	577.9	1.6	775.2	0.0	0.2	787.0	0.4	787.4
1985	0.0	8.6	1.7	130.6	40.6	1.4	7.9	562.5	0.0	744.6	4.5	0.2	757.9	0.4	758.3
1990	0.0	10.5	1.2	142.7	59.9	1.3	8.9	569.7	(s)	783.7	8.8	0.2	803.1	0.3	803.4
1995	0.0	18.5	1.2	163.1	63.7	0.9	8.4	597.6	0.4	835.2	18.0	0.2	853.9	0.4	854.3
1996	0.0	21.2	1.7	190.7	67.8	0.8	8.2	593.5	0.5	863.3	7.1	0.2	884.7 R 914.7	0.4	885.1 R 915.1
1997 1998	0.0 0.0	20.8 18.7	1.9 1.8	210.0 208.3	71.5 R 78.5	1.0 0.4	8.7 9.1	600.3 614.4	0.4 0.4	893.7 R 912.8	12.7 18.8	0.2 0.2	R 931.6	0.4 0.4	R 932.0
1999	0.0	18.5	1.2	212.6	93.3	0.4	9.1	623.2	(s)	940.2	19.4	0.2	958.9	0.4	959.3
2000	0.0	19.8	1.1	223.8	105.8	0.7	9.0	625.5	0.1	965.8	19.8	0.2	985.7	0.4	986.1
2001	0.0	16.7	0.7	224.6	105.3	0.7	8.3	621.9	0.4	962.0	17.3	0.1	978.9	0.3	979.2
2002	0.0	17.2	0.7	228.1	99.2	0.6	8.2	630.6	0.6	968.0	16.9	0.1	985.4	0.3	985.7
2003	0.0	16.0	0.7	225.6	100.3	1.0	7.6	635.1	0.1	970.3	15.6	0.2	986.4	0.3	986.7
2004 2005	0.0 0.0	13.8	0.6	251.4 248.8	105.7 105.5	0.8 1.0	7.6 7.6	635.8 637.0	(s) 0.0	1,001.9 1,000.4	15.4 R 18.8	0.2 0.2	1,015.9	0.4 0.4	1,016.3
2005	0.0	14.4 R 13.1	0.6 1.7	248.8 262.3	105.5	0.9	7.0 7.4	633.8	(s)	1,000.4	R 20.5	0.2	1,015.0 R 1,024.3	0.4	1,015.4 R 1,024.6
2007	0.0	14.7	1.7	274.4	102.9	0.5	7.4 7.7	635.2	(s)	1,022.5	25.7	0.1	1,037.4	0.3	1,037.8

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Ohio

				Petro	oleum		Needeen		Biomass				Electricity.	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965 1970 1975	21,559 24,923	3	94	107	0	201	0	7		0	0	0	0	
1965	24,923	3	105	119	0	223	22	10		0	0	0	0	
1970	35,321 47,321	21	697	791	0	1,487	0	7		0	0	0	0	
19/5	47,321	6	1,312	2,568	0	3,880	0	/		0	0	0	0	
1980	48,537	5	605 141	1,643	0	2,248	2,119 1,943	6		0	0	0	0	
1985 1990	46,700 48,848	1	136	508 452	0	649 588	1,943	175 181		0	0	0	0	
1005	49,785	7	0	642	0	642	16,768	232		0	0	0	0	
1995 1996	53,543	3	0	584	0	584	13,919	397		0	0	0	0	
1997	52,893	3	ő	574	0	574	15 331	507		0	0	ő	0	
1998	54,613	8	11	635	0	647	16,476	406		0	0	0	ő	
1999	52,228	11	21	985	Ö	1,006	16,422	423		Ŏ	Ö	Ö	Ŏ	
2000	55,734	10	13	792	0	804	16,781	583		0	0	0	0	
2001	55,734 53,834	11	13	785	0	798	15,464	511		0	0	0	0	
2002	55,917	23	8	671	0	678	10,865	488		0	0	0	-4	
2003 2004	57,224 54,994	19 18	0	869	0	869	8,475	511		0	0	0	-12	
2004	54,994	18	0	741	1,893	2,634	15,950	730		0	0	0	-65	
2005	59,607	28 23	0	723	1,846	2,569	14,803	516		0	0	13	-348	
2006 2007	58,604 59,452	23 37	0	584 591	1,836 1,500	2,420 2,092	16,847 15,764	632 410		0	0	14 15	619 306	
2007	59,452	31	0	591	1,500	2,092				0	0	10	306	
							Trillion E	Btu						
1960	512.5	3.1	0.6	0.6	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	516.9
1965	587.3	3.0	0.7	0.7	0.0	1.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	592.1 825.7
1970 1975 1980	794.7	21.9	4.4	4.6	0.0	9.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	825.7
1975	1,037.2 1,110.5	5.3 R 4.7	8.2 3.8	14.9	0.0 0.0	23.2 13.4	0.0 23.1	0.1 0.1	(s) (s) 2.8	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1,065.8
1005	1,110.5	0.7	0.9	9.6 3.0	0.0	3.8	20.6	1.8	(8)	0.0	0.0	0.0	0.0	1,151.5 1,133.1
1985 1990	1,103.3 1,161.4	1.3	0.9	2.6	0.0	3.5	112.8	1.9	3.6	0.0	0.0	0.0	0.0	1,133.1
1005	1,206.9	7.6	0.9	2.0	0.0	3.7	176.2	2.4	0.6	0.0	0.0	0.0	0.0	1,204.5
1995 1996	1,289.3	7.6 3.0	0.0	3.7 3.4	0.0	3.4	146.2	4.1	0.9	0.0	0.0	0.0	0.0	1,397.5 1,446.8
1997	1 258 2	3.6	0.0	3.3	0.0	3.3	160.9	5.2	0.7	0.0	0.0	0.0	0.0	1 431 9
1998	1,300.5	3.6 R 8.2	0.1	3.3 3.7	0.0	3.3 3.8	172.8	4.1	0.7	0.0	0.0	0.0	0.0	1.490.0
1999	1,245.9	11.6	0.1	5.7	0.0	5.9	171.6	4.3	0.8	0.0	0.0	0.0	0.0	1 440 0
2000	1.312.5	10.3	0.1	4.6	0.0	4.7	175.0	5.9	1.0	0.0	0.0	0.0	0.0	1,509.4 1,426.5 1,448.3
2001	1,243.3 1,301.7	10.7	0.1	4.6	0.0	4 7	161.6	5.3	1.0	0.0	0.0	0.0	0.0	1,426.5
2002	1,301.7	23.3	(s) 0.0	3.9 5.1	0.0	4.0	113.4	5.0	1.0	0.0	0.0	0.0	(s)	1,448.3
2003	1,343.8	19.4	0.0	5.1	0.0	5.1	88.3	5.2	1.2	0.0	0.0	0.0	(s)	1,463.0 1,496.9
2004	1,287.9	R 18.8	0.0	4.3	11.4	15.7	166.3	7.3	1.1	0.0	0.0	0.0	-0.2	1,496.9
2005	1,373.0	R 28.8	0.0	4.2	11.1	15.3	154.5	5.2	1.1	0.0	0.0	0.1	-1.2	1,576.7
2006 2007	1,337.2	23.9 38.5	0.0 0.0	3.4 3.4	11.1 9.0	14.5	175.8 165.3	6.3 4.1	1.1 1.0	0.0 0.0	0.0 0.0	0.1 0.1	2.1 1.0	1,560.9 1,572.4
2007	1,349.9	38.5	0.0	3.4	9.0	12.5	105.3	4.1	1.0	0.0	0.0	0.1	1.0	1,5/2.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Oklahoma

						Petroleum						Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	77	308	2,618	2,920	6,433	22,708	1,454	11,670	47,803	0	705					
1965 1970	30 7	468 597	2,877 5,584	3,453 4,378	7,654 9,618	25,815 32,521	851 807	14,629 15,760	55,278 68,667	0	825 1,406					
1975	23	669	9,449	3,916	9,342	38,469	641	16,767	78,585	0	2,945					
1980	6,046	722	12,125	4,900	8,987	39,633	732	16,188	82,565	0	1,315					
1985 1990	13,602 15,514	587 612	18,723 15,473	5,870 7.832	8,035 3,289	42,170 38,998	219 623	10,322 12,554	85,338 78,768	0	3,980 2,731					
1990	20,742	575	16,672	7,032 5,359	3,625	30,990 42,382	623 442	12,554	80,453	0	2,780					
1996	21,141	574	19,948	4,707 R 5,259	4,076	43,763	392	13,126	86 011	0	2,158					
1997	22,178	567	20,917	R 5,259	4,693	42,670	269	11,996	R 85,804	0	2,921					
1998 1999	20,711 20,288	576 538	21,640 22,151	R 5,348 6,576	3,821 9,198	43,349 43,571	102 111	12,440 11,925	R 86,701 93,533	0	3,509 3,175					
2000	21,422	539	28.249	6,812	5,862	42.325	237	11,895	95.380	0	2,277					
2001	21,224	491	35,302	7,041	5,306	43,027	343	15,368	106,386	0	2,345					
2002	22,090	508 540	30,752	6,434	7,343	42,224	461	14,401	101,616	0	1,988					
2003 2004	22,283 21,008	540 539	29,738 22,757	6,240 6,898	5,472 7,348	43,361 45,338	513 623	14,272 15,251	99,596 98,215	0	1,798 2,977					
2005	22,680	583	28,020	5,964	10,840	45,150	224	15,371	105,569 R 111,677	0	2,630					
2006	21,923	R 624	31,954	5,661	14,870	43,675	246	15,271	R 111,677	0	624					
2007	21,293	658	33,776	5,295	3,656	45,385	320	16,162	104,594	0	3,066					
								Trillion Btu								
1960 1965	1.8 0.7	319.3 480.1	15.3 16.8	15.7 18.7	25.8 30.7	119.3 135.6	9.1 5.4	70.7 89.1	255.9 296.2	0.0 0.0	7.6 8.6	10.2 7.6	0.0 0.0	-12.6 -17.0	0.0 0.0	582.1 776.2
1970	0.2	616.3	32.5	24.0	36.3	170.8	5.1	96.7	365.5	0.0	14.8	7.0	0.0	-64.0	0.0	939.6
1975	0.5	678.9	55.0	21.5	34.7	202.1	4.0	103.8	421.2	0.0	30.6	12.0	0.0	-73.2	0.0	1,070.1
1980 1985	106.3 237.2	738.9 603.9	70.6 109.1	26.9 32.5	33.0 29.0	208.2 221.5	4.6 1.4	99.8 65.3	443.2 458.7	0.0 0.0	13.7 41.6	11.2 15.4	0.0 0.0	-97.8 -57.0	0.0 0.2	1,215.5 1,299.8
1990	278.8	628.2	90.1	43.8	11.9	204.9	3.9	77.4	432.0	0.0	28.4	21.4	0.0	-57.0 1.7	0.2	1,390.7
1995	369.9	586.4	97.1	30.3	13.1	221.0	2.8	73.7	438.0	0.0	28.7	24.5	0.1	-70.4	0.0	1,377.2
1996	373.1	588.0	116.2	26.7	14.7	228.3	2.5	79.7	468.1	0.0	22.3	29.3	0.1	-44.2	0.0	1,436.5
1997 1998	392.4 370.1	573.5 584.0	121.8 126.1	29.8 30.3	17.0 13.8	222.4 225.9	1.7 0.6	72.1 75.7	464.9 472.4	0.0 0.0	29.8 35.8	25.3 24.7	0.1 0.1	-46.5 -42.2	0.0 0.0	1,439.5 1,444.8
1999	360.6	550.8	120.1	37.3	33.3	227.0	0.0	72.0	499.3	0.0	32.5	22.8	0.1	-34.1	0.0	1,431.9
2000	381.1	546.7	164.6	38.6	21.1	220.5	1.5	72.0	518.4	0.0	23.2	24.2	0.1	-17.7	0.0	1,476.0
2001	376.1	505.2	205.6	39.9	19.2	224.2	2.2	94.6	585.6	0.0	24.2	24.1	0.1	-19.5	0.0	1,495.9
2002 2003	391.4 393.8	523.0 558.5	179.1 173.2	36.5 35.4	26.5 19.9	219.9 225.8	2.9 3.2	88.5 87.1	553.4 544.6	0.0 0.0	20.2 18.4	20.6 23.2	0.1 0.6	-51.6 -50.3	0.0	1,457.1 1,488.7
2003	372.1	556.3	132.6	39.1	26.6	225.6 236.4	3.2 3.9	93.5	532.2	0.0	29.8	23.2 26.5	5.8	-50.5 -40.4	(s)	1,482.3
2005	397.4	605.3	163.2	33.8	39.2	235.6	1.4	94.1	567.4	0.0	26.3	26.8	8.5	-82.3	(s) (s) 0.0	1,549.3 R 1,609.1
2006	384.4	R 666.9	186.1	32.1	53.6	227.9	1.5	93.1	594.3	0.0	6.2	27.7	17.0	-87.4	0.0	R 1,609.1
2007	373.2	690.6	196.7	30.0	13.1	236.9	2.0	99.2	578.0	0.0	30.3	26.2	18.3	-108.2	0.0	1,608.5

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oklahoma

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ^g	Total d,f
1960	30	60	2 2	18	3,938	3,959	460			2,372			
1965	10	65 77		78	4,642	4,722	331			4,086			
1970	3	80	3	52 24	5,802	5,856	308			7,293 9,222			
1975 1980	6	80 77	12 15	24 21	5,628 1,759	5,663 1,795	341 142			9,222 12,309			
1985	1	76	86	30	2,027	2,143	279			14,400			
1990	(s)	76 66	(s)	10	1,274	1,284	222			17,077			
1995	1	69	(s) 11	4	1,214	1,229	317			16,319			
1996	(s)	69 77	23	20	1.630	1.673	317 329			17.303			
1997 1998	(s) 32	72 67	4	14	1,533	1,550	157			17,376			
1998	(s) (s)	67	1	13	1,619	1,632	140			19,511			
1999	(s)	62 67	2	9	2,292	2,303	147			18,301			
2000 2001	0	67	2	59 7	2,607 2,482	2,668 2,491	158 143			19,640 19,796			
2001	(s) (s) (s)	65 67	2	15	3,031	2,491	145			19,796			
2002	(5)	66	1	14	2,436	3,048 2,451 2,035	153			20,162			
2004	(3)	66 59	1	17	2,018	2.035	157			19,699			
2005	(s)	59	1	6	1 908	1 915	157 R 171			21,309			
2006	(s) (s)	53	1	9	R 1,992	R 2,002	R 155			21,690			
2007	(s)	60	30	8	2,407	2,445	171			21,361			
						Tr	illion Btu						
1960	0.7	61.9	(s)	0.1	15.8	15.9	9.2	0.0	0.0	8.1	95.8	20.0	115.8
1965 1970	0.2	66.5 79.9	(s)	0.4 0.3	18.6	19.1	6.6	0.0 0.0	0.0	13.9 24.9	106.4	33.3 60.2	139.7 193.5
1970	0.1	79.9	(s) 0.1	0.3	21.9	22.2	6.2	0.0	0.0	24.9	133.3	60.2	193.5
1975	(s)	79.6	0.1	0.1	20.9	21.1	6.8	0.0	0.0	31.5	139.0	75.7	214.7
1980	0.1	76.8 77.6	0.1 0.5	0.1 0.2	6.5 7.3	6.7	2.8 5.6	0.0 0.0	0.0 0.0	42.0	128.4 140.3	101.2 113.2	229.6 253.5 269.2
1985 1990	(s) (s)	67.0	(e)	0.2	4.6	8.0 4.7	4.4	(s)	0.0	49.1 58.3	134.5	134.7	260.0
1995		69.7	(s) 0.1 0.1		4.0	4.7	6.3	(s)	0.1	55.7	136.3	126.4	262.8
1995 1996	(s)	78.4	0.1	(s) 0.1	4.4 5.9	6.1	6.6	(s)	0.1	59.0	150.2	134.3	262.8 284.5
1997	(s) (s) 0.6	72.2	(s)	0.1	5.5	5.6	3.1	(s)	0.1	59.3	140.9	134.3	275.2
1997 1998	(s)	67.0	(s)	0.1	5.8	5.9	2.8	(s)	0.1	66.6	142.3	151.0	293.3
1999	(s) (s) 0.0	62.9	(s)	0.1	8.3	8.3	2.9	(s)	0.1	62.4	136.7	142.8	279.5
2000	0.0	67.4	(s)	0.3	9.4	5.6 5.9 8.3 9.8	3.2	(s)	0.1	67.0	147.4	152.4	275.2 293.3 279.5 299.8 296.3 302.8
2001	(s) (s) (s) 0.0	66.3	(s)	(s) 0.1	9.0	9.0	2.9	(s)	0.1	67.5	145.8	150.5	296.3
2002	(s)	69.3	(s)	0.1	11.0	11.0	2.9	(s)	(s)	68.0	151.3	151.6	302.8
2003	(S)	68.1	(s)	0.1	8.8 7.3	8.9	3.1	(s)	(s)	68.8	148.9	151.8	300.7
2004 2005	0.0 (s)	61.5 62.1	(s)	0.1	7.3 6.0	7.4	3.1 3.4	(s)	(s) (s)	67.2 72.7	139.3	148.7 159.0	288.0
2005	(5)	57.9	(s)	(s)	6.9 R 7.2	6.9 R 7.2	3.4	(s)	(S) (S)	74.0	145.2 R 142.3	160.0	304.2 R 302.3
2007	(s) (s)	63.7	(s) 0.2	(s) (s)	8.6	8.9	3.4	(s) (s)	(s)	72.9	142.3	157.3	306.2

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation methodology.

methodology.

f Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oklahoma

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	21	29	72	83	695	177	395	1,422	0			1,904			
1965	8	27	68	353	819	204	233	1,677	0			2,945			
1970	3	44	95	233	1,024	229	190	1,771	ŏ			4,415			
1975	2	42	406	106	993	264	196	1,965	0			6,810			
1980	24	47	315	15	310	301	30	972	0			9,005			
1985	2	41	732	20	358	338	0	1,447	0			11,706			
1990 1995	(s) 10	37 40	626 270	13 5	225 214	374 38	80	1,317 527	0			13,663 13,359			
1995	10	40	383	5	288	38	(s) 0	713	0			13,828			
1997	259	45	566	16	270	37	0	890	0			14,275			
1998	1	44	619	21	286	37	ŏ	963	ŏ			15,211			
1999	2	40	362	12	404	37	Ö	816	Ö			15,164			
2000	0	43	242	32	460	38	0	772	0			15,989			
2001	1	41	673	8	438	39	0	1,157	0			16,515			
2002	1	40	350	5	535	76	10	976	0			16,661			
2003	1	37	95	5	430	78	0	607	0			16,958			
2004 2005	0	37 39	293 252	7 9	356 337	129 139	0	786 736	0			17,020 17,477			
2005	3	R 35	292	9	R 352	123	0	R 775	0			18,197			
2007	(s)	41	473	8	425	218	0	1,124	Ő			18,634			
								Trillion Btu							
1960	0.5	29.8	0.4	0.5	2.8	0.9	2.5	7.1	0.0	0.2	0.0	6.5	44.1	16.1	60.1
1965	0.2	27.9	0.4	2.0	3.3	1.1	1.5	8.2	0.0	0.1	0.0	10.0	46.5	24.0	70.5
1970	0.1	45.3	0.6	1.3	3.9	1.2	1.2	8.1	0.0	0.1	0.0	15.1	68.7	36.5	105.2
1975	(s)	41.6	2.4	0.6	3.7	1.4	1.2	9.3	0.0	0.1	0.0	23.2	74.3	55.9	130.2
1980	0.6	47.2	1.8	0.1	1.1	1.6	0.2	4.8	0.0	0.1	0.0	30.7	83.4	74.1	157.5
1985	0.1	41.6	4.3	0.1	1.3	1.8	0.0	7.4	0.0	0.1	0.0	39.9	89.2	92.0	181.1
1990	(s) 0.2	38.0	3.6	0.1	0.8	2.0	0.5	7.0	0.0	0.5	0.0	46.6	92.1	107.8	199.9
1995 1996	0.2	40.2 47.2	1.6	(s)	0.8	0.2 0.2	(s)	2.6 3.5	0.0	0.9	0.0	45.6 47.2	89.5	103.5 107.3	193.0 206.1
1996	(s) 4.5	47.2 45.3	2.2 3.3	(s) 0.1	1.0 1.0	0.2	0.Ó 0.0	3.5 4.6	0.0 0.0	0.9 0.5	0.0 0.0	47.2	98.8 103.6	107.3	214.0
1997	4.5 (s)	44.1	3.6	0.1	1.0	0.2	0.0	5.0	0.0	0.5	0.0	51.9	101.4	117.7	219.1
1999	(S)	40.4	2.1	0.1	1.5	0.2	0.0	3.8	0.0	0.5	0.0	51.7	96.5	118.3	214.8
2000	0.0	43.5	1.4	0.2	1.7	0.2	0.0	3.5	0.0	0.5	0.0	54.6	102.0	124.1	226.1
2001	(s)	41.6	3.9	(s)	1.6	0.2	0.0	5.7	0.0	0.5	0.0	56.3	104.2	125.6	229.8
2002	(s)	41.5	2.0	(s)	1.9	0.4	0.1	4.5	0.0	0.5	0.0	56.8	103.3	126.7	230.0
2003	(s)	38.8	0.6	(s)	1.6	0.4	0.0	2.5	0.0	0.5	0.0	57.9	99.8	127.7	227.5
2004	0.0	38.4	1.7	(s)	1.3	0.7	(s)	3.7	0.0	0.5	0.0	58.1	100.7	128.5	229.2
2005 2006	(s) 0.1	41.1 R 39.0	1.5	0.1	1.2	0.7	0.0	3.5	0.0	0.5 0.5	0.0	59.6 62.1	104.8 105.3	130.4 134.3	235.2 R 239.6
2006	(s)	43.5	1.7 2.8	(s) (s)	1.3 1.5	0.6 1.1	0.0 0.0	3.7 5.5	0.0 0.0	0.5 0.5	0.0 0.0	63.6	113.1	134.3	250.3
2001	(5)	43.3	2.0	(5)	1.0	1.1	0.0	5.5	0.0	0.5	0.0	03.0	113.1	131.2	200.3

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

ⁱ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oklahoma

Thousand Short Tons Cubic Peach Thousand Short Tons Cubic Peach Short Tons Cubic Peach						Petro	leum				Biomass		5.1			
Thousand Barrels		Coal	Natural Gas ^a		LPG b			Other ^d	Total	Hydro- electric Power ^{e,f}						
1965	Year					Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f		Net Energy ^{f,h}	Energy	Total f,h
1970 0 218 2,084 2,277 515 477 14,579 2,3018 0 4,888 1975 20 223 4,166 2,248 437 374 15,792 23,018 0 7,233 3 1980 264 244 3,705 6,683 359 702 15,044 26,485 0 9,785 1980 264 244 3,705 6,683 359 702 15,044 26,485 0 10,576 10,576 3,77 2,105 3,77 3,105 3,105 3	1960		128	1,193	1,511	1,383		10,522	15,626				2,561			
1975 20 223 4,166 2,248 437 374 15,792 23,018 0 7,233 1985 1990 264 246 3,705 6,683 359 702 15,047 26,495 0 9,795 1985 852 245 7,215 5,517 977 211 9,347 23,267 0 10,576 1985 14,55 275 2,873 2,138 1,183 328 11,051 17,574 0 11,764 1985 1,455 275 2,873 2,138 1,183 329 11,051 17,574 0 11,764 1986 738 2,74 3,388 2,138 1,183 329 11,051 17,574 0 12,166 12,166 1986 738 2,84 34 44 11,589 12,248 19,220 0 12,166 12,166 1986 738 2,84 3,462 2,826 1,296 20,211 1,1051 17,574 0 0 12,166 12,166 1986 738 2,84 3,462 2,826 1,296 20,111 1,1051 17,574 0 0 12,166 12,166 1987 2,172 1,1051 17,574	1965			1,203	1,704		346	12,926	16,990				3,563			
1980	1970		218	2,084	2,277	515	4//	14,571	19,924				4,888			
1985									26,010	•						
1990	1985	852	245	7 215		977		9 347	23,493	-			10.576			
1995	1990	557	307	3.592	1.693	834	484	11.589	18.192	•			11.764			
1996 738 274 3,388 2,117 1,216 259 12,246 19,226 0 12,160 1998 698 260 3,329 1,846 1,319 100 11,459 18,053 0 13,175 1998 719 236 2,921 6,454 686 111 10,980 21,152 0 13,271 10,000 714 231 3,341 2,751 671 237 10,884 17,884 0 13,271 10,000 714 231 3,341 2,751 671 237 10,884 17,884 0 13,395 2002 724 182 3,459 3,728 1,398 449 13,526 22,288 0 12,898 2002 724 182 3,459 3,728 1,398 449 13,526 22,561 0 12,898 2004 714 211 3,645 4,923 1,691 611 14,406 25,776 0 14,223 2005 727 10 3,449 8,532 1,590 221 14,608 28,400 0 14,223 2006 732 8,226 3,797 812,462 1,683 246 14,326 82,514 0 15,018 2006 732 8,226 3,797 812,462 1,683 246 14,326 82,514 0 15,018 15,018 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 15,018 19,006 732 82,006 732 82,007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 15,018 19,006 732 82,007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 15,018 19,000 7,000	1995	1.455	275	2.873	2.138	1.183		11.051	17.574	Ō			11.714			
1997 736 288 3,462 2,832 1,248 259 11,108 18,909 0 12,802 1998 698 260 3,329 1,846 686 111 10,980 21,152 0 13,1271 1999 719 236 2,921 6,454 686 111 10,980 21,152 0 13,271 2000 714 231 3,341 2,751 671 237 10,884 17,884 0 13,275 2001 724 188 3,769 2,320 1,268 342 14,530 22,228 0 13,356 2002 724 182 3,459 3,728 1,398 449 13,526 22,561 0 13,356 2003 702 209 3,657 2,538 1,442 478 13,469 21,584 0 14,223 2004 714 211 3,645 4,923 1,691 611 14,406 25,276 0 14,223 2005 727 210 3,449 8,532 1,590 221 14,608 28,400 0 15,198 2007 745 242 3,797 R12,462 1,683 246 14,326 R32,514 0 15,198 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 1960 0.6 132,5 7.0 6.1 7.3 6.4 64.4 91.0 0.0 0.8 0.0 8.7 233.8 21.6 1965 0.3 242,2 7.0 6.8 4.3 2.2 79.7 99.9 0.0 0.9 0.0 12,2 355.4 29.0 1970 0.0 225.3 12,1 8.6 2.7 3.0 90.0 116.5 0.0 0.7 0.0 16.7 359.1 40.4 1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 0.7 0.0 16.7 359.1 40.4 1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 33.4 49.4 80.6 1985 18.3 249.3 42.0 19.9 5.1 1.3 55.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1986 18.3 249.3 42.0 19.9 5.1 1.3 55.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1986 16.4 280.2 19.7 7.6 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 47.7 99.9 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.8 0.0 41.5 49.8 94.4	1996	738	274	3,388	2,117	1,216	259	12,246	19 226	0			12,160			
1999	1997	736		3,462		1,248			18,909	•			12,802			
2000 714 231 3,341 2,751 671 237 10,884 17,884 0 13,935 2001 724 188 3,459 3,228 1,388 449 13,526 22,581 0 12,898 2003 702 209 3,657 2,538 1,442 478 13,469 21,584 0 13,308 2004 714 211 3,645 4,923 1,681 611 14,406 25,276 0 13,208 2005 727 210 3,449 8,532 1,580 221 14,608 28,400 0 14,220 - 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,018 <	1998	698	260	3,329	1,846	1,319		11,459	18,053	•			13,175			
2001 724 188 3,769 2,320 1,268 342 14,530 22,228 0 13,356 2002 724 182 3,459 3,728 1,398 449 13,526 22,561 0 12,898 2003 702 209 3,657 2,538 1,442 478 13,469 21,584 0 13,308 2004 714 211 3,645 4,923 1,691 611 14,406 25,276 0 14,223 2005 727 210 3,449 8,532 1,590 221 14,608 28,400 0 14,223 2006 732 R 226 3,797 R12,462 1,683 246 14,326 R32,514 0 15,018 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 1960 0.6 132.5 7.0 6.1 7.3 6.4 64.4 91.0 0.0 0.8 0.0 8.7 233.8 21.6 1965 0.3 242.2 7.0 6.8 4.3 2.2 79.7 99.9 0.0 0.9 0.0 12.2 355.4 29.0 1970 0.0 225.3 12.1 8.6 2.7 3.0 90.0 116.5 0.0 0.7 0.0 12.2 355.4 29.0 1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 5.1 0.0 24.7 367.4 59.3 1980 5.6 246.4 21.6 24.6 1.9 4.4 33.2 145.7 0.0 8.3 0.0 33.4 439.4 80.6 1980 5.6 246.4 21.6 24.6 1.9 4.4 30.2 71.7 106.2 0.0 16.5 0.0 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 0.0 47.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 498.8 94.4 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 110.0 0.0 17.3 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 21.5 0.0 45.6 402.5 101.6 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 21.5 0.0 45.6 402.5 101.6 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 21.5 0.0 45.6 402			236	2,921					21,152	•			13,271			
2002 724 182 3,459 3,728 1,398 449 13,526 22,561 0 12,898 2004 714 211 3,645 4,923 1,691 611 14,406 25,276 0 14,923 2005 727 210 3,449 8,532 1,590 221 14,608 28,400 0 14,923 2006 732 826 3,797 812,462 1,683 246 14,326 832,514 0 15,018 15,018 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,018	2000	714	231	3,341	2,751		237	10,884	17,884	-			13,935			
2003 702 209 3,657 2,538 1,442 478 13,469 21,584 0 14,223 2004 714 211 3,645 4,923 1,691 611 14,406 25,276 0 14,223 2005 727 210 3,449 8,532 1,590 221 14,608 28,400 0 14,920 2006 732 R 226 3,797 R12,462 1,683 246 14,326 R 32,514 0 15,018 15,018 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,018		724	188				342	14,530	22,228				13,356			
2004 714 211 3,645 4,923 1,691 611 14,406 25,276 0 14,223 2006 727 210 3,449 8,532 1,590 221 14,608 28,400 0 14,920 14,920 2006 732	2002	724	182	3,459	3,728	1,398	449	13,526	22,561				12,898			
2005 727 210 3,449 8,532 1,590 221 14,608 28,400 0 15,018 2007 745 226 3,797 R12,462 1,683 246 14,326 R32,514 0 15,018 15,018 2007 745 242 4,112 777 1,269 130 15,406 21,694 0 15,198 15,018 15		702		3,037				13,409	21,304				13,300			
Trillion Btu 1960 0.6 132.5 7.0 6.1 7.3 6.4 64.4 91.0 0.0 0.8 0.0 8.7 233.8 21.6		714		3,043	4,923 8 532	1,091			28,270	•			14,223			
Trillion Btu 1960 0.6 132.5 7.0 6.1 7.3 6.4 64.4 91.0 0.0 0.8 0.0 8.7 233.8 21.6	2006	732	R 226	3 797	R 12 462	1,530			R 32 514				15,018			
1960 0.6 132.5 7.0 6.1 7.3 6.4 64.4 91.0 0.0 0.8 0.0 8.7 233.8 21.6 1965 0.3 242.2 7.0 6.8 4.3 2.2 79.7 99.9 0.0 0.9 0.0 12.2 355.4 29.0 1970 0.0 225.3 12.1 8.6 2.7 3.0 90.0 116.5 0.0 0.7 0.0 16.7 359.1 40.4 1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 0.7 0.0 16.7 359.1 40.4 1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 33.4 439.4 80.6 1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3		745		4,112	777	1,269			21,694							
1965 0.3 242.2 7.0 6.8 4.3 2.2 79.7 99.9 0.0 0.9 0.0 12.2 355.4 29.0 1970 0.0 225.3 12.1 8.6 2.7 3.0 90.0 116.5 0.0 0.7 0.0 16.7 359.1 40.4 1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 0.5 1.0 0.24.7 387.4 59.3 1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 33.4 439.4 80.6 1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.1 448.6								Tr	illion Btu							
1970 0.0 225.3 12.1 8.6 2.7 3.0 90.0 116.5 0.0 0.7 0.0 16.7 359.1 40.4 1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 5.1 0.0 24.7 387.4 59.3 1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 24.7 387.4 59.3 1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.1 488.6 92.8 1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2	1960		132.5		6.1	7.3	6.4				0.8			233.8		255.4
1975 0.5 221.7 24.3 8.4 2.3 2.4 98.3 135.6 0.0 5.1 0.0 24.7 387.4 59.3 1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 33.4 439.4 80.6 1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.1 488.6 92.8 1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.3</td> <td></td> <td></td> <td></td> <td></td> <td>0.9</td> <td>0.0</td> <td></td> <td>355.4</td> <td></td> <td>384.4</td>						4.3					0.9	0.0		355.4		384.4
1980 5.6 246.4 21.6 24.6 1.9 4.4 93.2 145.7 0.0 8.3 0.0 33.4 439.4 80.6 1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.0 488.6 92.8 1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 94.4 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.8 0.0 41.5 489.8	1970	0.0	225.3			2.7		90.0	116.5					359.1	40.4	399.5
1985 18.3 249.3 42.0 19.9 5.1 1.3 59.6 128.0 0.0 9.7 0.0 36.1 441.3 83.1 1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.1 488.6 92.8 1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 94.4 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.6 0.0 43.7 475.9 99.0 1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.	1975			24.3		2.3		98.3	135.6					387.4	59.3	446.8
1990 12.7 313.1 20.9 6.1 4.4 3.0 71.7 106.2 0.0 16.5 0.0 40.1 488.6 92.8 1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 94.4 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.6 0.0 43.7 475.9 99.0 1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 43					24.6											519.9
1995 33.0 278.9 16.7 7.7 6.2 2.1 68.2 100.9 0.0 17.3 0.0 40.0 470.2 90.8 1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 94.4 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.6 0.0 43.7 475.9 99.0 1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 433.0 103.6 2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6	1985		249.3	42.0	19.9	5.1			128.0					441.3	83.1	524.4 581.4
1996 16.4 280.2 19.7 7.6 6.3 1.6 74.5 109.9 0.0 21.8 0.0 41.5 469.8 94.4 1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.6 0.0 43.7 475.9 99.0 1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 433.0 103.6 2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 <td></td> <td>12.7</td> <td>279.0</td> <td>20.9 16.7</td> <td></td> <td></td> <td></td> <td></td> <td>100.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>560.9</td>		12.7	279.0	20.9 16.7					100.2							560.9
1997 15.4 289.9 20.2 10.2 6.5 1.6 66.8 105.4 0.0 21.6 0.0 43.7 475.9 99.0 1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 433.0 103.6 2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 2.8 83.3 127.0 0.0 17.2 0.0 45.4 419.2 100.2 2003 14.3 216.5 21.3 9.2 7.5 </td <td>1006</td> <td>33.0 16.4</td> <td>210.9</td> <td></td> <td></td> <td>6.2</td> <td></td> <td></td> <td>100.9</td> <td>0.0</td> <td>21.3</td> <td></td> <td></td> <td></td> <td>90.6</td> <td>564.2</td>	1006	33.0 16.4	210.9			6.2			100.9	0.0	21.3				90.6	564.2
1998 16.3 261.4 19.4 6.7 6.9 0.6 69.9 103.4 0.0 21.5 0.0 45.0 447.5 101.9 1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 433.0 103.6 2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 2.8 83.3 127.0 0.0 17.2 0.0 44.0 390.5 98.1 2003 14.3 216.5 21.3 9.2 7.5 3.0 82.3 123.4 0.0 19.6 0.0 45.4 419.2 100.2 2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4	1997	15.4	289.9	20.2	10.2	6.5		66.8	105.5							574.8
1999 16.8 240.6 17.0 23.3 3.6 0.7 66.4 111.0 0.0 19.4 0.0 45.3 433.0 103.6 2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 2.8 83.3 127.0 0.0 17.2 0.0 44.0 390.5 98.1 2003 14.3 216.5 21.3 9.2 7.5 3.0 82.3 123.4 0.0 19.6 0.0 45.4 419.2 100.2 2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4	1998	16.3	261.4	19.4	6.7	6.9	0.6		103.4	0.0	21.5			447.5	101.9	549.4
2000 14.2 233.1 19.5 9.9 3.5 1.5 66.1 100.4 0.0 20.5 0.0 47.5 415.7 108.1 2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 2.8 83.3 127.0 0.0 17.2 0.0 44.0 390.5 98.1 2003 14.3 216.5 21.3 9.2 7.5 3.0 82.3 123.4 0.0 19.6 0.0 45.4 419.2 100.2 2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4		16.8													103.6	536.6
2001 14.5 193.1 22.0 8.4 6.6 2.1 89.6 128.7 0.0 20.7 0.0 45.6 402.5 101.6 2002 14.6 187.7 20.1 13.5 7.3 2.8 83.3 127.0 0.0 17.2 0.0 44.0 390.5 98.1 2003 14.3 216.5 21.3 9.2 7.5 3.0 82.3 123.4 0.0 19.6 0.0 45.4 419.2 100.2 2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4	2000	14.2	233.1	19.5	9.9	3.5	1.5	66.1	100.4	0.0	20.5	0.0	47.5	415.7	108.1	523.9
2003 14.3 216.5 21.3 9.2 7.5 3.0 82.3 123.4 0.0 19.6 0.0 45.4 419.2 100.2 2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4	2001	14.5	193.1	22.0	8.4	6.6	2.1	89.6	128.7	0.0	20.7	0.0	45.6	402.5	101.6	504.1
2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4					13.5	7.3		83.3	127.0					390.5	98.1	488.6
2004 15.1 217.9 21.2 17.8 8.8 3.8 88.6 140.3 0.0 22.8 0.0 48.5 444.7 107.4	2003		216.5	21.3			3.0		123.4					419.2	100.2	519.4
									140.3							552.1
2005 15.4 219.5 20.1 30.9 8.3 1.4 89.6 150.2 0.0 22.8 0.0 50.9 458.8 111.3 2006 15.0 R 248.3 22.1 R 44.9 8.8 1.5 87.6 R 165.0 0.0 R 24.1 0.0 51.2 R 503.6 110.8 F		15.4	219.5	20.1	30.9	8.3			150.2		22.8			458.8		570.2 R 614.4
2006 15.0 R 248.3 22.1 R 44.9 8.8 1.5 87.6 R 165.0 0.0 R 24.1 0.0 51.2 R 503.6 110.8 F 2007 15.4 258.0 24.0 2.8 6.6 0.8 94.7 128.9 0.0 22.3 0.0 51.9 476.4 111.9		15.0 15.4	258.0	22.1 24.0	'` 44.9 2.8	8.8 6.6	1.5 0.8	94.7	128.9	0.0	22.3			476.4	110.8 111.9	588.3

^a Includes supplemental gaseous fuels.

but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

¹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. -- = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oklahoma

_	01	Matrinal					troleum					-			1
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	(s)	9	562	1,325	2,920	290	485	21,148	8	26,737	0	0			
1965	(s)	13	745	1,582	3,453	489	527	24,799	244	31,839	0	0			
1970 1975	0 (s)	23 24	448 309	3,351 4,809	4,378 3,916	516 474	457 537	31,776 37,768	75 42	41,000 47,854	0	0			
1980	(3)	23	328	8,030	4,900	235	777	38,974	0	53,244	0	0			
1985	Ö	25	217	10,611	5,870	133	707	40,855	Ö	58,394	46	Ö			
1990	0	26	146	11,227	7,832	97	796	37,790	0	57,888	0	0			
1995	0	31	154	13,501	5,359	59	759	41,161	0	60,994	0	0			
1996 1997	0	34 26	117 80	16,070 16,865	4,707 R 5,259	41 58	737 778	42,509 41,385	0	64,181 R 64,425	0	0			
1998	0	25 25	133	17,673	R 5,348	72	815	41,993	2	R 66,035	0	0			
1999	Ő	24	102	18,842	6,576	48	823	42,847	0	69,239	Ő	Ő			
2000	0	22	108	24,586	6,812	44	811	41,617	0	73,978	0	0			
2001	0	24	80	30,601	7,041	66	743	41,721	0	80,252	0	0			
2002	0	24	121	26,923	6,434	49	734	40,750	0	75,011	0	0			
2003 2004	0 0	31 31	106 133	25,832 18,787	6,240 6,898	68 51	679 688	41,841 43,518	0 0	74,766 70,075	0	0			
2004	0	32	64	24,296	5,964	63	684	43,421	0	74,492	R 999	0			
2006	0	32	262	27,818	5,661	64	667	41,869	ŏ	76,339	R 995	Ő			
2007	0	29	51	29,102	5,295	49	688	43,898	0	79,083	1,965	0			
								Trillion Btu							
1960	(s) (s)	9.3	2.8	7.7	15.7	1.2	2.9	111.1	0.1	141.4	0.0	0.0	150.8	0.0	150.8
1965		12.9	3.8	9.2	18.7	2.0	3.2	130.3	1.5	168.7	0.0	0.0	181.5	0.0	181.5
1970 1975	0.0 (s)	23.5 23.6	2.3 1.6	19.5 28.0	24.0 21.5	1.9 1.8	2.8 3.3	166.9 198.4	0.5 0.3	217.9 254.8	0.0 0.0	0.0 0.0	241.4 278.4	0.0 0.0	241.4 278.4
1980	0.0	22.8	1.0	46.8	26.9	0.9	3.3 4.7	204.7	0.0	285.6	0.0	0.0	308.4	0.0	308.4
1985	0.0	25.8	1.1	61.8	32.5	0.5	4.3	214.6	0.0	314.8	0.0	0.0	340.8	0.0	340.8
1990	0.0	26.6	0.7	65.4	43.8	0.4	4.8	198.5	0.0	313.6	0.0	0.0	340.2	0.0	340.2
1995	0.0	31.3	0.8	78.6	30.3	0.2	4.6	214.7	0.0	329.2	0.0	0.0	360.5	0.0	360.5
1996	0.0	34.6	0.6	93.6	26.7	0.1	4.5	221.7	0.0	347.2	0.0	0.0	381.8	0.0	381.8
1997	0.0 0.0	26.3 24.9	0.4	98.2	29.8	0.2	4.7	215.7	0.0	349.1 358.0	0.0	0.0 0.0	375.4	0.0	375.4
1998 1999	0.0	24.9 25.0	0.7 0.5	102.9 109.8	30.3 37.3	0.3 0.2	4.9 5.0	218.9 223.3	(s) 0.0	358.0 376.0	0.0 0.0	0.0	382.9 401.0	0.0 0.0	382.9 401.0
2000	0.0	21.9	0.5	143.2	38.6	0.2	4.9	216.8	0.0	404.3	0.0	0.0	426.1	0.0	426.1
2001	0.0	25.0	0.4	178.3	39.9	0.2	4.5	217.4	0.0	440.7	0.0	0.0	465.6	0.0	465.6
2002	0.0	24.9	0.6	156.8	36.5	0.2	4.5	212.2	0.0	410.8	0.0	0.0	435.7	0.0	435.7
2003	0.0	32.5	0.5	150.5	35.4	0.2	4.1	217.9	0.0	408.6	0.0	0.0	441.1	0.0	441.1
2004	0.0	32.5	0.7	109.4	39.1	0.2	4.2	226.9	0.0	380.5	0.0 R 2.5	0.0	413.1	0.0	413.1
2005 2006	0.0 0.0	33.1 R 34.6	0.3 1.3	141.5 162.0	33.8 32.1	0.2 0.2	4.1 4.0	226.6 218.5	0.0 0.0	406.6 418.2	R 3.5 R 3.5	0.0 0.0	439.7 R 452.8	0.0 0.0	439.7 R 452.8
2006 2007	0.0	30.5	0.3	162.0	30.0	0.2	4.0 4.2	218.5 229.1	0.0	433.3	7.0	0.0	463.8	0.0	463.8

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Oklahoma

				Petro	oleum		Needeen		Biomass				Plantalate	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousar	nd Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kil	owatthours		Total ^{f,i}
1960	(s)	83	33	26	0	59	0	705		0	0	0	0	
1965	1	127	28 64 29	22 51	0	50	0	825		0	0	0	0	
1970 1975	1 (s)	235 301	64	51 55	0	116 85	0	1,406 2,945		0	0	0	0	
1980	5,752	330	(s)	50 50	0	59	0	2,945 1,315		0	0	0	0	
1985	12 747	201	(s) 9	59 79 28	0	87	0	3,980		0	0	0	0	
1990	14,957	176	58	28	0	86	Ō	2,731		0	Ō	0	Ō	
1995	19,276	161	112	17	0	129	0	2,780		0	0	0	0	
1996	20,402	143	133	84	0	217	0	2,158		0	0	0	0	
1997 1998	21,151 20,013	135 181	10 0	20 18	0	30 18	0	2,921 3,509		0 0	0	0	0	
1999	19,567	177	(s)	24	0	24	0	3,175		0	0	0	0	
2000	20,708	176	0	24 77	Ő	24 77	0	2,277		ő	ő	Ő	Ö	
2001	20,500	174	1	257	0	258	0	2,345		0	0	0	0	
2002	21,365	195	2	18	0	20	0	1,988		0	0	0	0	
2003	21,580	197	35	153	0	188	0	1,798		0	0	_54	0	
2004 2005	20,294 21,952	200 242	11	31	0	42	0	2,977 2,630		0	0	573 848	(s)	
2005	21,952	242 279	(s)	23 46	0	25 46	0	2,630 624		0	0	1,712	(s) 0	
2007	20,547	287	(s) 190	59	Ö	249	0	3,066		0	ő	1,849	Ö	
							Trillion E	Btu						
1960	(s) (s)	85.7	0.2	0.2	0.0	0.4	0.0	7.6	0.0	0.0	0.0	0.0	0.0	93.7
1965	(s)	130.5	0.2	0.1	0.0	0.3	0.0	8.6	0.0	0.0	0.0	0.0	0.0	139.5
1970	(s) (s)	242.2	0.4	0.3	0.0	0.7	0.0	14.8	0.0	0.0	0.0	0.0	0.0	257.7
1975 1980	(s) 100.0	312.3 345.8	0.2	0.3 0.3	0.0 0.0	0.5 0.3	0.0 0.0	30.6 13.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	343.5 459.8
1985	218.8	209.5	(s) 0.1	0.5	0.0	0.5	0.0	41.6	0.0	0.0	0.0	0.0	0.0	470.4
1990	266.1	183.6	0.4	0.3	0.0	0.5	0.0	28.4	0.0	0.0	0.0	0.0	0.0	478.6
1995	336.6	166.3	0.7	0.1	0.0	0.8	0.0	28.7	0.0	0.0	0.0	0.0	0.0	532.4
1996	356.7	147.5	0.8	0.5	0.0	1.3	0.0	22.3	0.0	0.0	0.0	0.0	0.0	527.8
1997	372.0	139.8	0.1	0.1	0.0	0.2	0.0	29.8	0.0	0.0	0.0	0.0	0.0	541.8
1998	353.8	186.6	0.0	0.1	0.0	0.1	0.0	35.8	0.0	0.0	0.0	0.0	0.0	576.3
1999 2000	343.8 366.9	182.0 180.9	(s) 0.0	0.1 0.5	0.0 0.0	0.1 0.5	0.0 0.0	32.5 23.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	558.4 571.4
2000	361.6	179.2	0.0	1.5	0.0	1.5	0.0	23.2 24.2	0.0	0.0	0.0	0.0	0.0	5/1.4 566.6
2002	376.8	199.7	(s) (s) 0.2	0.1	0.0	0.1	0.0	20.2	0.0	0.0	0.0	0.0	0.0	596.8
2003	379.4	202.5	0.2	0.9	0.0	1.1	0.0	18.4	0.0	0.0	0.0	0.6	0.0	602.0
2004	357.0	206.0	0.1	0.2	0.0	0.3	0.0	29.8	0.0	0.0	0.0	5.7	(s)	598.8
2005	382.0	249.5	(s)	0.1	0.0	0.1	0.0	26.3	0.0	0.0	0.0	8.5	(s) 0.0	666.4
2006 2007	369.3 357.8	287.0 294.9	(s) 1.2	0.3 0.3	0.0	0.3 1.5	0.0 0.0	6.2 30.3	0.0 0.0	0.0 0.0	0.0	17.0 18.3	0.0 0.0	679.8 702.8
2006	369.3 357.8	287.0 294.9	(s) (s) 1.2	0.3	0.0	1.5	0.0	30.3	0.0	0.0	0.0	17.0	0.0	

^a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

 $-\stackrel{\circ}{-}$ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

⁹ Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

¹ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Oregon

						Petroleum				Marian	II. dec	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	381	31	10,966	384	1,164	16,361	5,562	3,430	37,866	0	12,466					
1965	305	56	13,085	812	961	19,838	5,115	4,521	44,332	0	16,508					
1970	140	95	12,904	2,086	1,251	24,958	6,632	5,071	52,903	0	29,912					
1975 1980	130 715	110 79	13,267 16,764	2,079 2,465	726 1,354	28,904 30,511	4,321 4,511	5,688 4,649	54,984 60,254	2 5,395	34,562 30,222					
1985	591	83	15,027	2,142	1,527	29,047	4,961	4,544	57,248	6,911	40,780					
1990	934	109	15,902	3,319	1,384	31,728	4,430	5,582	62,345	6,074	41,240					
1995	1,125	146	16,530	5,114	1,535	34,021	3,589	4,743	65,532	0	40,764					
1996	1,134	181	16,074	5,235 R 5,723	1,627	35,161	3,249	4,568	65,913	0	44,906					
1997 1998	918 2,074	185 229	16,641 16,005	R 5,866	898 773	33,594 36,360	3,449 3,871	4,565 6,916	R 64,870 R 69,790	0	46,704 39,902					
1999	2,074	235	17,426	6,437	1,179	36,512	2,581	7,292	71,426	0	45,639					
2000	2,241	225	18,519	6,277	1,320	35,989	1,468	5,646	69,219	0	38,116					
2001	2,490	230	17,413	5.217	1,009	36,157	1,360	3,859	65 016	0	28,645					
2002	2,205	202	17,762	R 5,175 R 5,589	1,307	36,898	1,758	4,740	R 67,640 R 65,607	0	34,413					
2003 2004	2,598 2,141	213 235	15,547 17,792	R 5,589 R 5,097	1,335 1,022	36,527 36,818	1,942 2,069	4,666 5,007	R 65,607 R 67,805	0	33,250 33,081					
2004	2,141	233	17,792	5,402	_ 1,022	37,488	2,069	5,062	60 268	0	30,948					
2006	1,539	223	18,586	5,764	R 1,092	37,956	2,069	5,050	69,268 R 70,518	0	37.850					
2007	2,667	252	18,847	5,630	1,066	37,956 37,810	2,539	4,088	69,980	0	37,850 33,587					
								Trillion Btu								
1960	8.9	31.9	63.9	2.1	4.7	85.9	35.0	21.1	212.7	0.0	134.1	56.4	0.0	26.8	0.0	470.8
1965 1970	7.1 3.0	60.0 99.6	76.2 75.2	4.5 11.8	3.9 4.7	104.2 131.1	32.2 41.7	28.0 31.3	249.0 295.7	0.0 0.0	172.6 313.9	57.8 57.4	0.0 0.0	46.1 -15.4	0.0	592.6 754.3
1975	2.7	114.2	77.3	11.7	2.7	151.8	27.2	35.9	306.6	(s)	359.7	57.7	0.0	27.5	(s)	868.3
1980	12.1	82.3	97.7	13.9	5.0	160.3	28.4	29.1	334.3	58.8	314.0	87.2	0.0	57.3	0.0	946.0
1985	10.0	85.5	87.5	12.1	5.5	152.6	31.2	28.9	317.8	73.4	426.0	103.6	0.0	-118.4	17.4	915.4
1990	15.7	111.7	92.6	18.8	5.0	166.7	27.9	35.3	346.2	64.3	429.0	57.7	0.7	-39.7	2.9	988.5
1995 1996	20.2 20.3	152.1 188.2	96.3 93.6	29.0 29.7	5.6 5.9	177.4 183.4	22.6 20.4	29.9 28.9	360.7 361.9	0.0 0.0	420.4 464.3	45.9 52.1	0.9 1.0	42.9 15.0	2.8 9.5	1,045.8 1,112.3
1990	16.4	193.8	96.9	_ 32.4	3.2	175.1	21.7	29.1	358.5	0.0	404.3	52.1	1.0	15.7	2.6	1,117.5
1998	36.1	239.3	93.2	R 33.3	2.8	189.5	24.3	43.9	R 387.1	0.0	406.9	46.1	1.3	17.3	2.0	R 1,136.2
1999	38.6	247.0	101.5	36.5	4.3	190.3	16.2	45.8	394.6	0.0	466.7	41.1	2.2	-29.8	1.1	1,161.5
2000	38.7	231.0	107.9	35.6	4.8	187.5	9.2	35.7	380.6	0.0	388.8	46.0	2.1	56.2	0.5	1,143.9
2001 2002	43.4 37.8	235.6 208.2	101.4 103.5	29.6 R 20.2	3.6 4.7	188.4 192.2	8.6 11.1	24.0 30.0	355.6 R 370.8	0.0 0.0	296.0 350.1	51.5 45.2	2.5	73.9	0.5 5.0	1,059.0 R 1,064.4
2002	37.8 44.9	208.2	90.6	R 29.3 R 31.7	4.7	192.2	11.1	30.0 29.7	R 359 2	0.0	340.5	R 41.7	5.4 6.2	41.9 R 23.0	0.9	R 1,064.4 R 1,035.7
2003	36.5	243.2	103.6	R 28.9	3.7	192.0	13.0	31.9	R 359.2 R 373.2	0.0	331.5	45.5	7.9	R 27.5	8.3	R 1,073.6
2005	35.6	240.7	104.0	30.6	4.6	195.6	13.7	32.3	380.9	0.0	309.5	R 43.0	9.2	R 55.3	0.3	R 1.074.5
2006	26.4	229.5	108.3	32.7	R 3.9	198.1	13.0	32.2	R 388.2	0.0	375.4	R 45.4	11.4	25.8	(s) 4.2	R 1,102.0
2007	45.3	258.2	109.8	31.9	3.8	197.3	16.0	25.9	384.7	0.0	332.0	47.1	14.8	21.8	4.2	1,108.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oregon

Thousand Sillion Thousand Barrels Thousand Geothermal Solar/PV	tem rgy	Electrical System Energy Losses 9	Energy d,f	Electricity Sales Million Kilowatthours 5,263 7,169 9,850 12,096 13,545 14,526 15,380 16,315 17,285 17,185 17,529	== == == == == ==	 	922 661 460 489 310 530 391	3,373 4,172 4,033 2,800 2,630	507 785 867 362	Thousand 1 5 65	2,865 3,382 3,101	Gas ^a Billion Cubic Feet 7 11	Thousand Short Tons	1960
Thousand Shift Thousand Cubic Feet Thousand Barrels Thousand Barrels Thousand Cords Ceothermal Solar/PV d.e Kilowatthours Energy d.f Percentage February d.f Percentage Pe	rgy	Energy Losses 9	Energy d,f	5,263 7,169 9,850 12,096 13,545 14,526 15,380 16,315 17,285 17,185 17,529	== == == == == ==	 	922 661 460 489 310 530 391	4,172 4,033 2,800 2,630	507 785 867 362	1 5 65	3,382 3.101	Cubic Feet 7 11	94 73	1960
1965 73			 	7,169 9,850 12,096 13,545 14,526 15,380 16,315 17,285 17,185 17,529	 	 	661 460 489 310 530 391	4,172 4,033 2,800 2,630	785 867 362	65	3,382 3.101	11	73	1960
1970		 	======================================	9,850 12,096 13,545 14,526 15,380 16,315 17,285 17,185 17,529	 	 	460 489 310 530 391	4,033 2,800 2,630	867 362	65	3.101	20	18	1965
1975		 	 	13,545 14,526 15,380 16,315 17,285 17,185 17,529	 	 	310 530 391	2.630	362	10				1970
1980		 	 	14,526 15,380 16,315 17,285 17,185 17,529	 	 	530 391	2.630		40	2,390	29		1975
1990 (s) 23 1,592 13 380 1,985 391 15,380 1995 (s) 28 1,276 26 488 1,790 495 16,315 1996 0 33 1,206 40 463 1,709 514 17,285 1997 (s) 33 1,072 34 393 1,499 438 17,185 1998 0 34 956 66 484 1,505 389 17,529 1999 (s) 39 1,089 81 544 1,714 410 18,058 2000 0 39 983 186 624 1,793 441 18,212 18,058 2001 0 38 1,053 173 694 1,920 703 17,503 17,503 2002 0 39 971 110 821 1,902 714 17,554 17,564 2004 0 39 760 93 394 1,247 770 17,554 17,766 2004 0 39 760 93 394 1,247 770 18,010 2005 0 40 623 76 802 1,501 R 388 18,010 2005 0 41 649 51 R 659 R 1,360 R 353 18,978 2007 0 43 558 8 637 1,203 389 18,978 19,374 1966 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 44.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8		 	 	15,380 16,315 17,285 17,185 17,529	 		391	-,	574		2,019	18	4	1980
1996 0 33 1,206 40 463 1,709 514 17,285 1997 (s) 33 1,072 34 393 1,499 438 17,185 1998 0 34 956 66 484 1,505 389 17,529 1999 (s) 39 1,089 81 544 1,714 410 18,058 2000 0 39 983 186 624 1,793 441 18,212 2001 0 38 1,053 173 694 1,920 703 17,554 2002 0 39 971 110 821 1,902 714 17,554 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 R 388 18,001 2006 0 41 649 51 R 659 R 1,360 R 353 18,339 2007 0 43 558 8 637 1,203 389 19,374 Trillion Btu 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 49.6 97.8		 	 	17,285 17,185 17,529			391	2,866			2,308		1	1985
1996 0 33 1,206 40 463 1,709 514 17,285 1997 (s) 33 1,072 34 393 1,499 438 17,185 1998 0 34 956 66 484 1,505 389 17,529 1999 (s) 39 1,089 81 544 1,714 410 18,058 2000 0 39 983 186 624 1,793 441 18,212 2001 0 38 1,053 173 694 1,920 703 17,554 2002 0 39 971 110 821 1,902 714 17,554 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 R 388 18,001 2006 0 41 649 51 R 659 R 1,360 R 353 18,339 2007 0 43 558 8 637 1,203 389 19,374 Trillion Btu 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 49.6 97.8		 	 	17,285 17,185 17,529			105	1,985	38U 488		1,592	23 28		1990
1997 (s) 33 1,072 34 393 1,499 438 17,185 1998 0 34 956 66 484 1,505 389 17,529 17,529 18,089 81 544 1,714 410 18,212 18,212 18,200		 	 	17,185 17,529			514	1,790	463	40	1,276	33	(3)	1996
1998 0 34 956 66 484 1,505 389 17,529 1999 (s) 39 1,089 81 544 1,714 410 18,058 2000 0 39 983 186 624 1,793 441 18,212 2001 0 38 1,053 173 694 1,920 703 17,503 2002 0 39 971 110 821 1,902 714 17,503 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 8388 18,339 2006 0 41 649 51 865 81,360 8353 18,398 2007 0 43 558 8 637 1,203 389 19,374 Trillion Btu Trillion Btu Trillion Btu Trillion Btu Trillion Btu Trillion Btu 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	 	 	 	17,529			438	1,499	393	34	1,072	33		1997
2002 0 39 971 110 821 1,902 714 17,554 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 8388 18,339 2006 0 41 649 51 8659 81,360 8353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	 			18 058			389	1,505	484	66	956	34	Ó	1998
2002 0 39 971 110 821 1,902 714 17,554 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 8388 18,339 2006 0 41 649 51 8659 81,360 8353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	 			10,000			410	1,714	544	81	1,089	39	(s)	1999
2002 0 39 971 110 821 1,902 714 17,554 2003 0 37 874 76 927 1,877 751 17,736 2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 8388 18,339 2006 0 41 649 51 8659 81,360 8353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	 			18,212			441	1,793	624	186	983	39		
2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 R 388 18,339 2006 0 41 649 51 R 659 R 1,360 R 353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 19,000 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				17,503			703 71 <i>1</i>	1,920	094 921	1/3	1,053	38		2001
2004 0 39 760 93 394 1,247 770 18,001 2005 0 40 623 76 802 1,501 R 388 18,339 2006 0 41 649 51 R 659 R 1,360 R 353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 19,000 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 49.6 97.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				17,334			751	1,902	927	76	874	37		2002
2006 0 41 649 51 8659 81,360 8353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				18.001			770	1.247	394	93	760	39	ŏ	2004
2006 0 41 649 51 8659 81,360 8353 18,978 2007 0 43 558 8 637 1,203 389 19,374 19,374 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				18,339			R 388	_ 1,501	_ 802	76	623	40	0	2005
Trillion Btu 1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				18,978			R 353	R 1,360	R 659		649			2006
1960 2.3 7.0 16.7 (s) 2.0 18.7 18.4 0.0 0.0 18.0 64.5 1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 33.6 85.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8				19,374			389	1,203	637	8	558	43	0	2007
1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8							illion Btu	Tr						
1965 1.8 11.6 19.7 (s) 3.2 22.9 13.2 0.0 0.0 24.5 74.0 1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	4.4 108.9	44.4	64.5	18.0	0.0	0.0	18.4	18.7	2.0	(s)	16.7	7.0	2.3	1960
1970 0.4 20.6 18.1 0.4 3.3 21.7 9.2 0.0 0.0 33.6 85.6 1975 0.1 29.9 13.9 0.3 1.3 15.5 9.8 0.0 0.0 41.3 96.6 1980 0.1 19.2 11.8 0.2 2.1 14.1 6.2 0.0 0.0 46.2 85.8 1985 (s) 22.1 13.4 0.2 1.9 15.5 10.6 0.0 0.0 49.6 97.8	8.4 132.4	58.4	74.0	24.5	0.0	0.0	13.2	22.9	3.2	(s)	19.7	11.6	1.8	1965
1980		81.3		33.6	0.0	0.0	9.2	21.7	3.3	0.4	18.1	20.6	0.4	1970
1980	9.3 195.8	99.3		41.3	0.0		9.8	15.5	1.3	0.3		29.9		1975
1900 (8) 22.1 15.4 0.2 1.9 15.0 10.0 0.0 0.0 49.0 97.0		111.4 114.1	85.8	46.2	0.0	0.0	6.2	14.1	2.1	0.2	11.8	19.2		1980
1990 (s) 23.9 9.3 0.1 1.4 10.7 7.8 0.1 0.3 52.5 95.3	1.3 216.7	121.3	97.8	49.0 52.5	0.0	0.0	10.0 7.0	10.0	1.9	0.2	13.4	22.1		1985
1995 (s) 29.3 7.4 0.1 1.8 9.3 9.9 0.1 0.5 55.7 104.9	6.4 231.3	126.4	104 9	52.5 55.7	0.5	0.1	9.0	93	1.4	0.1	7.4	20.9		1990
1995 (s) 29.3 7.4 0.1 1.8 9.3 9.9 0.1 0.5 55.7 104.9 1996 0.0 34.7 7.0 0.2 1.7 8.9 10.3 0.1 0.6 59.0 113.6	4.1 247.7	134.1	113.6	59.0	0.6	0.1	10.3	8.9	1.7	0.1	7.0	34.7	0.0	1996
1997 (s) 34.2 6.2 0.2 1.4 7.9 8.8 0.1 0.6 58.6 110.2	2.8 243.0	132.8	110.2	58.6	0.6		8.8	7.9	1.4	0.2	6.2	34.2	(s)	1997
1998 0.0 36.1 5.6 0.4 1.7 7.7 7.8 0.1 0.6 59.8 112.2	5.6 247.8	135.6	112.2	59.8	0.6	0.1	7.8	7.7	1.7	0.4	5.6	36.1	Ò.Ó	1998
1999 (s) 40.9 6.3 0.5 2.0 8.8 8.2 0.2 0.7 61.6 120.4		140.9						8.8			6.3	40.9	(s)	
2000 0.0 39.9 5.7 1.1 2.3 9.0 8.8 0.3 0.7 62.1 120.8	1.3 262.2	141.3		62.1	0.7	0.3	8.8	9.0	2.3		5.7	39.9	0.0	2000
2001 0.0 39.4 6.1 1.0 2.5 9.6 14.1 0.3 0.7 59.7 123.8 2002 0.0 40.2 5.7 0.6 3.0 9.2 14.3 0.3 0.7 59.9 124.6	3.1 256.8	133.1		59.7	0.7	0.3	14.1	9.6	2.5	1.0	6.1	39.4	0.0	2001
2002 0.0 40.2 5.7 0.6 3.0 9.2 14.3 0.3 0.7 59.9 124.6 2003 0.0 38.7 5.1 0.4 3.4 8.9 15.0 0.3 0.8 60.5 124.1	3.5 258.1 3.5 257.6	133.5 133.5		59.9 60.5	0.7 0.8	0.3	14.3 15.0	9.2	3.0	0.0	5./ 5.1	40.2 38.7	0.0	2002
2004 0.0 40.2 4.4 0.5 1.4 6.4 15.4 0.3 0.8 61.4 124.5	5.9 260.4	135.9		61.4	0.6 0.8	0.3	15.0	6.4	1.4	0.4	4.4	40 2	0.0	2003
2005 0.0 41.6 3.6 0.4 2.9 7.0 87.8 0.3 0.9 62.6 8120.0	8 9 R 256 9	136.9	R 120.0		0.9	0.3	R 7.8	7.0	2.9		3.6	41.6	0.0	2005
2006 0.0 42.5 3.8 0.3 ^R 2.4 ^R 6.4 ^R 7.1 0.3 1.1 64.8 ^R 122.1	U.U 200.3	140.0	R 122.1	64.8	1.1	0.3	R 7.1	R 6.4	R 2.4	0.3	3.8	42.5	0.0	2006
2007 0.0 43.7 3.2 (s) 2.3 5.6 7.8 0.3 1.4 66.1 124.9	0.0 R 262.1	142.6	124.9	66.1	1.4	0.3	7.8	5.6	2.3	(s)	3.2	43.7	0.0	2007

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oregon

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	66	3	1,485	(c)	89	139	991	2,704	0			3,083			
1965	55	6	1,752	(s) 4	139	206	1,046	3.147	0			4,557			
1970	14	11	1,607	46	153	249	1,326	3,382	0			6,674			
1975	10	16	1,238	34	64	218	962	2.517	0			8,804			
1980	13	15	1,792	37	101	291	876	3,098	0			10,456			
1985	2	19	1,345	26	91	231	191	1,884	0			10,340			
1990 1995	2	20 22	1,192 1,061	8 14	67 86	272	283 87	1,823 1,281	0			12,091 13,558			
1995	0	26	911	38	82	33 33	83	1,145	0			14,085			
1997	1	25	951	22	69	30	48	1,121	0			14,477			
1998	Ö	26	994	63	85	30	72	1,244	Õ			14,724			
1999	(s)	29	834	31	96	30	48	1,038	0			15,347			
2000	0	29	994	28	110	29	61	1,223	0			15,730			
2001	0	28	1,204	73	122	31	50	1,480	0			15,263			
2002	0	28	1,027	46	145	31	64	1,313	0			15,370			
2003 2004	0	26	514 592	23	164 70	31	53	784 792	0			15,483			
2004	0	26 28	592 516	45 61	142	31 32	55 49	792 799	0			15,667 15,380			
2005	0	28	477	42	R 116	64	49	R 738	0			16,083			
2007	ő	29	471	13	112	32	32	661	Ő			16,187			
								Trillion Btu							
1960	1.6	3.2	8.6	(s)	0.4	0.7	6.2	16.0	0.0	0.3	0.0	10.5	31.7	26.0	57.7
1965	1.4	6.0	10.2	(s) 0.3	0.6	1.1	6.6	18.4	0.0	0.3	0.0	15.5	41.6	37.1	78.7
1970	0.3	11.9	9.4	0.3	0.6	1.3	8.3	19.8	0.0	0.2	0.0	22.8	55.0	55.1	110.1
1975 1980	0.2 0.3	16.5 15.9	7.2	0.2 0.2	0.2 0.4	1.1 1.5	6.0 5.5	14.8 18.1	0.0 0.0	0.2 0.2	0.0 0.0	30.0 35.7	61.8	72.2 86.0	134.0 156.1
1985	0.3	19.6	10.4 7.8	0.2	0.4	1.2	1.2	10.7	0.0	0.2	0.0	35.7 35.3	70.1 65.9	81.3	147.2
1990	(s)	20.9	6.9	(s)	0.3	1.4	1.8	10.7	0.0	2.0	0.0	41.3	74.9	95.4	170.3
1995	(s)	23.4	6.2	0.1	0.3	0.2	0.5	7.3	0.0	1.4	0.2	46.3	78.6	105.1	183.6
1996	Ô.Ó	26.7	5.3	0.2	0.3	0.2	0.5	6.5	0.0	1.4	0.3	48.1	82.9	109.3	192.2
1997	(s) 0.0	26.8	5.5	0.1	0.3	0.2	0.3	6.4	0.0	1.5	0.2	49.4	84.3	111.9	196.2
1998		27.3	5.8	0.4	0.3	0.2	0.4	7.1	0.0	1.3	0.3	50.2	86.2	113.9	200.1
1999	(s)	30.2	4.9	0.2	0.3	0.2	0.3	5.8	0.0	1.3	0.3	52.4	90.1	119.8	209.9
2000	0.0	29.5	5.8	0.2	0.4	0.2	0.4	6.9	0.0	1.4	0.4	53.7	91.8	122.1	213.9
2001	0.0	28.7	7.0	0.4	0.4	0.2	0.3	8.3	0.0	2.5	0.4 0.4	52.1	92.0	116.1	208.1
2002 2003	0.0 0.0	28.7 27.1	6.0 3.0	0.3 0.1	0.5 0.6	0.2 0.2	0.4 0.3	7.3 4.2	0.0 0.0	2.5 2.6	0.4 0.5	52.4 52.8	91.4 87.2	116.9 116.6	208.3 203.8
2003	0.0	27.1	3.0	0.1	0.0 0.3	0.2	0.3	4.2	0.0		0.5	53.5	88.4	118.3	R 203.0
2004	0.0	28.8	3.0	0.3	0.3 0.5	0.2	0.3	13	0.0	2.6 R 1.2	0.6	52.5	R 87 5	114.8	R 206.7 R 202.2
2006	0.0	28.8	2.8	0.3	0.4	0.3	0.2	R 4.0	0.0	R 1.1	0.5	54.9	R 89.4	118.7	R 208.0
2007	0.0	29.6	2.7	0.1	0.4	0.2	0.2	3.6	0.0	1.4	0.5	55.2	90.3	119.2	209.4

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oregon

Coal Gas Distillate Fuel Oil Lip G Distillate Fuel Oil Other d Total Power oil Fuel Oil Other d Total Power oil Other d Total Ot						Petro	leum				Biomass					
Thousand Short For Cubic Feet Thousand Barrels Short For With Wood and Geo-thermal With Wood and With Waste Million With Chargy Losses Total In		Coal			LPG b			Other d	Total							
1970 109 58 3.413 212 722 4.217 4,168 12,733 77 9,123 9,121 1975 116 57 2,827 287 560 2,922 4,945 11,541 40 12,402 1,960 213 39 3,992 614 417 2,528 3,785 11,337 28 11,847 1,960 213 39 3,992 614 417 2,528 3,785 11,337 28 11,081 1,961 1,961 1,975 1,985 1	Year					Thousand	d Barrels							Net Energy ^{f,h}	Energy	Total f,h
1970 109 58 3,413 212 722 4,217 4,168 12,733 779,1239,121 1975 116 57 2,827 287 560 2,922 4,945 11,541 4012,4021,900 213 39 3,992 614 417 2,528 3,785 11,337 281 13,847 1,900 213 39 3,992 614 417 2,528 3,785 11,337 28 11,048	1960	217	20	3.723	558	1.080	3.411	2.473	11.244	77			5.247			
1970 109 58 3,413 212 722 4,217 4,168 12,733 779,1239,121 1975 116 57 2,827 287 560 2,922 4,945 11,541 4012,4021,900 213 39 3,992 614 417 2,528 3,785 11,337 281 13,847 1,900 213 39 3,992 614 417 2,528 3,785 11,337 28 11,048	1965	175	39	4,287	33	808	3,398	3,831	12,358				7,167			
1980	1970		58	3,413	212	722			12.733							
1985			57	2,827	287		2,922	4,945	11,541							
1990									11,337							
1996	1985		38	2,475	728	482	1,679		9,219							
1996 90 88 2,553 983 565 134 3,796 8,032 0 17,029 1997 95 90 2,813 370 584 166 3,802 7,735 0 14,640 1998 37 103 2,633 203 692 139 6,082 9,749 0 14,640 2000 0 76 3,602 523 403 138 4,740 9,407 0 16,353 2000 0 76 3,602 523 403 138 4,740 9,407 0 16,353 2001 0 70 3,020 172 807 134 2,881 7,013 0 13,084 2002 50 71 2,949 318 861 474 3,929 8,530 0 12,296 2003 65 68 1,944 159 879 366 3,97 7,318 0 11,961 2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,961 2005 9 70 1,849 817 3,1018 468 4,299 8,181 0 12,296 2006 90 70 1,859 8173 1,018 468 4,299 8,181 0 12,991 2007 90 69 1,675 213 868 328 3,366 6,481 0 13,117 1960 4.9 20.9 21.7 2.2 5.7 21.4 16.0 67.0 0.8 37.3 0.0 17.9 148.9 44.3 193.2 1965 3.9 41.5 25.0 0.1 4.2 21.4 24.1 74.8 0.6 44.1 0.0 24.5 189.5 58.4 247.9 1977 2.3 60.3 19.9 0.8 3.8 26.5 26.5 26.7 71.1 0.8 47.6 0.0 31.1 12.9 27.5 29.8 1985 3.0 3.0 3.0 44.4 2.6 2.5 10.6 24.5 24.8 31.6 27.4 0.4 47.8 0.0 42.3 22.2 101.8 324.7 1986 3.9 3.8 41.5 25.0 0.1 4.2 21.4 24.1 74.8 0.6 44.1 0.0 24.5 189.5 58.4 247.9 1987 2.3 50.8 16.5 1.1 2.9 18.9 18.9 31.2 53.8 0.0 32.7 0.0 47.8 23.9 18.9 32.7 1988 3.0 3.0 3.0 44.4 2.6 2.5 10.6 24.8 31.2 53.8 0.0 32.7 0.0 47.8 22.2 101.8 324.7 1989 3.8 41.5 23.0 20.7 31.6 2.9 20.8 31.2 33.8				2,537					9,060							
1997 95 90 2,813 370 584 166 3,802 7,735 0 16,880 1999 37 103 2,633 203 692 139 6,062 9,749 0 14,640 1999 0 108 2,719 516 396 144 6,458 10,233 0 14,106 2000 0 76 3,602 523 403 138 4,740 9,407 0 13,084 2001 0 70 3,020 172 807 134 2,881 7,013 0 13,084 2002 50 71 2,949 318 861 474 3,929 8,530 0 13,084 2003 65 68 1,944 159 879 366 3,970 7,318 0 11,961 2005 9 70 1,844 163 988 266 4,314 7,586 0 12,884 2006 9 70 1,854 163 988 266 4,314 8,317 0 0 12,884 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2,997 2,997 2,997 2,997	1995	90	88	2,553	083	565		3 706	8,207							
1998 37 103 2,633 203 692 139 6,082 9,749 0 14,640 1999 0 108 2,719 516 396 144 6,488 10,233 0 14,106 2000 0 76 3,602 523 403 138 4,740 9,407 0 16,353 2001 0 70 3,020 172 807 134 2,881 7,013 0 13,084 2002 50 71 2,949 318 861 474 3,929 8,530 0 11,961 2003 65 68 1,944 159 879 366 3,970 7,318 0 11,961 2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,964 2005 9 70 1,849 713 1,018 488 4,299 7,817 0 12,991 2006 90 70 1,859 713 1,018 488 4,299 7,817 0 12,991 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 1960 4.9 20.9 21.7 2.2 5.7 21.4 16.0 67.0 0.8 37.3 0.0 17.9 148.9 44.3 193.2 1965 3.9 41.5 25.0 0.1 4.2 21.4 24.1 74.8 0.6 44.1 0.0 24.5 189.5 58.4 247.9 1977 2.3 60.3 19.9 0.8 3.8 26.5 26.2 77.1 0.8 47.6 0.0 31.1 219.2 75.3 294.6 1978 2.4 59.6 16.5 1.1 2.9 18.4 31.6 70.4 0.4 47.8 0.0 42.3 22.2 10.18 324.7 1980 3.3 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 10.18 324.7 1980 3.3 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 10.18 324.7 1980 3.1 3.0 44.4 2.6 2.2 10.6 24.2 67.8 0.3 79.2 0.0 47.2 239.2 10.18 324.7 1980 3.1 3.0 44.4 2.7 2.2 2.5 10.6 24.2 67.8 0.3 79.2 0.0 47.2 239.2 10.18 324.7 1980 3.1 3.0 4.4 4.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 56.1 23.2 10.3 324.7 1980 3.1 3.0 4.4 4.9 3.6 2.9 2.8 44.4 4.7 0.0 33.7 0.1 57.6		95		2,333	370	584			7 735							
9999 0 108 2,719 516 396 144 6,488 10,233 0 14,106		37				692			9 749	•			14 640			
2000 0 76 3,602 523 403 138 4,740 9,407 0 16,353 2002 50 71 2,949 318 861 474 3,929 8,530 0 11,296 2003 65 68 1,944 159 879 366 3,970 7,318 0 11,954 2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,954 2006 90 70 1,844 163 968 266 4,314 7,556 0 11,954 12,991 2006 90 70 1,842 486 4,299 7,8117 0 1	1999			2,719					10.233				14.106			
2002 50 71 2,949 318 861 474 3,929 8,530 0 12,296 2004 65 68 1,944 159 879 366 3,970 7,318 0 11,961 2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,964 2006 9 70 1,844 163 968 266 4,314 7,556 0 12,684 2006 90 70 1,859 8173 1,018 468 4,299 87,817 0 12,891 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117	2000	0		3,602	523	403		4,740	9,407	0			16,353			
2003 65 68 1,944 159 879 366 3,970 7,318 0 11,961 2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,961 12,005 9 70 1,844 163 968 266 4,314 7,556 0 12,084 2006 90 70 1,859 8173 1,018 468 4,299 87,817 0 12,091 13,117 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 13,11	2001			3,020			134	2,881	7,013	0						
2004 64 72 2,217 477 1,041 302 4,274 8,311 0 11,954 2005 9 70 1,844 163 968 266 4,314 7,556 0 12,684 2006 90 70 1,859 R173 1,018 468 4,299 R7,817 0 12,991 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 80 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 80 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 80 69 1,675 213 868 328 3,396 6,481 0 13,117																
2005 9 70 1,844 163 968 266 4,314 7,556 0 12,684 2007 90 69 1,675 213 868 328 3,396 6,481 0 12,991 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117 2007 90 69 1,675 213 868 328 3,396 6,481 0 13,117		65	68	1,944	159			3,970	7,318				11,961			
Trillion Btu Tril	2004		72		477	1,041	302	4,274	8,311				11,954			
Trillion Btu Tril	2005	9	70	1,844	163 R 470	968	266	4,314	7,556 R 7,047				12,684			
1960	2006	90	69	1,675	213	868	328	3,396	6,481				13,117			
1965 3.9 41.5 25.0 0.1 4.2 21.4 24.1 74.8 0.6 44.1 0.0 24.5 189.5 58.4 247.9 1970 2.3 60.3 19.9 0.8 3.8 26.5 26.2 77.1 0.8 47.6 0.0 31.1 219.2 75.3 294.6 1975 2.4 59.6 16.5 1.1 2.9 18.4 31.6 70.4 0.4 47.8 0.0 42.3 222.9 101.8 324.7 1980 3.8 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 113.9 353.1 1985 3.0 39.0 14.4 2.6 2.5 10.6 24.9 55.0 0.3 92.7 0.0 37.8 227.9 87.1 315.0 1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 199.0								Tri	illion Btu							
1965 3.9 41.5 25.0 0.1 4.2 21.4 24.1 74.8 0.6 44.1 0.0 24.5 189.5 58.4 247.9 1970 2.3 60.3 19.9 0.8 3.8 26.5 26.2 77.1 0.8 47.6 0.0 31.1 219.2 75.3 294.6 1975 2.4 59.6 16.5 1.1 2.9 18.4 31.6 70.4 0.4 47.8 0.0 42.3 222.9 101.8 324.7 1980 3.8 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 113.9 353.1 1985 3.0 39.0 14.4 2.6 2.5 10.6 24.9 55.0 0.3 92.7 0.0 37.8 227.9 87.1 315.0 1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 <	1960	4.9	20.9	21.7	2.2	5.7	21.4	16.0	67.0	0.8	37.3	0.0	17.9	148.9	44.3	193.2
1975 2.4 59.6 16.5 1.1 2.9 18.4 31.6 70.4 0.4 47.8 0.0 42.3 222.9 101.8 324.7 1980 3.8 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 113.9 353.1 1985 3.0 39.0 14.4 2.6 2.5 10.6 24.9 55.0 0.3 92.7 0.0 37.8 227.9 87.1 315.0 1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 1995 2.8 72.0 20.7 3.1 2.7 2.0 25.8 54.3 0.0 27.5 0.1 54.0 210.7 122.7 333.5 1996 1.9 91.6 14.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 58.1 232.1 132.1 364.2 <		3.9			0.1	4.2										
1980 3.8 41.0 23.3 2.3 2.2 15.9 24.2 67.8 0.3 79.2 0.0 47.2 239.2 113.9 353.1 1985 3.0 39.0 14.4 2.6 2.5 10.6 24.9 55.0 0.3 92.7 0.0 37.8 227.9 87.1 315.0 1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 1995 2.8 72.0 20.7 3.1 2.7 2.0 25.8 54.3 0.0 27.5 0.1 54.0 210.7 122.7 333.5 1996 1.9 91.6 14.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 58.1 232.1 132.1 364.2 1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 57.6 236.8 130.5 367.2 <t< td=""><td></td><td>2.3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>294.6</td></t<>		2.3														294.6
1985 3.0 39.0 14.4 2.6 2.5 10.6 24.9 55.0 0.3 92.7 0.0 37.8 227.9 87.1 315.0 1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 1995 2.8 72.0 20.7 3.1 2.7 2.0 25.8 54.3 0.0 27.5 0.1 54.0 210.7 122.7 333.5 1996 1.9 91.6 14.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 58.1 232.1 132.1 364.2 1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 58.1 232.1 132.1 364.2 1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 57.6 236.8 130.5 367.2 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 30.1 0.1 50.2 <td< td=""><td></td><td>2.4</td><td></td><td></td><td></td><td>2.9</td><td></td><td></td><td></td><td>0.4</td><td></td><td></td><td>42.3</td><td></td><td></td><td>324.7</td></td<>		2.4				2.9				0.4			42.3			324.7
1990 1.4 50.1 14.8 2.7 2.2 2.8 31.2 53.8 0.0 40.8 0.1 52.9 199.0 122.3 321.3 1995 2.8 72.0 20.7 3.1 2.7 2.0 25.8 54.3 0.0 27.5 0.1 54.0 210.7 122.7 333.5 1996 1.9 91.6 14.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 54.0 210.7 122.7 336.2 1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 57.6 236.8 130.5 367.2 1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 50.0 248.4 113.3 361.7 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.1 250.7 110.1 360.8 <	1980	3.8	41.0	23.3	2.3	2.2				0.3	79.2		47.2	239.2	113.9	353.1
1995 2.8 72.0 20.7 3.1 2.7 2.0 25.8 54.3 0.0 27.5 0.1 54.0 210.7 122.7 333.5 1996 1.9 91.6 14.9 3.6 2.9 0.8 24.4 46.7 0.0 33.7 0.1 58.1 232.1 132.1 364.2 1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 57.6 236.8 130.5 367.2 1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 50.0 248.4 113.3 361.7 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.1 250.7 110.1 360.8 2000 0.0 78.7 21.0 1.9 2.1 0.9 41.0 61.6	1985					2.5					92.7					315.0
1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 57.6 236.8 130.5 367.2 1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 50.0 248.4 113.3 361.7 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.4 250.7 110.1 360.8 2000 0.0 78.7 21.0 1.9 2.1 0.9 30.4 56.3 0.0 29.6 0.1 55.8 220.5 126.9 347.4 2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>2.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>321.3</td></td<>						2.2										321.3
1997 1.9 95.0 16.4 1.3 3.0 1.0 24.6 46.4 0.0 35.7 0.1 57.6 236.8 130.5 367.2 1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 50.0 248.4 113.3 361.7 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.4 250.7 110.1 360.8 2000 0.0 78.7 21.0 1.9 2.1 0.9 30.4 56.3 0.0 29.6 0.1 55.8 220.5 126.9 347.4 2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 <td< td=""><td>1995</td><td>2.0</td><td>72.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>27.3</td><td></td><td></td><td></td><td>122.7</td><td>333.3</td></td<>	1995	2.0	72.0								27.3				122.7	333.3
1998 0.8 107.9 15.3 0.7 3.6 0.9 39.1 59.6 0.0 30.1 0.1 50.0 248.4 113.3 361.7 1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.1 250.7 110.1 360.8 2000 0.0 78.7 21.0 1.9 2.1 0.9 30.4 56.3 0.0 29.6 0.1 55.8 220.5 126.9 347.4 2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 2003 1.5 70.0 11.3 0.6 4.6 2.3 25.7 44.4 0.0 18.2 0.1 40.8 175.1 90.1 265.1	1990	1.9			1.0	2.9	1.0				35.7		57.6		130.1	367.2
1999 0.0 114.5 15.8 1.9 2.1 0.9 41.0 61.6 0.0 26.3 0.1 48.1 250.7 110.1 360.8 2000 0.0 78.7 21.0 1.9 2.1 0.9 30.4 56.3 0.0 29.6 0.1 55.8 220.5 126.9 347.4 2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 2003 1.5 70.0 11.3 0.6 4.6 2.3 25.7 44.4 0.0 18.2 0.1 40.8 175.1 90.1 265.1 2004 1.4 74.9 12.9 1.7 5.4 1.9 27.7 49.6 0.0 26.2 0.2 43.3 189.3 94.7 284.0 2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.																361.7
2000 0.0 78.7 21.0 1.9 2.1 0.9 30.4 56.3 0.0 29.6 0.1 55.8 220.5 126.9 347.4 2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 2003 1.5 70.0 11.3 0.6 4.6 2.3 25.7 44.4 0.0 18.2 0.1 40.8 175.1 90.1 265.1 2004 1.4 74.9 12.9 1.7 5.4 1.9 27.7 49.6 0.0 26.2 0.2 40.8 193.0 90.2 283.3 2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0	1999	0.0		15.8			0.9			0.0	26.3			250.7	110.1	360.8
2001 0.0 71.9 17.6 0.6 4.2 0.8 18.4 41.7 0.0 29.5 0.2 44.6 187.9 99.5 287.4 2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 2003 1.5 70.0 11.3 0.6 4.6 2.3 25.7 44.4 0.0 18.2 0.1 40.8 175.1 90.1 265.1 2004 1.4 74.9 12.9 1.7 5.4 1.9 27.7 49.6 0.0 26.2 0.2 40.8 193.0 90.2 283.3 2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0	2000	0.0		21.0			0.9				29.6				126.9	347.4
2002 1.1 73.0 17.2 1.1 4.5 3.0 25.3 51.1 0.0 24.1 0.2 42.0 191.5 93.5 285.0 2003 1.5 70.0 11.3 0.6 4.6 2.3 25.7 44.4 0.0 18.2 0.1 40.8 175.1 90.1 265.1 2004 1.4 74.9 12.9 1.7 5.4 1.9 27.7 49.6 0.0 26.2 0.2 40.8 193.0 90.2 283.3 2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0	2001	0.0	71.9	17.6	0.6	4.2	8.0	18.4	41.7	0.0	29.5	0.2	44.6	187.9	99.5	287.4
2004 1.4 74.9 12.9 1.7 5.4 1.9 27.7 49.6 0.0 26.2 0.2 40.8 193.0 90.2 283.3 2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0	2002			17.2		4.5	3.0				24.1				93.5	285.0
2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0	2003										18.2					265.1
2005 0.2 72.7 10.7 0.6 5.1 1.7 28.0 46.0 0.0 26.9 0.2 43.3 189.3 94.7 284.0 2006 2.2 72.5 10.8 R 0.6 5.3 2.9 27.9 R 47.6 0.0 R 29.8 0.2 44.3 R 196.6 95.8 R 292.5 2007 2.2 70.2 9.8 0.8 4.5 2.1 21.9 39.0 0.0 31.2 0.2 44.8 187.6 96.6 284.2		1.4	74.9						49.6		26.2	0.2		193.0	90.2	283.3
2006 2.2 72.5 10.8 °0.6 5.3 2.9 27.9 °47.6 0.0 °29.8 0.2 44.3 °196.6 95.8 °292.5 2007 2.2 70.2 9.8 0.8 4.5 2.1 21.9 39.0 0.0 31.2 0.2 44.8 187.6 96.6 284.2		0.2	72.7		_ 0.6	5.1			₂ 46.0	0.0	26.9	0.2	43.3	189.3	94.7	284.0
		2.2 2.2	72.5 70.2	10.8 9.8					39.0		31.2	0.2 0.2	44.3 44.8	196.6 187.6		284.2

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Oregon

						Pe	troleum					D			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	4	(s)	655	2,893	384	10	301	15,142	1,157	20,542	0	0			
1965	1	1	277	3,664	812	4	404	18,824	670	24,654	0	0			
1970	(s)	6	305	4,782	2,086	18	487	23,987	1,070	32,736	0	0			
1975 1980	(s) 0	8 6	171 260	6,783 8,851	2,079 2,465	13 65	490 530	28,125 29,803	438 1,107	38,098 43,080	0	0			
1985	0	5	141	8,895	2,403	191	482	28,335	3,091	43,277	(s)	0			
1990	ő	9	121	10,526	3,319	183	542	31,030	3,700	49,421	0	9			
1995	0	7	143	10,625	5,114	110	518	33,476	3,178	53,163	0	14			
1996	0	8	191	11,394	5,235	99 66	502	34,562	3,033	55 017	0	11			
1997	0	13	176	11,781	R 5,723		531	32,980	3,235	R 54,491 R 57,234	0	11			
1998 1999	0	13 10	150 160	11,363 12,769	R 5,866 6,437	1 23	555 561	35,638 36,085	3,660 2.389	1\57,234 58.426	346 296	14 33			
2000	0	12	139	12,709	6,277	63	553	35,557	1,268	56,692	331	35			
2001	Ŏ	11	226	11,954	5.217	21	507	35,320	1,176	54,421	427	34			
2002	0	9	155	12,801	R 5 175	23	501	36,006	1,220	K 55 881	814	36			
2003	0	.7	136	12,114	R 5,589	85	463	35,617	1,524	R 55,528	619	49			
2004	0	10	127	14,183	R 5,097	82	469	35,747	1,712	R 57,416	650	54			
2005 2006	0	7 8	144 204	14,777 15,590	5,402 5,764	172 144	466 454	36,488 36,873	1,871 1,562	59,319 60,592	R 1,103 R 1,236	55 61			
2007	0	10	204	16,134	5,630	104	469	36,910	2,179	61,627	1,571	62			
				-, -	-,			Trillion Btu	, -		,-				
1960	0.1	0.1	3.3	16.9	2.1	(s)	1.8	79.5	7.3	111.0	0.0	0.0	111.1	0.0	111.1
1965	(s)	0.7	1.4	21.3	4.5	(s)	2.4	98.9	4.2	132.8	0.0	0.0	133.6	0.0	133.6
1970	(s)	5.8	1.5	27.9	11.8	(s) 0.1	3.0	126.0	4.2 6.7	176.9	0.0	0.0	182.7	0.0	182.7
1975	(s)	8.2	0.9	39.5	11.7	(s)	3.0	147.7	2.8	205.6	0.0	0.0	213.8	0.0	213.8
1980	0.0	5.9	1.3	51.6	13.9	0.2	3.2	156.6	7.0	233.8	0.0	0.0	239.6	0.0	239.6
1985	0.0	4.7	0.7	51.8	12.1	0.7	2.9	148.8	19.4	236.5	(s)	0.0	241.2	0.0	241.2
1990 1995	0.0 0.0	9.2 7.6	0.6 0.7	61.3 61.9	18.8 29.0	0.7 0.4	3.3 3.1	163.0 174.6	23.3 20.0	270.9 289.7	0.0 0.0	(s) (s)	280.1 297.4	0.1 0.1	280.2 297.5
1995	0.0	8.3	1.0	66.4	29.7	0.4	3.0	180.3	19.1	299.8	0.0	(S) (S)	308.1	0.1	308.2
1997	0.0	13.3	0.9	68.6	32.4	0.4	3.2	171.9	20.3	297.7	0.0	(s)	311.0	0.1	_ 311.1
1998	0.0	14.1	0.8	66.2	R 33.3	(s)	3.4	185.7	23.0	312.3	1.2	(s)	326.4	0.1	R 326.6
1999	0.0	10.9	0.8	74.4	36.5	0.1	3.4	188.0	15.0	318.2	1.0	0.1	329.3	0.3	329.5
2000	0.0	12.2	0.7	74.8	35.6	0.2	3.4	185.3	8.0	307.9	1.2	0.1	320.2	0.3	320.5
2001	0.0	11.4	1.1	69.6	29.6	0.1	3.1	184.0	7.4	294.9	1.5	0.1	306.4	0.3	306.7
2002 2003	0.0 0.0	9.5 7.4	0.8 0.7	74.6 70.6	R 29.3 R 31.7	0.1 0.3	3.0 2.8	187.5 185.5	7.7 9.6	R 303.0 R 301.1	2.9 2.2	0.1 0.2	R 312.6 R 308.7	0.3 0.4	R 312.9 R 309.1
2003	0.0	7.4 10.2	0.7	70.6 82.6	R 28.9	0.3	2.8 2.8	185.5 186.4	9.6 10.8	R 312.5	_ 2.2	0.2 0.2	R 322.9	0.4	R 323.3
2004	0.0	7.8	0.0	86.1	30.6	0.5	2.8	190.4	11.8	323.0	Rag	0.2	331.0	0.4	331.4
2006	0.0	8.7	1.0	90.8	32.7	0.5	2.8	192.4	9.8	330.0	R 4.4	0.2	331.0 R 338.9	0.5	339.4
2007	0.0	9.9	1.0	94.0	31.9	0.4	2.8	192.6	13.7	336.5	5.6	0.2	346.6	0.5	347.0

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Oregon

				Petro	leum				Biomass				=	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960 1965 1970	0 0 0	1 (s)	3 1 18	(s) (s) (s) 29	0 0	3 1 19	0 0 0	12,389 16,447 29,836	 	0 0 0	0 0 0	0 0 0	0 0 0	
1975 1980 1985	0 485 418	(s) (s)	0 0	29 110 3	0	29 110 3	5,395 6,911	34,522 30,194 40,752		0 0 0	0 0	0 0 0	(s) 0 5,096	
1990 1995 1996	850 977 1,044	7 20 26	0 0	56 12 10	0 0 0	56 12 10	6,074 0 0	41,240 40,764 44,906	 	0 0	0 0 0	1 0 0	852 828 2,774	
1997 1998 1999	822 2,037 2,154	24 53 50	0 0 0	23 59 15	0 0 0	23 59 15	0 0 0	46,704 39,902 45,639	 	0 0 0	0 0 0	0 20 85	773 591 310	
2000 2001 2002	2,241 2,490 2,155	69 83 56	0 0 0	105 182 14	0 0 0	105 182 14	0 0 0	38,116 28,645 34,413	 	0 0 0	0 0 0	67 89 376	153 140 1,468	
2003 2004 2005 2006	2,533 2,077 2,103 1,449	74 89 88 75	0 0 0	100 40 93	0 0 0	100 40 93	0 0 0	33,250 33,081 30,948 37,850	 	0 0 0	0 0 0	444 619 734 931	R 278 2,445 R 76 -14	
2006	2,577	102	0	11 9	0	11 9	Trillion E	33,587		0	0	1,247	1,234	
1960	0.0	0.7	(-)	(-)	0.0	(-)	0.0	133.3	0.3	0.0	0.0	0.0	0.0	424.2
1965 1970	0.0 0.0	0.1 1.1	(s) (s) 0.1	(s) (s) (s) 0.2	0.0 0.0	(s) (s) 0.1	0.0 0.0	171.9 313.1	0.3 0.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	134.3 172.3 314.7
1975 1980 1985	0.0 7.9 6.9	(s) 0.3 0.0	0.0 0.0 0.0	0.2 0.6 (s) 0.3	0.0 0.0 0.0	0.2 0.6 (s) 0.3	(s) 58.8 73.4	359.2 313.7 425.7	(s) 1.7 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	(s) 0.0 17.4	359.4 383.1 523.5
1990 1995 1996	14.2 17.4 18.3	7.6 19.7 26.9	0.0 0.0 0.0	0.1 0.1	0.0 0.0 0.0	0.1 0.1	64.3 0.0 0.0	429.0 420.4 464.3	7.2 7.1 6.7	0.0 0.0 0.0	0.0 0.0 0.0	(s) 0.0 0.0	2.9 2.8 9.5	525.4 467.5 525.8
1997 1998 1999	14.4 35.4 38.6	24.6 53.9 50.5	0.0 0.0 0.0	0.1 0.3 0.1	0.0 0.0 0.0	0.1 0.3 0.1	0.0 0.0 0.0	477.0 406.9 466.7	6.6 7.0 5.3	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.2 0.9	2.6 2.0 1.1	525.3 505.7 563.1
2000 2001 2002	38.7 43.4 36.6	70.7 84.3 56.8	0.0 0.0 0.0	0.6 1.1 0.1	0.0 0.0 0.0	0.6 1.1 0.1	0.0 0.0 0.0	388.8 296.0 350.1	6.2 5.5 4.3	0.0 0.0 0.0	0.0 0.0 0.0	0.7 0.9 3.8	0.5 0.5 5.0 R 0.9	506.2 431.5 456.7
2003 2004 2005	43.4 35.1 35.4	76.0 90.5 89.8	0.0 0.0 0.0	0.6 0.2 0.5	0.0 0.0 0.0	0.6 0.2 0.5	0.0 0.0 0.0	340.5 331.5 309.5	5.9 1.3 7.1	0.0 0.0 0.0	0.0 0.0 0.0	4.5 6.2 7.3	8.3 R 0.3	R 471.8 473.2 R 449.9
2006 2007	24.2 43.1	77.0 104.9	0.0 0.0	0.1 0.1	0.0 0.0	0.1 0.1	0.0 0.0	375.4 332.0	7.4 6.7	0.0 0.0	0.0 0.0	9.2 12.3	(s) 4.2	493.4 503.3

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4, 5 and 6

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

i Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Pennsylvania

and (,646 ,9,11 ,574 ,043 ,911 ,702 ,019 ,969 ,691	Natural Gas ^a Billion Cubic Feet 522 629 772 654 776 626	Distillate Fuel Oil 46,257 54,459 63,489	Jet Fuel 1,036 3,406	LPG ^b	Motor Gasoline ^c Thousand Barrel	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
0,646 3,911 3,574 7,043 5,911 5,702 ,019 2,969	522 629 772 654 776 626	54,459 63,489		2 224	Thousand Barrel	s					wood	Solar/PV.			
3,911 3,574 7,043 5,911 5,702 1,019	629 772 654 776 626	54,459 63,489		2 224					Million	kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
3,911 3,574 7,043 5,911 5,702 1,019	629 772 654 776 626	54,459 63,489		4.004	80,104	42,958	24,318	197,008	230	1,826					
7,043 5,911 5,702 1,019 2,969	654 776 626	63,489		3,030	85,723	43,238	29,834	219,689	313	1,329					
5,911 5,702 1,019 2,969	776 626		9,083	4,754	101,718 108,765	60,436	29,819	269,299	465	1,366					
5,702 ,019 2,969	626	68,017	8,548	6,077	108,765	41,631	28,823	261,861	15,869	1,576					
,019 2,969	020	68,602 57,887	10,148 10,126	7,255 7,577	107,925 101,979	35,099 17,799	32,116 29,357	261,145 224,724	12,091 26,232	734 972					
,969	656	59,661	12,042	6,313	107,467	18,762	35,029	239 276	57,787	2,869					
	736	61.656	12 313	5,509	112,282	13,715	36,569	239,276 242,044	66,462	2,030					
	746	61,297	11,831 R 14,819	6,080	113,639	12.959	34,062	239,866 R 242,920	68,672	3,012					
,667	706	59,438	R 14,819	5,283	114,779	11,495	37,105	R 242,920	67,655	2,249					
2,342	644	57,603	R 16,731	5,452	116,867	13,933	37,798	R 248,384	61,149	2,381					
9,822 3,516	689 703	62,519 68,564	15,943 19,009	5,677 7,115	117,420 118,034	11,872 12,071	34,806 34,887	248,237 259,680	71,127 73,771	1,947 2,290					
),161	635	69,446	18,877	6,573	120,458	9,721	39,343	264,418	73,771	1,650					
),583	676	69,282	17,006	6,974	122 851	7,834	36,266	260,212	76,089	2,211					
,992	690	66,350	17,473	11,231	122,575	11,456	38,206	267,291	74,361	3,346					
,797	696	71,869	16,381	11,037	124,468	11,859	40,364	275.978	77,459	3,155					
,044	692	71,764	16,826	12,209	123,808	14,200	40,434	279,240	76,289	2,232					
5,223 5,645	660 752	71,248 70,216	16,465 15,503	13,033 13,307	122,702 123,970	7,131 6.623	38,854 36,853	269,432 266,473	75,298 77,376	2,844 2,236					
0,040	102	70,210	10,000	13,307	123,970	0,023	30,000	200,473	11,310	2,230					
							Trillion Btu								
30.5	540.1 652.9	269.4	5.7	9.4	420.8	270.1	145.9	1,121.3	2.7	19.6	46.5	0.0	-7.0	0.0	3,253.7
751.3	652.9	317.2	19.2	12.2	450.3	271.8	178.3	1,249.0	3.7	13.9	47.4	0.0	17.0	0.0	3,735.1
699.0 646.7	797.9 670.1	369.8 396.2	51.4 48.4	18.0 22.6	534.3 571.3	380.0 261.7	179.5 173.3	1,532.9 1,473.5	5.1 174.8	14.3 16.4	53.2 57.5	0.0 0.0	8.8 -119.0	0.0	4,111.2 3,919.9
36.1	R 792.8	399.6	57.4	26.7	566.9	220.7	190.7	1,462.0	131.9	7.6	129.2	0.0	-119.0	-3.2	4,024.6
109.1	R 646.9	337.2	57.3	27.3	535.7	111.9	176.3	1,245.6	278.6	10.1	138.1	0.0	-267.4	-0.2	3,460.9
69.7	R 680.7	347.5	68.2	22.9	564.5	118.0	211.5	1,332.6	611.5	29.8	61.4	0.7	-482.3	-0.2	3,703.8
184.1	R 761.5	359.1	69.8	20.0	585.6	86.2	220.5	1,341.2	698.3	20.9	91.5	0.8	-487.4	(s)	3,910.9
43.7	R 771.2	357.1	67.1	22.0	592.7	81.5	204.8	1,325.1	721.3	31.1	99.0	0.9	-552.4	0.4	3,940.4
69.6	R 730.8	346.2	84.0 R 04.0	19.1	598.3	72.3	222.8	1,342.7 R 1,374.4	710.0	23.0	90.8	0.9	-542.4	0.2	R 3,925.7
166.0 115.0	667.2 R 713.6	335.5 364.2	R 94.9 90.4	19.7 20.5	609.1 611.9	87.6 74.6	227.5 207.3	1,368.9	641.5 743.3	24.3 19.9	85.3 88.7	1.0 1.0	-488.6 -549.0	-0.6 -0.2	R 3,770.5 3,801.2
508.1	R 727 5	304.2		20.3	615.0	74.0 75.0	207.3	1,300.9	743.3 769.4	23.4	89.5		-605.0	-0.2	3,946.1
UO I	R 669.1	404.5	107.0	23.8	627.6	61.1	236.8	1,460.8	770.3	17.0	77.6	1.1	-491.8	-0.1	3,896.2
008.1 392.2	R 710 7	403.6	96.4	25.2	639.8	49.3	217.5	1,431.8	794.3	22.5	72.5	1.6	-559 6	-0.4	3,930.7
392.2 157.3	R 725.9		99.1	40.8		72.0	229.8		774.9		73.8	2.3	R -561.6	-0.4	3,977.5
392.2 157.3 162.0															4,040.4
892.2 157.3 162.0 174.3	719.3	418.0	95.4	44.2	646.0		243.8	1,536.8	796.1	22.3		4.4	-596.2		R 4,043.9 R 3,928.1
392.2 157.3 162.0	ถหว.ว		93.4 87 0			44.8 41.6			/ 85./ 811 5			5.3 6.7			4,006.2
00.4		^R 727.5 ^R 669.1	R 727.5 399.4 R 669.1 404.5 R 710.7 403.6 R 725.9 386.5 R 732.4 418.6 R 719.3 418.0 685.5 415.0	R 727.5 399.4 107.8 R 669.1 404.5 107.0 R 710.7 403.6 96.4 R 725.9 386.5 99.1 R 732.4 418.6 92.9 R 719.3 418.0 95.4 685.5 415.0 93.4	R 727.5 399.4 107.8 25.7 R 669.1 404.5 107.0 23.8 R 710.7 403.6 96.4 25.2 R 725.9 386.5 99.1 40.8 R 732.4 418.6 92.9 39.9 R 719.3 418.0 95.4 44.2 685.5 415.0 93.4 47.0	R 727.5 399.4 107.8 25.7 615.0 R 669.1 404.5 107.0 23.8 627.6 R 710.7 403.6 96.4 25.2 639.8 R 725.9 386.5 99.1 40.8 638.2 R 732.4 418.6 92.9 39.9 649.1 R 719.3 418.0 95.4 44.2 646.0 685.5 415.0 93.4 47.0 640.3	R 727.5 399.4 107.8 25.7 615.0 75.9 R 669.1 404.5 107.0 23.8 627.6 61.1 R 710.7 403.6 96.4 25.2 639.8 49.3 R 725.9 386.5 99.1 40.8 638.2 72.0 R 732.4 418.6 92.9 39.9 649.1 74.6 R 719.3 418.0 95.4 44.2 646.0 89.3 685.5 415.0 93.4 47.0 640.3 44.8	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 685.5 415.0 93.4 47.0 640.3 44.8 234.5	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 685.5 415.0 93.4 47.0 640.3 44.8 234.5 1,475.0	R 727.5 339.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 R 669.1 404.5 107.0 23.8 67.6 61.1 236.8 1,460.8 770.3 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 685.5 415.0 93.4 47.0 640.3 44.8 234.5 1,475.0 785.7	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 23.4 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 770.3 17.0 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 22.5 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 34.3 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 31.6 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 22.3 685.5 415.0 93.4 47.0 640.3 44.8 234.5 1,475.0 785.7 28.2	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 23.4 89.5 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 770.3 17.0 77.6 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 22.5 72.5 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 34.3 73.8 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 31.6 74.4 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 22.3 R 71.6 685.5 415.0 93.4 47.0 640.3 44.8 234.5 1,475.0 785.7 28.2 R 71.7	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 23.4 89.5 1.1 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 770.3 17.0 77.6 1.1 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 22.5 72.5 1.6 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 34.3 73.8 2.3 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 31.6 74.4 4.4 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 22.3 R 71.6 4.4 685.5 415.0 93.4 47.0 640.3 44.8 234.5 1,475.0 785.7 28.2 R 71.7 7.5	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 23.4 89.5 1.1 -605.9 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 770.3 17.0 77.6 1.1 -491.8 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 22.5 72.5 1.6 -559.6 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 34.3 73.8 2.3 R-561.6 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 31.6 74.4 4.4 -601.7 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 22.3 R 71.6 4.4 -596.2 685.5 415.0 93.4 47.0 640.3 44.8	R 727.5 399.4 107.8 25.7 615.0 75.9 209.7 1,433.4 769.4 23.4 89.5 1.1 -605.9 -0.3 R 669.1 404.5 107.0 23.8 627.6 61.1 236.8 1,460.8 770.3 17.0 77.6 1.1 -491.8 -0.1 R 710.7 403.6 96.4 25.2 639.8 49.3 217.5 1,431.8 794.3 22.5 72.5 1.6 -559.6 -0.4 R 725.9 386.5 99.1 40.8 638.2 72.0 229.8 1,466.4 774.9 34.3 73.8 2.3 R-561.6 -0.4 R 732.4 418.6 92.9 39.9 649.1 74.6 243.0 1,518.1 807.7 31.6 74.4 4.4 -601.7 -0.7 R 719.3 418.0 95.4 44.2 646.0 89.3 243.8 1,536.8 796.1 22.3 R 71.6 4.4 -596.2 -1.1

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Pennsylvania

				Petro	leum		Biomass			B 4 3			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	5.236	232	25,101	2.763	1,125	28.989	1.307			11,094			
1965	5,236 3,185	232 256	28.391	2,763 2,753	1.349	28,989 32,493	1,307 1,060			14.807			
1970	2,028	297	31,242	3 368	1,890	36 500	1.024			23,007			
1975	561	273	31.587	2,023 2,362 2,853 1,377	2,109	35,719 31,789 29,337 24,117	1.039			27,678			
1980	329 280 262	288 245	27,838	2,362	1,589	31,789	2,666			31,767			
1985	280	245	24,185 20,207	2,853	2,299 2,533	29,337	2,478 1,300			32,686			
1990	262	240	20,207	1,377	2,533	24,117	1,300			38,164			
1995 1996	154 119	262 279	20,307 20,704	2,064 2,411	3,089 3,362	25,460 26,477	1,172			42,802 43,645			
1996	119	279	20,704	2,411	3,362	26,477	1,217 691			43,645			
1997 1998		262 218	19,169 16,232	2,541 2,541 2,906 2,518 2,790 2,884 1,985 1,597	3,311 3,486	25,021 22,624	614			42,785 42,923			
1999	83	210	19,175	2,900	3,733	25,426	646			44,126			
2000	93 83 82 86	241 263	20 010	2,310	4,489	28,190	695			45,008			
2001	86	239	20,810	2,730	3,480	27 226	625			46,030			
2002	70	239 239	20,910 20,863 20,503	1.985	4,015	27,226 26,503	634			48,730			
2003	91	265	22.251	1.597	5,017	28,864 29,359	667			49.651			
2003 2004	68	248	22.427	1,941	4,992	29,359	684			50,663			
2005	50	245	19.896	1.822	4,559	26,277	R 515 R 469			53.661			
2006	R 56	206	16,902	1,420	4,559 R 4,659	26,277 R 22,981	R 469			51,790			
2007	66	231	17,139	945	5,308	23,392	517			54,587			
						Т	rillion Btu						
1960 1965	129.5	240.2	146.2	15.7	4.5	166.4	26.1 21.2	0.0	0.0	37.9	600.0	93.6	693.7
1965	77.6	265.3	165.4	15.6	5.4	186.4	21.2	0.0	0.0	50.5	601.0	120.6	721.7
1970 1975	47.8 12.6	306.8	182.0	19.1	7.1 7.8	208.2 203.3	20.5	0.0	0.0	78.5	661.8	190.0	851.8
1975	12.6	279.5 R 294.7 R 253.2	184.0	11.5	7.8	203.3	20.8	0.0	0.0	94.4	610.6	227.1	837.7
1980	7.6 6.6	K 294.7	162.2	13.4 16.2	5.8 8.3	181.4	53.3 49.6	0.0	0.0 0.0	108.4	644.2	261.3	905.4 843.1
1985	6.6	R 253.2	140.9	16.2	8.3	165.3	49.6	0.0	0.0	111.5	586.2	256.9	843.1
1990 1995	6.6	R 249.5 R 271.4 R 288.1	117.7 118.3	7.8 11.7	9.2	134.7 141.2	26.0 23.4	0.2 0.2 0.2	0.5 0.5	130.2 146.0	547.5 586.6	301.1 331.6	848.6 918.2
1995	3.8	R 200 4	120.6	13.7	11.2 12.1	141.2	24.3	0.2	0.5	148.9	611.4	338.6	950.0
1996	2.9 3.4	271.7	111.7	14.4	12.1	138.0	13.8	0.2	0.5 0.5	146.9	573.7	330.7	904.4
1002	3. 4 2.2	27 1.7 225 8	94.6	16.4	12.6	130.0	10.0	0.3 0.3	0.5 0.5	146.0	573.7 511.3	332.1	904.4 9/3 /
1998 1999	2.3 2.1	225.8 R 250.2	94.6 111.7	16.5 14.3	13.5	123.6 139.5	12.3 12.9	0.3 0.3	0.5 0.5	150.6	556.0	344.4	843.4 900.3
2000	2.2	R 272.0	121.8	15.8	16.2	153.8	13.9	0.3	0.5	153.6	596.1	349.3	945.4
2000	2.2	251.9	121.5	16.4	12.6	150.5	12.5	0.3	0.3	157.1	574.8	350.0	924.8
2002	2.2 1.8	252.0	121.5 119.4	16.4 11.3	14.5	145.2	12.7	0.3 0.3	0.4	166.3	578.7	370.6	924.8 949.3
2003	2.3	279.0	129.6	9.1	18.2	156.9	13.3	0.4	0.4	169.4	621.7	373.8	995 6
2004	1.7	261.1	130.6	11.0	18.1	159.7	13.7	0.5	0.5	172.9	610.0	382.5	992.5
2005	1.3 R 1.4	255.0	115.9	10.3	16.5 R 16.8	142.7	K 10.3	0.6	0.5	183.1	R 593.4	400.5	R 993.9
2006	R 1.4	214.0 240.8	98.5 99.8	8.0	R 16.8	142.7 R 123.3	R 9.4	0.6	0.6	176.7	610.0 R 593.4 R 526.0	382.1	992.5 R 993.9 R 908.2 966.6
2007	1.6	240.8	99.8	5.4	19.1	124.3	10.3	0.8	0.8	186.3	564.7	401.9	966.6

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Pennsylvania

					Petro	oleum			Uhadaa	Biomass		D-1-II			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	3,639	56	4,363	241	198	2,084	5,514	12,401	0			7,125			
1965	2,403	68	4,935	240	238	2,585	5,899	13,897	0			9,417			
1970	1,594	99	5,431	294	334	2,455	5,254	13,767	0			13,435			
1975 1980	1,308 1,239	99 118	5,491 5,858	177 193	372 280	1,310 313	3,630 1,521	10,980 8,165	0			18,608 21,746			
1985	993	115	5,508	359	406	448	1,414	8,134	0			24.580			
1990	1,046	126	6.640	150	447	701	794	8,732	ŏ			30,198			
1995	1,034	144	6,334	528	545	88	1,221	8,716	0			35,542			
1996	875	155	6,152	556	593	87	1,304	8,692	0			36,373			
1997 1998	1,108 749	144 131	4,807 4,597	323 284	584 615	284 929	1,029 598	7,027 7,023	0			36,853 38,088			
1996	607	143	4,751	344	659	188	540	7,023 6.481	0			38,306			
2000	660	145	5 495	407	792	146	634	7.475	0			42.988			
2001	698	136	5,994	501	614	127	500	7,737	Ö			41,446			
2002	516	136	7,454	388	708	158	376	9,084	0			43,598			
2003	609	149	6,269	394	885	158	564	8,269	0			43,218			
2004 2005	612 573	143 145	6,216 6,124	409 460	881 805	111 90	609 626	8,225 8,105	0			44,355 45,782			
2006	R 568	130	5,703	420	R 822	91	287	R 7,322	0			45,762			
2007	590	146	4,920	186	937	91	389	6,523	Ő			47,531			
								Trillion Btu							
1960	90.0	58.1	25.4	1.4	0.8	10.9	34.7	73.2	0.0	0.5	0.0	24.3	246.1	60.1	306.2
1965	58.5	70.1	28.7	1.4	1.0	13.6	37.1	81.7	0.0	0.4	0.0	32.1	242.9	76.7	319.6
1970	37.5	102.6	31.6	1.7	1.3	12.9	33.0	80.5	0.0	0.4	0.0	45.8	266.9	110.9	377.8
1975 1980	29.4 28.7	101.5 121.1	32.0 34.1	1.0 1.1	1.4 1.0	6.9 1.6	22.8 9.6	64.1 47.5	0.0 0.0	0.4 1.3	0.0 0.0	63.5 74.2	258.9 272.2	152.7 178.8	411.5 451.1
1985	23.6	119.3	32.1	2.0	1.5	2.4	8.9	46.8	0.0	1.2	0.0	83.9	274.7	193.2	467.8
1990	26.3	130.6	38.7	0.9	1.6	3.7	5.0	49.8	0.0	2.8	(s)	103.0	312.6	238.3	550.8
1995	25.7	148.8	36.9	3.0	2.0	0.5	7.7	50.0	0.0	7.1	0.1	121.3	353.0	275.4	628.4
1996	21.6	159.9	35.8	3.1	2.1	0.5	8.2	49.8	0.0	7.2	0.1	124.1	362.7	282.2	644.9
1997	27.3	149.2	28.0	1.8	2.1	1.5	6.5	39.9	0.0	6.1	0.2	125.7	348.3	284.9	633.2
1998 1999	18.9 15.4	135.8 148.4	26.8 27.7	1.6 2.0	2.2 2.4	4.8 1.0	3.8 3.4	39.2 36.4	0.0 0.0	5.9 5.9	0.2 0.2	130.0 130.7	329.9 337.0	294.7 299.0	624.6 636.0
2000	17.4	150.4	32.0	2.0	2.4	0.8	4.0	41.9	0.0	6.1	0.2	146.7	362.7	333.6	696.3
2001	17.6	143.9	34.9	2.8	2.2	0.7	3.1	43.8	0.0	4.4	0.2	141.4	351.3	315.1	666.5
2002	13.0	143.5	43.4	2.2	2.6	0.8	2.4	51.4	0.0	4.5	0.3	148.8	361.4	331.6	693.0
2003	15.3	157.4	36.5	2.2	3.2	0.8	3.5	46.3	0.0	4.7	0.3	147.5	371.5	325.4	696.8 R 702.8
2004	15.4	150.3	36.2	2.3	3.2	0.6	3.8	46.1	0.0	4.4 R 2.0	0.4	151.3	367.9	334.9	R 702.8 R 713.0
2005 2006	14.4 R 14.3	150.8 135.5	35.7 33.2	2.6 2.4	2.9 3.0	0.5 0.5	3.9 1.8	45.6 R 40.8	0.0 0.0	R 3.8	0.5 0.5	156.2 155.7	371.3 350.3	341.7 336.6	R 687.0
2006	14.8	151.8	33.2 28.7	1.1	3.4	0.5	2.4	36.0	0.0	R 3.6 3.7	0.5	162.2	369.0	349.9	718.9
2001	14.0	131.0	20.7	1.1	J. 4	0.3	2.4	30.0	0.0	J.1	0.3	102.2	0.500	J + 3.3	7 10.9

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Pennsylvania

					Petro	leum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	33,140	213	8,645	992	1,456	29,692	17,976	58,762	16			20,693			
1965	40,010	285	11,641	1,383	1,480	29,434	23,797	67.734	15			29,075			
1970	35,753	340	10,196	2,396	1,181	27,132	24,169	65,074	12			38,993			
1975	28,510	263	11,033	3,439	1,098	21,941	25,104	62,614	1			41,256			
1980	21,877	337	11,128	5,238	586	11,555	27,597	56,104	1			46,045			
1985 1990	13,716 14,546	231 241	6,434 7,489	4,624 3,177	1,276 1,180	2,624 5,734	23,961 31,009	38,919 48,589	1			42,520 45,992			
1990	14,885	252	7,469 4,392	1,687	934	2,888	31,259	40,569	0			45,992			
1996	15,155	246	4,462	1,977	855	3,292	28,366	38,952	0			47,208			
1997	14,825	240	4,179	1,272	887	2,227	31,502	40,067	ŏ			48,063			
1998	10,691	232	4,066	1,224	872	2,219	31,779	40,160	0			48,815			
1999	10,160	236	5,034	1,188	741	1,903	29,629	38,495	0			46,059			
2000	10,508	235	5,576	1,766	703	1,994	30,140	40,180	0			45,449			
2001	10,079	203	5,997	2,391	1,363	1,600	34,558	45,910	0			47,383			
2002 2003	10,137	212	5,254 4,739	2,153	1,432	1,316	31,920	42,075	0			47,090			
2003	10,366 10,418	200 200	4,739 5,446	5,176 5,010	1,510 1,823	2,111 1,918	34,130 35,708	47,666 49,904	0			46,773 47,659			
2004	9 957	190	5,681	6 6/10	1 8/11	1,915	36,362	_ 52,448	0			47,950			
2006	9,957 R 9,663	195	7,293	R 7,372	2,112	1,709	35,493	R 53,979	0			47,920			
2007	9,277	196	7,847	6,933	1,542	1,300	34,463	52,084	Ö			48,579			
							Tri	llion Btu							
1960	873.1	220.0	50.4	4.0	7.6		110.7	359.3	0.2	19.8	0.0	70.6	1,543.0	174.6	1,717.7
1965	1,053.3	296.1	67.8	5.5	7.8	185.0	144.8	411.0	0.2	25.8	0.0		1,885.5	236.9	2,122.4
1970 1975	932.1 743.1	351.2 269.8	59.4 64.3	9.1 12.8	6.2 5.8	170.6 137.9	147.3 152.1	392.6 372.8	0.1	32.3 36.3	0.0		1,841.4 1,562.8	322.0 338.5	2,163.4 1,901.3
1975	573.1	R 344.0	64.8	19.2	3.1	72.6	164.6	372.6	(s) (s)	74.6	0.0 0.0		1,302.6	378.7	1,850.4
1985	359.2	238.7	37.5	16.7	6.7	16.5	145.1	222.4	(s)	87.4	0.0		1,052.7	334.1	1,386.8
1990	382.1	R 250.9	43.6	11.5	6.2	36.0	187.9	285.3	0.0	23.7	0.0		1,098.9	362.9	1,461.7
1995	392.2	261.4	25.6	6.1	4.9	18.2	189.5	244.2	0.0	33.2	0.0		1,093.2	368.3	1,461.4
1996	398.4	R 254.6	26.0	7.1	4.5	20.7	171.6	229.9	0.0	38.4	0.0	161.1	1,082.2	366.3	1,448.5
1997	390.0	248.3	24.3	4.6	4.6	14.0	190.1	237.6	0.0	41.8	0.0	164.0	1,081.7	371.5	1,453.2
1998	284.2	240.5	23.7	4.4	4.5	14.0	192.5	239.1	0.0	36.3	0.0		966.6	377.7	1,344.3
1999	269.6	244.2	29.3	4.3	3.9	12.0	177.3	226.7	0.0	38.5	0.0		936.2	359.5	1,295.7
2000	277.9	R 243.6	32.5	6.4	3.7	12.5	182.3	237.4	0.0	38.0	0.0		951.8	352.7	1,304.5
2001 2002	266.0 267.7	R 214.6 223.9	34.9 30.6	8.6 7.8	7.1 7.5	10.1 8.3	209.2 192.3	269.9 246.4	0.0	35.6 30.2	0.0		947.7 928.8	360.3 358.2	1,308.0 1,287.0
2002	267.7 274.0	R 210.8	30.6 27.6	18.8	7.5 7.9	13.3	206.0	273.5	0.0	30.2	0.0		949.0	358.2 352.2	1,287.0
2003	273.4	210.8	31.7	18.1	9.5	12.1	215.8	287.2	0.0	32.3	0.0		966.2	359.8	1,326.0
2005	250.3	197.5	33.1	24.1	9.6	12.0	220.2	299 በ	0.0	32.6	0.0		942 9	357.8	1 300 7
2006	242.3	202.7	42.5	R 26.6	11.0	10.7	215.1	R 305.9	0.0	R 33.3	0.0		R 947.7	353.6	R 1,301.3
2007	232.6	204.2	45.7	24.9	8.0	8.2	208.3	295.2	0.0	33.5	0.0		931.2	357.6	1,288.8

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Pennsylvania

						Pe	troleum					D-4-il			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	569	15	1,994	7,662	1,036	20	1,343	76,565	5,005	93,625	0	306			
1965	130	19	1,922	8,900	3,406	60	1,121	81,658	4,554	101,622	0	232			
1970	57	27	662	12,662	9,083	134	1,327	98,082	5,548	127,497	0	184			
1975	5	18	426 337	16,566	8,469	157 147	1,094 1,312	106,357	5,788	138,857	0	194 186			
1980 1985	0	29 33	208	21,539 20,337	10,148 10,126	249	1,312	107,026 100,255	4,796 2,139	145,306 134,508	0	365			
1990	0	34	145	23,187	12.042	157	1,344	105,586	5,584	148,044	0	396			
1995	Ö	38	125	29.224	12 313	188	1,282	111,261	4,769	159 162		379			
1996	0	41	121	28,464	11,831 R 14,819 R 16,731	148	1,244	112,697	3,326	157,831 R 164,771 R 170,060	1,714 1,287	397			
1997	0	39	107	30,227	R 14,819	117	1,314	113,608	4,579	R 164,771	1.422	376			
1998	0	33	126	31,153	r 16,731	127	1,376	115,066	5,481	K 170,060	325	381 392			
1999 2000	0	37 39	205 154	32,235 33,989	15,943 19,009	97 68	1,390 1,369	116,491 117,185	5,003 4,699	171,364 176,473	281 317	392 401			
2000	0	33	122	35,425	18,877	88	1,255	118,968	2,446	176,473 177,180	405	412			
2002	Ö	38	121	34,831	17,006	98	1,240	121,261	2,878	177.435	135	403			
2003	0	34	95	31,746	17,473	153	1,146	120,907 122,535	2,959	174,479	161	727			
2004	0	30	95	36,709	16,381	155	1,161	122,535	4,003	181,037	2,115	823			
2005	0	31	100	38,790 40,699	16,826	197 179	1,155	121,878	4,600	183,546 183,371	161 2,115 R 1,346 R 2,961	880 816			
2006 2007	0 0	28 35	218 97	39,473	16,465 15,503	179	1,125 1,162	120,499 122,337	4,186 3,419	183,371	3,993	876			
								Trillion Btu							
1960	14.6	15.6	10.1	44.6	5.7	0.1	8.1	402.2	31.5	502.3	0.0	1.0	533.6	2.6	536.2
1965	3.3	20.1	9.7	51.8	19.2	0.2	6.8	429.0	28.6	545.4	0.0	0.8	569.5	1.9	571.4
1970 1975	1.4	27.5	3.3	73.8 96.5	51.4	0.5 0.6	8.0	515.2	34.9	687.1	0.0	0.6 0.7	716.7	1.5	718.2 769.4
1975	0.1 0.0	18.1 30.1	2.1 1.7	96.5 125.5	47.9 57.4	0.6	6.6 8.0	558.7 562.2	36.4 30.2	748.9 785.4	0.0 0.0	0.7	767.8 816.2	1.6 1.5	769.4 817.7
1985	0.0	34.1	1.1	118.5	57.3	0.9	7.2	526.6	13.4	725.0	0.0	1.2	760.4	2.9	763.2
1990	0.0	35.8	0.7	135.1	68.2	0.6	8.1	554.6	35.1	802.4	0.0	1.4	839.5	3.1	842.7
1995	0.0	39.3	0.6	170.2	69.8	0.7	7.8	580.2	30.0	859.3	6.1	1.3	899.9	2.9	902.9
1996	0.0	42.2	0.6	165.8	67.1	0.5	7.5	587.8	20.9	850.3	4.6	1.4	893.8	3.1	896.9
1997	0.0	40.6	0.5	176.1	84.0	0.4	8.0	592.2	28.8	R 890.1	5.0	1.3	931.9	2.9	934.8
1998 1999	0.0 0.0	34.0 38.3	0.6	181.5 187.8	R 94.9 90.4	0.5 0.3	8.3 8.4	599.7 607.0	34.5 31.5	R 920.0 926.5	1.2 1.0	1.3 1.3	955.2 966.1	2.9	R 958.2 969.1
2000	0.0	30.3 40.2	1.0 0.8	198.0	107.8	0.3	8.3	610.5	29.5	955.2	1.0	1.4	996.8	3.1 3.1	999.9
2000	0.0	35.3	0.6	206.3	107.0	0.2	7.6	619.8	15.4	957.1	1.4	1.4	993.8	3.1	996.9
2002	0.0	39.6	0.6	202.9	96.4	0.4	7.5	631.5	18.1	957.4	0.5	1.4	998.4	3.1	1.001.4
2003	0.0	35.9	0.5	184.9	99.1	0.6	7.0	629.6	18.6	940.1	0.6	2.5	978.5	5.5	984.0
2004	0.0	31.2	0.5	213.8	92.9	0.6	7.0	639.0	25.2	979.0	7.5	2.8	1 012 9	6.2	1 019 2
2005	0.0	32.3	0.5	225.9	95.4	0.7	7.0	636.0	28.9	994.5	R 4.8	3.0	1,029.8 R 1,025.7	6.6	1,036.3 R 1,031.7
2006 2007	0.0 0.0	R 28.8 36.6	1.1 0.5	237.1 229.9	93.4 87.9	0.6 0.5	6.8 7.0	628.8 638.5	26.3 21.5	994.1 985.8	R 10.5 14.1	2.8 3.0	1,025.7 1,025.4	6.0 6.4	^ 1,031.7 1,031.8
					2.10	2.0		223.0	=				.,		.,

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Pennsylvania

Thousand Short Tons Billion Cubic Peet Thousand Short Tons Thousand Short		Floresteller				Biomass		Newstern		oleum	Petro				
Thousand Short Tons Cubic Feet Thousand Barrels Million Kilowatthours Million Kilowatthours Million Kilowatthours	·	Electricity Net Imports ^h	Wind ^f	Solar/PV f,g	Geothermal f	Waad	Hydroelectric Power d		Total			Residual Fuel Oil ^b	Natural Gas ^a	Coal	
1965 23,182 1 3,351 591 0 3,943 313 1,313 0 0 0 0 1970 29,141 99 22,502 3,959 0 26,460 465 1,354 0 0 0 0 0 1975 36,659 1 10,273 3,419 0 13,691 15,869 1,575 0 0 0 0 0 1985 42,466 3 17,226 2,238 316 19,780 12,091 734 0 0 0 0 0 1985 41,713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1985 44,1713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1985 46,985 39 4,836 1,398 1,310 7,545 66,462 2,030 0 0 0 0 0 1985 46,985 39 4,836 1,398 1,310 7,545 66,462 2,030 0 0 0 0 0 1987 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1987 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1988 50,810 30 3,583 1,351 3,352 719 6,471 71,127 1,947 0 0 0 0 0 1 1989 48,971 31 4,426 1,325 719 6,471 71,127 1,947 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total ^{f,i}		owatthours	Million Kild		and	lowatthours	Million Ki		nd Barrels	Thousan				Year
1965 23,182 1 3,351 591 0 3,943 313 1,313 0 0 0 0 1970 29,141 9 22,502 3,959 0 26,460 465 1,354 0 0 0 0 0 1975 36,659 1 10,273 3,419 0 13,691 15,869 1,575 0 0 0 0 0 1985 42,466 3 17,226 2,238 316 19,780 12,091 734 0 0 0 0 0 1985 41,713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1985 41,713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1985 46,895 39 4,836 1,398 1,310 7,545 66,462 2,030 0 0 0 0 1995 46,895 39 4,836 1,398 1,310 7,545 66,462 2,030 0 0 0 0 1995 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1997 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1998 48,971 31 4,426 1,325 719 6,471 71,127 1,947 0 0 0 0 0 1 1999 48,971 31 4,426 1,325 719 6,471 71,127 1,947 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0	0	0		1,810	230	3,232	0	485	2,747	6	18,062	1960
1975 36,659 1 10,273 3,419 0 13,691 15,869 1,575 0 0 0 0 0 1985 41,713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1985 41,713 2 11,622 1,423 782 13,827 26,232 971 0 0 0 0 0 1995 46,895 39 4,836 1,338 1,310 7,545 66,462 2,030 0 0 0 0 0 1995 46,895 39 4,836 1,338 1,310 7,545 66,462 2,030 0 0 0 0 0 1995 46,895 39 4,836 1,388 1,310 7,545 66,462 2,030 0 0 0 0 0 1995 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 0 1 1997 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 0 1 1998 48,971 31 4,426 1,325 7719 6,471 71,127 1,947 0 0 0 0 0 1 1998 48,971 31 4,426 1,325 7719 6,471 71,127 1,947 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0)	0		0	0		1 313	313	3.943	0	591	3 351	1	23.182	1965
1980)	0	•	•	•		1,354	465	26,460		3,959	22,502	9	29,141	1970
1985	0	0		•	•		1,575	15,869	13,691		3,419	10,273	1	36,659	1975
1990	0	0		0	-		734	12,091	19,780		2,238	17,226			1980
1995 46,895 39 4,836 1,398 1,310 7,545 66,462 2,030 0 0 0 1996 49,541 26 5,037 1,514 1,363 7,914 66,672 3,012 0 0 0 0 1 1997 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1998 50,810 30 5,635 1,555 1,327 8,517 61,149 2,381 0 0 0 0 1999 48,971 31 4,426 1,325 719 6,471 71,127 1,947 0 1 1 0 0 0 0 1 1 0 0 <)	0		0			971	26,232	13,827	782		11,622	.2	41,713	1985
1996 49,541 26 5,037 1,514 1,363 7,914 68,672 3,012 0 0 0 1 1997 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1998 50,810 30 5,635 1,555 1,327 8,517 61,149 2,381 0 0 0 0 0 2000 52,266 21 4,744 2,593 26 7,363 73,771 2,290 0 0 0 1 2001 49,297 23 5,175 1,167 23 6,365 73,731 1,650 0 0 1 2002 49,860 50 3,264 1,238 612 5,115 76,089 2,211 0 0 11 2003 50,926 41 5,822 1,346 844 8,012 74,361 3,346 0 0 112 R 2004 51,698 76 5,331 1,072 1,051 7,453 77,499 3,155 0 0 284 22 2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 284 2 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 0 1970 680 9,7 141,5 231 0,0 164,5 5,11 142 0,0 0,0 0,0 0,0 1970 680 9,7 141,5 231 0,0 164,5 5,1 142 0,0 0,0 0,0 0,0 1975 861,4 12 64,6 19,9 0,0 84,5 17,8 16,4 0,0 0,0 0,0 0,0 1985 1,019,7 1,6 73,1 8,3 4,7 86,1 278,8 3,1 29,8 8,8 0,0 0,0 0,0 0,0 0,0 1990 1,026,7 2,9 188,3 13,0 1,9 123,2 131,9 7,6 0,0 0,0 0,0 0,0 1985 1,019,7 1,6 73,1 8,3 4,7 86,1 278,8 1,273 3,1 1,274 3,1		0		0	•		2,869		9,795	1,005	2,140	6,650	15	45,165	1990
1997 50,597 20 3,661 1,055 1,318 6,034 67,655 2,249 0 0 0 0 1 1998 50,810 30 5,635 1,555 1,327 8,517 6,149 2,381 0 0 0 0 1 1 1 1 1 1	6	16 199		0			2,030	66,462	7,545	1,310	1,398	4,836	39	46,895	1995
1998 50,810 30 5,635 1,555 1,327 8,517 61,149 2,381 0 0 0 0 1999 48,971 31 4,426 1,325 719 6,471 71,127 1,947 0 0 0 0 0 0 0 0	3	113		0			3,012	67,672	6.024	1,303	1,514	5,037	20	49,541	1996
1999		-164		0	•		2,249		0,034 9,517	1,310	1,055		20	50,597	1000
2000 52,266 21 4,744 2,593 26 7,363 73,771 2,290 0 0 10 10 2001 49,297 23 5,175 1,167 23 6,365 73,731 1,650 0 0 0 11 2002 49,860 50 3,264 1,238 612 5,115 76,089 2,211 0 0 0 58 2003 50,926 41 5,822 1,346 844 8,012 74,361 3,346 0 0 0 112 8-2004 51,698 76 5,331 1,072 1,051 7,453 77,459 3,155 0 0 0 306 -1 2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 0 284 -2 2006 55,936 101 949 651 179 1,779 75,298 2,844 0 0 0 361 -2 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 470 70 70 70 70 70 70 70 70 70 70 70 70 7	6	-16		•			1 0/17	71 127	6,317	710	1,000	0,033 4.426	30	30,610 48 971	1990
2001		0		•	•		2 290		7 363			4,744	21		2000
2002 49,860 50 3,264 1,238 612 5,115 76,089 2,211 0 0 0 58 2003 50,926 41 5,822 1,346 844 84012 74,361 3,346 0 0 0 112 R- 2004 51,698 76 5,331 1,072 1,051 7,453 77,459 3,155 0 0 0 306 -1 2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 0 284 2206 55,936 101 949 651 179 1,779 75,298 2,844 0 0 0 361 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 470		0		•			1,650	73 731	6.365	23	1 167		23	49 297	2000
2003 50,926 41 5,822 1,346 844 8,012 74,361 3,346 0 0 0 112 P. 2004 51,698 76 5,331 1,072 1,051 7,453 77,459 3,155 0 0 0 306 -1 2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 0 284 -2 2006 55,936 101 949 651 179 1,779 75,298 2,844 0 0 0 361 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 470 Trillion Btu 1960 423,3 6.2 17,3 2.8 0.0 22,1 2.7 19,5 0.0 0.0 0.0 0.0 0.0 1970 680,2 9.7 141,5 23.1 0.0 164,5 3.7 13,7 0.0 0.0 0.0 0.0 0.0 1975 861,4 1.2 64,6 19,9 0.0 84,5 174,8 16,4 0.0 0.0 0.0 0.0 0.0 1985 1,002,7 2.9 108,3 13,0 1,9 12,32 13,1 14,2 0.0 0.0 0.0 0.0 0.0 0.0 1985 1,019,7 1,6 73,1 8,3 4,7 86,1 278,6 10,1 0.0 0.0 0.0 0.0 0.0 0.0 1990 1,054,7 14,0 41,8 12,5 6,1 67,9 46,4 698,3 20,9 27,7 0.0 0.0 0.0 0.0 0.0 0.0 1996 1,120,7 26,4 31,7 8,8 8,2 48,7 721,3 31,1 29,1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1997 1,149,0 21,0 24,0 31,7 8,8 8,2 48,7 721,3 31,1 29,1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			58				2 211		5 115	612	1,737	3 264	50	49.860	2002
2004 51,698 76 5,331 1,072 1,051 7,453 77,459 3,155 0 0 0 306 -1 2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 0 361 -2 2006 55,936 101 949 651 179 1,779 75,298 2,844 0 0 0 361 -2 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 470 **Trillion Btu** 1960 423.3 6.2 17.3 2.8 0.0 20.1 2.7 19.5 0.0 0.0 0.0 0.0 0.0 1965 558.6 1.3 21.1 3.4 0.0 24.5 3.7 13.7 0.0 0.0 0.0 0.0 0.0 1970 680.2 9.7 141.5 23.1 0.0 164.5 5.1 14.2 0.0 0.0 0.0 0.0 0.0 1970 680.2 9.7 141.5 23.1 0.0 164.5 5.1 14.2 0.0 0.0 0.0 0.0 0.0 1986 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 1985 1,019.7 1.6 73.1 8.3 4.7 86.1 278.6 10.1 0.0 0.0 0.0 0.0 0.0 1985 1,019.7 1.6 73.1 8.3 4.7 86.1 278.6 10.1 0.0 0.0 0.0 0.0 0.0 1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 0.0 1210 1,210.6 21.3 29.8 15.1 0.2 45.1 76.9 23.4 31.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1210 1,210.6 21.3 29.8 15.1 0.2 45.1 76.9 23.4 23.4 31.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	5	R -85	112	Õ	0		3 346						41		2003
2005 54,464 81 7,058 1,273 534 8,865 76,289 2,232 0 0 0 284 -2 2006 55,936 101 949 651 179 1,779 75,298 2,844 0 0 0 361 -2 2007 55,712 144 1,516 838 0 2,353 77,376 2,236 0 0 0 470 **Trillion Btu** 1960 423.3 6.2 17.3 2.8 0.0 20.1 2.7 19.5 0.0 0.0 0.0 0.0 0.0 0.0 1965 558.6 1.3 21.1 3.4 0.0 24.5 3.7 13.7 0.0 0.0 0.0 0.0 0.0 0.0 1975 861.4 1.2 64.6 19.9 0.0 164.5 5.1 14.2 0.0 0.0 0.0 0.0 0.0 1975 861.4 1.2 64.6 19.9 0.0 84.5 174.8 16.4 0.0 0.0 0.0 0.0 0.0 1980 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 0.0 1980 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 0.0 1980 1,054.7 14.0 41.8 12.5 6.1 60.3 611.5 29.8 8.8 0.0 0.0 0.0 0.0 1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 1.0 1998 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 0.1 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 0.0 1.1 (0.0 1.20.0 1.21.0 2.3.0 2.9.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.0 0.0 0.1 1.0 1.0 1.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	7	-177		Ŏ	Õ		3.155		7.453	1.051				51.698	2004
1960	ĥ	-286	284	0	0		2 232	76,289	8.865	534	1,273	7,058	81	54,464	2005
1960	5	-95 62	361				2,844	75,298	1,779	179	651	949		55,936	2006
1960 423.3 6.2 17.3 2.8 0.0 20.1 2.7 19.5 0.0 0.0 0.0 0.0 1965 558.6 1.3 21.1 3.4 0.0 24.5 3.7 13.7 0.0	2	62	470	0	0		2,236	77,376	2,353	0	838	1,516	144	55,712	2007
1965 558.6 1.3 21.1 3.4 0.0 24.5 3.7 13.7 0.0 0							Btu	Trillion E							
1970 680.2 9.7 141.5 23.1 0.0 164.5 5.1 14.2 0.0 0.0 0.0 0.0 0.0 1975 861.4 1.2 64.6 19.9 0.0 84.5 174.8 16.4 0.0 0.0 0.0 0.0 0.0 0.0 1980 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 0.0 1985 1,019.7 1.6 73.1 8.3 4.7 86.1 278.6 10.1 0.0 0.0 0.0 0.0 0.0 1990 1,054.7 14.0 41.8 12.5 6.1 60.3 611.5 29.8 8.8 0.0 0.0 0.0 0.0 1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23	0 471.7	0.0	0.0	0.0				2.7		0.0				423.3	1960
1980 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 10.0 10.0 10.0 0.0 </td <td>0 601.8</td> <td>0.0</td> <td></td> <td>558.6</td> <td>1965</td>	0 601.8	0.0												558.6	1965
1980 1,026.7 2.9 108.3 13.0 1.9 123.2 131.9 7.6 0.0 0.0 0.0 0.0 0.0 10.0 10.0 10.0 0.0 </td <td>0 873.7</td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td>14.2</td> <td>5.1</td> <td>164.5</td> <td></td> <td>23.1</td> <td></td> <td>9.7</td> <td>680.2</td> <td>1970</td>	0 873.7	0.0					14.2	5.1	164.5		23.1		9.7	680.2	1970
1985 1,019.7 1.6 73.1 8.3 4.7 86.1 278.6 10.1 0.0 0.0 0.0 0.0 0.0 1990 1,054.7 14.0 41.8 12.5 6.1 60.3 611.5 29.8 8.8 0.0 0.0 0.0 0.0 1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5	1,138.3	0.0				0.0	16.4	1/4.8	84.5	0.0	19.9	64.6	1.2	861.4	1975
1990 1,054.7 14.0 41.8 12.5 6.1 60.3 611.5 29.8 8.8 0.0 0.0 0.0 0.0 1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.0 0.1 (0.0		0.0 0.0				0.0	7.6			1.9	13.0		2.9		1980
1995 1,062.4 40.6 30.4 8.1 7.9 46.4 698.3 20.9 27.7 0.0 0.0 0.0 0.0 1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.0		0.0				0.0	10.1		60.1	4.7	0.3			1,019.7	1000
1996 1,120.7 26.4 31.7 8.8 8.2 48.7 721.3 31.1 29.1 0.0 0.0 0.0 0.0 1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 0.0 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.0 0.1 0.0	1,779.2	0.0				0.0 27.7	29.0	608.3		7.0	12.5	41.0 20.4	14.0 40.6	1,054.7	1005
1997 1,149.0 21.0 23.0 6.1 7.9 37.1 710.0 23.0 29.0 0.0 0.0 0.0 0.0 1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 -6 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 0.0 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.0 0.1 0.0	7 1,978.1	0.7	0.0	0.0	0.0	20.1	20.9	721.3	40.4	8.2	8.8	30.4	26.4	1,002.4	1006
1998 1,160.6 31.1 35.4 9.1 8.0 52.5 641.5 24.3 30.9 0.0 0.0 0.0 -1 1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 -1 2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.1 (0.4				29.1	23.0		37.1	7.9		23.0			1990
1999 1,127.8 32.5 27.8 7.7 4.3 39.9 743.3 19.9 31.3 0.0 0.0 0.0 -4.2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.1 (6 1,940.3	-0.6	0.0			30.9	24.3		52.5	8.0		35.4		1 160 6	1998
2000 1,210.6 21.3 29.8 15.1 0.2 45.1 769.4 23.4 31.5 0.0 0.0 0.1 (1 1,994.6	-0.1	0.0	0.0	0.0	31.3	19.9	743.3	39.9	4.3	7.7	27.8	32.5	1.127.8	1999
2001 1.106.5 23.4 32.5 6.8 0.1 39.5 770.3 17.0 25.1 0.0 0.0 0.1	0 2,101.3	0.0	0.1		0.0	31.5	23.4		45.1	0.2		29.8	21.3	1,210.6	2000
	0 1,981.9	0.0	0.1	0.0	0.0	25.1	17.0	770.3	39.5	0.1	6.8	32.5	23.4	1,106.5	2001
2002 1,174.9 51.7 20.5 7.2 3.7 31.4 794.3 22.5 25.1 0.0 0.0 0.6 -(3 2,100.1	-0.3	0.6	0.0	0.0	25.1	22.5	794.3	31.4	3.7	7.2	20.5	51.7	1,174.9	2002
2003 1,170.4 42.8 36.6 7.8 5.1 49.5 774.9 34.3 24.6 0.0 0.0 1.1 -	3 2,097.4	-0.3								5.1	7.8		42.8		2003
2004 1,183.9 R 79.0 33.5 6.2 6.3 46.1 807.7 31.6 24.0 0.0 0.0 3.1	6 2,174.7	-0.6				24.0	31.6			6.3	6.2	33.5	R 79.0		2004
2005 1,224.9 83.5 44.4 7.4 3.2 55.0 796.1 22.3 25.0 0.0 0.0 2.8	0 2,208.7	-1.0	2.8	0.0		25.0	22.3	796.1		3.2	7.4	44.4	83.5	1,224.9	2005
2006 1,243.1 104.4 6.0 3.8 1.1 10.8 785.7 28.2 25.5 0.0 0.0 3.6	3 2,200.9	-0.3 0.2	3.6				28.2				3.8				
2007 1,241.6 148.3 9.5 4.9 0.0 14.4 811.5 22.1 26.4 0.0 0.0 4.6 (2 2,269.2	0.2	4.6	0.0	0.0	26.4	22.1	811.5	14.4	0.0	4.9	9.5	148.3	1,241.6	2007

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Rhode Island

						Petroleum				Musless	Uhadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	598	12	8,106	38	207	5,975	9,827	2,016	26,170	0	9					
1965 1970	419 10	16 25	6,879 8,631	49 137	223 375	6,492 8,009	6,276 9,727	2,126 1,954	22,045 28,833	0	2					
1975	7	23	8,003	271	498	8,972	4,389	1,990	24,122	0	3					
1980	7	28	5,032	348	293	8,416	2,525	2,065	18,680	0	1					
1985 1990	9 5	30 39	4,940 5,285	498 776	501 501	8,665 8.765	2,232 1,424	3,387 1,923	20,223 18,674	0	10					
1995	3	101	5,839	500	461	8,927	936	1,220	17,882	0	9					
1996	3	120	6,008	540	536	9,006	984	573	17,647	0	10					
1997 1998	3 2	118 131	6,705 5,578	828 R 920	422 481	9,195 9,391	904 683	546 596	18,599 R 17,649	0	8 9					
1999	2	118	5,465	1,057	506	9,593	641	614	17,876	0	6					
2000	2	88	5.459	1,283	447	9,468	681	478	17.815	0	5					
2001 2002	2	96 88	5,750 5,678	1,304 1,286	431 560	9,617 9,452	633 610	547 448	18,283 18,034	0	3					
2002	4	78	6,390	1,056	473	9,474	683	543	18,620	0	6					
2004	3	73	6,515	1,035	360	9,108	671	393	18,082	0	5					
2005 2006	3 2	81 77	6,177 5,329	825 593	433 416	9,216 9,854	727 478	569 526	17,947 17,195	0	7					
2007	1	88	5,780	335	417	9,730	411	191	16,863	0	4					
								Trillion Btu								
1960 1965	16.8 11.5	12.3 17.0	47.2 40.1	0.2 0.3	0.8 0.9	31.4 34.1	61.8 39.5	12.2 13.0	153.7 127.8	0.0 0.0	0.1 (s)	2.9 3.5	0.0 0.0	1.5 14.0	0.0 0.0	187.1 173.8
1970	0.2	25.6	50.3	0.8	1.4	42.1	61.2	11.9	167.6	0.0	(S)	5.2	0.0	24.3	0.0	223.0
1975	0.1	23.5	46.6	1.5	1.8	47.1	27.6	12.4	137.1	0.0	(s)	4.0	0.0	41.8	0.0	206.6
1980 1985	0.2 0.2	R 28.2 R 30.9	29.3 28.8	2.0 2.8	1.1 1.8	44.2 45.5	15.9 14.0	12.5 22.1	104.9 115.0	0.0	(s) 0.0	7.3	0.0	47.6 52.6	-0.3 1.3	187.9 205.1
1990	0.2	R 40.5	30.8	2.0 4.4	1.8	45.5 46.0	9.0	12.5	104.5	0.0 0.0	0.0	5.1 4.4	0.0 (s)	52.6 59.8	0.1	209.4
1995	0.1	103.5	34.0	2.8	1.7	46.6	5.9	7.9	98.9	0.0	0.1	4.9	(s)	31.5	4.3	243.3
1996	0.1	R 127.2	35.0	3.1	1.9	47.0	6.2	3.6	96.7	0.0	0.1	5.4	(s) (s)	3.4	4.5	237.4
1997 1998	0.1 0.1	120.5 134.0	39.1 32.5	4.7 5.2	1.5 1.7	47.9 48.9	5.7 4.3	3.4 3.7	102.3 96.4	0.0 0.0	0.1 0.1	4.2 4.1	(S) (S)	5.0 7.6	5.8 6.0	238.0 248.3
1999	(s)	120.7	31.8	6.0	1.8	50.0	4.0	3.8	97.5	0.0	0.1	4.4	(s)	16.2	6.6	245.5
2000	0.1	91.8	31.8	7.3	1.6	49.3	4.3	2.9	97.2	0.0	(s)	4.5	(s)	24.6	5.4	223.6
2001 2002	0.1 0.1	98.6 90.5	33.5 33.1	7.4 7.3	1.6 2.0	50.1 49.2	4.0 3.8	3.3 2.7	99.9 98.2	0.0 0.0	(s) (s)	3.8 3.6	(s) (s)	16.9 25.8	2.6 1.1	221.9 219.4
2003	0.1	80.5	37.2	6.0	1.7	49.3	4.3	3.4	102.0	0.0	0.1	3.7	(s)	40.6	0.4	227.3
2004	0.1	74.6	38.0	5.9	1.3	47.5	4.2	2.4	99.3	0.0	0.1	3.8	(s)	47.3	1.0	226.1
2005 2006	0.1 R (s)	83.7 79.8	36.0 31.0	4.7 3.4	1.6 1.5	48.1 51.4	4.6 3.0	3.6 3.3	98.5 93.6	0.0 0.0	0.1 0.1	R 1.8 R 3.4	(s)	41.3 37.3	1.2 1.1	R 226.5 R 215.4
2007	(S)	90.8	33.7	1.9	1.5	50.8	2.6	3.3 1.1	91.5	0.0	(s)	3.7	(s) (s)	30.0	1.4	217.6

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Rhode Island

				Petro	leum		Biomass			D 4 7			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses ⁹	Total d,f
1960	12	7	5,507	770	149	6,426	52			620			
1965	7	9	4.828	534	134	5,496	46			871			
1970	4	12	5,835	335	158	6,328	58			1,390			
1975	1	13	5,395	87	148	5,629	64			1,684			
1980 1985	1	14 15	3,297 3,818	54	115 279	3,466 4,227	355 248			1,840 1,971			
1985	1	18	3,035	131 38	279 277	3,349	152			2,376			
1995	(e)	17	3,466	27	283	3,775	164			2,472			
1996	(s) (s)	19	3,479	30	354	3,864	171			2,481			
1997	(s)	18	3,607	34	318	3.960	122			2,486			
1998	(s)	16	3,265	41	372	3,678	108			2,522			
1999	(s)	17	3.161	49	261	3.471	114			2,667			
2000	(s)	19	3,262	65	278	3,604	123			2,664			
2001	(s)	18	3.562	69	243	3.874	96			2.699			
2002	(s) (s)	18	3,355	34	298	3,687	98			2,829			
2003	1	20	3,705	46	306	4,058	103			2,998			
2004	(s) (s)	19	3,892	50	236	4,178	105 R 73			3,000			
2005	(s)	19	3,733	59	244 R 216	4,036 R 3,125	R 73 R 66			3,171			
2006	(s)	17	2,870 2,963	40	1, 216	1 3,125				3,008			
2007	(s)	18	2,963	16	253	3,232	73			3,132			
						Ti	rillion Btu						
1960	0.3	6.9	32.1	4.4	0.6	37.0	1.0	0.0	0.0	2.1	47.5	5.2	52.7
1965	0.2	9.3	28.1	3.0	0.5	31.7	0.9	0.0	0.0	3.0	45.1	7.1	52.2
1970	0.1	12.2	34.0	1.9	0.6	36.5	1.2	0.0	0.0	4.7	54.7	11.5	66.2
1975	(s) (s) (s)	13.2	31.4	0.5	0.5	32.5	1.3	0.0	0.0	5.7	52.7	13.8	66.6
1980	(S)	R 14.3 R 15.5	19.2 22.2	0.3 0.7	0.4 1.0	19.9	7.1 5.0	0.0	0.0	6.3	47.4 51.1	15.1	62.6
1985 1990	(S)	18.2	22.2 17.7	0.7	1.0	24.0 18.9	3.0	0.0 0.0	0.0	6.7 8.1	48.3	15.5	66.6 67.0
1995	(s)	17.8	20.2	0.2 0.2	1.0	21.4	3.3	0.0	(s) (s)	8.4	51.0	18.7 19.2	70.1
1996	(s) (s) (s)	20.7	20.2	0.2	1.3	21.7	3.4	0.0	(s)	8.5	54.4	19.2	73.6
1997	(s)	18.8	21.0	0.2	1.1	22.4	2.4	0.0	(s)	8.5	52.1	19.2	71.4
1998		16.9	19.0	0.2	1.3	20.6	2.2	0.0	(s)	8.6	48.3	19.5	67.8
1998 1999	(s) (s)	16.9 17.1	19.0 18.4	0.2 0.3	1.3 0.9	20.6 19.6	2.2 2.3	(s)	(s)	9.1	48.3 48.2	19.5 20.8	69.0
2000	(s)	19.5	19.0	0.4	1.0	20.4	2.5	(s)	(s)	9.1	51.5	20.7	72.2
2001	(s)	18.5	20.8	0.4	0.9	22.0	1.9 2.0			9.2	51.7	20.5	72.2
2002	(s) (s)	18.4	19.5	0.2	1.1	20.8	2.0	(s) (s)	(s) (s)	9.7	50.9	21.5	72.4
2003	(s)	20.8	21.6	0.3	1.1	23.0	2.1	(s)	(s)	10.2	56.1	22.6	78.7
2004	(s)	20.1	22.7	0.3	0.9	23.8	2.1 R 1.5	(s)	(s)	10.2	56.3	22.7	78.9
2005	(s)	20.1	21.7	0.3	0.9	23.0	T 1.5	(s)	(s)	10.8	56.3 R 55.4 R 47.2	23.7	78.9 R 79.1 R 69.4
2006	(s) (s) (s) (s)	17.8	16.7	0.2	0.8	17.7	R 1.3	(s)	(s)	10.3	^ 4/.2	22.2	^ 69.4
2007	(S)	18.4	17.3	0.1	0.9	18.3	1.5	(s)	(s)	10.7	48.9	23.1	71.9

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Rhode Island

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total ^{f,h}
1960	8	2	1,381	17	26	26	1,237	2,688	0			376			
1965 1970	6	3 5	1,211 1,464	12 7	24 28	32 36	634 971	1,913 2,506	0			546 1,285			
1975	3	4	1,353	2	26	41	602	2,024	0			1,576			
1980	2	7	617	0	20	49	180	866	ŏ			1,892			
1985	4	8	493	4	49	32	552	1,130	0			2,159			
1990	4	8	799	2	49	39	597	1,486	0			2,688			
1995	3	12	741	30	50	10	499	1,330	0			2,790			
1996 1997	3	12 12	808 742	2 55	63 56	10 11	667 608	1,550 1,473	0			2,773 2,872			
1997	2	11	620	67	66	10	388	1,473	0			2,908			
1999	1	12	509	40	46	10	371	976	ő			3,324			
2000	2	13	629	19	49	10	419	1,125	0			3,243			
2001	2	13	630	98	43	43	429	1,243	0			3,308			
2002	3	11	662	55	53	59	360	1,189	0			3,401			
2003 2004	3 3	11	980 859	5 7	54 42	59	373 395	1,471 1,315	0			3,490 3,542			
2004	3	11 11	686	9	42	12 12	437	1,315	0			3,542 3,628			
2006	2	10	609	10	R 38	10	256	924	0			3,599			
2007	1	11	688	1	45	10	234	977	Ö			3,710			
								Trillion Btu							
1960	0.2	1.8	8.0	0.1	0.1	0.1	7.8	16.2	0.0	(s)	0.0	1.3	19.4	3.2	22.6
1965	0.1	2.7	7.1	0.1	0.1	0.2	4.0	11.4	0.0	(s)	0.0	1.9	16.1	4.4	20.5
1970 1975	0.1 0.1	5.2 4.3	8.5 7.9	(s)	0.1 0.1	0.2 0.2	6.1 3.8	15.0 12.0	0.0 0.0	(s)	0.0 0.0	4.4 5.4	24.6 21.7	10.6 12.9	35.2 34.7
1980	0.1	R 6.9	3.6	(s) 0.0	0.1	0.3	3.6 1.1	5.1	0.0	(s) 0.2	0.0	6.5	18.6	15.6	34.1
1985	0.1	7.8	2.9	(s)	0.2	0.2	3.5	6.7	0.0	0.1	0.0	7.4	22.1	17.0	39.1
1990	0.1	8.3	4.7	(s)	0.2	0.2	3.8	8.8	0.0	0.3	0.0	9.2	26.7	21.2	47.9
1995	0.1	12.4	4.3	0.2	0.2	0.1	3.1	7.9	0.0	0.5 0.5	0.0	9.5	30.3	21.6	51.9 54.2
1996	0.1	13.5	4.7	(s)	0.2	0.1	4.2	9.2	0.0	0.5	0.0	9.5	32.7	21.5	54.2
1997	0.1	12.7	4.3	0.3	0.2	0.1	3.8	8.7	0.0	0.4	0.0	9.8	31.7	22.2	53.9
1998 1999	0.1	11.8 12.2	3.6 3.0	0.4 0.2	0.2 0.2	0.1 (s)	2.4 2.3	6.7 5.7	0.0 0.0	0.4 0.4	0.0 0.0	9.9 11.3	28.8 29.7	22.5 25.9	51.3 55.6
2000	(s) (s)	13.6	3.7	0.2	0.2	0.1	2.5	6.6	0.0	0.4	0.0	11.3	31.7	25.9	56.9
2001	(s)	13.2	3.7	0.6	0.2	0.2	2.7	7.3	0.0	0.3	0.0	11.3	32.2	25.2	57.3
2002	0.1	12.1	3.9	0.3	0.2	0.3	2.3	6.9	0.0	0.3	0.0	11.6	31.0	25.9	56.9
2003	0.1	11.7	5.7	(s)	0.2	0.3	2.3	8.6	0.0	0.4	0.0	11.9	32.7	26.3	59.0
2004	0.1	11.7	5.0	(s)	0.2	0.1	2.5	7.7	0.0	0.4	0.0	12.1	31.9	26.7	58.6
2005	0.1	11.6	4.0	0.1	0.2	0.1	2.7	7.0	0.0	R 0.2 R 0.2	0.0	12.4	R 31.3 R 28.4	27.1	R 58.4 R 55.0
2006 2007	(s) (s)	10.5 11.7	3.5 4.0	0.1 (s)	0.1 0.2	0.1 0.1	1.6 1.5	5.4 5.7	0.0 0.0	0.2	0.0 0.0	12.3 12.7	30.3	26.6 27.3	1 55.0 57.6
2001	(5)	11.7	4.0	(5)	0.2	0.1	1.0	5.7	0.0	0.2	0.0	12.7	30.3	21.0	31.0

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Rhode Island

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses i	Total f,h
1960	4	3	367	31	6	4,051	1,107	5,561	.1			916			
1965 1970	4 2	4	431 672	61 162	5 3		1,449 1,388	4,082 5,470	(s) 0			1,274 1,253			
1975	2	6	440	297	3	1,916	1,559	4,215	0						
1980	4	5	415	149	2	654	1,672	2,892	ŏ			1,399			
1985	4	5	275	150	26	973	3,158	4.584	0			1,300			
1990	(s)	4	279	156		453	1,770	2,692	0			1,354			
1995	Ó	35	280	119	54	372	1,072	1,898	0			1,374			
1996 1997	0		294 342	112 38		315 295	437 375	1,204 1,102	0			1,351 1,386			
1998	0		249	43	45	294	405	1,102	0			1,458			
1999	ő	35	235	197	24	266	440	1,161	ŏ			1,158			
2000	0		165	118	33	257	308	881	0			1,394			
2001	0		120	144	82	204	299	849	0			1,386			
2002	0		151	207	104	249	286	998	0			1,331			
2003 2004	0		236 251	104 75	104 104	310 276	423 263	1,177 968	0			1,309 1,345			
2004	0		204	140	105	291	427	1 167	0			1,250			
2006	Ö		216	R 157	115	217	394	1,167 R 1,099	Ö			1,191			
2007	0	7	164	117	154	175	90	700	0			1,171			
							Tri	illion Btu							
1960	0.1	3.0	2.1	0.1	(s)	25.5	7.1	34.8	(s) (s)	1.8	0.0		42.8	7.7	50.5
1965	0.1	4.4	2.5	0.2		13.4	9.1	25.3	(s)	2.6	0.0		36.8	10.4	47.2
1970 1975	(s) 0.1	5.9 5.9	3.9 2.6	0.6 1.1		20.4 12.0	8.8 10.1	33.7 25.9	0.0	4.0 2.7	0.0 0.0		47.9 38.6	10.3 9.8	58.3 48.4
1975	0.1	R 5.2	2.4	0.5	(s) (s)	4.1	10.1	25.9 17.5	0.0	0.0	0.0		27.5	11.5	39.0
1985	0.1	4.8	1.6	0.5		6.1	20.8	29.2	0.0	0.0	0.0		38.5	10.2	48.7
1990	(s)	4.5	1.6	0.6	0.2	2.8	11.6	16.8	0.0	0.0	0.0	4.6	25.9	10.7	36.6
1995	0.0	36.0	1.6	0.4	0.3	2.3	7.1	11.7	0.0	0.2	0.0	4.7	52.6	10.6	63.3
1996	0.0	28.4	1.7	0.4	0.2		2.8	7.2	0.0	0.3	0.0		40.4	10.5	50.9
1997	0.0	R 25.4	2.0	0.1	0.3 0.2	1.9 1.8	2.4	6.7	0.0	0.3 0.2	0.0 0.0		37.0	10.7	47.7 66.2
1998 1999	0.0 0.0	43.4 35.6	1.4 1.4	0.2 0.7	0.2	1.8	2.6 2.8	6.3 6.7	0.0	0.2	0.0		54.9 46.4	11.3 9.0	55.5
2000	0.0	8.4	1.0	0.7	0.1	1.6	2.0	5.1	0.0	0.3	0.0		18.5	10.8	29.3
2001	0.0	6.3	0.7	0.5		1.3	1.9	4.8	0.0	0.2	0.0		16.1	10.5	26.6
2002	0.0	4.7	0.9	0.7	0.5	1.6	1.8	5.5	0.0	0.1	0.0	4.5	14.8	10.1	25.0
2003	0.0	4.6	1.4	0.4	0.5	2.0	2.7	7.0	0.0	0.1	0.0		16.1	9.9	25.9
2004	0.0	5.7	1.5	0.3		1.7	1.7	5.7	0.0	0.1	0.0		16.1	10.2	26.2
2005	0.0	6.2	1.2	0.5	0.5	1.8	2.8	6.8	0.0	0.1	0.0		17.4	9.3	26.7
2006 2007	0.0 0.0	6.8 7.0	1.3 1.0	0.6 0.4		1.4 1.1	2.5 0.5	6.3 3.8	0.0 0.0	0.1 0.1	0.0 0.0		17.2 14.9	8.8 8.6	26.0 23.5
	0.0	7.0	1.0	0.4	0.0	1.1	0.0	0.0	0.0	0.1	0.0	4.0	14.0	0.0	25.5

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Rhode Island

						Per	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total ^{e,f}
1960 1965	(s)	(s)	19	838	38	1	103	5,943	3,826	10,768	0	0			
1965	(s)	(s)	63	393	49	4	69	6,455	2,637	9,669	0	0			
1970 1975	(s) (s)	(s) (s)	148 285	604 788	137 271	28 27	77 57	7,970 8,929	2,519 329	11,482 10,685	0	0			
1980	(5)	(s)	269	675	348	9	70	8,365	58	9.794	0	0			
1985	Ö	(s)	30	334	498	22	64	8,606	58 0	9,554	0	Ō			
1990	0	(s)	42 22	1,154	776	19	72	8,692	34	10,789	0	0			
1995 1996	0	1	22 37	1,328 1,290	500 540	8	68 66	8,864 8,950	2 2	10,792 10,892	0	0			
1996	0	1	11	1,290	828	9	70	9,133	<u> </u>	10,892	0	0			
1998	0	(s)	9	1,397	R 920	1	73	9,337	i	11,993 R 11,738	0	0			
1999	0	(s)	11	1,517	1,057	3	74	9,559	3	12.224	0	0			
2000	0	(s)	13	1,364	1,283	2	73	9,425	5	12,165	0	0			
2001 2002	0	(s) (s)	14 7	1,395 1,477	1,304 1,286	1 2	67 66	9,491 9,289	0	12,273 12,127	0 10	0			
2002	0	(S)	7	1,440	1,056	9	61	9,312	0	11,884	10	0			
2004	Ö	(s)	12	1,491	1,035	7	62	8,993	Ö	11,599	196	Ö			
2005	0	`1	12	1,527	825	6	62	9,100	0	11,531	R 295 R 790	0			
2006	0	1	22	1,609	593	5	60	9,729	4 2	12,022	K 790	0			
2007	0	1	22	1,930	335	3	62	9,565		11,919	1,016	0			
								Trillion Btu							
1960	(s)	0.2	0.1	4.9 2.3	0.2	(s)	0.6	31.2	24.1	61.1	0.0	0.0	61.3	0.0	61.3
1965	(s)	0.1	0.3	2.3	0.3	(s) (s) 0.1	0.4	33.9	16.6	53.8	0.0	0.0	53.9	0.0	53.9
1970 1975	(s)	(s)	0.7 1.4	3.5 4.6	0.8 1.5	0.1	0.5 0.3	41.9 46.9	15.8 2.1	63.3 57.0	0.0 0.0	0.0 0.0	63.3 57.0	0.0 0.0	63.3 57.0
1980	(s) 0.0	(s) 0.2	1.4	3.9	2.0		0.3	43.9	0.4	52.0	0.0	0.0	52.2	0.0	52.2
1985	0.0	0.1	0.2	1.9 6.7	2.8	(s) 0.1	0.4	45.2	0.0	50.6	0.0	0.0	50.7	0.0	50.7
1990	0.0	0.1	0.2	6.7	4.4	0.1	0.4	45.7	0.2	57.7	0.0	0.0	57.8	0.0	57.8
1995	0.0	0.6	0.1	7.7	2.8	(s) (s)	0.4	46.2	(s)	57.4	0.0	0.0	58.0	0.0	58.0
1996 1997	0.0 0.0	0.8 0.9	0.2 0.1	7.5 11.3	3.1		0.4 0.4	46.7 47.6	(s)	57.9 64.1	0.0 0.0	0.0 0.0	58.7 65.0	0.0 0.0	58.7 65.0
1997	0.0	0.9	(s)	8.1	4.7 5.2	(s) (s)	0.4	47.6 48.7	(s) (s)	62.5	0.0	0.0	62.9	0.0	62.9
1999	0.0	0.4	0.1	8.8	6.0	(s)	0.4	49.8	(s)	65.2	0.0	0.0	65.5	0.0	65.5
2000	0.0	0.3	0.1	7.9	7.3	(s)	0.4	49.1	(s)	64.9	0.0	0.0	65.2	0.0	65.2
2001	0.0	0.3	0.1	8.1	7.4	(s)	0.4	49.4	0.0	65.5	0.0	0.0	65.8	0.0	65.8
2002	0.0	0.4	(s) (s)	8.6	7.3	(s)	0.4	48.4	0.0	64.7	(s)	0.0	65.1	0.0	65.1
2003 2004	0.0 0.0	0.4 0.4	(s) 0.1	8.4 8.7	6.0 5.9	(s) (s)	0.4 0.4	48.5 46.9	0.0 0.0	63.3 61.9	(s) 0.7	0.0 0.0	63.7 62.3	0.0 0.0	63.7 62.3
2004	0.0	0.4	0.1	8.9	4.7	(S)	0.4	47.5	0.0	61.5	R 1.0	0.0	62.4	0.0	62.4
2006	0.0	1.0	0.1	9.4 11.2	3.4	(s)	0.4	50.8	(s) (s)	64.0	R 2.8	0.0	65.0	0.0	65.0
2007	0.0	1.0	0.1	11.2	1.9	(s)	0.4	49.9	(s)	63.6	3.6	0.0	64.6	0.0	64.6

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Rhode Island

Year 1960 1965	Coal Thousand Short Tons	Natural Gas ^a	Residual Fuel Oil ^b	Distillate				1						
			ruei Oii •	Fuel Oil C	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	Waad	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
1960 1965		Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1965	574	(s)	714	13	0	727	0	8		0	0	0	0	
1000	574 403	(s) (s) 2	714 870	13 16	0	727 886	0	1		0	0	0	0	
1970 1975	0	2	2,990	56 26	0	3,047 1,568	0	3		0	0	0	0	
1975	0	(s) 2	1,542 1,634	26 28	0	1,568	0	3		0	0	0	0	
1985	0	3	708	20	0	728	0	0		0	0	0	421	
1990	Ö	9	340	19	Ö	358	Ö	10		Ö	Ö	Ő	37	
1995	0	36	63	24 137	0	.87	0	9		0	0	0	1,276	
1996 1997	0	62	0	137	0	137	0	10 8		0	0	0	1,325 1,699	
1997	0 0	62 60	0	72 47	0	72 47	0	9		0 0	0	0	1,699	
1999	0	55	0	43	0	43	0	6		0	0	0	1,739	
2000	Ö	48	Ö	43 39 43 31	Ö	39	Ö	5		Ő	Ŏ	Õ	1.585	
2001 2002	0	58 54	0	43	0	43	0	3		0	0	0	766 326	
2002	0	54	0	31	0	31	0	4		0	0	0	326	
2003 2004	0	42 36	0	29	0	29 22	0	6 5		0	0	0	106 302	
2004	0	36 44	0	22 27	0	22 27	0	5 7		0	0	0	347	
2006	ő	43	0	25 35	ő	25	ő	6		Ő	Ő	0	320	
2007	0	51	0	35	0	25 35	0	4		0	0	0	415	
							Trillion E	Btu						
1960 1965	16.1	0.4	4.5	0.1	0.0	4.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.2
1905	11.1 0.0	0.5 2.4	5.5 18.8	0.1 0.3	0.0 0.0	5.6 19.1	0.0 0.0	(s) (s)	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	17.1 21.5
1970 1975 1980	0.0	(s)	9.7	0.3	0.0	9.8	0.0	(s)	0.0	0.0	0.0	0.0	0.0	9.9
1980	0.0	(s) 1.7	10.3	0.2	0.0	10.4	0.0	(s)	0.0	0.0	0.0	0.0	0.0	12.2
1985 1990	0.0	2.6	4 4	0.1	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.6
1990	0.0	9.3	2.1	0.1	0.0	2.2	0.0	0.1	1.0	0.0	0.0	0.0	0.1	12.8
1995 1996	0.0 0.0	36.6 63.8	0.4 0.0	0.1 0.8	0.0 0.0	0.5 0.8	0.0 0.0	0.1 0.1	1.0 1.2	0.0 0.0	0.0 0.0	0.0 0.0	4.4 4.5 5.8	42.6
1990	0.0	62.7	0.0	0.8	0.0	0.6	0.0	0.1	1.2	0.0	0.0	0.0	4.5 5.8	70.4 R 70.2
1997 1998	0.0	61.5	0.0	0.4	0.0	0.3	0.0	0.1	1.3	0.0	0.0	0.0	6.0	69.2
1999	0.0	55.6	0.0	0.3	0.0	0.3	0.0	0.1	1.3 R 1.5	0.0	0.0	0.0	6.6	64.0
2000	0.0	49.9	0.0	0.2	0.0	0.2	0.0	(s)	1.4	0.0	0.0	0.0	5.4	57.0
2001	0.0	60.3	0.0	0.2 0.2	0.0	0.2	0.0	(s)	1.3 1.3	0.0	0.0	0.0	2.6	64.5
2002 2003	0.0	55.0 42.9	0.0	0.2 0.2	0.0	0.2	0.0	(s)	1.3	0.0	0.0	0.0	1.1	57.5
2003	0.0 0.0	42.9 36.7	0.0 0.0	0.2 0.1	0.0 0.0	0.2 0.1	0.0 0.0	0.1 0.1	1.2 1.2	0.0 0.0	0.0 0.0	0.0 0.0	0.4 1.0	44.7 39.2
2004	0.0	44.8	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	1.0	46.3
2006	0.0	43.8	0.0	0.1	0.0	0.1	0.0	0.1	1.8	0.0	0.0	0.0	1.1	46.9
2007	0.0	52.7	0.0	0.2	0.0	0.2	0.0	(s)	1.9	0.0	0.0	0.0	1.4	56.3

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, South Carolina

						Petroleum				Nortee	II. dec	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	3,719	59 87	5,234	3,131	1,376	18,094	4,732	7,095	39,661	0	3,611					
1965 1970	4,760 5,817	160	4,849 9,423	2,958 3,170	2,097 2,927	21,430 28,756	3,916 5,335	6,094 5,724	41,344 55,335	75 7	3,517 2,293					
1975	5,842	123	8,376	2,692	3,204	35,429	7,666	5,048	62,415	19,458	4,413					
1980	9,929	142	10,660	3,062	3,178	35,517	7,205	7,462	67,083	17,404	3,025					
1985 1990	10,479 11,447	97 130	12,256 14.866	3,184 2,939	3,161 2,914	37,719 43,264	2,921 2,416	7,035 8,274	66,274 74,674	31,826 42.881	1,835 3,298					
1995	12,279	152	14,501	1,027	3,826	46,973	2,649	10,648	79,624	49,173	3,457					
1996	13,852	150	15,174	1,292	3,666	47,427	2,984	5,959	76,502	43,571	3,041					
1997 1998	14,109 14,649	154 159	15,815 18,227	1,328 R _{1,438}	6,150 4,601	49,468 51,216	2,590 2,212	6,939 7,163	82,291 R 84,856	44,916 48,759	2,958 3,569					
1999	15,764	163	18,271	1,536	3,858	52,774	1,757	7,360	85,555	50,814	1,687					
2000	16,946	160	18,879	1,861	5,038	53,040	2 324	7,354	88,496	50,888	1,533					
2001 2002	16,421 16,263	142 185	19,389 19,240	1,851 1,548	3,563 3,362	53,822 55,222	2,178 2,079	14,278 13,466	95,080 94,917	49,870 53,326	1,225 1,390					
2002	16,697	147	18,968	1,459	3,152	55,935	3,816	14,044	97,373	50,418	3,665					
2004	17,351	164	22,074	1,656	3,117	61,691	5,540	18,193	112,271	51,201	2,447					
2005 2006	17,296 17,288	172 175	21,547 21,812	1,609 1,805	3,607 3,243	59,302 61,779	5,039 3,589	16,951 16,980	108,054 109,208	53,138 50,797	2,938 1,807					
2007	17,791	174	21,880	1,881	2,858	61,328	3,226	14,985	106,157	53,200	1,556					
								Trillion Btu								
1960 1965	96.4 121.5	60.6 90.5	30.5 28.2	16.8 15.8	5.5 8.4	95.0 112.6	29.7 24.6	41.9 36.1	219.5 225.8	0.0 0.9	38.8 36.8	43.1 40.6	0.0 0.0	31.1 39.7	0.0 0.0	489.5 555.7
1970	140.1	164.3	54.9	17.1	11.1	151.1	33.5	34.5	302.2	0.9	24.1	41.0	0.0	75.8	0.0	747.6
1975	140.2	125.9	48.8	14.5	11.9	186.1	48.2	31.0	340.5	214.3	45.9	41.9	0.0	-64.0	0.0	844.6
1980 1985	245.8 262.7	R 146.9 R 100.2	62.1 71.4	16.6 17.2	11.7 11.4	186.6 198.1	45.3 18.4	43.5 41.0	365.8 357.5	189.8 338.1	31.4 19.2	39.8 47.4	0.0 0.0	-6.0 -35.1	-0.1 -0.1	1,013.4 1,089.8
1990	289.2	134.1	86.6	16.0	10.6	227.3	15.2	48.7	404.3	453.8	34.3	71.7	0.0	-98.0	0.5	1,290.1
1995	314.5	156.0	84.5	5.8	13.9	245.0	16.7	61.9	427.7	516.7	35.7	88.9	0.1	-93.3	-0.1	1,446.2
1996	352.6	R 154.1	88.4	7.3	13.2	247.4	18.8	36.6	411.7	457.6	31.4	100.2	0.1	-44.6	-0.2	1,463.0
1997 1998	361.4 373.4	158.7 164.9	92.1 106.2	7.5 R 8.2	22.2 16.6	257.9 266.9	16.3 13.9	43.3 43.9	439.4 455.7	471.3 511.5	30.2 36.4	101.6 93.4	0.1 0.1	-54.3 -77.5	(s) (s)	1,508.5 1,557.9
1999	402.2	168.0	106.4	8.7	13.9	275.0	11.0	44.9	460.0	531.0	17.3	79.7	0.2	-91.3	(s)	1,567.0
2000	432.2	R 165.1	110.0	10.6	18.2	276.3	14.6	45.5	475.1	530.7	15.6	76.8	0.2	-81.2	-0.1	1,614.5
2001 2002	414.5 404.5	147.2 184.8	112.9 112.1	10.5 8.8	12.9 12.1	280.4 287.6	13.7 13.1	83.1 78.1	513.5 511.7	521.0 556.7	12.7 14.1	57.7 66.3	0.2 0.2	-84.9 -107.5	(s) (s)	1,581.9 1,630.8
2003	419.7	146.6	110.5	8.3	11.4	291.3	24.0	81.6	527.0	525.4	37.5	66.4	0.2	-107.3	(s)	1,617.9
2004	433.9	163.8	128.6	9.4	11.3	321.7	34.8	106.5	612.3	533.9	24.5	72.7	0.3	-112.4	(s)	R 1 728 9
2005 2006	431.1 432.2	R 178.6 181.4	125.5 127.1	9.1 10.2	13.1 11.7	309.4 322.4	31.7 22.6	99.5 100.1	588.3 594.0	554.5 530.0	29.4 17.9	R 77.6 R 81.6	0.3 0.3	-151.0 -129.0	-0.1 -0.1	R 1,708.6 R 1,708.5
2006	432.2 444.0	180.3	127.1	10.2	10.3	322.4 320.1	20.3	87.8	576.5	558.0	17.9	80.6	0.3	-129.0	-0.1 (s)	1,692.3

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Carolina

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	197	7	1,595	3,475	926	5,996 5,203	1,269			3,272			
1965	130	12	1.178	2.606	1,419	5,203	852			4,371			
1970	138	19	2,400	2,011	1,778	6,188	489			7,347			
1975	72	18	1,695	858	1,750	4,304 4,290	492			9,837			
1980 1985	41 14	19 16	1,580 1,287	1,200	1,510 1,859	4,290 4,357	587 729			12,580 14,661			
1990	14	18	1,207	1,211 550	1,682	3,431	296			18,258			
1995	2	25	692	470	2 106	3 268	446			21,392			
1995 1996	2 2	29	712	561	2,106 1,951	3,268 3,225	463			22.514			
1997	(s) 3	25 29 26	535	610	1.988	3,133 2,838	363			21,611 23,558			
1998	3	25 26	475	680	1,683	2,838	323			23,558			
1999	28	26	503	553	1,980 2,277	3.035	340			23.699			
2000	0	29 27	482	514	2,277	3,273	365			25,270			
2001 2002	0	27 28	419 386	498 291	1,501 1,922	2,418 2,599	240 243			24,875 26,787			
2002	(s) 0	20 29	432	377	1,932	2,399	243 256			26,422			
2003	0	29	288	544	2,107	2,741 2,939	263			27,910			
2005	Ô	29	241	476	2.041	2,758	R 322			28.676			
2006	R 8	29 25	211	362	2,041 R 1,747	2,758 R 2,320	263 R 322 R 293			28,539			
2007	(s)	24	172	192	1,711	2,075	323			29,569			
						T	rillion Btu						
1960	4.9 3.2 3.3	7.1	9.3	19.7	3.7 5.7	32.7	25.4 17.0	0.0	0.0	11.2	81.2	27.6	108.8
1965	3.2	12.4	6.9	14.8	5.7	27.3	17.0	0.0	0.0	14.9	74.9	35.6	110.5
1970 1975	3.3	19.5	14.0	11.4	6.7	32.1	9.8	0.0	0.0	25.1	89.7	60.7	150.4 165.7
1975 1980	1.7 1.0	18.6 19.5	9.9	4.9 6.8	6.5	21.2 21.6	9.8 11.7	0.0 0.0	0.0 0.0	33.6 42.9	85.0 96.7	80.7 103.5	165.7 200.2
1985	0.4	16.9	9.2 7.5	6.9	5.5 6.7	21.1	14.6	0.0	0.0	50.0	102.9	115.2	218.1
1900	(s)	18.9	7.0	3.1	6.7	16.2	5.9	0.0	(s)	62.3	102.9	144.1	247.5
1990 1995	(s) 0.1	18.9 25.8	4.0	3.1 2.7	6.1 7.6	16.2 14.3	5.9 8.9	0.1	(s) (s) (s)	73.0	103.4 122.2	165.8	288.0
1996	0.1	30.3	4.1	3.2 3.5	7.1	14.4	9.3 7.3	0.1	(s)	76.8	130.9	174.7	305.6
1997	(s)	26.5	4.1 3.1	3.5	7.1 7.2	13.8	7.3	0.1	(s)	73.7	121.5	167.1	288.5
1998 1999	0.1 0.7	26.3 26.4	2.8 2.9	3.9 3.1	6.1 7.2	12.7 13.2	6.5 6.8	0.1 0.1	(s)	80.4	126.0	182.3	308.3 313.1
1999	0.7	26.4	2.9	3.1	7.2	13.2	6.8	0.1	(s)	80.9	128.2	185.0	313.1
2000	0.0	29.9	2.8	2.9	8.2	13.9	7.3	0.1	(s)	86.2	137.5	196.1	333.6
2001	0.0	28.5	2.4 2.3	2.8 1.6	5.4	10.7	4.8	0.2 0.2	(s)	84.9	129.1	189.1	318.2 338.5
2002 2003	(s) 0.0	27.4 29.1	2.3	1.6 2.1	6.9 7.0	10.8 11.7	4.9 5.1	0.2 0.2	(s)	91.4 90.2	134.7 136.2	203.7 198.9	338.5 335.2
2003	0.0	_ 29.1	2.5 1.7	3.1	7.0 7.6	12.4	5.1 5.3	0.2	(s) (s)	90.2 95.2	130.2	210.7	350.2 352.0
2005	0.0	R 29.7	1.4	2.7	7.4	_11.5	R 6.4	0.2	(s)	97.8	R 145.7	214.0	R 359.7
2006	0.2	25.8	1.2	2.1	7.4 R 6.3	R 9.6	5.3 R 6.4 R 5.9	0.3	(s)	97.4	142.2 R 145.7 R 139.1	210.6	R 349.7
2007	(s)	25.4	1.0	1.1	6.1	8.2	6.5	0.4	(s)	100.9	141.3	217.7	352.9 R 359.7 R 349.7 359.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Carolina

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Wood		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	137	5	474	93	163	275	176	1,182	0			1,957			
1965	98	7	350	70	250	301	121 80	1,092	0			2,531 4,237			
1970	108	14	714	54	314	204	80	1,366	0			4,237			
1975	169	17	504	23	309	225	160	1,221	0			7,121			
1980 1985	156 51	23 15	481 939	25 48	266 328	240 230	35 80	1,047 1,625	0			8,705 9,778			
1985	5	15	721	48 12	328 297	230 256	17	1,025	2			12,693			
1995	15	19	1,002	26	372	32	38	1,470	3			14,863			
1996	17	20	964	23	344	32 32	37	1.400	3			15,388			
1997	1	20	1,049	16	351	31	10	1,458	2			15,645			
1998	20	20	1,502	47	297	58	6	1,911	3			17,290			
1999	209	21	1,043	30	349	34	10	1,466	1			17,488			
2000	0	22 21	759	54	402 265	35	50	1,300	1			18,434			
2001	0	21	769	40	265	36	113	1,223	1			18,430			
2002	(s)	21	669	24	339	38 37	19	1,089	(s)			19,107			
2003 2004	0	22 22	586 553	22 26	341 372	33	18 47	1,004 1,031	2			19,336 20,113			
2004	0	22	621	27	360	34	77	1,120	3			20,113			
2006	R 80	21	694	27	R 308	35	17	R 1,081	2			20,923			
2007	(s)	21	692	18	302	35	14	1,062	1			21,746			
								Trillion Btu							
1960	3.4	4.8	2.8	0.5	0.7	1.4	1.1	6.5	0.0	0.5	0.0	6.7	21.9	16.5	38.4
1965	2.4	7.3	2.0	0.4	1.0	1.6	0.8	5.8	0.0	0.3	0.0	8.6	24.5	20.6	45.1
1970	2.6	14.2	4.2	0.3	1.2	1.1	0.5	7.2	0.0	0.2	0.0	14.5	38.7	35.0	73.7
1975	4.0	17.6	2.9	0.1	1.1	1.2	1.0	6.4	0.0	0.2	0.0	24.3	52.5	58.4	110.9
1980	3.8	23.6	2.8	0.1	1.0	1.3	0.2	5.4	0.0	0.3	0.0	29.7	62.8	71.6	134.4
1985 1990	1.3 0.1	15.7	5.5 4.2	0.3 0.1	1.2	1.2 1.3	0.5	8.6	0.0	0.3 2.8	0.0 0.0	33.4 43.3	59.3 68.9	76.8 100.1	136.1 169.1
1990	0.1	15.8 19.4	4.2 5.8	0.1	1.1	0.2	0.1 0.2	6.8 7.7	(s)	2.8 3.6	0.0	43.3 50.7	81.8	115.2	197.0
1995	0.4	20.9	5.6	0.1	1.3 1.2	0.2	0.2	7.7	(s) (s)	3.6	0.0	50.7 52.5	84.8	119.4	204.2
1997	(s)	20.2	6.1	0.1	1.3	0.2	0.2	7.7	(s)	3.4	0.0	53.4	84.7	120.9	205.7
1998	0.5	20.5	8.8	0.3	1.1	0.3		10.4	(s)	3.4	0.0	59.0	93.9	133.8	227.7
1999	5.5	21.2	6.1	0.2	1.3	0.2	(s) 0.1	7.7	(s)	3.5	0.0	59.7	97.6	136.5	234.1
2000	0.0	22.7	4.4	0.3	1.4	0.2	0.3	6.7	(s)	3.5	0.0	62.9	95.8	143.1	238.8
2001	0.0	21.5	4.5	0.2	1.0	0.2	0.7	6.6	(s)	2.1	0.0	62.9	93.1	140.1	233.2
2002	(s) 0.0	20.9	3.9	0.1	1.2	0.2	0.1	5.6	(s)	0.9	0.0	65.2	92.5	145.3	237.8
2003	0.0	22.3	3.4	0.1	1.2	0.2	0.1	5.1	(s)	2.2	0.0	66.0	95.5	145.6	241.1
2004	0.0	22.1	3.2	0.1	1.3	0.2	0.3	5.2	(s)	2.1 R 2.3	0.0	68.6	98.0	151.8	R 249.9 R 253.9
2005	0.0 R 1.9	22.9	3.6	0.2	1.3	0.2	0.5	5.7	(s)	R 2.3	0.0	69.9	100.9	153.0	R 253.9
2006 2007	(s)	21.4 21.5	4.0 4.0	0.2 0.1	1.1 1.1	0.2 0.2	0.1 0.1	5.6 5.5	(s) (s)	R 2.2 2.2	0.0 0.0	71.4 74.2	102.5 103.4	154.4 160.1	R 256.9 263.5
2001	(5)	21.0	4.0	0.1	1.1	0.2	0.1	5.5	(5)	2.2	0.0	14.2	100.4	100.1	203.3

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Carolina

Thousand Short Tons Cubic Feet Thousand Short Tons Short Tons Cubic Feet Thousand Short Tons Short						Petro	leum				Biomass					
Thousand Billion Cubic Feet Thousand Barrels Million Wood and Geo-thermal Million White Energy to Losses Total fth		Coal	Natural Gas ^a		LPG b			Other d	Total							
1970	Year					Thousand	d Barrels							Net Energy ^{f,h}	Energy	Total f,h
1970	1960	1,758	23	1,959	273	614	3,392	3,022	9,261	97			6,234			
1975 1,200 70 2,040 1,066 209 2,687 3,812 9,813 48 12,766 1985 1,852 1,875 1,388 96 4,245 5,827 13,412 49 15,979 1985 2,255 63 1,897 834 702 2,233 5,402 11,068 49 21,829 1980 2,230 88 1,944 1,348 48 2,2415 5,087 11,068 10 22,4701 2,849 10 1980 2,230 88 1,944 1,326 42 2,145 5,087 11,068 0 0 28,819 1980 2,200 3,88 1,944 1,326 42 2,145 5,087 11,068 0 0 28,819 28,819 10 10 10 10 10 10 10 10 10 10 10 10 10	1965	1,835	47	1,748	415	517	2,438	2,822	7,941	79			7,450			
1980 1,805 92 1875 1,368 96 4,245 5,827 13,412 4915,979 1990 2,310 87 2,317 849 703 1,888 7,344 13,101 0 2,1829 1990 2,310 87 2,317 849 703 1,888 7,344 13,101 0 24,701 1996 2,310 87 2,317 849 703 1,888 7,344 13,101 0 2,4701	1970	1,861	79						8,564				10,110			
1985		1,200		2,040 1,875	1,066	209 96			9,813				12,766			
1990	1985	2.525	63	1,897	834		2.233	5.402	11.068				21.829			
1996 2,000 95 2,124 1,326 452 2,245 5,068 11,216 0 29,185 1997 2,012 103 1,937 3,748 478 1,974 5,987 14,125 0 31,278 1998 1,962 102 2,030 2,571 388 1,589 6,107 12,685 0 31,606 2000 1,912 97 2,242 2,304 333 1,734 6,438 13,051 0 33,308 2001 2,038 80 2,488 1,759 612 1,700 13,422 2,150 0 31,528 2002 1,923 96 2,333 1,070 870 1,477 12,817 18,567 0 31,926 2003 1,983 79 2,242 8,104 1,021 3,437 13,245 2,0474 0 31,926 2004 1,794 78 2,612 5,048 1,021 3,437 13,245 2,0474 0 31,826 2005 1,549 74 2,613 7,104 1,034 3,433 3,228 16,578 2,0474 0 31,846 2007 1,267 75 2,533 R 1,068 1,026 1,628 16,578 R 2,748 0 31,416 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 31,416 1996 44,7 23,3 11,4 1.1 3,2 21,3 18,8 55,9 1.0 17,3 0.0 21,3 163,4 52,6 216,0 1990 44,2 80,9 15,5 2,9 1.7 10,1 20,2 50,5 0,4 31,0 0,0 34,5 241,5 83,5 325,0 1990 44,0 R 95,1 10,9 5,0 0,5 26,7 34,3 77,4 0,5 27,7 0,0 54,5 299,2 131,4 430,7 1990 58,0 89,3 13,5 3,1 3,7 11,9 43,3 7,5 5,5 0,0 63,0 0,0 84,3 370,0 194,9 564,9 1996 50,1 R 98,4 12,4 4,8 2,4 14,1 31,5 65,2 0,0 87,4 0,0 99,6 400,5 225,7 64,3 1996 50,1 R 98,4 12,4 4,8 2,4 14,1 31,5 65,2 0,0 87,4 0,0 99,6 400,5 225,7 64,3 1996 50,1 R 98,4 12,4 4,8 2,4 14,1 31,5 65,2 0,0 87,4 0,0 99,6 400,5 225,7 64,5 1998 40,1 10,9 10,1 11,1 4,6 2,2 1	1990	2,310	87	2,317	849	703	1,888	7,344	13.101				24,701			
1997	1995	2,188	98	1,904	1,272	426		9,774	15,486				28,819			
1988 1,982 102 2,030 2,571 388 1,589 6,107 12,685 0 31,606 1999 1,881 103 2,190 1,502 346 1,120 6,400 11,559 0 32,117 2000 1,912 97 2,242 2,304 333 1,734 6,438 13,051 0 33,308 2001 2,038 80 2,458 1,759 812 1,700 13,420 20,150 0 31,528 2002 1,923 96 2,333 1,070 870 1,477 12,817 18,567 0 31,926 2003 1,983 79 2,320 819 921 3,167 13,245 20,472 0 31,296 2004 1,794 78 2,612 564 1,061 3,433 16,505 24,174 0 31,886 2005 1,504 74 3,071 1,096 1,033 3,328 15,678 24,205 0 31,416 2006 1,439 77 2,533 81,068 1,828 16,234 82,2748 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 1960 44,7 23,3 11,4 1,1 3,2 21,3 18,8 55,9 1,0 17,3 0,0 21,3 163,4 52,6 216,0 1970 44,2 80,9 15,5 2,9 1,7 10,1 20,2 50,5 0,4 31,0 0,0 34,5 24,15 83,5 32,5 1975 28,2 72,0 11,9 4.0 1,1 16,9 24,0 57,8 0.5 31,9 0,0 43,6 233,8 104,7 336,6 1985 62,8 8,64 11,1 3,0 3,7 14,0 31,7 63,5 0,5 32,5 0,0 74,5 298,5 171,5 470,0 1985 62,8 8,64 11,1 3,0 3,7 14,0 31,7 63,5 0,5 32,5 0,0 74,5 298,5 171,5 470,0 1985 55,1 1010 11,1 4,6 2,2 13,3 57,0 88,1 0,0 76,5 0,0 98,3 419,0 223,3 642,3 1999 58,0 89,3 13,5 3,1 3,7 14,0 31,7 66,4 0,0 99,9 0,0 106,7 431,9 241,8 63,8 1999 46,6 105,6 12,8 54,4 18,7 0,3 34,4 35,7 0,0 34,5 298,5 171,5 470,0 1990 58,0 89,3 13,5 13,5 3,1 3,7 14,0 31,7 66,4 0,0 99,9 0,0 106,7 431,9 241,8 63,8 1	1996	2,000		2,124	1,326	452			11,216				29,185			
1,861 103									14,125							
2000	1990	1,902		2,030	1,502			6,107	11 559							
2001 2,038 80 2,458 1,759 812 1,700 13,420 20,150 0 31,528 2002 1,923 96 2,333 1,070 870 1,477 12,817 18,567 0 31,296 2003 1,983 79 2,320 819 921 3,167 13,245 20,472 0 31,286 2004 1,794 78 2,612 564 1,061 3,433 16,505 24,174 0 31,286 2005 1,504 74 3,071 1,096 11,033 3,328 15,678 24,205 0 32,080 2006 1,439 77 2,533 R1,088 1,086 1,828 16,234 R2,748 0 31,416 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 7,56 713 1,603 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 7,56 713 1,503 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 7,56 713 1,503 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 7,56 713 1,503 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 7,56 7,56 7,56 7,56 7,56 7,56 7,56 7,5		1.912	97						13.051							
2003	2001	2.038	80	2.458	1,759	812	1,700	13,420	20,150				31,528			
2004 1,794 78 2,612 564 1,061 3,433 16,505 24,174 0 31,886 2005 1,504 74 3,071 1,096 1,033 3,328 15,678 24,205 0 31,886 2006 1,439 77 2,533 R1,088 1,086 1,828 16,234 R22,748 0 31,416 31,416 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 0 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 0 30,632		1,923	96	2,333				12,817	18,567	•						
2005 1,504 74 3,071 1,096 1,033 3,328 15,678 24,205 0 32,080 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 31,416 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632 30,632 30,632 30,632 30,632		1,983							20,472	•						
2006 1,439 77 2,533 K1,068 1,086 1,828 16,234 K22,748 0 31,416 30,632 2007 1,267 75 2,286 756 713 1,603 14,436 19,794 0 30,632	2004	1,794		2,612	1 006	1 022	3,433		24,174				31,886			
Trillion Btu 1960		1,304		2.533	R 1.068	1,035		16 234	R 22 748							
1960	2007	1,267	75	2,286	756	713	1,603	14,436	19,794	Ō						
1965 46.2 48.7 10.2 1.7 2.7 15.3 17.7 47.6 0.8 23.2 0.0 25.4 192.0 60.7 252.7 1970 44.2 80.9 15.5 2.9 1.7 10.1 20.2 50.5 0.4 31.0 0.0 34.5 241.5 88.3 325.0 1980 44.0 R.95.1 10.9 5.0 0.5 26.7 34.3 77.4 0.5 27.7 0.0 54.5 299.2 131.4 430.7 1985 62.8 R.64.8 11.1 3.0 3.7 14.0 31.7 63.5 0.5 32.5 0.0 74.5 298.5 171.5 470.0 1990 58.0 89.3 13.5 3.1 3.7 11.9 43.3 75.5 0.0 76.5 0.0 74.5 298.5 171.5 470.0 1995 55.1 10.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.3								Tri	illion Btu							
1970 44.2 80.9 15.5 2.9 1.7 10.1 20.2 50.5 0.4 31.0 0.0 34.5 241.5 83.5 325.0 1980 44.0 R.95.1 10.9 5.0 0.5 26.7 34.3 77.4 0.5 27.7 0.0 54.5 299.2 131.4 430.7 1985 62.8 R.64.8 11.1 3.0 3.7 14.0 31.7 63.5 0.5 32.5 0.0 74.5 298.5 171.5 470.0 1990 58.0 89.3 13.5 3.1 3.7 11.9 43.3 75.5 0.0 63.0 0.0 74.5 298.5 171.5 470.0 1995 55.1 101.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.3 1996 50.1 R.98.4 12.4 4.8 2.4 14.1 31.5	1960	44.7	23.3	11.4		3.2	21.3	18.8	55.9	1.0	17.3		21.3	163.4	52.6	216.0
1975 28.2 72.0 11.9 4.0 1.1 16.9 24.0 57.8 0.5 31.9 0.0 43.6 233.8 104.7 338.6 1980 44.0 R 95.1 10.9 5.0 0.5 26.7 34.3 77.4 0.5 27.7 0.0 54.5 299.2 131.4 430.7 1985 62.8 R 64.8 11.1 3.0 3.7 14.0 31.7 63.5 0.5 32.5 0.0 74.5 298.5 171.5 470.0 1990 58.0 89.3 13.5 3.1 3.7 11.9 43.3 75.5 0.0 63.0 0.0 84.3 370.0 194.9 564.9 1995 55.1 101.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.3 1996 50.1 R 98.4 12.4 4.8 2.4 14.1 31.5 65.2 0.0 87.4 0.0 99.6 400.5 224.6 62.9						2.7										252.7
1980	1970									0.4						325.0
1985 62.8 K 64.8 11.1 3.0 3.7 14.0 31.7 63.5 0.5 32.5 0.0 74.5 298.5 171.5 470.0 1990 58.0 89.3 13.5 3.1 3.7 11.9 43.3 75.5 0.0 63.0 0.0 84.3 370.0 194.9 564.9 1995 55.1 101.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.3 1996 50.1 R 98.4 12.4 4.8 2.4 14.1 31.5 65.2 0.0 87.4 0.0 99.6 400.5 226.4 626.9 1997 50.5 106.1 11.3 13.6 2.5 12.4 37.9 77.6 0.0 90.9 0.0 106.7 431.9 241.8 673.6 1998 49.1 105.8 11.8 9.3 2.0 10.0 37.8	1975	28.2	72.0 R os 1	11.9			16.9 26.7				31.9			233.8	104.7	338.b 430.7
1990 58.0 89.3 13.5 3.1 3.7 11.9 43.3 75.5 0.0 63.0 0.0 84.3 370.0 194.9 564.9 1995 55.1 101.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.9 1996 50.1 R98.4 12.4 4.8 2.4 14.1 31.5 65.2 0.0 87.4 0.0 98.3 419.0 223.3 642.9 1997 50.5 106.1 11.3 13.6 2.5 12.4 37.9 77.6 0.0 90.9 0.0 106.7 431.9 241.8 673.6 1998 49.1 105.8 11.8 9.3 2.0 10.0 37.8 71.0 0.0 83.5 0.0 107.8 417.2 244.6 661.8 1998 46.6 105.6 12.8 5.4 1.8 7.0 39.4	1985	62.8	R 64 8			3.7		31.7	63.5	0.5	32.5			298.5	171.5	430.7 470.0
1995 55.1 101.0 11.1 4.6 2.2 13.3 57.0 88.1 0.0 76.5 0.0 98.3 419.0 223.3 642.3 1996 50.1 P98.4 12.4 4.8 2.4 14.1 31.5 65.2 0.0 87.4 0.0 99.6 400.5 226.4 626.9 1997 50.5 106.1 11.3 13.6 2.5 12.4 37.9 77.6 0.0 90.9 0.0 106.7 431.9 241.8 673.6 1998 49.1 105.8 11.8 9.3 2.0 10.0 37.8 77.0 0.0 83.5 0.0 107.8 417.2 244.6 661.8 1999 46.6 105.6 12.8 5.4 1.8 7.0 39.4 66.4 0.0 69.4 0.0 109.6 397.6 250.7 648.3 2000 50.2 R100.1 13.1 8.3 1.7 10.9 40.2	1990														194.9	564.9
1997 50.5 106.1 11.3 13.6 2.5 12.4 37.9 77.6 0.0 90.9 0.0 106.7 431.9 241.8 673.6 1998 49.1 105.8 11.8 9.3 2.0 10.0 37.8 71.0 0.0 83.5 0.0 107.8 417.2 244.6 661.8 1999 46.6 105.6 12.8 5.4 1.8 7.0 39.4 66.4 0.0 69.4 0.0 109.6 397.6 250.7 648.3 2000 50.2 8 100.1 13.1 8.3 1.7 10.9 40.2 74.3 0.0 66.1 0.0 113.6 404.2 258.5 662.7 2001 53.1 82.7 14.3 6.4 4.2 10.7 78.2 113.8 0.0 50.9 0.0 107.6 408.1 239.7 647.8 2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 108.9 421.2 242.8 664.0 2003 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1 2004 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 867.2 2005 38.8 76.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.4 666.7 2006 37.0 879.8 14.8 83.8 5.7 11.5 95.8 8131.6 0.0 66.6 0.0 107.2 8422.2 231.8 8654.0			_101.0		4.6	2.2		57.0		0.0	76.5		98.3		223.3	642.3
1998 49.1 105.8 11.8 9.3 2.0 10.0 37.8 71.0 0.0 83.5 0.0 107.8 417.2 244.6 661.8 1999 46.6 105.6 12.8 5.4 1.8 7.0 39.4 66.4 0.0 69.4 0.0 109.6 397.6 250.7 648.3 2000 50.2 R 100.1 13.1 8.3 1.7 10.9 40.2 74.3 0.0 66.1 0.0 113.6 404.2 258.5 662.7 2001 53.1 82.7 14.3 6.4 4.2 10.7 78.2 113.8 0.0 50.9 0.0 107.6 408.1 239.7 647.8 2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 108.9 421.2 242.8 664.0 2003 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1	1996	50.1				2.4		31.5							226.4	626.9
1999 46.6 105.6 12.8 5.4 1.8 7.0 39.4 66.4 0.0 69.4 0.0 109.6 397.6 250.7 648.3 2000 50.2 R 100.1 13.1 8.3 1.7 10.9 40.2 74.3 0.0 66.1 0.0 113.6 404.2 258.5 662.7 2001 53.1 82.7 14.3 6.4 4.2 10.7 78.2 113.8 0.0 50.9 0.0 107.6 408.1 239.7 647.8 2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 107.6 408.1 239.7 647.8 2003 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1 2004 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 R 675.2	1997		106.1											431.9	241.8	673.6
2000 50.2 R 100.1 13.1 8.3 1.7 10.9 40.2 74.3 0.0 66.1 0.0 113.6 404.2 258.5 662.7 2001 53.1 82.7 14.3 6.4 4.2 10.7 78.2 113.8 0.0 50.9 0.0 107.6 408.1 239.7 678.2 2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 108.9 421.2 242.8 664.0 2003 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1 2004 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 R 677.2 2005 38.8 76.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.8 664.0											83.5			417.2	244.6	6.100
2001 53.1 82.7 14.3 6.4 4.2 10.7 78.2 113.8 0.0 50.9 0.0 107.6 408.1 239.7 647.8 2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 108.9 421.2 242.8 664.0 10.0 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1 12.0 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 8677.2 10.0 58.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.4 666.7 12.0 10.0 37.0 879.8 14.8 83.8 5.7 11.5 95.8 8131.6 0.0 66.6 0.0 107.2 842.2 231.8 8654.0			R 100.0													662 7
2002 50.6 95.6 13.6 3.9 4.5 9.3 74.3 105.6 0.0 60.4 0.0 108.9 421.2 242.8 664.0 2003 51.9 78.6 13.5 3.0 4.8 19.9 77.0 118.2 0.0 58.9 0.0 106.8 414.4 235.6 650.1 2004 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 R677.2 2005 38.8 76.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.4 666.7 2006 37.0 879.8 14.8 83.8 5.7 11.5 95.8 8131.6 0.0 66.6 0.0 107.2 R422.2 231.8 654.0	2001	53.1	82.7			4.2	10.3	78.2	113.8	0.0	50.9	0.0	107.6	408.1	239.7	647.8
2004 46.6 77.8 15.2 2.0 5.5 21.6 96.6 141.0 0.0 62.3 0.0 108.8 436.4 240.7 R 677.2 2005 38.8 76.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.4 666.7 2006 37.0 R 79.8 14.8 R 3.8 5.7 11.5 95.8 R 131.6 0.0 66.6 0.0 107.2 R 422.2 231.8 R 654.0	2002	50.6	95.6	13.6	3.9	4.5	9.3	74.3	105.6	0.0	60.4	0.0	108.9	421.2	242.8	664.0
2005 38.8 76.9 17.9 4.0 5.4 20.9 92.1 140.2 0.0 61.9 0.0 109.5 427.3 239.4 666.7 2006 37.0 R 79.8 14.8 R 3.8 5.7 11.5 95.8 R 131.6 0.0 66.6 0.0 107.2 R 422.2 231.8 R 654.0	2003	51.9		13.5	3.0	4.8	19.9		118.2		58.9	0.0	106.8		235.6	650.1
2006 37.0 ^R 79.8 14.8 ^R 3.8 5.7 11.5 95.8 ^R 131.6 0.0 66.6 0.0 107.2 ^R 422.2 231.8 ^R 654.0																
2006 37.0 179.8 14.8 13.8 5.7 11.5 95.8 131.6 0.0 66.6 0.0 107.2 422.2 231.8 654.0 2007 32.8 78.1 13.3 2.7 3.7 10.1 84.7 114.5 0.0 65.4 0.0 104.5 395.4 225.5 620.9			76.9		4.0	5.4			140.2					427.3		666.7
207			'` /9.8 7º 1		1, 3.8	5.7			111.6					305 4	∠31.8 225.5	
	2001	52.0	70.1	13.3	2.1	3.7	10.1	04.7	114.5	0.0	03.4	0.0	104.5	353.4	223.3	020.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Carolina

						Pe	troleum					D 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	30	1	215	1,196	3,131	13	289	17,205	1,139	23,188	0	0			
1965	6	2	354	1,556	2,958	12	243	20,612	1,313	27,048	0	0			
1970 1975	3	3	228 142	2,899	3,170	60	237 213	28,220	1,605 419	36,420	0	0			
1975	(s) 0	3	142	4,019 6,156	2,692 3,062	79 33	213 261	34,995 35,181	844	42,560 45,686	0	0			
1985	0	2	136	7,949	3,184	140	237	36,787	606	49,039	1	0			
1990	0	3	101	10,512	2,939	87	267	42,305	502	56,713	144	0			
1995	0	3	123	10,703	1,027	77	255	46,515	432	59,133	0	0			
1996	0	3	59	11,107	1,292	44	247	46,944	662	60,356	0	0			
1997 1998	0	3 3	64 55	11,894 13,609	1,328 R 1,438	62 50	261 273	48,959 50,770	550 418	63,118 R 66,613	0	0			
1999	0	4	100	13,978	1,536	26	276	52,393	377	68,687	0	0			
2000	ő	3	76	14,791	1,861	55	272	52,672	373	70,100	Ő	Ő			
2001	0	3	72	15,344	1,851	37	249	52,973	279	70,806	0	0			
2002	0	3	87	15,520	1,548	31	246	54,314	516	72,262	0	0			
2003 2004	0	3	93 83	15,181	1,459 1,656	60 74	228 231	54,976	594	72,590	0	0			
2004	0	3	97	18,270 17,283	1,609	110	231	60,597 58,235	1,993 1,562	82,904 79,125	R 347	0			
2006	0	2	109	18,151	1,805	120	224	60,658	1,715	82,783	R 511	0			
2007	0	3	108	18,412	1,881	88	231	60,580	1,563	82,863	768	0			
								Trillion Btu							
1960	0.8	1.3	1.1	7.0	16.8	0.1	1.8	90.4	7.2	124.2	0.0	0.0	126.2	0.0	126.2
1965	0.2	2.4	1.8	9.1	15.8	(s) 0.2	1.5	108.3	8.3	144.8	0.0	0.0	147.3	0.0	147.3
1970 1975	0.1	3.4 2.7	1.2 0.7	16.9 23.4	17.1 14.5	0.2	1.4 1.3	148.2 183.8	10.1 2.6	195.2 226.7	0.0 0.0	0.0 0.0	198.6 229.4	0.0 0.0	198.6 229.4
1980	(s) 0.0	3.1	0.7	35.9	16.6	0.3	1.6	184.8	5.3	245.0	0.0	0.0	248.1	0.0	248.1
1985	0.0	2.3	0.7	46.3	17.2	0.5	1.4	193.2	3.8	263.2	(s)	0.0	265.5	0.0	265.5
1990	0.0	2.9	0.5	61.2	16.0	0.3	1.6	222.2	3.2	305.1	(s) 0.5	0.0	308.6	0.0	308.6
1995	0.0	3.0	0.6	62.3	5.8	0.3	1.5	242.6	2.7	315.9	0.0	0.0	318.9	0.0	318.9
1996	0.0	3.2	0.3	64.7	7.3	0.2	1.5	244.9	4.2	323.0	0.0	0.0	326.2	0.0	326.2
1997 1998	0.0 0.0	3.0 3.3	0.3 0.3	69.3 79.3	7.5 R 8.2	0.2 0.2	1.6 1.7	255.2 264.6	3.5 2.6	337.6 356.8	0.0 0.0	0.0 0.0	340.7 360.1	0.0 0.0	340.7 360.1
1999	0.0	3.7	0.5	81.4	8.7	0.2	1.7	273.0	2.4	367.8	0.0	0.0	371.5	0.0	371.5
2000	0.0	3.6	0.4	86.2	10.6	0.2	1.7	274.4	2.3	375.7	0.0	0.0	379.3	0.0	379.3
2001	0.0	3.1	0.4	89.4	10.5	0.1	1.5	276.0	1.8	379.6	0.0	0.0	382.7	0.0	382.7
2002	0.0	3.2	0.4	90.4	8.8	0.1	1.5	282.9	3.2	387.3	0.0	0.0	390.5	0.0	390.5
2003 2004	0.0 0.0	2.8 2.5	0.5 0.4	88.4 106.4	8.3 9.4	0.2 0.3	1.4 1.4	286.3 316.0	3.7 12.5	388.8 446.4	0.0	0.0 0.0	391.6 449.0	0.0 0.0	391.6 449.0
2004	0.0	2.5 2.5	0.4	100.4	9.4	0.3	1.4	303.9	9.8	446.4 425.8	0.0 R 1.2	0.0	449.0 428.3	0.0	449.0 428.3
2005	0.0	2.4	0.5	105.7	10.2	0.4	1.4	316.5	10.8	445.6	R 1.8	0.0	448.0	0.0	448.0
2007	0.0	2.7	0.5	107.2	10.7	0.3	1.4	316.2	9.8	446.2	2.7	0.0	448.9	0.0	448.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, South Carolina

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil [©]	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power d	M/ 1	Geothermal f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
960	1,596	23	24	9	0	33	0	3 513		0	0	0	0	
960 965 970	2,690	23 19	24 44	16	0	60	75	3,513 3,438		ő	Ő	Ő	0	
970	3,708	45	2,042	756	Ö	2.798	75 7	2,256		Ŏ	Ö	Õ	Õ	
975	4.401	15	4.400	118	0	4,517 2,647	19,458	4.366		0	0	0	0	-
080	7,927	5	2,080	567	0	2,647	17,404	2,976		0	0	0	0	_
85	7,888	(s) 7	1	183	0	184	31,826	1,786		0	0	0	0	-
90	9,131		8	117	0	125	42,881	3,296		0	0	0	0	-
95	10,074	7	68	200	0	268	49,173	3,454		0	0	0	0	_
96	11,832	1	39 56	267	0	306	43,571	3,454 3,038 2,956		0	0	0	0	_
97	12,096	3	56	401	0	457	44,916	2,956		0	0	0	0	_
98 99	12,664 13,666	9	198	611 558	0	809	48,759	3,567 1,686		0	0	0	0	_
99 00	15,034	10 9	250 166	606	0	807 772	50,814 50,888	1,533		0	0	0	0	_
01	14,382	11	84	200	0	483	49,870	1,333		0	0	0	0	_
02	14,341	11 37	68	399 331	0	399	53,326	1,225 1,389		0	0	0	0	
03	14,714	13	37	450	80	566	50,418	3,665		0	0	0	0	
03 04	15,557	31	67	352	804	1,223	51,201	2,445		0	0	0	0	_
05	15,793	45	72	332	443	846	53,138	2,936		0	0	0	0	_
06	15,761	45 50	29	223	24	276	50.797	1,805		ŏ	ŏ	ő	Õ	_
007	16,524	51	72 29 45	318	0	364	53,200	1,555		Ō	Ö	Ö	Ö	_
							Trillion I	Btu						
960	42.7	24.1	0.2	0.1	0.0	0.2	0.0	37.8	0.0	0.0	0.0	0.0	0.0	104.
65	69.5	19.6	0.3	0.1	0.0	0.4	0.9	35.9	0.0	0.0	0.0	0.0	0.0	126.
70	90.0	46.3	12.8	4.4	0.0	17.2	0.1	23.7	0.0	0.0	0.0	0.0	0.0	177
75	106.3	15.0	27.7	0.7	0.0	28.3	214.3	45.4	0.0	0.0	0.0	0.0	0.0	409
80 85	196.9 198.2	5.6 0.5	13.1	3.3 1.1	0.0 0.0	16.4 1.1	189.8 338.1	30.9 18.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	439
90	231.0	7.1	(s) (s) 0.4	0.7	0.0	0.7	453.8	34.3	0.0	0.0	0.0	0.0	0.0	556 727
9U	259.0	7.1 6.0	(5)	1.7	0.0	1.6	516.7	35.6	0.0	0.0	0.0	0.0	0.0	121
90 90	302.0	6.8 1.2	0.4	1.2 1.6 2.3	0.0	1.8	457.6	31.4	0.0	0.0	0.0	0.0	0.0	819 794
95 96 97	310.9	2.8	0.4	2.3	0.0	2.7	471.3	30.2	0.0	0.0	0.0	0.0	0.0	817
98	323.7	9.0	1.2	3.6	0.0	4.8	511.5	36.4	0.0	0.0	0.0	0.0	0.0	885
98 99	349.3	11.1	1.2 1.6	3.6 3.2	0.0	4.8 4.8	531.0	36.4 17.2	0.0	0.0	0.0	0.0	0.0	885 913
00	382.0	8.8	1.0	3.5	0.0	4.6	530.7	15.6	0.0	0.0	0.0	0.0	0.0	941
01	361.3	11.3	0.5	2.3	0.0	2.9	521.0	12.7	0.0	0.0	0.0	0.0	0.0	909
02	353.8	37.7	0.4	2.3 1.9	0.0	2.4	556.7	14.1	0.1	0.0	0.0	0.0	0.0	964
0.3	367.7	13.9	0.2	2.6	0.5	3.3	525.4	37.5	0.2	0.0	0.0	0.0	0.0	948
04	387.2	32.3	0.4	2.0	4.8	7.3	533.9	24.5	3.0	0.0	0.0	0.0	0.0	988
05	392.3	46.6 R 52.2	0.5	1.9	2.7	5.0	554.5	29.4	6.9	0.0	0.0	0.0	0.0	1,034
006	393.0	^R 52.2	0.2	1.3	0.1	1.6	530.0	17.9	6.9	0.0	0.0	0.0	0.0	1,001
07	411.1	52.7	0.3	1.9	0.0	2.1	558.0	15.4	6.4	0.0	0.0	0.0	0.0	1,045.

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, South Dakota

						Petroleum				Martan	United	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	ls			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	374	25 27	2,941	1,145	1,370	8,561	102	1,999	16,118	0	1,156					
1965 1970	310 338	27 36	3,766 4,375	1,111 1,173	1,541 2,712	8,955 9,903	71 328	1,437 1,175	16,881 19,666	0	3,872 6,579					
1975	1,888	33	3,841	1,056	2,712	10,636	218	1,175	19.784	0	7,927					
1980	2,827	33 24	4,801	1,311	2,530	9,688	122	909	19,362	0	5,818					
1985 1990	2,703 2,571	25 25 34	5,154 5,939	1,019 1,097	1,241 3,691	9,279 8,986	36 60	1,114 1,054	17,843 20,828	0	5,333 3,934					
1995	2,537	34	6,255	1,463	2,294	10,007	14	1,050	21,082	0	6,010					
1996	1,852	37	6,537	1,014	2,908	10,148	40	1,361	22 008	0	7,978					
1997 1998	2,442 2,316	36 33	6,129 5,874	697 R 819	2,627 2,151	10,165 10,440	64 101	1,582 1,512	R 21,264 R 20,897	0	9,012 5,758					
1999	2,649	36	6.080	770	1,988	10,337	88	2,123	21,385	0	6.677					
2000	2.815	36 38	6,036	1,024	2,597	10.304	133	1,964	22.057	0	5.716					
2001 2002	2,599 2,358	37 42	6,317 6.792	967 919	2,071 3,022	10,204 10,599	106 104	1,282 1,239	20,948 22,674	0	3,432 4,354					
2002	2,358	42 44	6,792	769	2,618	10,599	46	1,239	22,674 21,349	0	4,354 4,276					
2004	2,574	42	6,555	776	2,441	10,389	93	1,364	21,618	Ö	3,598					
2005 2006	2,158 2,340	43	6,850	996	2,202 2,171	10,273	62	2,007 1,869	22,390	0	3,075					
2006	1,963	41 54	6,844 7,791	945 880	2,171	10,217 10,330	29 35	1,249	22,075 22,693	0	3,397 2,917					
								Trillion Btu								
1960 1965	6.7 5.7	25.4 26.9	17.1 21.9	6.1 6.0	5.5 6.2	45.0 47.0	0.6 0.4	12.0 8.7	86.4 90.3	0.0 0.0	12.4 40.5	1.5 1.1	0.0 0.0	-3.4 -24.1	0.0 0.0	129.1 140.3
1903	5.7	36.5	25.5	6.3	10.2	52.0	2.1	7.5	103.7	0.0	69.0	1.1	0.0	-47.3	0.0	168.7
1975	24.3	32.5	22.4	5.7	10.9	55.9	1.4	7.1	103.3	0.0	82.5	1.5	0.0	-62.3	0.0	181.8
1980 1985	36.6 34.5	24.0	28.0 30.0	7.1 5.5	9.3 4.5	50.9 48.7	0.8 0.2	5.8 7.1	101.8 96.1	0.0 0.0	60.4 55.7	3.3 4.1	0.0 0.0	-35.4 -21.3	(s) 0.3	190.7 194.9
1900	34.5	25.5 R 25.5	34.6	5.9	13.4	40.7 47.2	0.2	6.7	108.2	0.0	40.9	2.2	0.0	-21.3 -0.7	0.5	211.6
1995	37.4	R 34.8	36.4	7.9	8.3	52.2	0.1	6.8	111.7	0.0	62.0	2.1	0.2	-11.0	(s)	237.3
1996	33.5	R 37.4	38.1	5.7	10.5	52.9	0.3	8.8	116.3 R 112.9	0.0	82.5	2.2	0.3	-23.6	-0.1	248.5
1997 1998	42.9 41.0	36.8 33.4	35.7 34.2	4.0 4.6	9.5 7.8	53.0 54.4	0.4 0.6	10.3 9.9	R 112.9	0.0 0.0	92.0 58.7	1.9 1.6	0.3 0.4	-42.9 -7.8	0.2 -0.1	244.1 238.7
1999	46.3	36.0	35.4	4.4	7.2	53.9	0.6	13.9	115.3	0.0	68.3	1.7	0.4	-20.8	0.8	247.9
2000	50.6	38.1	35.2	5.8	9.4	53.7	0.8	12.8	117.7	0.0	58.3	1.8	0.4	-8.3	(s)	258.7
2001 2002	44.4 40.0	37.0 42.4	36.8 39.6	5.5 5.2	7.5 10.9	53.2 55.2	0.7 0.7	8.3 8.1	111.9 119.6	0.0 0.0	35.5 44.3	1.8 1.7	0.5 0.6	16.5 18.0	(s) (s)	247.6 266.5
2002	43.0	R 44.8	35.4	5.2 4.4	9.5	53.7	0.7	10.0	113.2	0.0	44.3	1.7	1.1	15.8	-0.1	263.4
2004	43.6	42.5	38.2	4.4	8.8	54.2	0.6	8.9	115.1	0.0	36.1	1.8	2.3	21.9	(s)	263.2
2005 2006	37.0	R 42.9 40.9	39.9 39.9	5.6	8.0	53.6 53.3	0.4	13.2 12.2	120.7 118.8	0.0	30.7 33.7	R 2.1 R 1.9	2.4	38.1 34.9	(s)	R 273.9 R 272.1
2006	39.6 33.2	40.9 54.1	39.9 45.4	5.4 5.0	7.8 8.6	53.3 53.9	0.2 0.2	8.1	121.3	0.0 0.0	33.7 28.8	2.1	2.3 2.4	50.2	0.0 (s)	292.2
				-70	2.0	2310		2		3.0		2	=		(-/	

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Dakota

				Petro	leum		Biomass			B . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	72 39	8	567	903 524	1,067	2,537 2,398	61			847			
1960 1965	39	10	677	524	1.198	2,398	42			1,183			
1970	18	14	763	14	2,010	2,787	33			1,586			
1975 1980	/	12	574 762	3 10	1,994 1,165	2,571 1,937	35 127			2,068			
1985	4	11 11	772	35	703	1,937	160			2,623 2,769			
1990	1	10	936	4	1,731	1,510 2,671	160 89			2,866			
1995 1996	1	13 14	501	4	1,384 1,857	1,889 2,485	78			3,268 3,426			
1996	(s)	14	623	5	1,857	2,485	81			3,426			
1997	(s)	13	463	6	1,798	2,266	64			3,376			
1998 1999	0 (s)	12 12	382 336	5	1,450 1,396	1,837 1,736	57 60			3,303 3,302			
2000	(s)	13	351	4	1,664	2,018	65			3,423			
2001	1	12	366	4	1.376	1.746	62			3.580			
2002	(s)	12 13	267	3	1,598	1,868	63			3,733			
2003 2004	(s)	13	305	2	1.631	1.938	67			3,740			
2004	(s)	12	246	3	1,226	1,475	68 R 82			3,696			
2005 2006	(s)	12 12	229 219	3 2	1,203 R 1,139	1,435 R 1,361	R 74			3,973 4,051			
2006	(s) (s)	12	177	2	1,328	1,506	82			4,051			
	(0)				1,020		rillion Btu			1,201			
1960 1965	1.4 0.8	7.9	3.3	5.1	4.3 4.8	12.7	1.2	0.0	0.0	2.9 4.0	26.1	7.1	33.3
1965	0.8	10.1	3.9	3.0	4.8	11.7	0.8	0.0	0.0	4.0	27.4	9.6	37.0
1970 1975	0.3 0.1	13.8	4.4	0.1	7.6 7.4	12.1	0.7	0.0	0.0 0.0	5.4 7.1	32.4	13.1	45.4 47.6
1975	0.1	12.0 10.5	3.3	(s) 0.1	1.4	10.8	0.7	0.0 0.0	0.0	7.1 8.9	30.6 30.9	17.0 21.6	47.0 52.4
1985	0.1	11.5	4.4 4.5	0.1	4.3 2.5	8.8 7.2	2.5 3.2	0.0	0.0	9.4	31.4	21.8	52.4 53.2
1990	(s)	10.4	5.5	(s)	6.3	11.7	1.8	(s)	(s)	9.8	33.7	22.6	56.3
1990 1995	(s)	12.8	2.9	(s)	6.3 5.0	8.0	1.8 1.6	(s)	(s)	11.2	33.7 33.5	25.3	56.3 58.8
1996 1997	(s)	12.8 R 14.3	3.6	(s)	6.7	10.4	1.6	(s) 0.1	(s) (s) (s)	11.7	38.0	26.6	64.6
1997	(s)	13.4	5.5 2.9 3.6 2.7	(s)	6.5	10.4 9.2 7.5 7.0	1.3	0.1	(s)	11.5	35.5	26.1	61.6
1998 1999	0.0	11.7	2.2 2.0	(s)	5.2 5.0	7.5	1.1 1.2	0.1 0.1	(s)	11.3 11.3	31.7	25.6 25.8	57.3 57.2
1999	(s)	11.8 R 12.7	2.0	(s)	5.0	7.0	1.2	0.1	(s)	11.3	31.4 33.8	25.8	57.2
2000 2001	(s) (s)	12.7	2.0 2.1	(s)	6.0 5.0	8.1 7.1	1.3	0.1 0.1	(s)	11.7 12.2	33.8 33.0	26.6 27.2	60.3
2001	(S) (S)	13.2	1.6	(s) (s)	5.8	7.1	1.2 1.3	0.1	(s) (s)	12.7	34.6	28.4	60.2 63.0
2003	(s)	13.5	1.8	(s)	5.9	7.7	1.3	0.1	(s)	12.8	35.4	28.2	63.5
2004	(s)	12.5	1.4	(s)	4.4	5.9	1.4	0.1	(s)	12.6	32.5 R 33.3	27.9	60.4 R 63.0
2005	(s)	12.3	1.3	(s)	4.4	5.7	R16	0.1	(s)	13.6	R 33.3	29.6	R 63.0
2006	(s)	11.5	1.3	(s)	R 4.1	R 5.4	R 1.5	0.2	(s)	13.8	32.4	29.9	62.3 66.0
2007	(s)	12.4	1.0	(s)	4.8	5.8	1.6	0.2	(s)	14.5	34.6	31.4	66.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Dakota

					Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	50	7	226 269	0	188	37	16	466	0			409			
1965	29	9	269	0	211	46	. 8	534	0			645			
1970 1975	14 17	11 11	303 228	0	355 352	50 58	16 20	724 658	0			937 995			
1975	17	9	220 365	0	206	65	20 19	655	0			1.139			
1985	13	10	288	ĭ	124	98	19	530	Ŏ			1,863			
1990	2	9	242	(s)	305	78	24	650	0			1,811			
1995	6	11	301	1	244	11	2	559	0			2,424			
1996 1997	1	12 10	251 263	1	328 317	11 11	0 8	590 600	0			2,525 2,555			
1997	0	9	237	(s)	256	11	5	510	0			2,653			
1999	1	10	202	1	246	11	8	468	Ő			2,671			
2000	1	10	195	1	294	11	69	570	0			2,857			
2001	8	10	251	1	243	30	5	530	0			3,380			
2002	1	10	180	2	282	28	(s)	492	0			3,600			
2003 2004	1	10 10	127 194	2	288 216	12 12	0 13	428 436	0			3,713 3,627			
2004	i	10	204	3	212	12	(s)	431	0			3,998			
2006	1	10	158	1	R 201	12	1	R 374	0			4,054			
2007	1	10	225	(s)	234	12	12	484	0			4,181			
								Trillion Btu							
1960	1.0	7.5	1.3	0.0	0.8	0.2	0.1	2.4	0.0	(s)	0.0	1.4	12.2	3.4	15.7
1965	0.6	8.8	1.6	0.0	0.8	0.2	(s) 0.1	2.7	0.0	(s)	0.0	2.2	14.3	5.3	19.5
1970 1975	0.3	11.4	1.8	0.0	1.3	0.3		3.5	0.0	(s)	0.0 0.0	3.2	18.3 18.2	7.7	26.1
1975	0.3 0.2	11.5 8.5	1.3 2.1	0.0 0.0	1.3 0.8	0.3 0.3	0.1 0.1	3.1 3.3	0.0 0.0	(s) 0.1	0.0	3.4 3.9	16.0	8.2 9.4	26.4 25.4
1985	0.2	10.1	1.7	(s)	0.4	0.5	0.1	2.8	0.0	0.1	0.0	6.4	19.5	14.6	34.2
1990	(s)	8.7	1.4	(s)	1.1	0.4	0.2	3.1	0.0	0.2	0.1	6.2	18.3	14.3	32.6
1995	0.1	_ 10.8	1.8	(s)	0.9	0.1	(s) 0.0	2.7	0.0	0.2	0.2	8.3	22.3	18.8	41.1
1996	(s) (s)	R 11.8	1.5	(s)	1.2	0.1		2.7	0.0	0.2	0.2	8.6	23.5	19.6	43.1
1997 1998	(s) 0.0	10.6 9.3	1.5 1.4	(s)	1.1 0.9	0.1 0.1	0.1	2.8 2.4	0.0 0.0	0.2 0.2	0.2 0.3	8.7 9.1	22.6 21.3	19.8 20.5	42.3 41.8
1996	(s)	9.6	1.4	(s) (s)	0.9	0.1	(s) (s) 0.4	2.4	0.0	0.2	0.3	9.1	21.3	20.5	42.3
2000	(s) (s)	R 10.2	1.1	(s)	1.1	0.1	0.4	2.7	0.0	0.2	0.3	9.7	23.1	22.2	45.3
2001	0.2	9.7	1.5	(s)	0.9	0.2	(s)	2.5	0.0	0.2	0.3	11.5	24.5	25.7	50.2
2002	(s)	10.5	1.0	(s)	1.0	0.1	(s) 0.0	2.2	0.0	0.2	0.4	12.3	25.6	27.4	53.0
2003 2004	(s)	10.6	0.7	(s)	1.0	0.1 0.1		1.9	0.0	0.2	0.5	12.7	25.9 25.4	28.0 27.4	53.8
2004	(s) (s)	10.2 9.9	1.1 1.2	(s) (s)	0.8 0.8	0.1 0.1	0.1 (s)	2.1 2.0	0.0 0.0	R 0.2	0.5 0.6	12.4 13.6	R 26.5	27.4	52.8 56.3
2006	(s)	9.6	0.9	(s)	0.0	0.1		1.7	0.0	0.3	0.0	13.8	26.0	29.9	55.9
2007	(s)	10.4	1.3	(s)	0.8	0.1	(s) 0.1	1.7 2.3	0.0	0.2 0.3	0.7	14.3	27.9	30.8	55.9 58.7
	. ,														

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Dakota

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	5	5	1,780	93	2,615	35	816	5,339 5,397	20			258			
1965 1970	4	5 7	2,177 2,332	108	2,455 2,209	15	642	5,397	38			246 281			
1970	5 59	6	2,332 1,635	298 527	1,626	35 52	911 884	4,725	35 36			994			
1980	127	5	1,640	1,090	1,473	95	646	4,723	32			1,322			
1985	279	4	1,734	389	694	16	850	3,683	32			1,019			
1990	223	6	2,377	1,632	489	36	797	5,330	0			1,657			
1995	393 398	7	2,202	652	534	11	847	4,246	0			1,722			
1996	398	8	2,284	709	540	40	1,155	4,728	0			1,785			
1997	436	8	2,055	503	566	55	1,371	4,551	0			1,841			
1998	450	6	1,913	433	386	95	1,310	4,137	0			1,868			
1999	489	6	2,036	341	446	80	1,894	4,797	0			1,949			
2000 2001	602 378	5 5	1,930 1,978	625 440	418 631	63 101	1,746 1,086	4,783 4,237	0			2,003 1,666			
2001	306	11	1,776	1.117	627	103	1,058	4,237	0			1,604			
2002	368	12	1,701	684	692	46	1,350	4,473	0			1,627			
2004	245	12	1,748	989	829	80	1,183	4.830	ő			1,891			
2005	277	11	1.804	773	791	62	1.833	5,263 R 5,068	Ő			1.840			
2006	275	11	1,696	R 818	845	28	1,681	R 5,068	0			1,952			
2007	272	21	2,108	830	557	22	1,059	4,576	0			2,161			
							Tr	illion Btu							
1960	0.1	5.3	10.4	0.4	13.7	0.2	5.3	30.0	0.2	0.3	0.0		36.9	2.2	39.0
1965	0.1	4.7	12.7	0.4	12.9	0.1	4.2	30.3	0.4	0.3	0.0		36.6	2.0	38.6
1970	0.1	6.8	13.6	1.1	11.6	0.2	6.0	32.6	0.4	0.5	0.0	1.0	41.3	2.3	43.6
1975	1.1	5.8	9.5	2.0	8.5	0.3	5.9	26.2	0.4	0.8	0.0	3.4	37.7	8.2	45.8
1980 1985	2.4	4.7 3.6	9.6	4.0	7.7 3.6	0.6 0.1	4.3 5.6	26.2 20.9	0.3 0.3	0.7	0.0	4.5	38.8 34.0	10.9 8.0	49.7 42.0
1985	4.8 3.9	6.0	10.1 13.8	1.4 5.9	2.6	0.1	5.6	20.9	0.3	0.9 0.2	0.0 (s)	3.5 5.7	43.7	13.1	56.8
1990	6.8	7.4	12.8	2.4	2.8	0.2	5.6	23.6	0.0	0.2	(s)	5.7	44.1	13.3	57.4
1996	6.9	7.7	13.3	2.4		0.1	7.6	26.6	0.0	0.3	(s)	6.1	47.6	13.8	61.4
1997	7.6	8.0	12.0	1.8	2.9	0.3	9.1	26.2	0.0	0.4	(s)	6.3	48.4	14.2	62.6
1998	7.9	6.5	11.1	1.6		0.6	8.7	24.0	0.0	0.3	(s)	6.4	45.1	14.5	59.5
1999	8.6	5.9	11.9	1.2	2.3		12.6	28.5	0.0	0.3	0.1	6.6	50.0	15.2	65.2
2000	12.6	5.3	11.2	2.3	2.2	0.4	11.6	27.6	0.0	0.3	0.1	6.8	52.7	15.5	68.3
2001	6.4	4.7	11.5	1.6	3.3	0.6	7.2	24.2	0.0	0.3	0.1	5.7	41.4	12.7	54.1
2002	5.2	11.3	10.3	4.0	3.3	0.7	7.0	25.3	0.0	0.2	0.1	5.5	47.5	12.2	59.7
2003	6.2	12.0	9.9	2.5		0.3	8.9	25.2	0.0	0.2	(s)	5.6	49.2	12.2	61.4
2004 2005	4.1 4.6	11.8 11.3	10.2	3.6	4.3 4.1	0.5 0.4	7.8 12.1	26.4 30.0	0.0 0.0	0.2 0.2	(s)	6.5	49.0 52.4	14.3 13.7	63.2 _ 66.1
2005	4.6	11.3	10.5 9.9	2.8 R 3.0	4.1	0.4	12.1	28.5	0.0	0.2	(s)	6.3 6.7	R 51.0	13.7	R 65.4
2007	4.6	21.3	12.3	3.0		0.2	7.0	25.3	0.0	0.2	(s) 0.1	7.4	58.9	15.9	74.8
2007	7.0	21.0	12.0	5.0	2.3	0.1	7.0	20.0	0.0	0.2	0.1	7.4		10.9	7 4.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, South Dakota

						Pe	troleum					D-4-il			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	(s)	(s)	106	362	1,145	22	174	5,909	11	7,729	0	0			
1965	(s) (s)	(s)	128	635	1,111	24	143	6,454	1	8,496	Ö	Ő			
1970	(s)	(s)	99	929	1,173	50	151	7,645	6	10,052	0	0			
1975	(s)	(s)	77	1,337	1,056	57	140	8,952	1	11,618	0	0			
1980 1985	0	(s) (s)	97 87	1,977 2,322	1,311 1,019	69 24	156 142	8,150 8,487	0	11,760 12,081	0 90	0			
1990	0	(S)	93	2,352	1,019	23	160	8,419	(s)	12,145	133	0			
1995	ŏ	3	46	3.203	1,463	15	152	9,462	0	14.341	479	Ŏ			
1996	0	3	53	3,346	1,014	14	148	9,596	0	14 171	338	0			
1997	0	3	48	3,325	697	.9	156	9,588	0	R 13,824 R 14,345	377	0			
1998	0	3	33	3,274	R 819	12	164	10,043	0	r 14,345	441	0			
1999 2000	0	6 6	59 51	3,447 3,425	770 1,024	5 14	165 163	9,880 9,875	0	14,326 14,551	487 532	0			
2000	0	6	42	3,614	967	13	149	9,543	0	14,328	488	0			
2002	0	6	29	4,551	919	25	147	9,944	0	15,616	555	0			
2003	0	6	34	3,909	769	15	136	9,604	0	14,467	545	0			
2004	0	6	38	4,311	776	10	138	9,548	0	14,821	508	0			
2005	0	6	31	4,562	996	13	137	9,470	0	15,209	R 620	0			
2006	0	5	51	4,752	945	12	134 138	9,360	0	15,254	R 578 782	0			
2007	0	6	50	5,142	880	16	138	9,761	0	15,988	782	0			
								Trillion Btu							
1960	(s)	(s)	0.5	2.1	6.1	0.1	1.1	31.0	0.1	41.0	0.0	0.0	41.1	0.0	41.1
1965	(s)	(s)	0.6	3.7	6.0	0.1	0.9	33.9 40.2	(s)	45.2 53.5	0.0	0.0	45.2	0.0	45.2
1970	(s)	(s)	0.5	5.4	6.3	0.2	0.9	40.2	(s)	53.5	0.0	0.0	53.6	0.0	53.6
1975 1980	(s) 0.0	(s) 0.1	0.4 0.5	7.8 11.5	5.7 7.1	0.2 0.3	0.8 0.9	47.0 42.8	(s) 0.0	62.0 63.1	0.0 0.0	0.0 0.0	62.0 63.2	0.0 0.0	62.0 63.2
1985	0.0	0.1	0.5	13.5	5.5	0.3	0.9	42.0 44.6	0.0	65.0	0.0	0.0	65.5	0.0	65.5
1990	0.0	0.2	0.5	13.7	5.9	0.1	1.0	44.2		65.4	0.5	0.0	66.0	0.0	66.0
1995	0.0	2.8	0.2	18.7	7.9	0.1	0.9	49.3	(s) 0.0	77.2	1.7	0.0	79.9	0.0	79.9
1996	0.0	2.9	0.3	19.5	5.7	0.1	0.9	50.1	0.0	76.5	1.2	0.0	79.4	0.0	79.4
1997	0.0	3.0	0.2	19.4	4.0	(s)	0.9	50.0	0.0	74.5	1.3	0.0	77.5	0.0	77.5
1998	0.0	2.8	0.2	19.1	4.6	(s)	1.0	52.3	0.0	77.3	1.6	0.0	80.1	0.0	80.1
1999	0.0	6.1	0.3	20.1	4.4	(s)	1.0	51.5	0.0	77.2	1.7	0.0	83.3	0.0	83.3
2000 2001	0.0 0.0	6.3 5.8	0.3 0.2	19.9 21.1	5.8 5.5	0.1 (s)	1.0 0.9	51.4 49.7	0.0 0.0	78.5 77.4	1.9 1.7	0.0 0.0	84.8 83.2	0.0 0.0	84.8 83.2
2001	0.0	6.2	0.2	26.5	5.2	0.1	0.9	51.8	0.0	84.6	2.0	0.0	90.8	0.0	90.8
2002	0.0	6.5	0.1	22.8	4.4	0.1	0.9	50.0	0.0	78.2	1.9	0.0	84.7	0.0	84.7
2004	0.0	6.4	0.2	25.1	4.4	(s)	0.8	49.8	0.0	80.4	1.8	0.0	86.7	0.0	86.7
2005	0.0	5.8	0.2	26.6	5.6	(s)	0.8	49.4	0.0	82.7	R 2.2	0.0	88.5	0.0	88.5
2006	0.0	5.4	0.3	27.7	5.4	(s)	0.8	48.8	0.0	83.0	R 2.0	0.0	88.4	0.0	88.4
2007	0.0	5.7	0.3	30.0	5.0	0.1	0.8	50.9	0.0	87.0	2.8	0.0	92.7	0.0	92.7

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

C Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.

It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

† From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, South Dakota

					oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	246	4	40	7	0	47	0	1,136		0	0	0	0	
1960 1965	246 237	3	40 47	8	0	55	0	3,835		0	0	0	0	
1970 1975	301	4	270	48 67	0	318	0	6,544		0	0	0	0	
1975	1,804	, 3	145	67	0	212	0	7,890		0	0	0	0	
1980	2,683	(s)	9	58	0	67	0	5,786		0	0	0	0	
1985 1990	2,407 2,345	(s) (s)	1	39 32	0	40 32	0	5,301 3,934		0	0	0	0	
1995	2,137	(5)	0	32 18	0	48	0	6,010		0	0	0	0	
1996	1,453	1	0	48 33 23	0	33	0	7,978		0	0	0	0	
1997	2,005	2	0	23	0	23	0	9,012		0	0	0	78	
1998	1,866	3	Õ	68	Õ	68	ő	5,758		Õ	ő	ő	-30	
1999	2,159	3	Ö	68 59	Ö	59	Õ	6,677		Ö	Ö	Ö	227	
2000	2,211	4	0	136	0	136	0	5.716		0	0	0	13	
2001 2002	2,212	4	0	107	0	107	0	3,432		0	0	1	(s)	
2002	2,051	1	0	18	0	18	0	4,354		0	0	6	(s)	
2003	2,174	2	0	43 56	0	43	0	4,276		0	0	44	Q	
2004	2,328	2	0	56	0	56	0	3,598		0	0	158		
2005	1,880	4	0	52	0	52	0	3,075		0	0	158	(s)	
2006 2007	2,064 1,691	3	0	19 140	0	19 140	0	3,397 2,917		0	0	149 150	(s)	
2007	1,031		0	140	0	140	Trillion E	•		0	0	130	(3)	
1960 1965	4.2	4.6	0.3	(s)	0.0	0.3	0.0	12.2	0.0	0.0	0.0	0.0	0.0	21.4
1965	4.2	3.3	0.3	(s)	0.0	0.3	0.0	40.1	0.0	0.0	0.0	0.0	0.0	48.0
1970 1975 1980	5.0	4.4	1.7	0.3 0.4	0.0 0.0	2.0	0.0	68.7	0.0 0.0	0.0	0.0	0.0	0.0 0.0	80.0
1975	22.8 33.8	3.2 0.3	0.9 0.1	0.4	0.0	1.3 0.4	0.0 0.0	82.1 60.1	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	109.4 94.6
1900	29.4	0.5 (e)	(e)	0.3	0.0	0.4	0.0	55.4	0.0	0.0	0.0	0.0	0.0	85.0
1985 1990	31.0	(s) 0.2	(s) 0.0	0.2	0.0	0.2	0.0	40.9	0.0	0.0	0.0	0.0	0.0	72.3
1995	30.5	0.9	0.0	0.3	0.0	0.3	0.0	62.0	0.0	0.0	0.0	0.0	0.0	93.7
1996	26.6	0.7	0.0	0.2	0.0	0.2	0.0	82.5	0.0	0.0	0.0	0.0	0.0	110.0
1997	35.3	1.8	0.0	0.1	0.0	0.1	0.0	92.0	0.0	0.0	0.0	0.0	0.3	129.5
1998	33.1	2.9	0.0	0.4	0.0	0.4	0.0	58.7	0.0	0.0	0.0	0.0	-0.1	95.1
1999	37.7	2.6	0.0	0.3	0.0	0.3	0.0	68.3	0.0	0.0	0.0	0.0	0.8	109.7
2000	38.0	3.7	0.0	0.8	0.0	0.8	0.0	58.3	0.0	0.0	0.0	0.0	(s)	100.8
2001	37.8	4.6	0.0	0.6	0.0	0.6	0.0	35.5	0.0	0.0	0.0	(s) 0.1	(s)	78.5
2002	34.8	1.2	0.0	0.1	0.0	0.1	0.0	44.3	0.0	0.0	0.0		(s)	80.5
2003 2004	36.8 39.5	2.2 1.6	0.0 0.0	0.3 0.3	0.0 0.0	0.3 0.3	0.0 0.0	43.8 36.1	0.0 0.0	0.0 0.0	0.0 0.0	0.5 1.6	0.0 (s)	83.5 79.1
2004	39.5	3.6	0.0	0.3	0.0	0.3	0.0	30.7	0.0	0.0	0.0	1.0	(S) (S)	79.1 68.6
2005	32.3 35.0	3.4	0.0	0.3	0.0	0.3	0.0	33.7	0.0	0.0	0.0	1.0	0.0	73.6
2007	28.6	4.3	0.0	0.1	0.0	0.1	0.0	28.8	0.0	0.0	0.0	1.6 1.5 1.5	(s)	64.0
													(0)	

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

^{-- =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Tennessee

						Petroleum				Martan	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	15,438	147	5,291	570	1,311	27,268	188	7,623	42,250	0	8,676					
1965	14,172	202	7,295	1,174	1,912	32,481	287	12,096	55,245	0	8,750					
1970 1975	17,726 21,308	256 217	10,952 17,479	3,335 3,936	3,182 3,830	41,869 53,735	597 714	14,914 13,024	74,849 92,718	0	8,067 11,806					
1975	24,687	230	19,176	4,154	2,787	54,948	1,499	14,655	97,218	519	8,764					
1985	25,167	190	22,594	4,862	2,281	58,047	539	13,091	101,415	9,672	6,539					
1990	24,878	220	24,502	4,181	2,906	58.001	307	17,956	107,853	14,003	10,015					
1995	27,399	257	25,839	8,096	3,416	64,822	362	19,011	121,546	15,708	9,629					
1996 1997	26,744 28,207	280 283	26,831 26,946	9,317 R 9,437	4,303 4,028	64,868 66,148	210 156	13,394 13,068	118,924 R 119,783	22,924 24,648	11,467 11,038					
1998	26,786	279	29,043	R 9.864	3,264	67.522	157	15,463	R 125,313	28,388	10,806					
1999	26,613	279	26,610	11,816	4,709	69,769	50	16,286	129,241	27,227	7,802					
2000	28,862	271	28,047	12,857	5,514	68,862	66	15,430	130,776	25,825	6,396					
2001 2002	28,202 28,034	256	28,590 29,731	12,561 13,442	4,469 5,837	68,392 71,963	150	22,630 21,556	136,794 142,665	28,576 27,574	6,947 7,974					
2002	26,034	256 257	32,349	13,442	4,278	71,963	135 255	21,556	144,623	24,153	12,004					
2004	28,135	231	33,312	13,623	4,614	72,968	342	23,968	148,826	28,612	10,408					
2005	29,301	230	34,810	13,915	4,557	74,371	360	25,089	153,103	27,803	9,310					
2006 2007	30,275 30.399	R 222 221	34,144 35,315	14,207 13,811	4,687 4,069	74,910 76,076	189 175	24,498 21,965	152,634 151,411	24,679 28,700	7,749 4,940					
2007	30,399		35,315	13,011	4,009	70,070	1/0	21,900	101,411	20,700	4,940					
								Trillion Btu								
1960	374.5	151.7	30.8	3.1	5.3	143.2	1.2	44.9	228.5	0.0	93.4	45.4	0.0	69.5	0.0	962.9
1965 1970	338.9 403.7	211.1 261.8	42.5 63.8	6.5 18.8	7.7 12.0	170.6 219.9	1.8 3.8	71.8 88.4	300.9 406.7	0.0 0.0	91.5 84.7	46.5 53.8	0.0 0.0	158.1 172.7	0.0	1,147.0 1,383.3
1975	471.9	224.1	101.8	22.2	14.2	282.3	3.0 4.5	78.6	503.6	0.0	122.9	53.0 54.4	0.0	249.6	0.0	1,626.5
1980	576.9	233.3	111.7	23.4	10.2	288.6	9.4	86.2	529.7	5.7	91.0	69.3	0.0	249.7	(s)	1,755.6
1985	599.7	196.7	131.6	27.5	8.2	304.9	3.4	78.7	554.3	102.7	68.3	93.2	0.0	112.2	(s) 2.4	1,729.6
1990	600.5	227.5	142.7	23.6	10.5	304.7	1.9	106.9	590.4	148.2	104.2	56.5	0.1	119.2	2.1	1,848.7
1995 1996	669.0 650.8	264.9 R 289.4	150.5 156.3	45.9 52.8	12.4 15.5	338.0 338.3	2.3 1.3	111.9 81.6	661.0 646.0	165.0 240.8	99.3 118.6	60.4 56.0	0.1 0.1	84.3 69.4	(s) -0.1	2,004.1 2,070.8
1997	680.6	291.8	157.0	53.5	14.6	344.8	1.0	79.4	R 650.3	258.7	112.7	47.3	0.1	15.8	(s)	2,057.2
1998	651.8	287.4	169.2	55.9	11.8	351.9	1.0	94.7	R 684.5	297.8	110.2	46.5	0.1	43.0	(s)	2,121.3
1999	648.3	286.4	155.0	67.0	17.0	363.6	0.3	99.6	702.5	284.5	79.8	50.2	0.1	111.9	(s)	2,163.7
2000	705.1	280.7	163.4	72.9	19.9	358.8	0.4	94.5	709.9	269.3	65.2	53.0	0.1	113.5	(s)	2,196.8
2001 2002	687.4 655.9	265.5 276.0	166.5 173.2	71.2 76.2	16.2 21.1	356.3 374.8	0.9 0.9	134.7 127.8	745.9 773.9	298.6 287.8	71.8 81.1	64.4 63.5	0.1 0.1	92.6 146.9	(s)	2,226.1 2,285.3
2002	621.4	266.3	188.4	75.8	15.5	377.8	1.6	129.2	773.9 788.4	251.7	122.9	58.3	0.1	159.0	(s) (s) (s)	_ 2,268.3
2004	648.0	239.2	194.0	77.2	16.7	380.5	2.1	141.4	812.1	298.3	104.3	71.6	0.2	R 130.7		R 2,304.4
2005	657.7	238.4	202.8	78.9	16.5	388.1	2.3	149.8	838.3	290.1	93.1	R 63.9	0.2	170.7	0.0	R 2,352.3
2006 2007	677.2 672.4	R 230.0 229.7	198.9 205.7	80.6 78.3	16.9 14.6	390.9 397.0	1.2 1.1	146.1 130.3	834.5 827.1	257.5 301.0	76.9 48.8	R 55.0 54.1	0.7 0.7	185.7 196.7	0.0 0.0	R 2,317.5 2,330.5
2007	012.4	223.1	200.7	10.3	14.0	381.0	1.1	130.3	021.1	301.0	40.0	J4.1	0.7	190.7	0.0	2,330.5

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy. Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Tennessee

			Petro	leum		Biomass						
Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
563	34	80	797	862	1,740	1,269			8,683			
378	34 37	100	881	1,136	2,117	949			12,134			
304	47	169	2,027 1,316	2,316 2,767	4,512	806			17,942			
98	44	237	1,316	2,767	4,320	840			23,034			
49 37	45 39	308	549 737	1,501 1,209	2,358 2,215	971			26,207			
3/	39	269	/3/	1,209	2,215	1,725			25,546			
44 19	46 60	275 260	324 372	1,716 2,129	2,315 2,761	918 737			28,757 30,967			
13	70	269	456	2,129	3,581	765			35,333			
14	64	237	437	2,582	3,255	407			33,367			
3	59	230	424	2,432	3,087	362			35,428			
12	61	230	423	3,047	3,701	381			35,425			
12	68	174	378	3,447	3,999	409			36,622			
15	68	166	247	2,701	3,114	331			36,932			
8	69	115	168	3,210	3,492	336			38,752			
17	70	117	231	2,840	3,188	354			37,697			
7	65	125	292	2,791	3,208	363			38,526			
3 R 4	66	102	284	2,561	2,947 R 2,887	R 524 R 477			41,132			
6	61	107 127	283 204	R 2,496	2,887	1 477 526			40,816			
ь	61	127	204	2,329	2,660	526			42,880			
					T	rillion Btu						
13.9	35.1	0.5	4.5	3.5	8.4	25.4	0.0	0.0	29.6	112.4	73.3	185.7
9.3 7.2	38.9	0.6	5.0	4.6	10.1	19.0	0.0	0.0	41.4	118.7	98.9	217.5
7.2	47.6	1.0	11.5	8.8	21.2	16.1	0.0	0.0	61.2	153.4	148.2	301.6
2.3 1.2	45.4	1.4	7.5 3.1	10.3 5.5	19.1	16.8 19.4	0.0	0.0	78.6 89.4	162.2 166.1	189.0 215.5	351.2 381.6
0.9	45.6 40.8	1.8 1.6	4.2	5.5	10.4 10.1	34.5	0.0 0.0	0.0 0.0	89.4 87.2	173.4	200.7	374.2
1.1	48.0	1.6	1.8	4.4 6.2	9.7	18.4	(s)	0.0	98.1	175.3	226.9	402.2
0.5	61.0	1.0	2.1	7.7	11.3	14.7	(s)	0.1	105.7	194.2	239.9	434.1
0.3	61.9 72.7	1.5 1.6	2.1 2.6	7.7 10.3	14.5	14.7 15.3	(s)	0.1	120.6	223.4	274.1	497.6
0.4	66.1	1.4	2.5	9.3	13.2	8.1	(s)	0.1	113.8	201.8	257.9	459.7
0.1	61.2	1.3	2.4	8.8	12.5	8.1 7.2	(s)	0.1	120.9	202.0	274.1	476.1
0.3	62.2	1.3	2.4	11.0	14.8	7.6	(s)	0.1	120.9	205.9	276.5	482.3
0.3	71.0	1.0	2.1	12.4	15.6	8.2	(s) 0.1	0.1	125.0	220.1	284.2	504.3
0.4	70.6	1.0	1.4	9.8	12.1	6.6		0.1	126.0	215.8	280.8	496.6
0.2	74.9	0.7	1.0	11.6	13.2	6.7	0.1	(s)	132.2	227.4	294.7	522.1
0.4	72.2	0.7	1.3	10.3	12.3	7.1				220.7	283.8	504.5
0.2	67.6			10.1		7.3 R 40.5	0.1		131.4	219.1 R 224.4	290.9	509.9 R 500.4
0.1	62.4	0.6	1.6	9.3 R o o	11.5 R 11.2	1 10.5 R o =	0.1			R 231.1		509.9 R 538.1 R 524.8
0.1	63.4 63.1	0.6 0.7	1.0	·· 9.0	10.2	10.5	0.1 0.1	(S)	139.3	`` ∠∠ა.b 230.5	301.1 315.7	546.2
0.4 0.2 0.1 0.1 0.2		72.2 67.6 68.6 63.4 63.1	67.6 0.7 68.6 0.6 63.4 0.6	67.6 0.7 1.7 68.6 0.6 1.6 63.4 0.6 1.6	67.6 0.7 1.7 10.1 68.6 0.6 1.6 9.3 63.4 0.6 1.6 R 9.0	67.6 0.7 1.7 10.1 12.5 68.6 0.6 1.6 9.3 11.5 63.4 0.6 1.6 R 9.0 R 11.2	67.6 0.7 1.7 10.1 12.5 7.3 68.6 0.6 1.6 9.3 11.5 R10.5 63.4 0.6 1.6 R9.0 R11.2 R9.5	67.6 0.7 1.7 10.1 12.5 7.3 0.1 68.6 0.6 1.6 9.3 11.5 R10.5 0.1 63.4 0.6 1.6 R9.0 R11.2 R9.5 0.1	72.2 0.7 1.3 10.3 12.3 7.1 0.1 (s) 67.6 0.7 1.7 10.1 12.5 7.3 0.1 (s) 68.6 0.6 1.6 9.3 11.5 15 0.1 (s) 63.4 0.6 1.6 89.0 811.2 89.5 0.1 (s)	72.2 0.7 1.3 10.3 12.3 7.1 0.1 (s) 128.6 67.6 0.7 1.7 10.1 12.5 7.3 0.1 (s) 131.4 68.6 0.6 1.6 9.3 11.5 810.5 0.1 (s) 140.3 63.4 0.6 1.6 89.0 811.2 89.5 0.1 (s) 139.3	72.2 0.7 1.3 10.3 12.3 7.1 0.1 (s) 128.6 220.7 67.6 0.7 1.7 10.1 12.5 7.3 0.1 (s) 131.4 219.1 68.6 0.6 1.6 9.3 11.5 810.5 0.1 (s) 140.3 8231.1 63.4 0.6 1.6 89.0 811.2 89.5 0.1 (s) 139.3 8233.6	72.2 0.7 1.3 10.3 12.3 7.1 0.1 (s) 128.6 220.7 283.8 67.6 0.7 1.7 10.1 12.5 7.3 0.1 (s) 131.4 219.1 290.9 68.6 0.6 1.6 9.3 11.5 810.5 0.1 (s) 140.3 8.231.1 307.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Tennessee

					Petro	oleum			Unidad	Biomass		D-4-11			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total ^{f,h}
1960	391	24	200	157	152	173	(s)	682	0			2,796			
1965	285	24 28	248	173	200	277	(s)	899	0			4,274			
1970	239	43	422	399	409	392	`1	1,622	0			6,352			
1975 1980	228 185	42 44	589 1.015	259 104	488 265	419	1 48	1,757 1,897	0			7,440 14,216			
1980	132	44	3,204	167	205	465 337	48	4,019	0			9,856			
1990	174	44	739	69	303	464	98 33	1,607	0			13,075			
1995	126	51	739	80	376	50	14	1.258	Ö			6,234			
1996	97	58 55	906	89	504	49	28	1,576	0			6,543			
1997	117	55	827	99	456	49	44	1,474	0			25,839			
1998 1999	22 86	52 53	949 959	123 52	429 538	49 49	1	1,552 1,598	0			25,859 26,260			
2000	100	53	1,078	105	608	49 49	0	1,840	0			26,260			
2001	124	53	935	90	477	53	0	1,555	0			27,049			
2002	56	54	1,034	47	566	53	Ö	1,700	Ö			27,634			
2003	116	57	1,066	54	501	53	0	1,674	0			27,481			
2004	63	54	1,071	43	493	53	13	1,673	0			28,249			
2005 2006	30 38	54 52	780 650	40 28	452 R 440	54 55	0	1,326 R 1,173	0			29,146 29,033			
2007	58	51	952	24	411	55 55	8	1,451	0			29,985			
								Trillion Btu							
1960	9.7	25.1	1.2	0.9	0.6	0.9	(s)	3.6	0.0	0.5	0.0	9.5	48.4	23.6	72.0
1965	7.0	29.6	1.4	1.0	0.8	1.5	(s)	4.7	0.0	0.4	0.0	14.6	56.2	34.8	91.1
1970	5.7	43.7	2.5	2.3	1.5	2.1	(s)	8.3	0.0	0.3	0.0	21.7	79.6	52.5	132.1
1975 1980	5.4 4.4	43.8 44.8	3.4 5.9	1.5 0.6	1.8 1.0	2.2 2.4	(s) 0.3	8.9 10.2	0.0 0.0	0.3 0.5	0.0 0.0	25.4 48.5	83.8 108.4	61.1 116.9	144.8 225.3
1985	3.2	44.0	18.7	0.0	0.8	1.8	0.5	22.8	0.0	0.8	0.0	33.6	105.4	77.5	182.8
1990	4.3	45.1	4.3	0.4	1.1	2.4	0.0	8.4	0.0	4.9	0.0	44.6	107.3	103.2	210.5
1995	3.2	52.8	4.3	0.5	1.4	0.3	0.1	6.5	0.0	4.7	0.0	21.3	88.5	48.3	136.8
1996	2.4	60.4	5.3	0.5	1.8	0.3	0.2	8.0	0.0	5.1	0.0	22.3	98.2	50.8	149.0
1997	2.9	56.8	4.8	0.6	1.6	0.3	0.3	7.6	0.0	5.1	0.0	88.2	160.6	199.7	360.3
1998	0.6	54.0	5.5	0.7	1.6	0.3	(s) 0.0	8.0	0.0	4.0	0.0	88.2	154.9	200.1	354.9
1999 2000	2.2 2.6	54.0 55.3	5.6 6.3	0.3 0.6	1.9 2.2	0.3 0.3	0.0	8.1 9.3	0.0 0.0	4.0 3.9	0.0 0.0	89.6 91.5	157.9 162.6	204.9 208.1	362.9 370.7
2000	3.0	55.0	5.4	0.6	1.7	0.3	0.0	9.3 8.0	0.0	2.5	0.0	92.3	160.7	205.7	366.4
2002	1.4	58.0	6.0	0.3	2.0	0.3	0.0	8.6	0.0	1.6	0.0	94.3	163.9	210.2	374.1
2003	2.8	58.6	6.2	0.3	1.8	0.3	0.0	8.6	0.0	1.2	0.0	93.8	164.9	206.9	371.9
2004	1.5	56.1	6.2	0.2	1.8	0.3	0.1	8.6	0.0	1.2 R 1.7	0.0	96.4	163.8	213.3	377.1 R 382.2
2005	0.7	56.2	4.5	0.2	1.6	0.3	0.0	6.7	0.0	K 1.7	0.0	99.4	164.7	217.5	K 382.2
2006 2007	0.9 1.4	53.5 53.1	3.8 5.5	0.2 0.1	1.6 1.5	0.3 0.3	0.0 0.1	5.8 7.5	0.0 0.0	R 1.6 1.6	0.0 0.0	99.1 102.3	160.9 166.0	214.2 220.7	R 375.1 386.7
2001	1.4	JJ. I	5.5	0.1	1.3	0.5	0.1	7.5	0.0	1.0	0.0	102.3	100.0	220.1	300.7

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Tennessee

					Petro	leum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	2,307	76	2,096	275	627	180	5,124	8,301	0			27,514			
1965	2,862	97	2,601	522	484	264	9,539	13,410	ő			28,362			
1970	2,452	123	3,172	363	235	593	11,881	16,245	0			27,776			
1975	2,134	112	4,712	455	117	523	10,572	16,379	0			37,904			
1980 1985	2,774 4,145	123 97	4,252 3,615	960 693	36 642	1,445 441	13,036 11,418	19,730 16,810	0			32,968 33,624			
1985	3,846	110	3,399	761	583	269	16,697	21,710	0			35,313			
1995	3,777	126	3,682	777	865	346	17,501	23,172	827			44,828			
1996	3,670	127	3,733	810	890	181	11,978	17,591	888			45,781			
1997	3,613	139	4,333	871	937	108	11,543	17,792	965			27,710			
1998	3,441	145	3,978	400	630	156	14,072	19,235	799			30,461			
1999	3,299	145	2,647	1,066	569	50	14,986	19,317	652			31,493			
2000	3,349	130	2,443	1,384	561	66	14,118	18,571	520			32,289			
2001 2002	3,575 3,340	119 118	2,620	1,277 1,947	954 902	146 133	21,588 20,552	26,586	404 656			32,149 31,845			
2002	3,340	110	2,217 2,972	843	902	247	20,552	25,751 25,849	917			32,278			
2003	3,354 3,233	99	3,538	1,168	1,217	287	22,943	29,152	759			32,276			
2005	3,149	95	4,046	1 222	1 212	302	24,068	30,950	772			33,625			
2006	3,018	95 R 94	3,433	R 1,523	1,369	177	23,518	30,950 R 30,017	581			34,081			
2007	2,986	92	3,569	1,167	1,866	162	21,034	27,798	0			33,850			
							Tr	Ilion Btu							
1960	58.1	78.6	12.2	1.1	3.3	1.1	31.2	48.9	0.0	19.5	0.0		299.0	232.2	531.2
1965	71.4	101.9	15.2	2.1	2.5	1.7	57.8	79.2	0.0	27.2	0.0		376.5	231.1	607.6
1970	58.0	125.9	18.5	1.4	1.2	3.7	71.1	95.9	0.0	37.3	0.0		411.9	229.4	641.2
1975 1980	49.9 67.2	115.1 125.1	27.4 24.8	1.7 3.5	0.6 0.2	3.3 9.1	64.4 77.0	97.5 114.5	0.0 0.0	37.3 49.4	0.0 0.0		429.2 468.7	311.0 271.1	740.2 739.8
1985	102.2	R 100.6	21.1	2.5	3.4	2.8	69.1	98.8	0.0	57.9	0.0		474.2	264.2	738.4
1990	96.8	113.6	19.8	2.8	3.1	1.7	99.6	126.9	0.0	33.3	0.0		491.1	278.6	769.7
1995	94.9	R 129.8	21.5	2.8	4.5	2.2	103.4	134.3	8.5	40.7	0.0		561.2	347.3	908.6
1996	91.8	130.6	21.7	2.9	4.6	1.1	73.5	104.0	9.2	35.3	0.0	156.2	527.0	355.2	882.2
1997	90.3	143.2	25.2	3.1	4.9	0.7	70.7	104.7	9.9	33.7	0.0	94.5	476.3	214.2	690.5
1998	86.1	149.0	23.2	1.4	3.3		86.6	115.5	8.1	34.9	0.0		497.5	235.7	733.2
1999	82.5	148.5	15.4	3.9	3.0	0.3	92.0	114.5	6.7	38.3	0.0		498.0	245.8	743.8
2000	87.4	R 134.6	14.2	5.0		0.4	86.9	109.5	5.3 4.2	40.6	0.0		487.4	250.6	738.0
2001 2002	92.0 87.0	123.0 127.9	15.3 12.9	4.6 7.0	5.0 4.7	0.9 0.8	128.6 121.9	154.3 147.4	4.2 6.7	54.8 54.8	0.0		538.0 532.3	244.4 242.2	782.5 774.6
2002	87.0 87.2	127.9	17.3	3.1	4.7 5.1	1.6	121.9	150.4	9.4	49.6	0.0		523.2	242.2	774.6 766.2
2003	84.0	102.2	20.6	4.2	6.3	1.8	135.4	168.4	7.6	62.9	0.0		R 537.4	248.3	785.6
2005	81.6	98.3	23.6	18	6.3	1.9	143.8	180 4	7.7	51 4	0.0		53/11	250.9	785.1
2006	78.2	R 97.3	20.0	R 5.5	7.1	1.1	140.4	R 174.1	5.8	R 43.6	0.0		R 515.3	251.5	R 766.7
2007	77.4	95.7	20.8	4.2	9.7	1.0	124.9	160.6	0.0	41.7	0.0		490.9	249.2	740.1

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Tennessee

						Pe	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	40	5	1,040	2,914	570	22 54	505	26,468	8	31,527	0	(s)			
1965	9	23	1,024	4,346	1,174	54 94	479	31,721	22	38,819	0	(s)			
1970 1975	(s)	26 19	116 70	7,189 10,631	3,335 3,936	94 120	491 807	41,241 53,199	3 191	52,469 68,953	0	(s) (s)			
1980	0	16	290	13,196	4,154	61	676	54,446	6	72,828	0	(s)			
1985	0	10	154	15,268	4,862	166	615	57,068	0	78,134	675	(s)			
1990	0	20	174	19,857	4,181	126	692	56,954	5	81,989	572	(s)			
1995	0	18	397	20,702	8,096	135	660	63,907	2	93,899	353 7	1			
1996 1997	0	24 23	231 312	21,464 21,175	9,317 R 9,437	133 120	641 677	63,928 65,162	2	95,715 R 96,887	7	1			
1998	0	23 16	136	22,438	R 9,864	3	709	66,842	0	R 99,991	8	2			
1999	0	15	109	21,732	11,816	58	716	69,151	0	103,583	0	2			
2000	0	14	124	23,293	12,857	75	705	68,252	0	105,305	0	2			
2001	0	14	60	23,977	12,561	14	646	67,385	4	104,648	0	2			
2002	0	12	150	25,921	13,442	114	639	71,009	3	111,278	0	2			
2003 2004	0	13 11	131 93	27,374 28,266	13,376 13,623	94 162	590 598	71,519 71,698	8 42	113,092 114,481	0 0	2			
2004	0	9	102	29,483	13,915	221	595	73,105	58	117,480	R 3,366	1			
2006	0	9	89	29,694	14,207	231	580	73,486	12	118,298	R 3,546	1			
2007	0	10	104	30,389	13,811	162	599	74,155	5	119,225	4,507	2			
								Trillion Btu							
1960	1.0	5.5	5.2	17.0	3.1	0.1	3.1	139.0	0.1	167.6	0.0	(s) (s)	174.1	(s)	174.1
1965 1970	0.2	23.7	5.2	25.3	6.5	0.2	2.9	166.6	0.1	206.9	0.0	(s)	230.9	(s)	230.9
1970	0.1	27.0 19.7	0.6 0.4	41.9 61.9	18.8 22.2	0.4 0.4	3.0 4.9	216.6 279.5	(s) 1.2	281.2 370.5	0.0 0.0	(s)	308.4 390.2	(s)	308.4 390.2
1980	(s) 0.0	16.8	1.5	76.9	23.4	0.4	4.1	286.0	(s)	392.1	0.0	(S)	408.9	(S) (S)	408.9
985	0.0	10.5	0.8	88.9	27.5	0.6	3.7	299.8	0.0	421.3	2.4	(s)	434.2	(s)	434.2
990	0.0	20.3	0.9	115.7	23.6	0.5	4.2	299.2	(s)	444.0	2.0	(s)	466.3	(s)	466.3
995	0.0	18.3	2.0	120.6	45.9	0.5	4.0	333.3	(s)	506.3	1.3	(s)	524.6	(s)	524.6
996	0.0	25.1	1.2	125.0	52.8	0.5	3.9	333.4	(s)	516.8	(s)	(s)	542.0	(s)	542.0
997	0.0	24.0	1.6	123.3	53.5	0.4	4.1	339.7	(s)	522.7	(s) (s) (s) 0.0	(s)	546.7 R 557.0	(s)	546.7
998 999	0.0 0.0	17.0 15.7	0.7 0.6	130.7 126.6	55.9 67.0	(s) 0.2	4.3 4.3	348.4 360.3	0.0 0.0	540.0 559.0	(S)	(s) (s)	1 557.0 574.7	(s) (s)	557.0 574.7
000	0.0	14.4	0.6	135.7	72.9	0.2	4.3	355.6	0.0	569.3	0.0	(S)	583.7	(s)	583.8
2001	0.0	14.3	0.0	139.7	71.2	0.3	3.9	351.1		566.3	0.0	(s)	580.6	(s)	580.6
2002	0.0	12.5	0.8	151.0	76.2	0.4	3.9	369.8	(s) (s)	602.1	0.0	(s)	614.6	(s)	614.6
2003	0.0	13.3	0.7	159.5	75.8	0.3	3.6	372.4	0.1	612.3	0.0	(s)	625.7	(s)	625.7
2004	0.0	11.0	0.5	164.6	77.2	0.6	3.6	373.9	0.3	620.7	0.0	(s)	631.7	(s)	631.7
2005	0.0	9.5	0.5	171.7	78.9	0.8	3.6	381.5	0.4	637.4	R 11.9	(s)	646.9	(s)	646.9
2006 2007	0.0 0.0	R 9.0 10.4	0.4 0.5	173.0 177.0	80.6 78.3	0.8 0.6	3.5 3.6	383.4 387.0	0.1	641.8 647.1	R 12.5 15.9	(s) (s)	650.9 657.5	(s)	650.9 657.5
2007	0.0	10.4	0.0	177.0	10.3	0.0	3.0	307.0	(s)	047.1	15.9	(8)	6.160	(s)	00

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Tennessee

				Petro	oleum				Biomass				- 1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kil	owatthours		Total f,i
1960	12,138	7	0	(s) 0	0	(s)	0	8,676		0	0	0	0	
1965	10,637	16	0	0	0	0	0	8,750		0	0	0	0	
1970 1975	14,727 18,848	17 0	0	0	0	0	0	8,067 11,806		0	0	0	0	
1975	21,679	0	0	1,310 406	0	1,310 406	0 519	8,764		0	0	0	0	
1985	20,853	0	0	237	0	237	9,672	6,539		0	0	0	0	
1990	20,814	1	0	232	0	232	14,003	10,015		0	0	0	0	
1995	23,477	ż	ŏ	455	ŏ	455	15,708	8,802		ŏ	ŏ	ŏ	ŏ	
1996	22,963	1	0	460	0	460	22,924	10,579		0	0	0	0	
1997	24,464	2	0	375	0	375	24,648	10,073		0	0	0	0	
1998	23,321	6	0	1,448	0	1,448	28,388	10,007		0	0	0	0	
1999	23,216	6	0	1,042	0	1,042	27,227	7,150		0	0	0	0	
2000 2001	25,401 24,487	5	0	1,059 891	0	1,059 891	25,825 28,576	5,876 6,543		0	0	0	0	
2001	24,467	3	0	443	0	443	27,574	7,317		0	0	0	0	
2002	23,189	6	0	819	0	819	24,153	11,087		0	0	4	(s)	
2004	24,832	2	Ő	313	Õ	313	28,612	9,649		ő	0	4	(s)	
2005	26.119	6	Ō	400	0	400	27,803	8.538		0	0	3	Ó	
2006	27,216	7	0	260	0	260	24,679	7,167		0	0	55	0	
2007	27,348	7	0	278	0	278	28,700	4,940		0	0	50	0	
							Trillion E	Btu						
1960	291.8	7.5	0.0	(s) 0.0	0.0	(s)	0.0	93.4	0.0	0.0	0.0	0.0	0.0	392.6
1965	250.9	17.0	0.0	0.0	0.0	0.0	0.0	91.5	0.0	0.0	0.0	0.0	0.0	359.4
1970 1975	332.7	17.6	0.0	0.0	0.0	0.0	0.0	84.7	0.0	0.0	0.0	0.0	0.0	435.0
1975 1980	414.3 504.1	0.0 1.1	0.0 0.0	7.6 2.4	0.0 0.0	7.6 2.4	0.0 5.7	122.9 91.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	544.8 604.3
1985	493.3	0.0	0.0	1.4	0.0	1.4	102.7	68.3	0.0	0.0	0.0	0.0	0.0	665.8
1990	498.4	0.6	0.0	1.4	0.0	1.4	148.2	104.2	0.0	0.0	0.0	0.0	0.0	752.7
1995	570.4	2.1	0.0	2.7	0.0	2.7	165.0	90.8	0.2	0.0	0.0	0.0	0.0	831.2
1996	556.2	0.6	0.0	2.7	0.0	2.7	240.8	109.4	0.3	0.0	0.0	0.0	0.0	909.9
1997	587.0	1.7	0.0	2.2	0.0	2.2	258.7	102.9	0.3	0.0	0.0	0.0	0.0	952.7
1998	565.1	6.3	0.0	8.4	0.0	8.4	297.8	102.0	0.3	0.0	0.0	0.0	0.0	980.0
1999	563.2	6.0	0.0	6.1	0.0	6.1	284.5	73.1	0.3	0.0	0.0	0.0	0.0	933.2
2000	614.8	5.4	0.0	6.2	0.0	6.2	269.3	59.9	0.4	0.0	0.0	0.0	0.0	956.0
2001 2002	591.9	2.6 2.7	0.0 0.0	5.2 2.6	0.0	5.2 2.6	298.6	67.6	0.5 0.5	0.0 0.0	0.0	0.0	0.0	966.3 935.4
2002	567.4 531.0	2.7 5.8	0.0	2.6 4.8	0.0 0.0	2.b 4.8	287.8 251.7	74.4 113.5	0.5 0.4	0.0	0.0 0.0	(s) (s)	0.0 (s)	935.4 907.2
2003	562.3	2.3	0.0	1.8	0.0	1.8	298.3	96.7	0.4	0.0	0.0	(s)	(s)	961.8
2005	575.3	5.8	0.0	2.3	0.0	2.3	290.1	85.4	0.3	0.0	0.0	(s)	0.0	959.3
2006	597.9	6.9	0.0	1.5	0.0	1.5	257.5	71.1	0.3	0.0	0.0	0.5	0.0	935.7
2007	593.4	7.5	0.0	1.6	0.0	1.6	301.0	48.8	0.2	0.0	0.0	0.5	0.0	953.1

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Texas

						Petroleum				Monetone	Destas	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	ls			Millio	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	1,067	2,720	24,400	10,842	73,297	91,841	22,584	72,395	295,360	0	1,102					
1965	1,146	3,068	24,854	15,365	109,109	107,851	14,322	99,052	370,553	0	743					
1970 1975	1,154 12,765	4,093	32,410 54,706	24,430 27,308	151,223	141,393	14,146	125,875	489,477	0	1,005					
1975	48,602	3,944 4,091	54,706 72,513	27,308 30,934	157,246 189,802	175,538 180,997	38,536 65,070	145,889 251,131	599,224 790,447	0	1,927 979					
1985	77,017	3,386	79,984	74,500	256,932	205,419	28,713	159,901	805,449	0	1,401					
1990	91,415	3,729	67,909	95,903	293,043	205,402	27.463	200,482	890,202	15,859	1,794					
1995	92,612	3,893	88,126	83,002	370,395	213,428	22,544	206,963	984.458	36,151	1,703					
1996	98,997	4,132	96,751	99,870	395,062	226,381	20,292	235,016	1,073,371 R 1,150,088	35,767	960					
1997 1998	101,303 99,097	4,116 4,206	98,062 106,480	R 105,655 R 108,635	449,056 447,111	224,997 236,779	22,092 25,507	250,226 238,069	R 1,162,581	37,358 38,685	1,791 1,425					
1990	102,151	4,200	100,400	104,896	447,111	242,992	18,115	236,194	1,152,105	36,760	1,425					
2000	101,578	4,422	111,848	102,717	406,539	249,819	21,810	232,234	1,124,965	37,556	829					
2001	96,894	4,279	119,392	112,845	391,010	256,553	17,237	216,709	1,113,745	38,163	1,200					
2002	99,785	4,328	114,102	115,598	419,078	268,490	16,993	216,741	1,151,002	35,618	1,123					
2003	104,542	4,074	114,604	R 101,335	427,336	269,532	18,554	229,381	1,160,742	33,437	897					
2004 2005	105,922 105,327	3,933 _ 3,526	120,621 127,873	88,821 80,382	446,608 _ 413,487	275,724 278,350	21,548 26,026	246,810 236,345	1,200,131	40,435 38,232	1,301 1,333					
2005	103,763	R 3,460	141,350	81,452	R 422,030	285,419	27,958	240,963	1,162,464 R 1,199,172	30,232 41,264	662					
2007	104,779	3,542	144,541	75,409	433,291	290,606	32,671	231,486	1,208,003	40,955	1,644					
								Trillion Btu								
1960	25.0	2,815.5	142.1	58.6	294.0	482.4	142.0	432.8	1,552.0	0.0	11.9	38.3	0.0	-9.8	-0.6	4,432.1
1965	29.2	3,181.5	144.8	84.3	437.6	566.5	90.0	585.7	1,909.0	0.0	7.8	41.2	0.0	-10.3	-0.3	5,158.1
1970 1975	30.8 196.2	4,203.9 4,046.9	188.8 318.7	135.9 152.7	571.5 584.2	742.7 922.1	88.9 242.3	741.2 854.5	2,469.1 3,074.4	0.0 0.0	10.5 20.1	52.2 55.8	0.0 0.0	14.9 -24.3	-0.4 -1.2	6,781.0 7,367.8
1980	734.1	4,226.1	422.4	173.3	697.3	950.8	409.1	1,439.3	4,092.2	0.0	10.2	55.6	0.0	-24.3 -85.6	-1.2 -2.0	9,030.7
1985	1,149.0	3 514 4	465.9	420.5	925.7	1,079.1	180.5	927.0	3,998.8	0.0	14.6	78.8	0.0	70.0	2.8	8,828.5
1990	1,333.7	R 3,877.8	395.6	542.1	1,062.3	1,079.0	172.7	1,155.9	4,407.5	167.8	18.7	96.0	0.6	42.5	0.6	9,945.1
1995	1,364.8	4,037.5	513.3	470.5	1,341.9	1,113.0	141.7	1,182.0	4,762.6	379.8	17.6	99.5	0.9	-13.4	-3.2	10,646.1
1996	1,485.6	4,268.7	563.6	566.2	1,427.4	1,180.8	127.6	1,334.3	5,199.8 R 5,528.4	375.7	9.9	98.8	1.8	58.6	-3.5	11,495.4
1997 1998	1,523.2 1.488.6	4,231.6 4.378.0	571.2 620.2	R 599.0 R 616.0	1,623.8 1.615.9	1,172.9 1,234.1	138.9 160.4	1,422.5 1,353.4	N 5,528.4 R 5,599.9	392.0 405.8	18.3 14.5	102.6 93.7	1.8 1.9	58.6 53.9	-2.0 2.5	R 11,854.5 R 12.038.8
1990	1,400.0	4,138.1	610.0	594.8	1,609.8	1,254.1	113.9	1,335.9	5,530.5	384.1	11.5	78.4	4.4	22.0	0.6	11,700.0
2000	1,530.4	4,550.1	651.5	582.4	1,466.4	1,301.6	137.1	1,330.9	5,449.4	391.7	8.5	81.7	6.2	32.2	-0.1	12,067.9
2001	1,493.0	R 4,389.9	695.5	639.8	1,413.1	1,336.6	108.4	1,244.7	5,438.1	398.7	12.4	70.7	13.5	77.8	-1.5	11,892.5
2002	1,550.3	4,721.9	664.6	655.4	1,514.1	1,398.3	106.8	1,246.0	5,585.3	371.8	11.4	81.3	28.3	45.9	-0.7	12,395.5
2003	1,604.0	4,522.5	667.6	574.6	1,550.8	1,403.5	116.7	1,319.9	5,632.9	348.5	9.2	78.9	27.8	105.7	-0.7	12,328.7
2004	1,626.0	3,933.0	702.6	503.6	1,615.8	1,437.9	135.5	1,416.4	5,811.9	421.6	13.0	74.8 R 00.4	33.0	R 46.4	-0.7	R 11,959.1
2005 2006	1,627.9 1.610.3	3,625.1 R 3,549.5	744.9 823.4	455.8 461.8	1,496.8 R 1.521.4	1,452.4 1,489.3	163.6 175.8	1,361.8 1,397.0	5,675.3 R 5,868.7	399.0 430.6	13.3 6.6	R 80.1 R 78.9	44.1 68.1	95.1 132.7	-0.7 -0.7	R 11,559.2 R 11,744.6
2006	1,609.1	3,641.4	842.0	401.6 427.6	1,555.9	1,469.3	205.4	1,339.3	5.886.9	430.6 429.5	16.3	85.6	91.2	75.4	-0.7 -0.8	11,834.5

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Texas

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	System Energy Losses 9	Total d,f
1960	10	172	96	6	10,083	10,185	705			11,316			
1965	3	183	71	7	13,052	13,131	469			18,745			
1970	1	232 232	134 270	33	15,397	15,565	322			32,591			
1975	0	232	270	39	11,419	11,728	378			40,892			
1980	(s) 2	225 213	8	198	6,131 7,262	6,337	647			57,178			
1985 1990	2	213 211	27 2	112	7,262 6,133	7,402 6,161	1,319 1,107			71,740			
1990	2	206	6	26 22	3,319	3,347	688			82,548 92,831			
1996	0	229	(s)	38	2,312	2,351	715			99,656			
1997		235	(s)	45	3,503	3,548	543			101,094			
1998	(s) 2	199	(s)	31	4,552	4,583	483			110,434			
1999	1	176	(s) 2	31	9,091	9.125	508			108.591			
2000	1	194	3	30	10,755	10,788	546			116,895			
2001	2	208	1	58	12,217	12,276	588			117,343			
2002	8	210	4	17	10,943	10,964	597			121,435			
2003	18	207	(s)	18	10,127	10,146	628			121,355			
2004	1	192	145	12	7,348	7,504	644			120,330			
2005 2006	1	185 166	5	15	8,996 R 7,109	9,016 R 7,116	R 915 R 833			126,562 126,843			
2006	(s) (s)	200	(s) (s)	9	6,211	6,221	918			124,921			
					· · · · · · · · · · · · · · · · · · ·	Tı	illion Btu			· · · · · · · · · · · · · · · · · · ·			
1960	0.2	177.7	0.6	(e)	40.4	41.0	14.1	0.0	0.0	38.6	271.6	95.5	367.1
1965	0.1	189.3	0.4	(s)	52.4	52.8	9.4	0.0	0.0	64.0	315.5	152.7	468.3
1970	(s)	238.5	0.8	(s) (s) 0.2	58.2	59.2	6.4	0.0	0.0	111.2	415.3	269.2	684.4
1975	0.0	239.2	1.6	0.2	42.4	44.2	7.6	0.0	0.0	139.5	430.5	335.5	766.0
1980	(s)	231.7	(s) 0.2	1.1	22.5	23.7	12.9	0.0	0.0	195.1	463.5	470.2	933.7
1985	(s) 0.1	221.0		0.6	26.2	27.0	26.4	0.0	0.0	244.8	519.1	563.7	1,082.9
1990	0.1	219.5	(s)	0.1	22.2	22.4	22.1	0.2	0.4	281.7	546.3	651.3	1,197.6
1995	0.0	215.2	(s)	0.1	12.0	12.2 8.6	13.8	0.2 0.3	0.5 0.5	316.7	558.6	719.3	1,277.9
1996	0.0	237.7	(s)	0.2	8.4	8.6	14.3	0.3	0.5	340.0	601.4	773.2	1,374.6
1997 1998	(s)	242.1 209.4	(s)	0.3	12.7 16.5	12.9 16.6	10.9 9.7	0.3	0.5 0.6	344.9 376.8	611.6 613.4	781.5 854.5	1,393.1 1,467.9
1998	(s) (s)	209.4 182.5	(s) (s)	0.2 0.2	16.5 32.9	33.1	9.7 10.2	0.3 0.3	0.6	376.8 370.5	513.4 597.2	854.5 847.5	1,467.9
2000	(s)	_ 200.0	(s)	0.2	38.8	39.0	10.9	0.3	0.6	398.8	649.7	907.2	1,556.9
2000	(s)	R 213.4	(s)	0.2	44.2	44.5	11.8	0.3	0.6	400.4	670.9	892.2	1,563.2
2002	0.1	237.5	(s)	0.1	39.5	39.7	11.9	0.4	0.6	414.3	704.6	923.6	1,628.2
2003	0.4	239 7	(s)	0.1	36.8	36.9	12.6	0.5	0.6	414.1	704.6	913.7	1.618.3
2004	(s)	R 189.1	0.8	0.1	26.6	27.5	12 9	0.6	0.6	410.6	R 641.2	908.4	1,549.7
2005	(s)	190.3	(s)	0.1	32.6	32.7	R 18.3	0.7	0.6	431.8	R 674.4	944.5	1,549.7 R 1,618.9
2006	(s)	170.6	(s) (s)	(s) 0.1	R 25.6	R 25.7	R 16.7	0.8	0.6	432.8	^R 647.1	935.9	R 1,582.9 1,594.1
2007	(s)	205.9	(s)	0.1	22.3	22.4	18.4	0.9	0.7	426.2	674.5	919.6	1,594.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Texas

					Petro	oleum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total ^{f,h}
1960	7	60	595	656	1,779	663	191	3,884	0			9,801			
1965	3	81	440	788	2,303	711	64	4,307	0			14,804			
1970	1	146	830	3,603	2,717	692	78	7,920	0			22,869			
1975 1980	0	117 169	1,669 2,842	4,192	2,015 1,082	687 3,299	677	9,240	0			33,884			
1980	5	152	2,842 6,778	3,251 250	1,082	3,299 1,954	2,569 252	13,043 10,516	0			44,062 60,150			
1990	8	172	2,225	25	1,082	2,294	71	5,696	0			70,781			
995	ŏ	210	2,669	46	586	164	(s)	3,465	ŏ			80,354			
996	0	179	2.680	38	408	163	Ó	3.289	0			83,477			
997	(s)	216	2,411	38	618	163	0	3,230	0			85,162			
998	1 <u>3</u>	170	3,072	52	803	163	0	4,091	0			91,548			
999	7	172	2,871	57	1,604	165	0	4,696	0			93,492			
.000 .001	11 15	190 172	5,657 3,627	48 84	1,898 2,156	167 176	0 11	7,770 6,054	0			99,748 102,459			
001	58	226	2,316	58	1,931	176	23	4,506	0			97.115			
002	122	219	2,626	35	1,787	177	0	4,625	0			96,694			
004	10	193	1,796	34	1,297	178	Õ	3,306	Õ			99,616			
005	11	160	2.717	44	1.587	180	0	4.528	0			110,784			
2006	(s) (s)	R 147	2,420	74	R 1,254	187	0	R 3,935	0			111,130			
2007	(s)	161	2,441	43	1,096	372	14	3,966	0			110,540			
								Trillion Btu							
960	0.1	61.8	3.5	3.7	7.1	3.5	1.2	19.0	0.0	0.3	0.0	33.4	114.6	82.7	197.3
965	(s)	83.6	2.6	4.5	9.2	3.7	0.4	20.4	0.0	0.2	0.0	50.5	154.7	120.6	275.3
970	(s)	150.0	4.8	20.4	10.3	3.6	0.5	39.7	0.0	0.1	0.0	78.0	267.9	188.9	456.7
975 980	0.0	120.2 173.7	9.7 16.6	23.8 18.4	7.5 4.0	3.6 17.3	4.3 16.2	48.8 72.4	0.0 0.0	0.1 0.3	0.0 0.0	115.6 150.3	284.8 396.8	278.0 362.4	562.8 759.2
960 985	(s) 0.1	157.7	39.5	1.4	4.0	10.3	1.6	72.4 57.4	0.0	0.6	0.0	205.2	421.1	302.4 472.7	893.8
990	0.1	179.6	13.0	0.1	3.9	12.0	0.4	29.5	0.0	2.5	(s)	241.5	453.3	558.5	1,011.8
995	0.0	218.5	15.5	0.3	2.1	0.9	(s)	18.8	0.0	1.9	0.1	274.2	513.5	622.6	1,136.1
996	0.0	185.1	15.6	0.2	1.5	0.9	(s) 0.0	18.1	0.0	2.1	0.2	284.8	490.3	647.7	1,136.1 1,138.0
997	(s)	222.8	14.0	0.2	2.2	0.8	0.0	17.3	0.0	1.9	0.2	290.6	532.8	658.3	1,191.2
998	0.3	178.0	17.9	0.3	2.9	0.9	0.0	21.9	0.0	1.7	0.2	312.4	514.6	708.4	1,223.0
999	0.1	178.2	16.7	0.3	5.8	0.9	0.0	23.7	0.0	1.8	0.2	319.0	523.0	729.7	1,252.7
000	0.2	196.8	33.0	0.3	6.8	0.9	0.0	40.9	0.0	1.9 2.2	0.2	340.3	580.4	774.1	1,354.6
001 002	0.4 1.1	175.9 256.0	21.1 13.5	0.5 0.3	7.8 7.0	0.9 0.9	0.1 0.1	30.4 21.9	0.0 0.0	2.2	0.3 0.3	349.6 331.4	558.6 612.8	779.1 738.6	1,337.7 1,351.5
002	2.4	255.0 253.4	15.3	0.3	7.0 6.5	0.9	0.1	21.9	0.0	2.3	0.3	331.4	611.8	738.6	1,331.5
003	0.3	190.5	10.5	0.2	4.7	0.9	0.0	16.3	0.0		0.4	339.9	549.9	752.1	1 301 9
005	0.3	164.4	15.8	0.2	5.7	0.9	0.0	22.8	0.0	2.5 R 3.3	0.5	378.0	569.3	826.8	R 1 396 1
2006		151.2	14.1	0.4	R 4.5	1.0	0.0	R 20.0	0.0	R 3.2	0.5	379.2	554.1	819.9	R 1.374.0
2007	(s) (s)	166.3	14.2	0.2	3.9	1.9	0.1	20.4	0.0	3.4	0.6	377.2	567.8	813.8	1,381.6

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Texas

					Petro	leum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	1,031	2,029	10,118	59,411	3,798	4,615	66,692	144,635	0			14,602			
1965	1,136	2,098	8,519	89,166	2,563	1,879	92,985	195,111	ŏ			23,685			
1970	1,150	2,557	8,947	127,521	1,410	2,297	118,609	258,783	0			40,274			
1975	3,720	2,160	15,301	138,844	997	11,070	138,608	304,819	5			54,712			
1980	3,250	2,163 1.732	20,250	181,940	470	16,029	244,509	463,198	0			78,190			
1985 1990	5,192 4,157	2,105	19,330 17,592	247,779 285,349	4,704 4,336	5,969 1,273	156,484 197,638	434,265 506,188	0			81,235 84,087			
1995	4,157	2,188	19,960	366,168	3,944	2,459	201,925	594,456	0			90,093			
1996	4,808	2,442	23,185	392,068	4,040	2,092	229,967	651,352	0			95,308			
1997	4,766	2,351	21,893	444,688	4,236	1,847	245,101	717,766	Ö			100,429			
1998	4,422	2,329	23,835	441,020	4,961	856	232,909	703,580	0			102,702			
1999	4,397	2,146	21,472	434,130	2,501	635	230,854	689,593	0			99,741			
2000	4,490	2,397	21,192	393,652	2,576	401	226,718	644,540	0			101,588			
2001 2002	4,439 4,047	2,321	20,895	376,051	4,632	519	212,223	614,320	0			98,208			
2002	4,047	2,251 2,137	19,710 19,010	405,724 414.937	5,005 5,244	796 1.408	211,430 225,885	642,665 666,483	0			102,251 104,547			
2003	4,132	2,137	16,873	437,390	6,023	1,406	241,963	703,325	0			104,547			
2005	4,082	1,632	20,031	402 436	5,766	3,537	231,368	663,138	0			96,841			
2006	4,102	1,595	20,274	402,436 R 413,147	6,096	3,923	235,824	R 679,264	ő			104,689			
2007	1,863	1,616	22,582	425,622	4,580	3,121	227,182	683,086	0			108,300			
							Tr	illion Btu							
1960	24.4	2,100.3	58.9	238.3	19.9	29.0	401.8	748.0	0.0	23.9	0.0		2,946.5	123.2	3,069.7
1965	29.0 30.7	2,175.3	49.6	357.6	13.5	11.8	552.7	985.2	0.0		0.0		3,301.1	193.0	3,494.1
1970 1975	30.7 77.7	2,626.3 2,224.0	52.1 89.1	481.9 515.8	7.4 5.2	14.4 69.6	700.6 813.4	1,256.5 1,493.1	0.0 0.1	44.6 47.2	0.0		4,095.5 4,028.6	332.6 448.9	4,428.1 4,477.6
1975	63.3	2,229.7	118.0	668.4	2.5	100.8	1,401.8	2,291.4	0.0		0.0		4,892.8	643.0	5,535.8
1985	85.4	1,799.3	112.6	892.7	24.7	37.5	907.8	1,975.4	0.0	48.7	0.0		4,186.0	638.4	4,824.4
1990	61.5	R 2,194.1	102.5	1,034.4	22.8	8.0	1,139.5	2,307.2	0.0		0.0		4,917.2	663.5	5,580.6
1995	63.7	2,280.6	116.3	1,326.6	20.6	15.5	1,152.3	2,631.2	0.0	83.4	0.0		5,366.2	698.1	6,064.3
1996	73.8	2,531.9	135.1	1,416.5	21.1	13.2	1,304.4	2,890.2	0.0		0.0		5,903.0	739.5	6,642.5
1997	74.1	2,421.8	127.5	1,608.0	22.1	11.6	1,392.3	3,161.5	0.0	89.1	0.0	342.7	6,089.2	776.3	6,865.6
1998	62.9	2,445.0	138.8	1,593.8	25.9	5.4	1,322.8	3,086.7	0.0		0.0		6,026.7	794.7	6,821.4
1999	62.6	2,227.0	125.1	1,569.8	13.0	4.0	1,304.4	3,016.3	0.0		0.0		5,711.9	778.4 788.4	6,490.3 6.590.6
2000 2001	73.1 75.5	R 2,477.4 R 2,376.0	123.4 121.7	1,419.9 1.359.0	13.4 24.1	2.5 3.3	1,277.8 1,218.1	2,837.1 2,726.3	0.0 0.0		0.0		5,802.2 5,567.9	788.4 746.7	6,590.6 6,314.6
2001	75.5 71.6	2,546.3	121.7	1,359.0	26.1	5.0	1,218.1	2,726.3	0.0	65.0	0.0	348.9	5,858.0	746.7 777.7	6,635.7
2002	72.5	2 477 8	110.7	1,505.8	27.3	8.9	1,299.3	2,952.0	0.0		0.0		5 919 1	787.1	R 6,706.3
2004	70.9	R 2,069.8	98.3	1,582.5	31.4	6.8	1,387.7	3,106.6	0.0		0.0		R 5,647.1	759.4	R 6,406.5
2005	70.1	1 677 6	116.7	1 456 8	30.1	22.2	1,332.3	2 958 1	0.0	55.8	0.0	330.4	5 092 0	722.7	5 814 7
2006	70.9	R 1,637.0	118.1	R 1,489.4	31.8	24.7	1,366.5	R 3,030.5	0.0	R 56.3	0.0	357.2	R 5,152.0	772.4	R 5,924.4
2007	40.3	1,666.9	131.5	1,528.4	23.9	19.6	1,313.8	3,017.3	0.0	59.6	0.0	369.5	5,153.7	797.3	5,950.9

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Texas

						Pe	troleum								[
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960 1965	18 4	52 68	3,261 3,457	13,571 15,810	10,842	2,024	1,780	87,381	17,736	136,595 157,957	0	8			
1900	2	96	2,007	22,454	15,365 24,430	4,588 5,587	1,814 1,623	104,577 139,292	12,346 11,667	207,059	0	0			
1975	1	82	1,312	37,391	27,308	4,969	1,738	173,854	25,049	271,622	0	0			
1980	0	105	1.264	48,286	30.934	649	1,909	177,228	45,812	306,082	0	0			
1985	0	92	1,317	53,074	74,500	609	1,738	198,761	21,610	351.609	781	0			
1990	0	106	838	47,369	95,903	479	1,955	198,773	25,865	371,182	565	0			
1995 1996	0	82 76	645 625	64,957 70,191	83,002 99,870	322 274	1,865 1,810	209,319 222,177	20,024 17,866	380,135	1,192 444	U 8			
1997	0	82	658	73,424	R 105,655	246	1,912	220,599	20,220	412,812 R 422,714 R 447,285	1.048	19			
1998	ő	67	555	79,063	R 108,635	735	2,002	231,655	24,640	R 447,285	1,549 1,349	21			
1999	0	71	796	79,575	104,896	365	2,023	240,326	17,471	445.453	1,349	19			
2000	0	63	609	82,848	102,717	234	1,992	247,076	21,007	456,482	1,545 1,552	30			
2001	0	71 91	468 533	91,945 91,635	112,845	586 480	1,826 1,804	251,744 263,306	16,090 16,088	475,504 R 489,445	1,552 676	34 44			
2002 2003	0	58	533 511	90,414	115,598 R 101,335	480 485	1,804	264,111	16,088	475,172	550	90			
2003	0	58	485	101,506	88,821	573	1,690	269,523	20,281	482,878	650	81			
2005	Ö	83	512	104,804	80.382	468	1,681	272,404	22,460	482.711	R 393	71			
2006	0	87	495	118,413	81,452	520	1,638	279,135	23,981	505,634	R 10,594	62			
2007	0	92	493	119,276	75,409	362	1,691	285,654	29,491	512,376	15,203	67			
								Trillion Btu							
1960	0.3	54.1	16.5	79.1	58.6	8.1	10.8	459.0	111.5	743.5	0.0	(s) (s)	797.9	0.1	798.0
1965 1970	0.1	70.0 98.8	17.5	92.1 130.8	84.3	18.4 21.1	11.0 9.8	549.3 731.7	77.6 73.3	850.3	0.0	(s)	920.4 1,211.7	(s)	920.4
1970	(s)	98.8 84.6	10.1 6.6	217.8	135.9 152.7	18.5	10.5	913.3	73.3 157.5	1,112.9 1,476.8	0.0 0.0	0.0 0.0	1,211.7	0.0 0.0	1,211.7 1,561.4
1980	(s) 0.0	108.1	6.4	281.3	173.3	2.4	11.6	931.0	288.0	1,693.9	0.0	0.0	1,801.9	0.0	1,801.9
1985	0.0	95.6	6.6	309.2	420.5	2.2	10.5	1,044.1	135.9	1.929.0	2.8	0.0	2.027.4	0.0	2,027.4
1990	0.0	110.5	4.2	275.9	542.1	1.7	11.9	1,044.2	162.6	2,042.7	2.0	0.0	2,155.2	0.0	2,155.2
1995	0.0	85.7	3.3	378.4	470.5	1.2	11.3	1,091.6	125.9	2,082.1 2,261.4	4.2	0.0	2,167.8	0.0	2,167.8
1996	0.0	78.8	3.2	408.9	566.2	1.0	11.0	1,158.9	112.3	2,261.4	1.6	(s) 0.1	2,340.2	0.1	2,340.3
1997 1998	0.0 0.0	84.8 69.9	3.3 2.8	427.7 460.5	R 599.0 R 616.0	0.9 2.7	11.6 12.1	1,150.0 1,207.4	127.1 154.9	R 2,319.7 R 2,456.4	3.7 5.5	0.1 0.1	R 2,404.6 R 2,526.4	0.1 0.2	R 2,404.7 R 2,526.5
1990	0.0	74.0	4.0	463.5	594.8	1.3	12.1	1,252.3	109.8	2,438.1	4.8	0.1	2,512.2	0.2	2,512.3
2000	0.0	65.2	3.1	482.6	582.4	0.8	12.1	1,287.3	132.1	2,500.3	5.5	0.1	2,565.6	0.2	2,565.8
2001	0.0	73.0	2.4	535.6	639.8	2.1	11.1	1,311.6	101.2	2,603.7	5.5	0.1	2,676.8	0.3	2,677.1
2002	0.0	102.7	2.7	533.8	655.4	1.7	10.9	1,371.3	101.1	2,677.0	2.4	0.2	2,779.9	0.3	2,780.2
2003	0.0	67.7	2.6	526.7	574.6	1.8	10.1	1,375.2	104.7	2,595.6	1.9	0.3	2,663.6	0.7	2,664.3
2004	0.0	R 57.3	2.4	591.3	503.6	2.1	10.2	1,405.6	127.5	2,642.7	2.3 R 1.4	0.3	R 2,700.3	0.6	2,701.0
2005 2006	0.0 0.0	85.4 R 89.4	2.6	610.5 689.8	455.8 461.8	1.7 1.9	10.2 9.9	1,421.4 1,456.5	141.2 150.8	2,643.3 2,773.2	R 37.5	0.2 0.2	2,729.0 R 2,862.8	0.5 0.5	2,729.5 R 2,863.3
2006	0.0	94.5	2.5 2.5	694.8	401.8 427.6	1.9	10.3	1,490.8	185.4	2,773.2 2,812.6	53.8	0.2 0.2	2,907.4	0.5 0.5	2,863.3

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Texas

				Petro	oleum				Biomass				=	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Mand	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	0	407	43	18	0	61	0	1,102		0	0	0	-175	
1965	0	640	33	14	0	47	0	743		0	0	0	-82	
1970	0	1,062	104	45	0	149	0	1,005		0	0	0	-122	
1975	9,044	1,353	1,740	75	0	1,815	0	1,922		0	0	0	-343	
1980	45,351	1,430	660	1,126	0	1,786	0	979		0	0	0	-581	
1985 1990	71,818 87,248	1,198	881 254	775 721	0	1,657 975	0 15,859	1,401 1,794		0	0	0	-4 -63	
1990	88,358	1,134 1,207	62 62	534	2,460	3,055	36,151	1,794		0	(s) (s)	0	-03 -925	
1996	94,190	1,206	335	696	2,537	3,568	35,767	960		0	(s)	83	-1,024	
1997	96,537	1,232	24	334	2,472	2,830	37,358	1,791		0	(s)	81	-577	
1998	94,661	1,441	11	509	2,521	3,041	38,685	1,425		Õ	(s)	80	734	
1999	97,746	1,445	10	796	2.433	3,239	36.760	1,120		0	(s)	320	185	
2000	97,076	1,578	401	2,147	2,836	5,385	37,556	829		0	(s)	492	-16	
2001	92,438	1,506	617	2,924	2.051	5,591	38,163	1.200		0	(s)	1,188	1	
2002	95,673	1,550	86	437	2,899	3,422	35,618	1,123		0	Ó	2,656	-219	
2003	100,269	1,454	498	2,554	1,264	4,316	33,437	897		0	0	2,570	-217	
2004	101,763	1,394	190	300	2,628	3,118	40,435	1,301		0	0	3,138	-216	
2005	101,233	1,466	29	317	2,726	3,071	38,232	1,333 662		0	0	4,237	-220	
2006 2007	99,661 102,916	1,464 1,474	55 46	242 241	2,926 2,068	3,224 2,355	41,264 40,955	662 1,644		0	0	6,671 9,006	-212 -243	
2007	102,910	1,474	40	241	2,000	2,300	*	,		0	0	9,000	-243	
							Trillion E	Btu						
1960	0.0	421.6	0.3	0.1	0.0	0.4	0.0	11.9	0.0	0.0	0.0	0.0	-0.6	433.2
1965	0.0	663.2	0.2	0.1	0.0	0.3	0.0	7.8	0.9	0.0	0.0	0.0	-0.3	671.9
1970 1975	0.0 118.5	1,090.3 1,379.0	0.7 10.9	0.3 0.4	0.0 0.0	0.9 11.4	0.0 0.0	10.5 20.0	1.0 0.9	0.0 0.0	0.0 0.0	0.0 0.0	-0.4 -1.2	1,102.4 1,528.6
1975	670.8	1,482.9	4.2	6.6	0.0	10.7	0.0	10.2	0.9	0.0	0.0	0.0	-1.2 -2.0	2,173.4
1985	1,063.4	1,240.7	5.5	4.5	0.0	10.7	0.0	14.6	3.1	0.0	0.0	0.0	-2.0 (s)	2,331.9
1990	1,271.9	R 1,174.0	1.6	4.2	0.0	5.8	167.8	18.7	3.3	0.0	(s)	0.0	(s) -0.2	2,640.8
1995	1,301.1	1,237.7	0.4	3.1	14.8	18.3	379.8	17.6	0.4	0.0	(s)	0.0	-3.2	2,951.7
1996	1,411.8	1,235.1	2.1	4.1	15.3	21.4	375.7	9.9	0.6	0.0	(s)	0.9	-3.5	3,051.9
1997	1,449.1	1,260.0	0.2	1.9	14.9	17.0	392.0	18.3	0.7	0.0	(s)	0.8	-2.0	3,135.9
1998	1,425.3	_ 1,475.6	0.1	3.0	15.2	18.2	405.8	14.5	0.7	0.0	(s)	0.8	2.5	3,343.5
1999	1,467.7	R 1,476.4	0.1	4.6	14.7	19.4	384.1	11.5	0.7	0.0	(s)	3.3	0.6	3,363.6
2000	1,474.9	1,610.7	2.5	12.5	17.1	32.1	391.7	8.5	0.9	0.0	(s)	5.0	-0.1	3,523.7
2001	1,417.1	R 1,551.6	3.9	17.0	12.4	33.3	398.7	12.4	0.9	0.0	(s)	12.3	(s) -0.7	3,425.7
2002	1,477.5	1,579.4	0.5	2.5	17.5	20.6	371.8	11.4	2.2 3.4	0.0	0.0	27.0		3,489.1
2003	1,528.8	1,483.8 R 1,426.2	3.1 1.2	14.9	7.6	25.6	348.5 421.6	9.2	3.4 2.9	0.0 0.0	0.0 0.0	26.3	-0.7	3,424.9 R 3,468.1
2004 2005	1,554.8 1,557.5	1,507.4	0.2	1.8 1.8	15.8 16.4	18.8 18.4	399.0	13.0 13.3	2.9	0.0	0.0	31.4 42.4	-0.7 -0.7	3,539.9
2005	1,539.4	1,507.4	0.2	1.8	17.6	18.4	430.6	6.6	2.7	0.0	0.0	42.4 66.2	-0.7 -0.7	3,565.3
2007	1,568.7	1,507.8	0.3	1.4	12.5	14.1	429.5	16.3	4.2	0.0	0.0	89.0	-0.7	3,628.9
	1,000.7	1,007.0			12.0	1 1.1	120.0	10.0	1.4					

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Utah

						Petroleum				Nueleen	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	3,449	70	3,775	1,003	452	7,813	5,715	3,584 4,251	22,341	0	304					
1965 1970	2,857 3,025	108 122	4,193 5,107	1,244 1,808	677 939	9,001 12,308	5,662 4,656	4,251 4,632	25,029 29,450	0	913 741					
1975	4,636	124	9,165	1,903	1,169	15,063	4,603	4,488	36,391	0	1,074					
1980	7,106	115	8,401	2,637	1,301	15,534	3,495	4,615	35,983	0	821					
1985 1990	8,303 15,738	115 117	5,715 7,162	3,808 5,281	1,486 1,074	16,240 16,724	431 367	4,129 4,475	31,809 35,082	0	1,019 508					
1995	15,736	157	8,469	5,658	1,531	20,771	294	4,995	41,718	0	969					
1996	15,615	161	8.746	6,303	2,621	21,170	87	5,703	44 628	0	1,049					
1997 1998	16,507 17,482	165 170	9,976 10,398	R 6,279 R 6,379	750 430	22,024 22,735	149 96	5,349 5,413	R 44,529 R 45,452	0	1,344 1,315					
1999	16,611	160	9,793	7,443	1,013	23,141	60	5,356	46,806	0	1,255					
2000	17,373	165	10.629	7,701	1,804	23 895	71	5.080	49.179	0	746					
2001	16,748	159	11,236	6,880	1,988	22,993	18	5,052	48,167	0	508					
2002 2003	16,434 16,975	163 154	11,482 11,731	6,416 6,758	1,280 716	24,158 24,325	82 111	4,188 6,256	47,607 49,897	0	458 421					
2004	18,150	156	12,264	7,137	805	24,744	171	5,503	50,625	ő	450					
2005	18,594	₂ 160	13,717	7,394	1,473	24,677	220	5,498	52,978	0	784					
2006 2007	17,324 17,522	R 187 220	17,292 15,946	7,560 7,085	R 1,399 1,453	25,312 26,054	243 309	5,209 4,842	R 57,015 55,689	0 0	747 539					
								Trillion Btu								
1960	91.0	72.4	22.0	5.4	1.8	41.0	35.9	21.5	127.6	0.0	3.3	2.2	0.0	6.8	0.0	303.3
1965 1970	75.4 78.8	99.8 114.4	24.4 29.8	6.8 10.0	2.7 3.5	47.3 64.7	35.6 29.3	25.6 28.6	142.4 165.8	0.0 0.0	9.5 7.8	2.0 2.3	0.0	10.5 28.0	0.0	339.6 397.0
1975	115.7	118.0	53.4	10.6	4.3	79.1	28.9	27.5	203.9	0.0	11.2	2.9	0.0	29.3	0.0	480.9
1980	168.3	125.0	48.9	14.6	4.8	81.6	22.0	28.5	200.4	0.0	8.5	4.5	0.0	-1.7	0.0	504.9
1985 1990	199.4 366.8	123.8 126.9	33.3 41.7	21.3 29.7	5.4 3.9	85.3 87.9	2.7 2.3	26.0 27.7	174.0 193.2	0.0 0.0	10.6 5.3	6.9 3.4	2.3 3.7	-16.1 -147.8	(s) (s)	500.9 551.5
1995	361.4	166.9	49.3	31.8	5.5	108.3	1.9	31.4	228.3	0.0	10.0	3.6	3.5	-128.5	0.0	645.2
1996	360.0	168.1	50.9	35.7	9.5	110.4	0.5	35.7	242.8	0.0	10.8	3.8	4.6	-115.4	0.0	674.7
1997 1998	375.1 396.1	172.2 178.0	58.1 60.6	35.6 R 36.2	2.7 1.6	114.8 118.5	0.9 0.6	33.3 34.1	245.5 251.5	0.0 0.0	13.7 13.4	4.4 3.9	4.1 3.9	-123.1 -129.3	0.1	692.1 717.5
1998	396.1	178.0	57.0	42.2	3.7	120.6	0.6	33.7	257.5 257.5	0.0	13.4	5.4	3.9	-129.3	(s) 0.0	717.5
2000	403.1	173.4	61.9	43.7	6.5	124.5	0.4	32.0	269.0	0.0	7.6	5.7	3.8	-112.4	0.0	750.3
2001	384.5	167.6	65.4	39.0	7.2	119.8	0.1	31.1	262.6	0.0	5.3	3.4	3.8	-109.0	0.0	718.1
2002 2003	370.6 379.2	172.9 163.1	66.9 68.3	36.4 38.3	4.6 2.6	125.8 126.7	0.5 0.7	25.4 39.0	259.6 275.6	0.0 0.0	4.7 4.3	3.4 3.4	5.2 4.7	-122.1 -126.7	(s)	694.2 703.7
2004	399.7	164.9	71.4	40.5	2.9	129.0	1.1	33.9	278.8	0.0	4.5	3.5	4.7	-117.2	(s) 0.1	R 739.1
2005	405.5	168.9	79.9	41.9	5.3	128.8	1.4	33.7	291.0	0.0	7.8	R 6.2	4.6	-125.5	0.1	R 758.8
2006 2007	382.8 391.3	R 198.1 232.2	100.7 92.9	42.9 40.2	R 5.0 5.2	132.1 136.0	1.5 1.9	31.7 29.4	R 314.0 305.6	0.0 0.0	7.4 5.3	R 5.8 6.2	4.7 4.2	-125.0 -139.2	(s) -0.1	R 787.8 805.5
2001	371.3	202.2	52.9	40.2	J.Z	130.0	1.9	23.4	303.0	0.0	3.3	0.2	4.2	-105.2	-0.1	000.

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Utah

				Petro	leum		Biomass						
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960	147	23	100	1	249	349	92			1,012			
1965	103	31	98	20	505	624	79			1,243			
1970	61	45	143	6	694	844	87			1,688			
1975	39	60	357	4	564	925	101			2,493			
1980	50 55 53	58 59	112 67	0	349	460 707	189 301			3,116			
1985 1990	55	59	139	10 5	631 424	707	301 148			3,985 4,246			
1990	10	43 49	72	3	210	567 285	150			4,246 5,041			
1996	11	54	74	4	251	329	155			5,481			
1997	14	54 58	88	5	489	329 582	177			5,661			
1998	12	57	70	4	148	222	157			5,756			
1999	14	57 55	79	4	312	396	166			6,236			
2000	6	56 55	79	4	590	672	178			6,514			
2001	7	55	91	3	1,003	1,097	99			6,693			
2002 2003	24 8	59 55	83 67	2 2	621 548	705 618	101 106			6,938 7,166			
2003	8 21	55 61	85	2	548 569	655	_ 109			7,166 7,325			
2004	4	58	26	1		970	R 225			7,567			
2006	3	60	29	2	943 R 797	R 828	R 205			8,232			
2007	2	61	28	2	816	847	226			8,752			
						Tı	illion Btu						
1960	3.8	23.4	0.6	(s) 0.1	1.0	1.6	1.8	0.0	0.0	3.5	34.1	8.5	42.6
1965	2.7	28.4	0.6		2.0	2.7	1.6	0.0	0.0	3.5 4.2	39.6	10.1	49.7
1970	1.5	41.9	0.8	(s)	2.6	3.5	1.7	0.0	0.0	5.8	54.4	13.9	68.3
1975	0.9 1.2	56.8 62.9	2.1	(s)	2.1	4.2 1.9 2.7	2.0	0.0	0.0	8.5	72.4	20.5	92.9
1980	1.2	62.9	0.6	0.0	1.3	1.9	3.8	0.0	0.0	10.6	80.4	25.6	106.1
1985 1990	1.3 1.2	63.1 47.3	0.4 0.8	0.1	2.3 1.5	2.7	6.0 3.0	0.0	0.0	13.6 14.5	86.8 68.4	31.3 33.5	118.1 101.9
1990	1.2	47.3 52.1	0.0	(s) (s)	1.5	2. 4 1.2	3.0	0.1 0.1	(s) 0.1	17.2	73.8	39.1	101.9
1996	0.2 0.3	52.1 56.7	0.4 0.4	(s)	0.8 0.9	1.2 1.4	3.1	0.1	0.1	18.7	80.2	42.5	112.9 122.7
1997	0.3	60.6	0.5	(s)	1.8	2.3	3.5	0.1	0.1	19.3	86.2	43.8	129.9
1998	0.3	59.5	0.4	(s)	0.5	1.0	3.1	0.1	0.1	19.6	83.6	44.5	128.2
1999	0.3	58.6	0.5	(s)	1.1	1.6	3.3	(s)	(s)	21.3	85.2	48.7	133.8
2000	0.1	58.5 57.9	0.5	(s)	2.1	2.6	3.6	(s)	(s)	22.2	87.1	50.6	137.7
2001	0.2	57.9	0.5	(s)	3.6	4.2	2.0	(s)	(s)	22.8	87.1	50.9	138.0
2002	0.6	63.2	0.5	(s)	2.2	2.7	2.0	(s)	(s)	23.7	92.2	52.8	145.0
2003	0.2	58.1	0.4	(s)	2.0	2.4	2.1	(s)	(s)	24.5	87.3	54.0	141.3
2004 2005	0.5 0.1	64.3 61.2	0.5 0.2	(s)	2.1 3.4	2.6 3.6	2.2 R 4.5	(s)	(s)	25.0 25.8	94.6 R 95.3	55.3 56.5	149.9 R 151.7 R 159.6
2005	0.1	63.5	0.2	(s) (s)	2.4	3.0	R 4.1	(s) (s)	(s)	28.1	R 98.9	56.5 60.7	R 151.7
2007	(s)	64.4	0.2	(s)	2.9 2.9	3.1	4.5	(s)	(s) 0.1	29.9	102.0	64.4	166.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Utah

					Petro	oleum				Biomass		B . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^c	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Waad		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal ^f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses	Total f,h
1960	102	10	362	6	44	281	656	1,349	0			640			
1965	78	16	356	148	.89	234	1,072	1,899	0			1,128			
1970 1975	48	10 6	521 1,300	46	122	202	795 1,098	1,687 2,736	0			1,890 2,479			
1975	92 187	(s)	1,300	28 34	99 62	210 81	1,098	2,736	0			2,479 3.141			
1985	197	9	484	19	111	88	45	747	0			4,596			
1990	214	16	364	5	75	96	73	613	ő			5,389			
1995	67	27	382	1	37	21	13	454	0			6,462			
1996	83	30	374	3	44	21	14	456	0			6,717			
1997	109	31	406	4	86	21	11	527	0			7,285			
1998 1999	101 100	31 30	524 593	5	26 55	21 21	3 10	579 682	0			7,433 8.074			
2000	52	31	366	4	104	22	16	513	0			8.746			
2001	53	31	696	8	177	23	18	922	ŏ			9.102			
2002	174	34	558	4	110	23	0	694	0			9,293			
2003	53	31	527	5	97	23	0	652	0			9,024			
2004	192	31	490	. 8	100	24	0	622	0			9,345			
2005	41 R 32	34 34	343	11	166 R 141	24	3	548 R 609	0			9,417 9,749			
2006 2007	19	34 34	437 452	6 4	144	25 25	0	625	0			10,241			
								Trillion Btu							
1960	2.6	10.5	2.1	(s)	0.2	1.5	4.1	7.9	0.0	(s)	0.0	2.2	23.3	5.4	28.7
1965	2.0	14.4	2.1	0.8	0.4	1.2	6.7	11.2	0.0 0.0	(s)	0.0	3.8	31.5	9.2	40.7
1970	1.2	9.5	3.0	0.3	0.5	1.1	5.0	9.8		(s)	0.0	6.4	27.0	15.6	42.6
1975	2.2	5.8	7.6	0.2	0.4	1.1	6.9	16.1	0.0	(s)	0.0	8.5	32.5	20.3	52.9
1980 1985	4.3 4.6	0.4 9.1	6.0 2.8	0.2	0.2 0.4	0.4 0.5	6.6 0.3	13.4 4.1	0.0 0.0	0.1 0.1	0.0 0.0	10.7 15.7	28.9 33.7	25.8 36.1	54.8 69.8
1905	4.6	17.7	2.0	0.1 (s)	0.4	0.5	0.5	3.4	0.0	0.1	0.0	18.4	33.7 44.8	42.5	87.4
1995	1.6	28.5	2.2	(s)	0.1	0.1	0.3	2.6	0.0	0.4	0.1	22.0	55.2	50.1	105.3
1996	1.9	30.8	2.2	(s)	0.2	0.1	0.1	2.6	0.0	0.4	0.1	22.9	58.8	52.1	110.9
1997	2.5	32.4	2.4	(s)	0.3	0.1	0.1	2.9	0.0	0.6	0.1	24.9	63.4	56.3	119.8
1998	2.4	32.4	3.1 3.5	(s)	0.1	0.1	(s) 0.1	3.3 3.8	0.0	0.5	0.2	25.4	64.1	57.5	121.6
1999	2.3	32.1	3.5	(s)	0.2	0.1		3.8	0.0	0.5	0.2	27.5	66.5	63.0	129.5
2000	1.2	32.9	2.1	(s)	0.4	0.1	0.1	2.7	0.0	0.6	0.2	29.8	67.4	67.9	135.3
2001 2002	1.2 4.1	32.5 35.6	4.1 3.3	(s) (s)	0.6 0.4	0.1 0.1	0.1 0.0	5.0 3.8	0.0 0.0	0.3 0.4	0.2 0.2	31.1 31.7	70.3 75.8	69.2 70.7	139.5 146.5
2002	1.3	33.0	3.3 3.1	(S)	0.4	0.1	0.0	3.6	0.0	0.4	0.2	30.8	69.2	67.9	137.1
2003	4.5	33.1	2.9		0.4	0.1	0.0	3.4	0.0	0.4	0.2	31.9	_ 73.5	R 70.6	
2005	1.0	36.3	2.0	(s) 0.1	0.6	0.1	(s)	2.8	0.0	R 0.7	0.3	32.1	R 73 2	70.3	144.0 R 143.5
2006	0.8	36.0	2.5	(s)	0.5	0.1	(s) 0.0	3.2	0.0	R 0.8	0.3	33.3	R 74.3	71.9	R 146.2
2007	0.4	36.6	2.6	(s)	0.5	0.1	0.0	3.3	0.0	0.8	0.3	34.9	76.4	75.4	151.8

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Utah

					Petro	leum				Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	2.640	33	990	124	299	2,399	2.831	6,642	(s)			1,822			
1965	2,640 2,306	33 57	1,163	70	233	2,895	2,831 3,550	7,910	(s) 3			1,404			
1970	2.477	63	1,564	116	261	2,068	4,240	8.249	3			1,648			
1975	2,478	55	3,356	495	266	3,285	4,138	11,541	0			2,968			
1980	1,974	51	2,220	876		2,386	4,249	9,897	0			4,448			
1985 1990	1,726	46	989	668	220	360 245	3,831	6,068	0			4,458			
1990	1,907 1,905	55 69	1,520 1,383	524 1,252	198 323	245 282	4,161 4,738	6,649 7,977	0			5,766 6,957			
1995	1,559	69	1,360	2,301	331	73	5.460	9,525	0			7,660			
1997	1,729	69 69	1,803	160	334	139	5,086	7,522	0			7,430			
1998	2,275	73	2,188	254	248	94	5,150	7,934	Ö			7,511			
1999	1,486	65	1,783	612	236	50	5,070	7,750	Ö			7,568			
2000	2,151	64	1,730	1,068	240	54	4,785	7,877	0			7,917			
2001	1,783	54	1,802	752	500	0	4,781	7,834	0			7,411			
2002	592	49	1,819	503	517	82	3,930	6,851	0			7,019			
2003	611	46	2,400	47	551	111	6,019	9,129	0			7,646			
2004	1,330	46	2,095	88	591	171	5,244	8,188	0			7,816			
2005	1,431 680	46 53	3,252 3,683	317 R 398	587	217 242	5,208 4,925	9,580 R 9,860	0			7,989 8,356			
2006 2007	909	56 56	3,663 2,647	453	612 524	309	4,925	8,521	0						
2007	303		2,047	+55	324	303						0,733			
							Tri	illion Btu							
1960	70.5	34.7	5.8	0.5	1.6		17.5	40.4	(s)	0.3	0.0		152.1	15.4	167.5
1965	61.5	52.3	6.8	0.3			21.8	48.2	(s)	0.3	0.0		167.2	11.4	178.6
1970	65.2	59.2	9.1	0.4	1.4		26.4	50.3	(s)	0.5	0.0		180.9	13.6	194.5
1975 1980	64.7 50.7	52.3 55.8	19.6 12.9	1.8 3.2		20.7 15.0	25.6 26.4	69.0 58.4	0.Ó 0.0	0.8 0.6	0.0		197.0 180.7	24.4 36.6	221.3 217.3
1985	44.1	49.9	5.8	2.4	1.2	2.3	24.3	35.9	0.0	0.6	0.0		145.9	35.0	180.9
1990	48.7	60.1	8.9	1.9		1.5	25.9	39.2	0.0	0.7	0.0		168.1	45.5	213.6
1995	47.6	73.8	8.1	4.5		1.8	29.9	46.0	0.0	0.2	0.3		191.5	53.9	245.4
1996	40.0	72.3	7.9	8.3		0.5	34.3	52.7	0.0	0.3	0.3		191.6	59.4	251.1
1997	44.0	71.7	10.5	0.6		0.9	31.8	45.5	0.0	0.3	0.3		187.1	57.4	244.5
1998	56.7	76.4	12.7	0.9	1.3	0.6	32.6	48.1	0.0	0.2	0.3	25.6	207.3	58.1	265.4
1999	37.5	68.3	10.4	2.2			32.0	46.2	0.0	0.2	0.3		178.3	59.1	237.4
2000	54.1	67.3	10.1	3.9	1.3	0.3	30.3	45.8	0.0	0.2	0.4		194.8	61.4	256.3
2001	44.0	56.4	10.5	2.7	2.6	0.0	29.5	45.3	0.0	0.3	0.4		171.7	56.4	228.0
2002	13.6	51.7	10.6	1.8	2.7	0.5	23.9	39.5	0.0	0.2	0.4		129.3	53.4	182.7
2003 2004	14.2 28.0	49.0 48.7	14.0	0.2 0.3		0.7 1.1	37.6	55.3	0.0	0.2 0.2	0.3		145.1 152.9	57.6	202.6 211.9
2004	33.0	48.7	12.2 18.9	1.1	3.1		32.4 32.1	49.1 _ 56.6	0.0	0.2	0.3		152.9	59.0 59.6	211.9 _ 226.1
2005	15.7	R 56.1	21.5	R 1.4	3.1	1.4 1.5	30.1	R 57.7	0.0	0.2	0.4 0.4	27.3 28.5	166.4 R 158.7	61.6	R 220.4
2007	20.7	59.6	15.4	1.6	2.7	1.9	27.9	49.6	0.0		0.4		160.4	64.5	224.9
											•••				

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Utah

						Per	troleum								
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	45	(s)	595	2,312	1,003	35	152	7,232	370	11,698	0	0			
1965	8	(s)	383	2,569	1,244	12	151	8,534	98	12,991	0	0			
1970 1975	(s)	(s) (s)	178 161	2,870 4,141	1,808 1,903	6 11	161 158	11,845 14,586	25 68	16,893 21,028	0	0			
1980	0	(5)	139	4.974	2,637	14	194	15,288	0	23.245	0	0			
1985	Ö	1	94	4,121	3,808	76	176	15,932	0	23,245 24,207	11	Ö			
1990	0	1	106	5,056	5,281	51	198	16,430	48	27,169	1	0			
1995	0	3	64	6,566	5,658	32	189	20,428	0	32,936	0	0			
1996 1997	0	3	52 61	6,878 7,621	6,303 R 6,279	25 16	184 194	20,818 21,670	0	34,260 R 35,840	21 0	0			
1998	0	3	51	7,549	R 6,379	2	203	22,466	0	R 36,649	294	0			
1999	Ö	3	73	7,283	7,443	34	205	22,884	Ö	37,923	250	1			
2000	0	4	84	8,353	7,701	43	202	23,633	0	40,015	284	8			
2001	0	5	76	8,537	6,880	56	185	22,470	0	38,204	369	10			
2002 2003	0	6 8	69 60	8,926 8,675	6,416 6,758	47 24	183 169	23,618 23,751	0	39,259 39,438	98 75	16 25			
2003	0	9	78	9,535	7,137	48	171	24,129	0	39,436 41,100	36	25 25			
2005	Ö	9	107	10,021	7.394	47	170	24,067	ő	41,806	R 604	28			
2006	0	11	110	13,018	7,560	64	166	24,676	0	45,593	R 508	29			
2007	0	12	78	12,745	7,085	39	171	25,505	0	45,624	881	34			
								Trillion Btu							
1960	1.2	0.1	3.0	13.5	5.4	0.1	0.9	38.0	2.3	63.2	0.0	0.0	64.5	0.0	64.5
1965 1970	0.2	0.4	1.9	15.0	6.8	(s) (s)	0.9	44.8	0.6	70.1	0.0	0.0	70.6 91.5	0.0	70.6
1970	0.1	0.5 0.3	0.9 0.8	16.7 24.1	10.0 10.6	(S)	1.0 1.0	62.2 76.6	0.2 0.4	91.0 113.6	0.0 0.0	0.0 0.0	113.8	0.0 0.0	91.5 113.8
1980	(s) 0.0	0.9	0.7	29.0	14.6	(s) 0.1	1.2	80.3	0.0	125.8	0.0	0.0	126.8	0.0	126.8
1985	0.0	1.3	0.5	24.0	21.3	0.3	1.1	83.7	0.0	130.8	(s)	0.0	132.1	0.0	132.1
1990	0.0	1.0	0.5	29.4	29.7	0.2	1.2	86.3	0.3	147.7	(s) (s)	0.0	148.7	0.0	148.7
1995	0.0	3.3	0.3	38.2	31.8	0.1	1.1	106.5	0.0	178.2	0.0	0.0	181.5	0.0	181.5
1996 1997	0.0 0.0	4.1 3.3	0.3 0.3	40.1 44.4	35.7 _ 35.6	0.1 0.1	1.1 1.2	108.6 113.0	0.0 0.0	185.8 194.5	0.1 0.0	0.0 0.0	190.0 197.8	0.0 0.0	190.0 197.8
1997	0.0	3.3 3.6	0.3	44.4 44.0	R 36.2	(s)	1.2	113.0	0.0	194.5 198.7	1.0	0.0	202.3	0.0	202.3
1999	0.0	3.6	0.4	42.4	42.2	0.1	1.2	119.2	0.0	205.6	0.9	(s)	209.3	(s)	209.3
2000	0.0	3.7	0.4	48.7	43.7	0.2	1.2	123.1	0.0	217.2	1.0	(s)	221.0	0.1	221.0
2001	0.0	4.9	0.4	49.7	39.0	0.2	1.1	117.1	0.0	207.5	1.3	(s)	212.4	0.1	212.5
2002	0.0	6.9	0.3	52.0	36.4	0.2	1.1	123.0	0.0	213.0	0.3	0.1	219.9	0.1	220.1
2003 2004	0.0 0.0	8.4 9.5	0.3 0.4	50.5	38.3 40.5	0.1 0.2	1.0 1.0	123.7 125.8	0.0 0.0	213.9 223.5	0.3 0.1	0.1 0.1	222.5 233.0	0.2 0.2	222.6 233.2
2004	0.0	9.5	0.5	55.5 58.4	41.9	0.2	1.0	125.6	0.0	227.6	R 2.1	0.1	237.3	0.2	237.5
2006	0.0	12.0	0.6	75.8	42.9	0.2	1.0	128.8	0.0	249.2	^R 1.8	0.1	237.3 R 261.3	0.2	261.6
2007	0.0	12.9	0.4	74.2	40.2	0.1	1.0	133.1	0.0	249.1	3.1	0.1	262.1	0.2	262.4

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Utah

				Petro	leum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	515	4	2,291	12	0	2,302	0	304		0	0	0	0	
1965 1970	363 435	5	1,597 1,768	8 9	0	1,605 1,777	0	910 738		0	0	0	0	
1975	2,026	3	152	10	0	162	0	1,074		0	0	0	0	
1980	4,895	5	58	67	0	126	0	821		0	0	0	0	
1985	6,325	(s)	25		Ö	80	Ö	1,019		110	Ö	Ö	Ö	
1990	13,563	ĺ	0	55 84	0	84	0	508		152	0	0	0	
1995	13,693	9	0	66	0	66	0	969		140	0	0	0	
1996	13,963	4	0	59	0	59	0	1,049		192	0	0	0	
1997	14,654	4	0	58	0	58	0	1,344		169	0	0	28	
1998 1999	15,094 15,011	6	0	66 55	0	66 55	0	1,315 1,255		160 156	0	0	2	
2000	15,164	11	0	101	0	101	0	746		152	0	0	0	
2001	14,906	15	0	110	0	110	0	508		153	0	0	0	
2002	15,644	15	Ŏ	96	Ö	96	Ö	458		218	Ö	Ö	9	
2003	16,302	14	0	61	0	61	0	421		198	0	0	6	
2004	16,606	9	0	60	0	60	0	450		195	0	0	្ត 15	
2005	17,118	12	0	74	0	74	0	784		185	0	0	R 40	
2006 2007	16,609 16,593	29 56	0	126 73	0	126 73	0	747 539		191 164	0 0	0	14 -16	
							Trillion E	Btu						
1960	12.8	3.8	14.4	0.1	0.0	14.5	0.0	3.3	0.0	0.0	0.0	0.0	0.0	34.4
1965	9.1	4.4	10.0	(s)	0.0	10.1	0.0	9.5	0.0	0.0	0.0	0.0	0.0	33.1
1970	10.8	3.3	11.1	0.1	0.0	11.2	0.0	7.7	0.0	0.0	0.0	0.0	0.0	33.0
1975 1980	47.9 112.1	2.9 4.9	1.0 0.4	0.1 0.4	0.0 0.0	1.0 0.8	0.0 0.0	11.2 8.5	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	63.0 126.3
1985	149.3	0.3	0.4	0.4	0.0	0.5	0.0	10.6	0.0	2.3	0.0	0.0	0.0	163.0
1990	312.0	0.9	0.0	0.5	0.0	0.5	0.0	5.3	0.0	3.2	0.0	0.0	0.0	321.9
1995	312.1	9.1	0.0	0.4	0.0	0.4	0.0	10.0	0.0	2.9	0.0	0.0	0.0	334.5
1996	317.8	4.2	0.0	0.3	0.0	0.3	0.0	10.8	0.0	4.0	0.0	0.0	0.0	337.2
1997	328.3	4.2 6.2	0.0	0.3	0.0	0.3	0.0	13.7	0.0	3.5	0.0	0.0	0.1	350.1
1998	336.8	6.2	0.0	0.4	0.0	0.4	0.0	13.4	0.0	3.4	0.0	0.0	(s)	360.1
1999	343.9	6.7	0.0	0.3	0.0	0.3	0.0	12.8	1.4	3.3	0.0	0.0	0.0	368.4
2000 2001	347.6 339.1	11.0 15.8	0.0 0.0	0.6 0.6	0.0 0.0	0.6 0.6	0.0 0.0	7.6 5.3	1.4 0.8	3.2 3.2	0.0 0.0	0.0 0.0	0.0 0.0	371.4 364.8
2001	352.3	15.6	0.0	0.6	0.0	0.6	0.0	5.3 4.7	0.8	3.2 4.6	0.0	0.0	0.0	378.4
2002	363.6	14.5	0.0	0.4	0.0	0.4	0.0	4.3	0.8	4.2	0.0	0.0	(s)	387.7
2004	366.7	9.4	0.0	0.3	0.0	0.3	0.0	4.5	0.8	4.1	0.0	0.0	(s) (s) 0.1	385.9
2005	371.5	12.8	0.0	0.4	0.0	0.4	0.0	7.8	0.8	3.9	0.0	0.0	0.1	397.3
2006	366.2	30.4	0.0	0.7	0.0	0.7	0.0	7.4 5.3	0.8	4.0	0.0	0.0	(s) -0.1	409.5
2007	370.1	58.7	0.0	0.4	0.0	0.4	0.0	5.3	0.6	3.4	0.0	0.0	-0.1	438.6

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Vermont

						Petroleum				Martan	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	137	0	2,958	82	404	3,332	478	1,178	8,431	0	873					
1965	105	0	4,285	79	450	3,789	910	1,059	10,572	0	714					
1970 1975	87 31	3	5,741 4,642	121 177	542 833	5,077 5,698	905 796	898 502	13,285 12,647	3,561	786 938					
1980	22	4	4,095	155	666	5,437	471	506	11,331	2,979	813					
1985	80	5	4,583	201	791	5,813	122	1,065	12,574	2,999	922					
1990	8	7	4,566	180	1,401	6,696	237	419	13,499	3,616	1,365					
1995	3	7	5,361	127	1,673	7,211	215	535	15,121	3,859	973					
1996 1997	2 110	8	5,732 5,344	99 106	1,834 1,540	7,331 7,606	282 323	603 1,153	15,882 16,073	3,799 4,267	1,231 1,067					
1998	2	8	5,215	121	1,777	7,510	274	752	15,650	3,358	1,194					
1999	82	8	5,441	143	1,617	7,699	220	612	15,732	4,059	1,196					
2000	1	10	5,276	144	1,769	8,394	309	721	16,613	4,548	1,221					
2001	2	8	5,371	120	2,425	8,021	241	806	16,984	4,171	884					
2002 2003	1	8 8	4,866 5,251	65 68	2,352 1,867	8,164 8,304	253 292	466 530	16,166 16,311	3,963 4,444	1,115 1,154					
2003	1	9	5,861	309	1,987	8,407	292	1,037	17,899	3,858	1,134					
2005	i	8	5,194	423	2,234	8,408	300	693	17,251	4,072	1,211					
2006	1	8	5,085	376	2,288	8,406	260	591	17,006	5,107	1,519					
2007	1	9	4,917	317	2,152	8,354	238	689	16,668	4,704	647					
								Trillion Btu								
1960 1965	3.5 2.7	0.0 0.0	17.2 25.0	0.4 0.4	1.6 1.8	17.5 19.9	3.0 5.7	6.9 6.2	46.7 59.0	0.0 0.0	9.4 7.5	7.9 6.9	0.0 0.0	0.9 6.9	0.2 0.1	68.6 83.2
1903	2.1	2.7	33.4	0.4	2.0	26.7	5.7	5.4	73.9	0.0	8.2	6.5	0.0	19.6	0.1	113.2
1975	0.7	4.0	27.0	1.0	3.1	29.9	5.0	2.9	68.9	39.2	9.8	6.6	0.0	-15.1	0.3	114.4
1980	0.5	4.0	23.9	0.9	2.4	28.6	3.0	2.9	61.6	32.5	8.4	14.4	0.0	3.8	0.6	125.9
1985	2.0	5.0	26.7	1.1	2.8	30.5	0.8	6.4	68.3	31.9	9.6	17.3	0.0	-0.5	1.1	134.6
1990 1995	0.2 0.1	6.7 7.3	26.6 31.2	1.0 0.7	5.1 6.1	35.2 37.6	1.5	2.4	71.7 80.3	38.3 40.5	14.2 10.0	5.3 9.1	(s) (s)	-6.5 -10.7	5.8 13.5	135.7 150.1
1995	(e)	7.5 7.5	33.4	0.6	6.6	38.2	1.4 1.8	3.3 3.7	84.3	39.9	12.7	9.1	(S)	-10.7 -9.7	12.0	155.9
1997	(s) 2.7	8.3	31.1	0.6	5.6	39.7	2.0	7.3	86.3	44.8	10.9	9.0	(s)	-13.9	13.6	161.7
1998	0.1	7.8	30.4	0.7	6.4	39.1	1.7	4.4	82.8	35.2	12.2	8.1	(s)	-5.0	13.2	154.3
1999	2.0	8.1	31.7	0.8	5.8	40.1	1.4	3.7	83.5	42.4	12.2	8.4	0.2	-23.5	26.2	159.5
2000	(s)	R _{10.6}	30.7	0.8	6.4	43.7	1.9	4.2	87.9	47.4	12.5	8.8	0.2	-16.1	13.4	164.6
2001 2002	0.1 (s)	R 8.0 8.4	31.3 28.3	0.7 0.4	8.8 8.5	41.8 42.5	1.5 1.6	4.9 2.8	88.9 84.1	43.6 41.4	9.1 11.3	8.0 11.2	0.2 0.1	-5.9 -7.5	10.1 8.3	162.1 157.4
2002	(S) (S)	R 8.5	28.3 30.6	0.4	6.8	42.5 43.2	1.8	3.1	85.9	41.4	11.3	11.2	0.1	-7.5 -15.9	6.5	157.4
2004	(s)	8.7	34.1	1.8	7.2	43.8	1.9	6.3	95.1	40.2	11.9	10.0	0.2	-3.7	6.6	169.1
2005	(s)	8.4	30.3	2.4	8.1	43.9	1.9	4.1	90.6	42.5	12.1	R 8.7	0.2	-3.1	7.2	R 166.5
2006	(s)	8.1	29.6	2.1	8.2	43.9	1.6	3.5	89.0	53.3	15.1	R 9.2	0.2	-19.9	8.3	R 163.1
2007	(s)	8.9	28.6	1.8	7.7	43.6	1.5	4.2	87.5	49.3	6.4	8.6	0.2	-7.2	8.5	162.1

^a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Vermont

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960 1965	45 27	0	2,044 3,110	701 649	258 316	3,003 4,075	173 137			451 678			
1903	16	1	3,873	649 436 235	356	4,665	105			1,216			
1970 1975	16 5	1	3,101	235	356 555	4,665 3,891	123			1,427			
1980 1985	2	1	2.171	230 514	356 601	2,757 3,597	215			1,781			
1985	10	1	2,482	514	601	3,597	155			1,538			
1990 1995	1 (2)	2	2,293 2,321	193 180	1,109 1,223	3,595 3,724	99 108			1,809 1,973			
1995	(s) (s)	2	2,321	180	1,223	3,724 3,950	108			2,006			
1996 1997	(s)	3	2,309	203 238	1,229	3,776	113 82			1,992			
1998	(s)	2	2 008	326	1,388	3,776 3,722 3,634	73			1,951			
1998 1999	(s)	3	2.016	326 262	1,388 1,356	3,634	73 76			1,999			
2000	(s)	3	2,450 2,220	326 320	1,315	4,091	82 65			2,037			
2001	(s)	3	2,220	320	1,804	4,344	65			2,009			
2002 2003	(s)	3	2,114 2,301	186 276	1,804 1,465	4,104 4,042	66 69			2,047 2,011			
2003	(5)	3	2,696	400	1,561	4,657	71			2,109			
2005	(s)	3	2,257	381	1.672	4.310	R 50			2,189			
2006	(s)	3	2,119	355	R 1,590	4,310 R 4,064	R 45			2,142			
2007	(s)	3	2,157	248	1,639	4,044	50			2,170			
						Tı	rillion Btu						
1960 1965 1970 1975	1.1	0.0	11.9	4.0 3.7 2.5	1.0 1.3	16.9	3.5 2.7	0.0	0.0	1.5 2.3	23.0	3.8 5.5	26.8
1965	0.7	0.0	18.1	3.7	1.3	23.1	2.7	0.0 0.0	0.0	2.3	28.8	5.5	34.3
1970	0.4	1.1	22.6	2.5	1.3	26.4	2.1	0.0	0.0	4.1	34.1	10.0	44.1
1975	0.1	1.1	18.1	1.3	2.1 1.3 2.2	21.5	2.5	0.0	0.0	4.9	30.0	11.7	41.7
1980 1985	0.1 0.2	1.3 1.4	12.6 14.5	1.3 2.9	1.3	15.3 19.5	4.3 3.1 2.0	0.0 0.0	0.0 0.0	6.1 5.2	27.0 29.6	14.6 12.1	41.6 41.7
1985	(s)	2.1	13.4	2.9 1.1	4.0	18.5	3.1	0.0	(s)	5.2 6.2	28.8	14.3	43.0
1990	(s)	2.1	13.5	1.1	4.0 4.4	19.0	2.2	0.0	(5)	6.7	30.2	15.3	45.0 45.5
1995 1996	(s)	2.3 2.6	13.8	1.0 1.2	4.4 5.0	19.9	2.3	0.0 0.0	(s) (s)	6.7 6.8	31.6	15.6	45.5 47.2
1997	(s)	2.7	13.4	1.4	4.4	19.2	1.6	0.0	(s)	6.8	30.4	15.4	45.8
1998	(s)	2.5	11.7	1.8	5.0	18.6	1.5	0.0	(s)	6.7	29.2	15.1	44.3
1999	(s)	2.6	11.7	1.5	4.9	18.1	1.5	(s)	(s)	6.8	29.1	15.6	44.7
2000	(s)	2.9	14.3	1.8	4.7	20.9	1.6	(s)	(s)	7.0	32.4	15.8	48.2
2001	(s)	R 2.8	12.9	1.8	6.5	21.3	1.3	(s)	(s)	6.9	32.2	15.3	47.5
2002 2003	(s)	2.8 3.1	12.3 13.4	1.1 1.6	6.5 5.3	19.9 20.3	1.3 1.4	(S)	(s) (s)	7.0 6.9	31.0 31.7	15.6 15.1	46.6 46.9
2003	(S) (S)	3.1	15.4	2.3	5.6 5.6	23.6	1.4	(5)	(s)	7.2	_ 35.4	15.1	40.9 51 3
2005	(s)	3.1	13.1	2.2	6.1	21.4	R 1 0	(s)		7.5	R 33.0	16.3	R 49.3
2006	(s)	2.9 3.2	12.3 12.6	2.0	6.1 R 5.7	21.4 R 20.1	R 0.9	(s)	(s) 0.1	7.3 7.4	R 33.0 R 31.3	15.8	51.3 R 49.3 R 47.1
2007	(s)	3.2	12.6	1.4	5.9	19.9	1.0	(s)	0.1	7.4	31.6	16.0	47.5

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Vermont

			Petroleum							Biomass		5			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	31	0	418	43	46	127	225	859	0			233			
1965	21	Õ	636	40	56 63	24 25	422	1,177	Ö			303			
1970	13	1	792	27	63		414	1,320	0			609			
1975	11 9	1	634	15	98 63	30	373	1,149	0			709			
1980 1985	36	2	620 591	44 36	106	33 40	237 24	996 797	0			923 959			
1990	6	2	669	12	196	41	119	1,037	0			1,526			
1995	3	3	692	14	216	7	71	999	Ŏ			1,647			
1996	1	3	795	13	243	7	72	1.131	0			1,696			
1997	2	3	850	21	217	7	111	1,205	0			1,759			
1998 1999	2	3	938 946	32 35	245 239	7	107 71	1,328 1,298	0			1,878			
2000	2	3	1.040	23	239	7	101	1,298	0			1,941 1,956			
2000	2	2	1,040	35	318	7	92	1,461	0			1,968			
2002	1	2	865	16	318	7	121	1,327	Ŏ			1,991			
2003	1	3	942	21	259	7	151	1,380	0			1,881			
2004	1	3	1,036	34	276	7	147	1,499	0			1,978			
2005	1	3	858	31	295 R 281	7	145	1,336 R 1,255	0			2,051			
2006 2007	1	2	812 766	26 27	289	7	130 87	1,176	0			2,027 2,059			
			100			•		Trillion Btu				2,000			
1960	0.8	0.0	2.4	0.2	0.2	0.7	1.4	4.9	0.0	0.1	0.0	0.8	6.6	2.0	8.5
1965 1970	0.5	0.0 0.6	3.7 4.6	0.2 0.2	0.2 0.2	0.1 0.1	2.7 2.6	6.9 7.7	0.0 0.0	0.1	0.0	1.0	8.5 10.7	2.5 5.0	11.0 15.7
1970	0.3 0.2	0.8	3.7	0.2	0.2	0.1	2.6	6.6	0.0	(s)	0.0 0.0	2.1 2.4	10.7	5.0	15.7
1980	0.2	0.8	3.6	0.1	0.4	0.2	1.5	5.7	0.0	(s) 0.1	0.0	3.1	10.0	7.6	17.6
1985	0.9	1.6	3.4	0.2	0.4	0.2	0.1	4.4	0.0	0.1	0.0	3.3	10.2	7.5	17.7
1990	0.1	2.0	3.9	0.1	0.7	0.2	0.7	5.6	0.0	0.2	0.0	3.3 5.2	13.2	12.0	25.3
1995	0.1	2.7	4.0	0.1	0.8 0.9	(s)	0.4	5.4	0.0	0.3	0.0	5.6	14.0	12.8	26.8
1996	(s) 0.1	2.9	4.6	0.1	0.9	(s)	0.5	6.1	0.0	0.3	0.0	5.8	15.1	13.2	28.2
1997		3.1	4.9 5.5	0.1	0.8	(s)	0.7 0.7	6.6	0.0 0.0	0.3	0.0	6.0	16.0	13.6 14.5	29.6
1998 1999	(s) (s)	3.0 2.3	5.5 5.5	0.2 0.2	0.9 0.9	(s) (s)	0.7	7.2 7.1	0.0	0.2 0.3	0.0 0.0	6.4 6.6	16.9 16.3	15.2	31.5 31.5
2000	(s)	2.6	6.1	0.2	0.8	(s)	0.6	7.7	0.0	0.3	0.0	6.7	17.3	15.2	32.5
2001	(s)	2.5	5.9	0.2	1.2	(s)	0.6	7.8	0.0	0.2	0.0	6.7	17.3	15.0	32.3
2002	(s)	2.5	5.0	0.1	1.2	(s)	0.8	7.1	0.0	0.2	0.0	6.8	16.6	15.1	31.7
2003	(s)	2.8	5.5	0.1	0.9	(s)	1.0	7.5	0.0	0.2	0.0	6.4	17.0	14.2	31.2
2004	(s)	2.7	6.0	0.2	1.0	(s)	0.9	8.2	0.0	0.2	0.0	6.7	17.9	14.9	32.8
2005	(s)	2.6	5.0	0.2	1.1	(s)	0.9	7.2 R 6.7	0.0	0.2 R 0.1	0.0	7.0	R 17.0 R 16.2	15.3	R 32.3
2006 2007	(s) (s)	2.4 2.6	4.7 4.5	0.1 0.2	1.0 1.0	(s) (s)	0.8 0.5	6.2	0.0 0.0	0.2	0.0 0.0	6.9 7.0	16.1	15.0 15.2	31.2 31.2
2001	(0)	2.0	1.5	V.E	1.5	(0)	0.0	J.2	0.0	V. <u>L</u>	0.0	7.0	10.1	10.2	

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Vermont

Thousand Shift Thousand Shift Shift						Petro	leum				Biomass					
Thousand Bullion Cubic Feet Thousand Barrels Million Wood and geo-thermal Million Wood and geo-thermal Willion Wood Wood		Coal	Natural Gas ^a		LPG b			Other ^d	Total	Hydro- electric Power ^{e,f}						
1965	Year					Thousand	d Barrels							Net Energy ^{f,h}	Energy	Total f,h
1970 3 1 463 121 68 466 372 1,489 62 787 797 197 197 197 197 421 196 1,237 67 855 1980 2 2 2 501 245 119 235 156 1,155 70 1,247 1980 2 2 2 501 245 119 235 156 1,155 70 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247 1,247	1960			234	99		252	346	931				191			
1975	1965			316	121	100		301	1,278	53			352			
1980	1970	2		364					1,409		==					
1985 6 2 500 70 117 98 445 1,230 70 1,518 1995 0 1 2 554 85 81 115 146 981 17 1,381 1,381 1 1,381 1 1,381 1 1995 0 2 328 220 89 144 278 1,058 18 1,381 1 1,381 1 1996 0 2 328 196 90 210 327 1,149 16 1,537 1,381 1 1997 107 2 345 77 95 212 830 1,560 22 1,561 1,561 1,581 1998 80 2 346 196 90 210 327 1,149 16 1,537 1,581 1 1998 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1980	2	2	501			235	156	1,155							
1995	1985	6	2	500	70	117	98	445	1,230	70			1,518			
1996 0		1		554					981				1,381			
1997	1995		2	328	220			278					1,484			
1998 0	1996	107	2	326			210	327	1,149							
1999	1998								1,300				1,501			
2000 0 4 381 223 79 207 277 1,166 20 1,646 1,646 1,646 1,646 1,646 1,646 1,646 1,646 1,646 1,640 1,640 1,640 1,640 1,640 1,640 1,640 1,640 1,640 1,640 1,644 1,644	1999			409	19			248	908	20			1.587			
2002 0 3 338 229 179 132 205 1,083 16 1,592 2004 0 2 432 139 210 141 178 1,099 6 1,460 1,502 2004 0 3 586 145 237 151 537 1,656 21 1,460 1,577 2005 0 3 560 259 235 156 210 1,419 21 1,626 1,626 1,620 2006 0 3 509 R411 264 130 149 R1,463 22 1,626 1,626 1,620 1,620 1,620 1,620 1,620 1,626 1,626	2000	0		381	223	79	207	277	1,166	20			1,646			
2003	2001			366	303		149	358	1,344				1,608			
2004 0 3 586 145 237 151 537 1666 21 1.577 2006 0 3 560 259 235 156 210 1.419 21 1.644 2006 0 3 509 R411 264 130 149 R1,483 22 1.626										16			1,592			
2005 0 3 560 259 235 156 210 1,419 21 1,644 2007 0 3 509 R411 264 130 149 R1,463 22 1,626 2007 0 3 396 220 198 151 352 1,318 2 1,635									1,099							
Trillion Btu 1960					259	235			1,030				1,577			
Trillion Btu 1960	2006			509	R 411	264	130	149	R 1,463	22			1,626			
1960	2007	0	3	396	220	198	151	352	1,318	2			1,635			
1965 0.4 0.0 1.8 0.3 0.5 3.0 1.9 7.6 0.6 4.1 0.0 1.2 13.9 2.9 16. 1970 0.1 1.1 2.7 0.5 0.4 2.9 2.4 8.8 0.6 4.3 0.0 2.7 17.6 6.5 24. 1975 0.1 1.5 2.1 0.7 0.4 2.6 1.1 7.0 0.7 4.1 0.0 2.9 16.3 7.0 23. 1980 (s) 1.6 2.9 0.9 0.1 1.5 0.9 6.3 0.7 9.5 0.0 4.3 22.5 10.3 32. 1985 0.1 1.9 2.9 0.3 0.6 0.6 2.8 7.2 0.7 11.2 0.0 4.7 14.4 11.9 2.8 11.9 2.8 11.9 2.8 12.2 2.1 0.0 4.7 14.4 11.9 2.8 11.5								Tr	illion Btu							
1970 0.1 1.1 2.7 0.5 0.4 2.9 2.4 8.8 0.6 4.3 0.0 2.7 17.6 6.5 24. 1975 0.1 1.5 2.1 0.7 0.4 2.6 1.1 7.0 0.7 4.1 0.0 2.9 16.3 7.0 23. 1980 (s) 1.6 2.9 0.9 0.1 1.5 0.9 6.3 0.7 9.5 0.0 4.3 22.5 10.3 32. 1985 0.1 1.9 2.9 0.3 0.6 0.6 2.8 7.2 0.7 11.2 0.0 5.2 26.3 11.9 38. 1990 (s) 1.8 3.2 0.3 0.4 0.7 0.8 5.5 0.2 2.1 0.0 4.7 14.4 10.9 26.3 11.9 0.8 0.5 0.9 1.8 5.5 0.2 2.1 0.0 5.1 16.5 11.5 <	1960						1.6				4.4	0.0	0.7	12.4		14.0
1975		0.4		1.8	0.3								1.2	13.9	2.9	16.7
1980 (s) 1.6 2.9 0.9 0.1 1.5 0.9 6.3 0.7 9.5 0.0 4.3 22.5 10.3 32. 1985 0.1 1.9 2.9 0.3 0.6 0.6 2.8 7.2 0.7 11.2 0.0 5.2 26.3 11.9 38. 1990 (s) 1.8 3.2 0.3 0.4 0.7 0.8 5.5 0.2 2.1 0.0 4.7 14.4 10.9 25. 1995 0.0 2.1 1.9 0.8 0.5 0.9 1.8 5.9 0.2 3.2 0.0 5.1 16.5 11.5 28. 1996 0.0 2.0 1.9 0.7 0.5 1.3 2.1 6.5 0.2 2.9 0.0 5.2 16.9 11.9 28. 1997 2.6 2.4 2.0 0.3 0.5 1.3 5.5 9.6 0.2 2.9	1970						2.9			0.6	4.3			17.6		24.1
1985		0.1	1.5	2.1			2.6	1.1	7.0					16.3		23.3
1990 (s) 1.8 3.2 0.3 0.4 0.7 0.8 5.5 0.2 2.1 0.0 4.7 14.4 10.9 25. 1995 0.0 2.1 1.9 0.8 0.5 0.9 1.8 5.9 0.2 3.2 0.0 5.1 16.5 11.5 2.8 1996 0.0 2.0 1.9 0.7 0.5 1.3 2.1 6.5 0.2 2.9 0.0 5.2 16.9 11.5 2.8 1997 2.6 2.4 2.0 0.3 0.5 1.3 5.5 9.6 0.2 3.2 0.0 5.3 23.4 12.1 35. 1998 0.0 2.1 2.2 0.5 0.4 1.1 2.0 6.2 0.2 2.7 0.0 5.2 16.5 11.9 28. 1998 2.0 2.9 2.4 0.1 0.4 0.9 1.6 5.4 0.2 2.5 0	1985	(S)		2.9					7.2		9.5					32.7 38.2
1995 0.0 2.1 1.9 0.8 0.5 0.9 1.8 5.9 0.2 3.2 0.0 5.1 16.5 11.5 28. 1996 0.0 2.0 1.9 0.7 0.5 1.3 2.1 6.5 0.2 2.9 0.0 5.2 16.9 11.9 28. 1997 2.6 2.4 2.0 0.3 0.5 1.3 5.5 9.6 0.2 2.9 0.0 5.3 23.4 12.1 35. 1998 0.0 2.1 2.2 0.5 0.4 1.1 2.0 6.2 0.2 2.7 0.0 5.2 16.5 11.9 28. 1999 2.0 2.9 2.4 0.1 0.4 0.9 1.6 5.4 0.2 2.5 0.0 5.4 18.4 12.4 30. 2000 0.0 4.0 2.2 0.8 0.4 1.3 1.7 6.5 0.2 3.0 0	1990			3.2	0.3						2.1					25.3
1996 0.0 2.0 1.9 0.7 0.5 1.3 2.1 6.5 0.2 2.9 0.0 5.2 16.9 11.9 28. 1997 2.6 2.4 2.0 0.3 0.5 1.3 5.5 9.6 0.2 3.2 0.0 5.3 23.4 12.1 35. 1998 0.0 2.1 2.2 0.5 0.4 1.1 2.0 6.2 0.2 2.7 0.0 5.2 16.5 11.9 28. 1999 2.0 2.9 2.4 0.1 0.4 0.9 1.6 5.4 0.2 2.5 0.0 5.4 18.4 12.4 30. 2000 0.0 4.0 2.2 0.8 0.4 1.3 1.7 6.5 0.2 3.0 0.0 5.6 19.3 12.8 32. 2001 0.0 2.6 2.1 1.1 0.9 0.9 2.3 7.4 0.2 2.6 0.0 5.5 18.2 12.2 30. 2002 0.0 3.1 2	1995	0.0	2.1	1.9	0.8	0.5	0.9	1.8	5.9	0.2	3.2	0.0	5.1	16.5	11.5	28.0
1998 0.0 2.1 2.2 0.5 0.4 1.1 2.0 6.2 0.2 2.7 0.0 5.2 16.5 11.9 28. 1999 2.0 2.9 2.4 0.1 0.4 0.9 1.6 5.4 0.2 2.5 0.0 5.4 18.4 12.4 30. 2000 0.0 4.0 2.2 0.8 0.4 1.3 1.7 6.5 0.2 3.0 0.0 5.6 19.3 12.8 32. 2001 0.0 2.6 2.1 1.1 0.9 0.9 2.3 7.4 0.2 2.6 0.0 5.5 18.2 12.2 30. 2002 0.0 3.1 2.0 0.8 0.9 0.8 1.3 5.9 0.2 1.3 0.0 5.4 15.9 12.1 28. 2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3	1996	0.0	2.0	1.9	0.7	0.5	1.3	2.1	6.5	0.2	2.9		5.2	16.9	11.9	28.8
1999 2.0 2.9 2.4 0.1 0.4 0.9 1.6 5.4 0.2 2.5 0.0 5.4 18.4 12.4 30. 2000 0.0 4.0 2.2 0.8 0.4 1.3 1.7 6.5 0.2 3.0 0.0 5.6 19.3 12.8 32. 2001 0.0 2.6 2.1 1.1 0.9 0.9 2.3 7.4 0.2 2.6 0.0 5.5 18.2 12.2 30. 2002 0.0 3.1 2.0 0.8 0.9 0.8 1.3 5.9 0.2 1.3 0.0 5.4 15.9 12.1 28. 2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3				2.0	0.3			5.5	9.6	0.2	3.2		5.3	23.4	12.1	35.4
2000 0.0 4.0 2.2 0.8 0.4 1.3 1.7 6.5 0.2 3.0 0.0 5.6 19.3 12.8 32. 2001 0.0 2.6 2.1 1.1 0.9 0.9 2.3 7.4 0.2 2.6 0.0 5.5 18.2 12.2 30. 2002 0.0 3.1 2.0 0.8 0.9 0.8 1.3 5.9 0.2 1.3 0.0 5.4 15.9 12.1 28. 2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 0.8 1.5 1.4 0.8 1.0 8.7.6 0.2 2.3 0.0 5.5 818.4 12.0 83.	1998	0.0	2.1	2.2				2.0	6.2	0.2	2.7		5.2	16.5	11.9	28.4
2001 0.0 2.6 2.1 1.1 0.9 0.9 2.3 7.4 0.2 2.6 0.0 5.5 18.2 12.2 30. 2002 0.0 3.1 2.0 0.8 0.9 0.8 1.3 5.9 0.2 1.3 0.0 5.4 15.9 12.1 28. 2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 81.5 1.4 0.8 1.0 87.6 0.2 2.3 0.0 5.5 818.4 12.0 830.		2.0	2.9	2.4	0.1		0.9		5.4	0.2	2.5		5.4			30.8
2002 0.0 3.1 2.0 0.8 0.9 0.8 1.3 5.9 0.2 1.3 0.0 5.4 15.9 12.1 28. 2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 R 1.5 1.4 0.8 1.0 R 7.6 0.2 2.3 0.0 5.5 R 18.4 12.0 R 30.							1.3			0.2	3.0		5.6 5.5	19.3		32.0 30.4
2003 0.0 2.5 2.5 0.5 1.1 0.9 1.1 6.1 0.1 1.2 0.0 5.0 14.8 11.0 25. 2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 R1.5 1.4 0.8 1.0 R7.6 0.2 2.3 0.0 5.5 R18.4 12.0 R30.	2001		3.1	2.1			0.9	1.3		0.2	1.3			15.9	12.2	28.0
2004 0.0 2.8 3.4 0.5 1.2 0.9 3.5 9.6 0.2 1.5 0.0 5.4 19.5 11.9 31. 2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 R1.5 1.4 0.8 1.0 R7.6 0.2 2.3 0.0 5.5 R18.4 12.0 R30.	2003	0.0	2.5	2.5	0.5	1.1	0.9	1.1	6.1	0.1	1.2	0.0	5.0	14.8	11.0	25.8
2005 0.0 2.6 3.3 0.9 1.2 1.0 1.3 7.7 0.2 2.2 0.0 5.6 18.4 12.3 30. 2006 0.0 2.8 3.0 R 1.5 1.4 0.8 1.0 R 7.6 0.2 2.3 0.0 5.5 R 18.4 12.0 R 30. 2007 0.0 3.0 2.3 0.8 1.0 1.0 2.3 7.4 (s) 1.4 0.0 5.6 17.4 12.0 29.	2004		2.8	3.4	0.5					0.2	1.5		5.4		11.9	31.4
2006 0.0 2.8 3.0 51.5 1.4 0.8 1.0 57.6 0.2 2.3 0.0 5.5 518.4 12.0 530. 2007 0.0 3.0 2.3 0.8 1.0 1.0 2.3 7.4 (s) 1.4 0.0 5.6 17.4 12.0 29.	2005	0.0	2.6	3.3	_B 0.9	1.2	1.0	1.3	₂ 7.7	0.2	2.2			₂ 18.4	12.3	30.7
2007		0.0		3.0	^ 1.5	1.4			^ 7.6					^ 18.4		^ 30.4
	2007	0.0	3.0	2.3	0.8	1.0	1.0	2.3	7.4	(S)	1.4	0.0	5.6	17.4	12.0	29.4

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Vermont

						Per	roleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG ^b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total e,f
1960	1	0	19	254	82	(s)	68	3,205	0	3,629	0	0			
1965	(s)	0	25	185	79		44	3,665	0	4,000	0	0			
1970 1975	(s)	0	14 11	346 504	121 129	3	49 45	4,985 5,591	2 2	5,519 6,284	0	0			
1980	(s) 0	0	25	757	137	2	52	5,386	0	6,359	0	0			
1985	Ö	(s)	22	977	201	13	47	5,656	Ő	6,916	Ö	Ö			
1990	0	(s)	15	1,043	180	11	53	6,574	3	7,878	0	0			
1995 1996	0	(s)	12	1,981 2,227	127 99	15 16	51	7,116 7,234	0	9,302	0	0			
1996	0	(s) (s)	10 12	2,227 1.809	106	17	49 52	7,234 7,504	0	9,636 9,501	0	0			
1998	0	(s)	10	1,784	121		52 55	7,428	0	9,398	0	(s)			
1999	Ö	(s)	12	2,006	143	(s) 2	55 54	7,610	0	9,828	0	0			
2000	0	(s)	40	1,245	144	0	54	8,309	0	9,793	0	0			
2001	0	(s)	44	1,690	120	(s)	50	7,844	0	9,748	0	0			
2002 2003	0	(s) (s)	10 9	1,518 1,519	65 68	(s)	49 45	7,978 8,088	0	9,621 9,733	0	0			
2003	0	(s)	21	1,498	309	5	46	8,164	0	10,042	Ō	0			
2005	Ö	(s)	26	1,506	423	8	46	8,166	Ŏ	10,174	R 46	Ö			
2006	0	(s)	16	1,636	376	8	45	8,135	0	10,216	R 66	0			
2007	0	(s)	16	1,589	317	4	46	8,149	0	10,122	96	0			
								Trillion Btu							
1960 1965	(s)	0.0	0.1	1.5	0.4	(s)	0.4	16.8	0.0	19.3	0.0	0.0	19.3	0.0	19.3
1965	(s)	0.0	0.1	1.1	0.4	(s)	0.3	19.3	0.0	21.2	0.0	0.0	21.2	0.0	21.2
1970 1975	(s)	0.0 0.0	0.1 0.1	2.0 2.9	0.7 0.7	(s) (s)	0.3 0.3	26.2 29.4	(s) (s)	29.3 33.4	0.0 0.0	0.0 0.0	29.3 33.4	0.0 0.0	29.3 33.4
1980	(s) 0.0	0.0	0.1	4.4	0.8	(S)	0.3	28.3	0.0	33.9	0.0	0.0	33.4	0.0	33.9
1985	0.0	(s)	0.1	5.7	1.1	(s)	0.3	29.7	0.0	37.0	0.0	0.0	37.0	0.0	37.0
1990	0.0	(s)	0.1	6.1	1.0	(s) (s) 0.1	0.3	34.5	(s)	42.1	0.0	0.0	42.1	0.0	42.1
1995	0.0	(s)	0.1	11.5	0.7		0.3	37.1	0.0	49.8	0.0	0.0	49.8	0.0	49.8
1996 1997	0.0 0.0	(s) 0.2	0.1 0.1	13.0 10.5	0.6	0.1 0.1	0.3 0.3	37.7 39.1	0.0 0.0	51.7 50.7	0.0 0.0	0.0 0.0	51.7 50.9	0.0 0.0	51.7 50.9
1998	0.0	(s)	0.1	10.5	0.6 0.7		0.3	38.7	0.0	50.7 50.2	0.0	0.0 (e)	50.9	(s)	50.9
1999	0.0	(s)	0.1	11.7	0.8	(s) (s)	0.3	39.7	0.0	52.6	0.0	(s) 0.0	52.6	0.0	52.6
2000	0.0	(s)	0.2	7.3	0.8	0.0	0.3	43.3	0.0	51.9	0.0	0.0	51.9	0.0	51.9
2001	0.0	(s)	0.2	9.8	0.7	(s) (s)	0.3	40.9	0.0	51.9	0.0	0.0	51.9	0.0	51.9
2002	0.0	(s)	0.1	8.8	0.4		0.3	41.5	0.0	51.1	0.0	0.0	51.1	0.0	51.1
2003 2004	0.0 0.0	(s) (s)	(s) 0.1	8.8 8.7	0.4 1.8	(s) (s)	0.3 0.3	42.1 42.6	0.0 0.0	51.7 53.5	0.0 _ 0.0	0.0 0.0	51.7 53.5	0.0 0.0	51.7 53.5
2004	0.0	(S)	0.1	8.8	2.4	(S)	0.3	42.6	0.0	54.2	R 0.2	0.0	54.2	0.0	54.2
2006	0.0	(s)	0.1	9.5	2.1	(s)	0.3	42.4	0.0	54.5	R 0.2 R 0.2	0.0	54.5	0.0	54.5
2007	0.0	(s)	0.1	9.3	1.8	(s)	0.3	42.5	0.0	54.0	0.3	0.0	54.0	0.0	54.0

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Vermont

Year Thou Shorts 1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	Coal	Natural Gas a Billion Cubic Feet 0 0 0 1 1 (s)	Residual Fuel Oil b	Distillate Fuel Oil ° Thousan 8 38 268 86 63 34 8	0 0 0 0	Total 9 42 291	Nuclear Electric Power Million Ki	Hydroelectric Power d lowatthours	Wood and Waste ^{e,f}	Geothermal f	Solar/PV ^{f,g}	Wind ^f	Electricity Net Imports h	Total ^{f,i}
Year Short 1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	19 43 55 13 9 28 0 0 0 0 0	0 0 0 1 (s) (s) 1	23 (s) 0 0	8 38 268 86 63	0 0 0 0	42	0	809	and Waste ^{e,f}		Million Kild	watthours		Total ^{f,i}
1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	43 55 13 9 28 0 0 0 0	0 0 1 (s) (s)	23 (s) 0 0	38 268 86 63	0 0 0	42		809						
1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	43 55 13 9 28 0 0 0 0	0 1 (s) (s)	23 (s) 0 0	268 86 63	0	42 291	0			0	0	0	64	
1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	13 9 28 0 0 0 0	1 (s) (s)	(s) 0 0	86 63	Ö	291		661		0	0	0	41	
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	9 28 0 0 0 0	1	0 0 0	63	•		0	724		0	0	0	50	
1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	28 0 0 0 0 0 0	1	0	63 34		87	3,561	871		0	0	0	75	
1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	0 0 0 0 0	1	0	34	0	63	2,979	743 852		0	0	0	187 321	
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	0 0 0 0 0	(s) (s)	0	0	0	34 8	2,999 3,616	1,348		0	0	0	1,710	
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	0 0 0 0	(s)		30	0	39	3,859	954		0	0	0	3,954	
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	0	(8)	0	39 16	0	16	3,799	1,216		0	0	0	3,517	
1999 2000 2001 2002 2003 2004 2005 2006	Ö	(3)	ő	31	Ő	31	4,267	1,046		Ö	Ö	Ő	3,974	
2000 2001 2002 2003 2004 2005 2006	•	(s)	0	107	0	107	3,358	1,170		0	0	0	3,861	
2001 2002 2003 2004 2005 2006		(s) (s)	0	64	0	64	4,059	1,175		0	0	14	7,672	
2002 2003 2004 2005 2006	0	, 1	0	159	0	159	4,548	1,201		0	0	12	3,917	
2003 2004 2005 2006	0	(s) (s)	0	87	0	87	4,171	868		0	0	12	2,999	
2004 2005 2006	0		0	31 57	0	31 57	3,963 4,444	1,099 1,148		0	0	10 11	2,433 1,916	
2005 2006	0	(s) (s)	0	45	0	45	4,444 3,858	1,146		0	0	11	1,938	
2006	0	(s)	0	12	0	12	4,072	1,190		0	0	11	2,116	
	ŏ	(s)	Ŏ	8	ŏ	8	5,107	1,497		Õ	ŏ	11	2,429	
2007	0	(s)	0	9	0	9	4,704	645		0	0	11	2,488	
							Trillion E	Btu						
1960 1965	0.5	0.0	(s) (s) 0.1	(s) 0.2	0.0	0.1	0.0	8.7	0.0	0.0	0.0	0.0	0.2	9.5 8.5
1965 1970	1.2 1.4	0.0 0.0	(S)	1.6	0.0 0.0	0.2 1.7	0.0 0.0	6.9 7.6	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.1 0.2	8.5 10.8
1975	0.3	0.6	(e)	0.5	0.0	0.5	39.2	9.1	0.0	0.0	0.0	0.0	0.2	49.9
1980	0.3	0.0	(s) 0.0	0.4	0.0	0.4	32.5	7.7	0.5	0.0	0.0	0.0	0.6	42.2
1985	0.7	0.1	0.0	0.2	0.0	0.2	31.9	8.9	2.9	0.0	0.0	0.0	1.1	45.8
1990	0.0	0.7	0.0	(s)	0.0	(s)	38.3	14.0	1.0	0.0	0.0	0.0	5.8	59.9
1995	0.0	0.1	0.0	0.2	0.0	0.2	40.5	9.8	3.4	0.0	0.0	0.0	13.5	67.7
1996 1997	0.0	(s)	0.0	0.1	0.0	0.1	39.9	12.6	3.6	0.0	0.0	0.0	12.0	68.2
1997	0.0	(s) (s) 0.2	0.0	0.2	0.0	0.2	44.8	10.7	3.9	0.0	0.0	0.0	13.6	73.1
1998	0.0	0.2	0.0	0.6	0.0	0.6	35.2	11.9	3.7	0.0	0.0	0.0	13.2	64.8
1999 2000	0.0	0.3 1.0	0.0 0.0	0.4 0.9	0.0 0.0	0.4	42.4 47.4	12.0 12.3	4.2	0.0 0.0	0.0 0.0	0.1 0.1	26.2	85.5
2000	0.0 0.0	1.0 0.1	0.0	0.9 0.5	0.0	0.9 0.5	47.4 43.6	12.3 9.0	3.9 3.9	0.0	0.0	0.1 0.1	13.4 10.2	79.1 67.5
2002	0.0	(s)	0.0	0.5	0.0	0.5	41.4	11.2	8.4	0.0	0.0	0.1	8.3	69.6
2003	0.0	(s) (s)	0.0	0.2	0.0	0.2	46.3	11.8	9.4	0.0	0.0	0.1	8.3 6.5	74.5
2004	0.0	0.1	0.0	0.3	0.0	0.3	40.2	11.7	6.8	0.0	0.0	0.1	6.6	65.8
2005	0.0	(s)	0.0	0.1	0.0	0.1	42.5	11.9	5.3	0.0	0.0	0.1	7.2	67.1
2006	0.0	(s) (s) (s)	0.0	(s) 0.1	0.0	(s) 0.1	53.3	14.8	5.8	0.0	0.0	0.1	8.3 8.5	82.5
2007	0.0	(s)	0.0	0.1	0.0	0.1	49.3	6.4	6.0	0.0	0.0	0.1	8.5	70.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Virginia

						Petroleum				Martan	II. II.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	12,141	66	14,146	4,441	1,146	31,077	17,825	9,512	78,148	0	1,267					
1965	14,904	96	18,609	6,504	1,658	36,104	16,780	12,257	91,912	0	883					
1970	11,294	137	24,640	11,093	2,412	48,684	33,373	12,231	132,434	0	691					
1975 1980	7,130 9,291	121 158	22,996 24,599	11,602 12,279	3,077 3,131	59,293 59,035	40,953 24,651	8,265 15,736	146,186 139,431	8,970 11,466	1,311 892					
1985	11,656	139	26,519	11,038	3,932	62,979	8,571	14,020	127,059	22,303	845					
1990	13,960	184	29,812	15,806	4,088	70,333	7,807	11,097	138,942	23,820	1,309					
1995	15,084	276	30,580	10,589	4,783	78,828	5,482	11,503	141,765	25,135	995					
1996	16,931	260	35,832 37,717	9,204 R 9,406	5,156	79,164	4,082 5,202	12,644	146,082 R 152,122	26,286	1,429					
1997 1998	17,165 17,320	249 260	37,717 35,855	R 10,192	5,216 4,006	81,440 82,197	5,202 7,332	13,140 14,127	R 153,709	27,084 27,234	1,020 1,283					
1999	17,431	277	35,952	9,314	4,587	84,814	7,492	14,510	156,669	28,301	682					
2000	19,606	269	39,664	9,943	6,097	85,628	9,895	13,345	164,572	28,321	712					
2001	19,049	238	39,291	9,981	4,825	90,793	9,099	14,862	168,851	25,759	1,014					
2002	18,876	258	37,379	9,955	5,345	91,548	6,734	13,256	164,216	27,346	868					
2003 2004	18,709 18,205	263 277	42,026 45,636	11,461 16,754	5,686 5,452	93,019 94,821	10,664 11,525	14,246 15,508	177,102 189,696	24,816 28,315	1,782 1,583					
2004	18,335	300	45,306	18,845	5,767	95,311	9,875	14,751	189,855	27,918	1,484					
2006	17,289	274	45,937	18,809	5.171	97,076	3,709	14,513	185,214	27,594	1,351					
2007	18,119	320	44,591	19,024	5,231	99,021	5,143	13,759	186,770	27,268	1,248					
								Trillion Btu								
1960 1965	316.4 386.3	68.4 98.6	82.4 108.4	24.0 35.8	4.6 6.6	163.2 189.7	112.1 105.5	56.1 72.3	442.5 518.2	0.0 0.0	13.6 9.2	56.1 54.2	0.0 0.0	-45.5 -15.8	0.0 0.0	851.5
1905	275.3	140.1	143.5	33.0 61.9	9.1	255.7	209.8	72.3 72.1	752.2	0.0	7.3	55.5	0.0	-15.6 55.3	0.0	1,050.8 1,285.6
1975	169.2	123.6	133.9	64.9	11.4	311.5	257.5	49.5	828.8	98.8	13.6	53.2	0.0	77.0	0.0	1,364.2
1980	231.8	R 161.0	143.3	68.8	11.5	310.1	155.0	90.8	779.4	125.1	9.3	76.3	0.0	190.9	-0.1	1,573.6
1985	297.1	R 144.9	154.5	61.7	14.2	330.8	53.9	82.9	697.9	236.9	8.8	90.5	0.0	209.2	1.9	1,687.3
1990 1995	355.1 385.1	R 192.1 R 284.3	173.7 178.1	88.5 60.0	14.8 17.3	369.5 411.1	49.1 34.5	67.5 68.4	763.0 769.4	252.1 264.1	13.6 10.3	90.4 115.4	0.3 0.4	295.8 315.8	1.3 -0.5	1,963.7 2,144.3
1995	428.7	R 270.6	208.7	52.2	18.6	412.9	34.5 25.7	74.3	769.4 792.4	276.1	14.8	121.0	0.4	304.5	-0.5	_ 2,207.8
1997	432.8	R 259.9	219.7	53.3	18.9	424.5	32.7	77.2	826.4	284.2	10.4	112.5	0.4	286.8	-0.4	R 2,213.1
1998	438.5	R 271.5	208.9	R 57.8	14.5	428.4	46.1	83.1	R 838.8	285.7	13.1	109.2	0.5	285.4	-0.2	R 2,242.6
1999	444.5	R 287.3	209.4	52.8	16.6	442.0	47.1	86.0	853.8	295.7	7.0	112.8	0.5	294.9	-0.2	2,296.5
2000	507.0	R 278.2 R 246.7	231.0	56.4	22.0	446.1	62.2	78.5	896.2	295.4	7.3	106.4	0.5	294.3	-0.5	2,384.7
2001 2002	487.6 482.8	R 267.2	228.9 217.7	56.6 56.4	17.4 19.3	473.0 476.8	57.2 42.3	87.3 77.3	920.4 889.9	269.1 285.5	10.5 8.8	81.6 67.4	0.6 0.7	301.3 339.6	-0.2 -0.1	2,317.5 2,341.8
2002	464.4	R 272 2	244.8	65.0	20.6	484.4	67.0	83.4	965.2	258.6	18.2	85.3	0.7	358.4	-0.1	2,422.7
2004	452.6	R 284.9	265.8	95.0	19.7	494.5	72.5	91.0	1,038.5	295.2	15.9	94.0	1.0	365.4	-0.1	2,547.3
2005	458.5	R 312.3	263.9	106.9	20.9	497.3	62.1	86.9	1,038.0	291.3	14.8	R 105.5	1.2	383.8	-0.2	R 2.605.2
2006	433.6	R 284.3	267.6	106.6	18.6	506.5	23.3	85.8	1,008.6	287.9	13.4	R 101.9	1.3	415.3	(s) -0.1	R 2,546.3
2007	457.9	332.7	259.7	107.9	18.8	516.8	32.3	81.1	1,016.6	286.0	12.3	100.3	1.6	403.6	-0.1	2,610.9

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Virginia

				Petro	leum		Biomass			5.47			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	766	27	6,520	4,655	734	11,909	1,499			4,099			
1965	454	36	7,471	4,847	1,133	13,452	1,110			6,557			
1970	264	50	9,734	4.544	1,430	15.708	882			11,546			
1975	97	49 55	9,091	2,056	1,561	12,708 10,289	925			15,871			
1980	41	55	7,380	1,403	1,506	10,289	1,027			19,731			
1985	60	49 51	5,738	3,611	1,805	11,154	1,259			22,568			
1990	47 37	51	6,069 5,162	1,160	2,124	9,352 9,256	518			28,130 33,472			
1995 1996	37 47	69 76	5,162	1,220 1,544	2,874 3,188	10,502	779 809			33,472 34,651			
1990	20	76	5,770	1,583	3,438	10,235	618			33,923			
1998	19	63	5,021	2,053	2,624	9,697	549			34,703			
1999	15	69	4.951	1,548	2,927	9,426	578			35,779			
2000	9	80	5.679	1.642	2,927 3,500	10.820	621			37.541			
2001	14	70	5,187	1.681	3,179	10,046	395 401			37.325			
2002	9	75	4,884	935	3,059	8.878	401			40,358			
2003	14	85	5,144	1,261	3,869	10,274 10,999	422			40,877			
2004	9	83	5,601	1,454	3,944	10,999	433			42,503			
2005	10	85	5,390	1,426	3,787 R 3,097	10,603 R 8,761	R 530 R 483			44,662			
2006 2007	2 8	72 81	4,524 4,358	1,139 740	3,097	8,572	532			42,906 45,481			
2007	0	01	4,330	740	3,474					45,461			
						Tr	illion Btu						
1960	19.0	27.9	38.0	26.4	2.9	67.3	30.0	0.0	0.0	14.0	158.1	34.6	192.7
1965	11.2	37.4	43.5	27.5	4.5 5.4	75.5	22.2	0.0	0.0	22.4	168.7	53.4	222.2
1970	6.3	50.8	56.7	25.8	5.4	87.9	17.6	0.0	0.0	39.4	202.0	95.3	297.4
1975	2.3	49.7	53.0	11.7	5.8	70.4	18.5	0.0	0.0	54.2	195.0	130.2	325.3
1980 1985	1.0 1.5	55.6 R 50.7	43.0 33.4	8.0 20.5	5.5 6.5	56.5 60.4	20.5 25.2	0.0 0.0	0.0 0.0	67.3 77.0	200.9 214.6	162.3 177.3	363.2 391.9
1990	1.2	53.6	35.4	6.6	7.7	49.6	10.4	0.0	0.0	96.0	211.0	221.9	432.9
1995	0.9	R 70.8	30.1	6.9	10.4	47.4	15.6	0.1	0.1	114.2	249.1	259.4	508.4
1996	1.2	K 79 2	33.6	8.8	11.5	53.9	16.2	0.1	0.1	118.2	268.7	268.9	537.6
1997	0.5	R 77.1	30.4	9.0	12.4	51.8	12.4	0.1	0.1	115.7	257.7	262.2	519.9
1998	0.5	R 66.0	29.2	11.6	9.5	50.4	11.0	0.1	0.1	118.4	246.5	268.5	515.0
1999	0.4	71.8	28.8	8.8	10.6	48.2	11.6	0.2	0.1	122.1	254.3	279.2	533.5
2000	0.2	R 82.5	33.1	9.3	12.6	55.0	12.4	0.2	0.1	128.1	278.4	291.4	569.7
2001	0.4	72.9 _ 78.2	30.2	9.5 5.3	11.5 11.1	51.2 44.8	7.9 8.0	0.2 0.2	0.2	127.4	260.0	283.8	543.8
2002	0.2	78.2	28.4	5.3	11.1	44.8	8.0	0.2	0.2	137.7	269.4	307.0	576.3
2003	0.3	R 88.4	30.0	7.1	14.0	51.2	8.4	0.3	0.2	139.5	288.2	307.8	595.9
2004 2005	0.2 0.2	R 85.0	32.6	8.2	14.3	55.1	8.7 R _. 10.6	0.3	0.2	145.0 152.4	294.5 R 206.2	320.9	615.4 R 620.5
2005		R 89.2 74.5	31.4 26.4	8.1	13.7 R 11.2	53.2 R 44.0	N 10.6 R 9.7	0.3	0.3 0.4	152.4 146.4	294.5 R 306.2 R 275.4	333.3 316.6	615.4 R 639.5 R 592.0
2006	0.1 0.2	74.5 84.5	25.4 25.4	6.5 4.2	12.5	42.1	10.6	0.4 0.5	0.4	146.4 155.2	293.6	334.8	628.4
2001	0.2	07.3	20.4	7.2	12.0	74.1	10.0	0.0	0.0	100.2	200.0	337.0	020.4

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Virginia

Coal Matural Coal Matural Coal C						Petro	oleum				Biomass		B . "			
Thousand Pear Thousand Billion Short Ton Cubie Feet Thousand Barrels Thousand Barrels Million Mi		Coal			Kerosene	LPG ^b		Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales			
1965 342 15 1,591 97 200 275 211 2,373 0 6,192	Year					Thousar	nd Barrels				and	Geothermal ^f		Net Energy ^{f,h}	Energy	Total f,h
1985 342 15	1960	533	11	1.388	93	130	223	175	2 009	0			3 676			
1970 207 30 2,072 91 252 210 118 2,744 0 10,804 1900 157 238 1,834 46 268 371 443 2,759 0 16,908 1800 152 338 1,634 46 268 371 443 2,759 0 16,908 1800 152 338 1,634 46 268 371 443 2,759 0 16,908 1800 152 338 1,634 47 214 315 488 418 4198 0 2,407 1800 152 348 51 2,407 275 507 132 205 3,776 0 33,051 1996 348 57 2,857 275 507 132 205 3,776 0 33,051 1997 162 62 2,974 372 607 137 128 4,217 0 34,165 1998 153 58 3,097 433 463 123 112 4,229 0 36,893 1999 109 62 2,864 317 517 166 182 4,045 0 36,893 2000 146 66 3322 276 618 122 425 4,045 0 38,459 2000 146 66 3322 276 618 122 425 4,045 0 38,459 2000 146 66 3322 276 618 122 425 4,045 0 39,533 2000 145 683 618 123 405 405 0 44,670 44,670 2000 145 404 345 40	1965	342		1,591	97	200	275	211	2,373	Ö			6,192			
1980		207		2,072		252			2,744	•						
1985 211 34 2,747 214 319 456 443 4,179 0 21,491 1995 189 41 2,815 139 375 478 218 4,025 0 28,082 1995 248 57 2,657 275 507 132 205 3,776 0 33,051 33,051 1996 348 59 3,398 277 563 130 253 4,621 0 33,051 34,165 1997 162 62 2,974 372 607 137 128 4,217 0 34,165 34,165 1998 153 58 3,097 433 463 123 112 4,229 0 35,793 1999 109 62 2,884 317 517 166 182 4,045 0 38,439 1999 109 62 2,884 317 517 166 182 4,045 0 38,439 2000 74 66 3,322 276 618 122 431 4,768 0 38,439 2002 68 63 2,454 88 543 123 127 4,788 0 38,439 2002 68 63 2,454 88 543 123 405 4,585 0 40,442 2003 93 66 3,150 185 28 68 1123 405 4,585 0 40,442 2005 111 66 2,289 26 68 115 316 8 115 83 4,049 0 44,173 2 2005 111 66 2,289 26 68 115 815 116 83 4,049 0 44,670 2006 112 66 2,280 188 8543 113 116 18 2,398 0 44,670 2006 112 66 2,280 188 8543 115 116 83 4,049 0 44,670	1975	226	32	1,935		275	310	245	2,807				14,014			
1990 189	1980			1,634					2,759	•			16,969			
1995 248	1985	180		2,747 2,815		375	456 478		4,179	•						
1996 348 59 3,398 277 563 130 253 4,621 0 33,839 1998 153 58 3,097 433 463 123 112 4,229 0 34,166 1998 153 58 3,097 433 463 123 112 4,229 0 36,893 1998 153 58 3,097 433 463 123 112 4,229 0 36,893 1998 153 58 3,097 433 463 123 112 4,229 0 38,459 1998 109 62 2,664 317 517 166 182 431 4,768 0 38,459 1998 109 62 2,664 317 517 166 182 431 4,768 0 39,459 1998 13,150 195 683 123 405 4,566 0 40,642 1998 13,150 195 683 123 405 4,566 0 41,179 1998 116 120 120 116 120	1995	248		2,657	275	507	132		3 776	•						
1998 153 58 3,097 433 463 123 112 4,229 0 35,793 1999 109 62 2,864 317 517 166 182 431 4,768 0 36,893 2000 74 66 3,322 276 618 122 431 4,768 0 39,459 2001 115 60 2,959 228 561 124 282 4,154 0 39,459 2002 68 63 2,457 88 540 127 74 3,285 0 40,642 2003 92 64 3,150 195 683 123 405 4,556 0 40,642 2004 83 65 3,027 242 696 124 316 4,405 0 43,025 2005 211 66 2,960 203 668 115 83 4,049 0 0 44,654 2006 24 62 2,692 168 R 547 100 37 R 3,543 0 46,971 2007 69 66 2,088 162 613 116 18 2,998 0 46,971 1960 13.2 11.7 8.1 0.5 0.5 1.2 1.1 11.4 0.0 0.6 0.0 12.5 49.4 31.0 80.5 1970 4.9 30.9 12.1 0.5 1.0 1.1 0.7 15.4 0.0 0.3 0.0 36.9 88.4 89.2 177.6 1975 5.3 33.0 11.3 0.2 1.0 1.6 1.5 15.7 0.0 0.4 0.0 47.8 102.1 115.0 217.7 1985 5.3 7.3 3.3 16.0 1.2 1.1 1.4 2.4 2.8 2.5 0.0 0.5 0.0 77.9 116.8 139.6 256.2 1985 6.3 7.8	1996	348	59	3.398	277	563	130	253	4.621	Ŏ			33,839			
1999 109 62 2,864 317 517 166 182 4,045 0 36,893 2000 74 66 33,322 276 618 122 431 4,768 0 38,499 2001 115 60 2,959 228 561 124 282 4,154 0 39,329 2003 92 64 3,150 195 683 123 405 4,556 0 41,179 2003 92 64 3,150 195 683 123 405 4,556 0 41,179 2005 111 66 2,980 203 668 115 83 4,049 0 44,670 2005 111 66 2,980 203 668 115 83 4,049 0 44,670 2007 69 66 2,088 162 613 116 18 2,998 0 46,971 2007 2007 69 66 2,088 162 613 116 18 2,998 0 46,971 2007 2007 2008 24 62 2,089 162 613 116 18 2,998 0 46,971 2008 2008 2009 20	1997	162	62	2,974	372	607	137	128	4,217	•			34,165			
2000 74 66 3.322 276 618 122 431 4.768 0 33.329 2002 68 63 2.457 88 540 127 74 3.285 0 40.642 2002 68 63 2.457 88 540 127 74 3.285 0 41.179 2004 83 65 3.027 242 696 124 316 4.056 0 41.179 2004 83 65 3.027 242 696 124 316 4.05 0 41.670 41.020 2005 111 68 2.980 203 688 115 83 4.049 0 44.670 2006 24 62 2.692 168 8.547 100 37 8.3.643 0 46.571 2006 24 62 2.692 168 8.547 100 37 8.3.643 0 46.971 2007 69 66 2.088 162 613 116 18 2.998 0 46.971	1998	153	58	3,097	433	463	123		4,229							
2001 115 60 2.959 228 561 124 282 4.154 0 39.329										•						
2002 68 63 2,457 88 540 127 74 3,285 0 40,642 2004 83 65 3,027 242 696 124 316 4,405 0 43,025 2004 83 65 3,027 242 696 124 316 4,405 0 43,025 2006 111 66 2,980 203 668 115 83 4,049 0 44,670 44,670 2006 24 62 2,692 188 8547 100 37 83,543 0 44,670 46,971 2007 69 66 2,088 162 613 116 18 2,998 0 46,971				3,322			122	431								
2004 83 65 3,027 242 696 124 316 4,405 0 43,025 2005 205 111 66 2,980 203 668 115 83 4,049 0 0 44,670 2006 24 62 2,682 168 R 547 100 37 R 3,543 0 44,670 2007 69 66 2,088 162 613 116 18 2,998 0 46,971	2001	115	63	2,959	228	501		282 71	4,154 3,285	•			39,329 40,642			
2004 83 65 3,027 242 696 124 316 4,405 0 43,025 2005 203 111 66 2,980 203 668 115 83 4,049 0 0 44,670 2006 24 62 2,682 168 R 547 100 37 R 3,543 0 44,670 2007 69 66 2,088 162 613 116 18 2,998 0 46,971		92			195	683			3,200 4 556	•						
2005 111 66 2,980 203 668 115 83 4,049 0 44,670 2006 24 62 2,692 168 R547 100 37 R3,543 0 46,971 2007 69 66 2,088 162 613 116 18 2,998 0 46,971										•						
2006	2005	111		2,980	203	668	115		4 049				44,670			
1960 13.2 11.7 18.1 0.5 0.5 0.5 1.2 1.1 11.4 0.0 0.6 0.0 12.5 49.4 31.0 80.5 1965 8.4 15.3 9.3 0.5 0.8 1.4 1.3 13.4 0.0 0.4 0.0 21.1 58.6 50.4 109.1 1970 4.9 30.9 12.1 0.5 1.0 1.1 0.7 15.4 0.0 0.3 0.0 36.9 88.4 89.2 177.6 1975 5.3 33.0 11.3 0.2 1.0 1.6 1.5 15.7 0.0 0.4 0.0 47.8 102.1 115.0 217.1 1980 3.7 39.0 9.5 0.3 1.0 1.9 2.8 15.5 0.0 0.5 0.0 57.9 116.6 139.6 256.2 1985 5.3 8.35 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 7.3 (s) 95.8 173.1 221.6 394.6 1996 8.7	2006	24	62	2,692	168	R 547	100	37	R 3,543				44,654			
1960 13.2 11.7 8.1 0.5 0.5 1.2 1.1 11.4 0.0 0.6 0.0 12.5 49.4 31.0 80.5	2007	69	66	2,088	162	613	116	18	2,998	0			46,971			
1965 8.4 15.3 9.3 0.5 0.8 1.4 1.3 13.4 0.0 0.4 0.0 21.1 58.6 50.4 109.1 1970 4.9 30.9 12.1 0.5 1.0 1.1 0.7 15.4 0.0 0.3 0.0 36.9 88.4 89.2 177.6 1975 5.3 33.0 11.3 0.2 1.0 1.6 1.5 15.7 0.0 0.4 0.0 47.8 102.1 115.0 217.1 1980 3.7 39.0 9.5 0.3 1.0 1.9 2.8 15.5 0.0 0.5 0.0 57.9 116.6 139.6 256.2 1985 5.3 83.3 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 7.3 (s) 95.8 173.1 221.6 394.6 1995 6.2 858.7 15.5 1.6 1.8 0.7 1.3 20.8 0.0 5.4 0.1 112.8 204.0 256.1 460.1 1996 8.7 861.6 19.8 1.6 2.0 0.7 1.6 25.7 0.0 9.1 0.1 115.5 220.5 262.6 483.1 1997 4.0 864.6 17.3 2.1 2.2 0.7 0.8 23.1 0.0 9.5 0.2 116.6 217.9 264.1 482.0 1999 2.9 63.8 16.7 1.8 1.9 0.9 1.1 22.4 0.0 9.3 0.2 125.9 224.4 287.9 512.3 2000 1.9 862.1 17.2 1.3 1.6 2.2 0.6 2.7 26.5 0.0 10.1 0.2 131.2 238.2 298.5 536.7 2001 1.9 862.1 17.2 1.3 2.0 0.6 1.8 23.0 0.0 9.7 0.2 132.2 228.5 299.0 527.5 2002 1.7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 866.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 866.8 17.4 1.2 2.4 0.6 0.5 22.0 0.7 7.7 0.5 152.4 264.9 334.8 571.7 2005 2.8 868.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 7.7 7.7 0.5 152.4 254.2 333.4 858.6									Trillion Btu							
1970 4.9 30.9 12.1 0.5 1.0 1.1 0.7 15.4 0.0 0.3 0.0 36.9 88.4 89.2 177.6 1975 5.3 33.0 11.3 0.2 1.0 1.6 1.5 15.7 0.0 0.4 0.0 47.8 102.1 115.0 217.1 1980 3.7 39.0 9.5 0.3 1.0 1.9 2.8 15.5 0.0 0.5 0.0 57.9 116.6 139.6 256.2 1985 5.3 835.3 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 7.3 (s) 95.8 173.1 221.6 394.6 1996 8.7 861.6 19.8 1.6 2.0 0.7 1.3 20.8 0				8.1	0.5	0.5	1.2									
1975 5.3 33.0 11.3 0.2 1.0 1.6 1.5 15.7 0.0 0.4 0.0 47.8 102.1 115.0 217.1 1980 3.7 39.0 9.5 0.3 1.0 1.9 2.8 15.5 0.0 0.5 0.0 57.9 116.6 139.6 256.2 1985 5.3 835.3 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 0.7 3 (s) 95.8 173.1 221.6 394.6 1995 6.2 R58.7 15.5 1.6 1.8 0.7 1.3 20.8 0.0 5.4 0.1 112.8 204.0 256.1 460.1 1996 8.7 R61.6 19.8 1.6 2.0 0.7 1.6	1965				0.5	0.8									50.4	109.1
1980 3.7 39.0 9.5 0.3 1.0 1.9 2.8 15.5 0.0 0.5 0.0 57.9 116.6 139.6 256.2 1985 5.3 R\$35.3 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 164 0.8 1.4 2.5 1.4 22.4 0.0 0.7 3 (s) 95.8 173.1 221.6 394.6 1995 6.2 R\$58.7 15.5 1.6 1.8 0.7 1.3 20.8 0.0 5.4 0.1 112.8 204.0 256.1 460.1 1996 8.7 R\$61.6 19.8 1.6 2.0 0.7 1.6 25.7 0.0 9.1 0.1 115.5 220.5 262.6 483.1 1997 4.0 R\$64.6 17.3 2.1 2.2 0.7 0.8 23.1 0.0 9.5 0.2 116.6 217.9 264.6 482.0																
1985 5.3 R 35.3 16.0 1.2 1.1 2.4 2.8 23.5 0.0 0.6 0.0 73.3 137.9 168.9 306.8 1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 7.3 (s) 95.8 173.1 221.6 394.6 1995 6.2 R 58.7 15.5 1.6 1.8 0.7 1.3 20.8 0.0 5.4 0.1 112.8 204.0 256.1 460.1 1996 8.7 R 61.6 19.8 1.6 2.0 0.7 1.6 25.7 0.0 9.1 0.1 115.5 220.5 262.6 483.1 1997 4.0 R 64.6 17.3 2.1 2.2 0.7 0.8 23.1 0.0 9.5 0.2 116.6 217.9 264.1 482.0 1998 4.0 60.8 18.0 2.5 1.7 0.6 0.7 23.5 0.0 9.7 0.2 112.6 227.7 0.0 19.4 49.4 4	1975	5.3	33.0	11.3	0.2	1.0	1.6	1.5	15.7	0.0	0.4	0.0	47.8	102.1	115.0	217.1
1990 4.7 42.8 16.4 0.8 1.4 2.5 1.4 22.4 0.0 7.3 (s) 95.8 173.1 221.6 394.6 1995 6.2 R 58.7 15.5 1.6 1.8 0.7 1.3 20.8 0.0 5.4 0.1 112.8 204.0 256.1 460.1 1996 8.7 R 61.6 19.8 1.6 2.0 0.7 1.6 25.7 0.0 9.1 0.1 0.1 115.5 220.5 262.6 483.1 1997 4.0 R 64.6 17.3 2.1 2.2 0.7 0.8 23.1 0.0 9.5 0.2 116.6 217.9 264.1 482.0 1998 4.0 60.8 18.0 2.5 1.7 0.6 0.7 23.5 0.0 9.7 0.2 122.1 220.5 277.0 497.4 1999 2.9 63.8 16.7 1.8 1.9 0.9 1.1 22.4 0.0 9.3 0.2 125.9 224.4 287.9 512.3		3. <i>1</i>	39.0 R 25.2		0.3		1.9		10.0		0.5					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1900		42 R	16.0	0.8		2.4		23.3		7.3		95.8		221.6	300.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6.2	R 58 7	15.5		1.8						0.1				
1997 4.0 R 64.6 17.3 2.1 2.2 0.7 0.8 23.1 0.0 9.5 0.2 116.6 217.9 264.1 482.0 1998 4.0 60.8 18.0 2.5 1.7 0.6 0.7 23.5 0.0 9.7 0.2 122.1 220.5 277.0 497.4 1999 2.9 63.8 16.7 1.8 1.9 0.9 1.1 22.4 0.0 9.3 0.2 125.9 224.4 287.9 512.3 2000 1.9 R 68.4 19.3 1.6 2.2 0.6 2.7 26.5 0.0 10.1 0.2 131.2 238.2 298.5 536.7 2001 2.9 R 62.1 17.2 1.3 2.0 0.6 1.8 23.0 0.0 6.2 0.3 134.2 228.5 299.0 527.5 2002 1.7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 54 0.3 138.7 228.9 309.1 538.0 <td< td=""><td>1996</td><td>8.7</td><td>^R 61.6</td><td>19.8</td><td>1.6</td><td>2.0</td><td>0.7</td><td>1.6</td><td>25.7</td><td></td><td></td><td>0.1</td><td>115.5</td><td>220.5</td><td>262.6</td><td>483.1</td></td<>	1996	8.7	^R 61.6	19.8	1.6	2.0	0.7	1.6	25.7			0.1	115.5	220.5	262.6	483.1
1999 2.9 63.8 16.7 1.8 1.9 0.9 1.1 22.4 0.0 9.3 0.2 125.9 224.4 287.9 512.3 2000 1.9 R 68.4 19.3 1.6 2.2 0.6 2.7 26.5 0.0 10.1 0.2 131.2 238.2 298.5 536.7 2001 2.9 R 62.1 17.2 1.3 2.0 0.6 1.8 23.0 0.0 6.2 0.3 134.2 228.5 299.0 527.5 2002 1.7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 5.4 0.3 138.7 228.9 309.1 538.0 2003 2.3 R 66.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 R 66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 140.5 240.9 324.8 757.7	1997	4.0	R 64.6	17.3	2.1	2.2		0.8	23.1		9.5	0.2	116.6	217.9	264.1	482.0
2000 1.9 R 68.4 19.3 1.6 2.2 0.6 2.7 26.5 0.0 10.1 0.2 131.2 238.2 298.5 536.7 2001 2.9 R 62.1 17.2 1.3 2.0 0.6 1.8 23.0 0.0 6.2 0.3 134.2 228.5 299.0 527.5 2002 1.7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 5.4 0.3 138.7 228.9 309.1 538.0 2003 2.3 R 66.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 R 66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 146.8 246.9 324.8 571.7 2005 2.8 R 68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 R 7.7 0.5 152.4 254.2 333.4 R 587.6 <td>1998</td> <td>4.0</td> <td>60.8</td> <td>18.0</td> <td>2.5</td> <td>1.7</td> <td>0.6</td> <td></td> <td>23.5</td> <td>0.0</td> <td>9.7</td> <td>0.2</td> <td>122.1</td> <td>220.5</td> <td>277.0</td> <td>497.4</td>	1998	4.0	60.8	18.0	2.5	1.7	0.6		23.5	0.0	9.7	0.2	122.1	220.5	277.0	497.4
2001 2.9 R 62.1 17.2 1.3 2.0 0.6 1.8 23.0 0.0 6.2 0.3 134.2 228.5 299.0 527.5 2002 1,7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 5.4 0.3 138.7 228.9 309.1 538.0 2003 2.3 R 66.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 R 66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 146.8 246.9 324.8 571.7 2005 2.8 R 68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 R 7.7 0.5 152.4 254.2 333.4 R 587.6			63.8			1.9										
2002 1.7 65.0 14.3 0.5 2.0 0.7 0.5 17.9 0.0 5.4 0.3 138.7 228.9 309.1 538.0 2003 2.3 R 66.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 R 66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 146.8 246.9 324.8 771.7 2005 2.8 R 68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 R 7.7 0.5 152.4 254.2 333.4 R 587.6	2000	1.9	N 68.4	19.3	1.6	2.2			26.5	0.0	10.1	0.2	131.2	238.2	298.5	536.7
2003 2.3 R66.3 18.3 1.1 2.5 0.6 2.5 25.1 0.0 6.4 0.4 140.5 240.9 310.0 551.0 2004 2.1 R66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 146.8 246.9 324.8 571.7 2005 2.8 R68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 R7.7 0.5 152.4 254.2 333.4 R587.6				17.2	1.3	2.0			23.U 17.0	0.0		U.3				
2004 2.1 K66.3 17.6 1.4 2.5 0.6 2.0 24.2 0.0 7.2 0.4 146.8 246.9 324.8 571.7 2005 2.8 K68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 K7.7 0.5 152.4 254.2 333.4 K587.6	2002	2.7	R 66 3	14.3		2.0			25.1				130.7			550.0 551.0
2005 2.8 ^R 68.8 17.4 1.2 2.4 0.6 0.5 22.0 0.0 ^R 7.7 0.5 152.4 254.2 333.4 ^R 587.6			R 66.3								7.2					571 7
2006 0.6 R 64.8 15.7 1.0 2.0 0.5 0.2 19.4 0.0 R 7.5 0.5 152.4 245.1 329.5 R 574.6 2007 1.7 69.4 12.2 0.9 2.2 0.6 0.1 16.0 0.0 6.9 0.6 160.3 254.7 345.8 600.5	2005	2.8	R 68.8	17.4	1.2	2.4		0.5	22.0		R 7.7	0.5	152.4	254.2	333.4	R 587.6
2007 1.7 69.4 12.2 0.9 2.2 0.6 0.1 16.0 0.0 6.9 0.6 160.3 254.7 345.8 600.5	2006	0.6	R 64.8	15.7			0.5	0.2	19.4		R 7.5	0.5	152.4	245.1	329.5	R 574.6
	2007		69.4	12.2	0.9	2.2	0.6		16.0		6.9		160.3	254.7	345.8	600.5

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Virginia

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	4,503	22	2,133	275	882	5,739	3,931	12,961	79			3,786			
1965 1970	5,824 4,172	36	2,977 4,415	301 682	838 653	6,754 4,170	6,164 5,954	17,033 15,874	87 41			5,834 7,467			
1975	2,816	45 37	3,128	1,184	460	7,611	5,490	17,872	38			9,437			
1980	3,538	55	3,573	1,312	278		13,540	23,905	27			11,637			
1985	4.219	51	3.389	1,707	686	3,408	9,582	18.772	27			13,561			
1990	4,641	51 75	3,625	1,526	705	2,853	9,186	17,896	0			16,399			
1995	3 551	99	3,661	1,338	718		9,404	16.899	14			18,554			
1996	3,594	86 87	4,366	1,349	766	1,790	10,241	18,512	9						
1997	3,486	87	4,997	1,124	801	2,412	10,604	19,938	13			19,249			
1998 1999	3,385 3,249	94 97	4,431 4,279	884 1,130	794 571	2,012 1,704	10,995 11,977	19,115 19,661	11 13			20,024 20,269			
2000	3,425	78	4,279	1,130	569	1,704	10,777	20,015	13						
2000	3,492	67	5,091	1,078	1,377	1,220	12,282	21,048	13			19,702			
2002	3,382	77	4,570	1,727	1,392	686	11,599	19,974	2			19,521			
2003	3.403	71	5,797	1,084	1,398	2,092	12,210	22,581	6			19,282			
2004	3,230	76	6,758	766		2,446	13,205	24.916	(s)			19,734			
2005	3 295	76	7,105	1,244 R 1,455	1,639	2,406	12,433	24,827 R 23,874	13			19,354			
2006	3,068	74	6,872	K 1,455	1,732	1,126	12,690	K 23,874	6			18,998			
2007	3,130	75	7,114	1,081	1,081	1,631	12,192	23,099	7			18,925			
							Tri	Ilion Btu							
1960	114.9	23.3	12.4	1.1	4.6		24.5	78.8	0.8	25.5	0.0		256.2	32.0	288.2
1965	147.4	36.6	17.3	1.2	4.4		38.0	103.4	0.9	31.6	0.0		339.8	47.5	387.3
1970 1975	99.3 66.1	46.0 37.3	25.7	2.6			36.2	94.2	0.4	37.5	0.0		302.8	61.7	364.5
1975	88.1	55.4	18.2 20.8	4.4 4.8	2.4 1.5	47.9 32.7	33.8 78.2	106.7 138.0	0.4 0.3	34.4 55.3	0.0 0.0		277.0 376.7	77.4 95.7	354.5 472.5
1985	106.7	R 52.8	19.7	6.1	3.6		57.6	108.6	0.3	64.8	0.0		379.2	106.6	485.8
1990	117.9	R 78.4	21.1	5.5		17.9	56.5	104.8	0.0	66.1	0.0		423.1	129.4	552.5
1995	90.7	R 101.8	21.3	4.8	3.7	11.2	56.3	97.4	0.1	81.4	0.0		434.7	143.8	578.5
1996	91.9	R 88 9	25.4	4.9	4.0	11.3	60.6	106.1	0.1	82.2	0.0	64.9	433.8	147.6	581.4
1997	88.8	R 90 4	29.1	4.1	4.2	15.2	62.7	115.2	0.1	78.0	0.0		438.0	148.8	586.8
1998	86.8	R 98.2	25.8	3.2	4.1	12.6	65.2	111.0	0.1	76.3	0.0		440.6	154.9	595.5
1999	83.4	R _{100.3}	24.9	4.1	3.0		71.4	114.1	0.1	78.0	0.0		445.1	158.2	603.3
2000	91.5	R 80.8	28.3	7.0	3.0	11.7	63.8	113.8	0.1	78.2	0.0	70.4	434.6	160.0	594.6
2001 2002	92.9 88.9	69.4	29.7	3.9 6.2	7.2	7.7	72.6	121.0	(s) (s)	61.0	0.0		411.5	149.8	561.3 538.4
2002	90.9	79.8 R 73.8	26.6 33.8	3.9		4.3 13.1	67.8 71.7	112.2 129.9	(s) 0.1	42.4 58.4	0.0		389.9 418.6	148.5 145.2	538.4 563.8
2003	86.1	77.6	39.4	3.9 2.8		15.1	71.7 77.8	144.4	(s)	64.0	0.0		439.4	149.0	588.4
2004	86.9	79.9	41.4	15	8.6		73.7	143 3	0.1	73.4	0.0		449.7	144.4	_ 594.1
2006	80.6	77.1	40.0	R 5.2	9.0		75.4	143.3 R 136.8	0.1	72.2	0.0		R 431.6	140.2	R 571.8
2007	82.3	78.2	41.4	3.9	5.6		72.1	133.3	0.1	69.6	0.0		428.1	139.3	567.4

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Virginia

						Per	troleum			D . "					
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	77	4	382	4,099	4,441	7	451	29,972	11,780	51,134	0	0			
1965	19	7	721	6,564	6,504	24	428	34,992	9,645	58,877	Ö	Ö			
1970	7	8	356	7,698	11,093	47	430	47,821	12,000	79,446	0	0			
1975 1980	(s) 0	3 8	251	8,217	11,602	57 47	427 530	58,524 58,386	6,356 4,419	85,436 87,098	0	0			
1980	0	δ Δ	218 131	11,219 14,305	12,279 11,038	102	482	61,837	3,419	91,313	646	32 60			
1990	ő	7	70	16,749	15,806	63	542	69,150	3,316	105 696	374	86			
1995	0	6	85	18,418	10.589	64	518	77,978	1.923	109,575 110,748 R 114,264 R 116,253	1	86			
1996	0	8	79	21,422	9,204	56	502	78,268	1,217	110,748	944	85			
1997 1998	0	8 7	50 90	22,274 22,842	R 9,406 R 10,192	48 35	531 555	80,503 81,280	1,453 1,258	N 114,264	729 910	83 88			
1999	0	8	106	23,217	9,314	14	561	84,077	1,230	118,509	780	91			
2000	ő	8	97	24,840	9,943	35	553	84,937	4,225	124,630	884	96			
2001	0	8	165	24,618	9,981	8	507	89,292	1,048	125,618	825	97			
2002	0	8	134	24,930	9,955	18	501	90,030	838	126,404	1,455	.97			
2003	0	7	117	25,375	11,461	51	463	91,498	1,566	130,530	1,920	172			
2004 2005	0	6 5	138 223	29,026 28,426	16,754 18,845	46 67	469 466	92,956 93,557	1,829 1,930	141,219 143,515	2,016 R 1 580	162 163			
2006	0	6	61	31,389	18,809	72	454	95,243	1,695	147,724	R 1,580 R 4,071	163			
2007	0	7	197	29,916	19,024	63	469	97,824	1,327	148,820	5,350	193			
								Trillion Btu							
1960	2.0	4.1	1.9	23.9	24.0	(s) 0.1	2.7	157.4	74.1	284.1	0.0	0.0	290.2	0.0	290.2
1965	0.5	7.0	3.6	38.2 44.8	35.8	0.1	2.6	183.8	60.6	324.8	0.0	0.0	332.2	0.0	332.2
1970 1975	0.2	8.0 3.1	1.8 1.3	44.8 47.9	61.9 64.9	0.2 0.2	2.6 2.6	251.2 307.4	75.4 40.0	438.0 464.3	0.0 0.0	0.0 0.0	446.1 467.4	0.0 0.0	446.1 467.4
1980	(s) 0.0	8.4	1.3	65.3	68.8	0.2	3.2	306.7	27.8	473.1	0.0	0.0	481.6	0.0	481.8
1985	0.0	4.6	0.7	83.3	61.7	0.4	2.9	324.8	21.5	495.3	2.3	0.2	502.3	0.5	502.8
1990	0.0	7.2	0.4	97.6	88.5	0.2	3.3	363.2	20.8	574.1	1.3	0.3	582.9	0.7	583.6
1995	0.0	6.6	0.4	107.3	60.0	0.2	3.1	406.7	12.1	589.9	(s) 3.3	0.3	596.7	0.7	597.4
1996	0.0	8.2	0.4	124.8	52.2	0.2	3.0 3.2	408.2	7.7 9.1	596.5	3.3 2.6	0.3	605.0	0.7	605.7
1997 1998	0.0 0.0	7.9 7.3	0.3 0.5	129.7 133.1	53.3 R 57.8	0.2 0.1	3.2 3.4	419.7 423.6	9.1 7.9	615.5 626.3	2.6 3.2	0.3 0.3	623.7 R 634.0	0.6 0.7	624.3 634.6
1999	0.0	8.5	0.5	135.2	52.8	(s)	3.4	438.1	7.7	637.8	2.8	0.3	646.7	0.7	647.4
2000	0.0	8.5	0.5	144.7	56.4	0.1	3.4	442.5	26.6	674.1	3.1	0.3	682.9	0.7	683.7
2001	0.0	8.1	0.8	143.4	56.6	(s) 0.1	3.1	465.2	6.6	675.7	2.9	0.3	684.2	0.7	684.9
2002	0.0	8.4	0.7	145.2	56.4		3.0	468.9	5.3	679.6	5.2	0.3	688.3	0.7	689.1
2003 2004	0.0 0.0	7.4 6.0	0.6 0.7	147.8 169.1	65.0 95.0	0.2 0.2	2.8 2.8	476.4 484.8	9.8 11.5	702.6 764.0	6.8 _ 7.1	0.6 0.6	710.7 770.6	1.3 1.2	712.0 771.8
2004	0.0	5.3	1.1	165.6	106.9	0.2	2.8	484.8 488.2	12.1	764.0 776.9	R 5.6	0.6	770.6 782.8	1.2	771.8 784.1
2006	0.0	5.8	0.3	182.8	106.6	0.2	2.8	497.0	10.7	800.4	R 14.4	0.6	806.8	1.2	808.0
2007	0.0	7.4	1.0	174.3	107.9	0.2	2.8	510.5	8.3	805.1	18.9	0.7	813.1	1.4	814.5

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Virginia

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	18/aad	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	Wood and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
1960	6 262	1	130	6	0	136	0	1,189		0	0	0	0	
1960 1965	6,262 8,265	ż	170	6 7	ŏ	178	ŏ	797		ŏ	ŏ	ŏ	ŏ	
1970 1975	6.644	4	17,085	721	856	18,662	0	650		0	0	0	0	
1975	3,991	(s) 2	26,741	624	0	27,364	8,970	1,273		0	0	0	0	
1980	5,560		14,586	793	0	15,379	11,466	864		0	0	0	0	
1985	7,166	2	1,301	340	0	1,641	22,303	818		0	0	0	0	
1990	9,083	10	1,421	553	0	1,973	23,820	1,309		0	(s) (s)	0	0	
1995	11,248 12,942	45	1,577	683	0	2,260	25,135	981 1,419		0	(s)	0	0	
1996	12,942	32	822	876	0	1,698 3,468	26,286	1,419 1,007		0	Ó	0	0	
1997	13,496 13,762	19	1,209	2,259	0	3,468 4,414	27,084	1,007		0	0	0	0	
1998 1999	14,057	38 41	3,950 4,387	464 641	0	5,028	27,234 28,301	1,272		0	0	0	0	
2000	16,098	37	3,373	966	0	4,339	28,321	699		0	0	0	0	
2000	15,428	37	6,549	1,436	0	7,985	25,759	1,013		0	0	0	0	
2001 2002	15,417	33 35	5,136	539	0	5,675	27,346	867		0	0	0	(s)	
2003	15,201	35	6.602	2,560	Ô	9,161	24,816	1,776		Õ	ő	0	(s)	
2003 2004	14,882	49	6,934	1,223	ŏ	8,157	28,315	1,583		ŏ	ŏ	ŏ	0	
2005	14,920	67	5,456	1,405	0	6,862	27,918	1 471		0	0	Ō	Ō	
2006	14,194	60	851	460	0	1,312	27.594	1,345		0	0	0	0	
2007	14,913	91	2,166	1,115	0	3,281	27,268	1,345 1,242		0	0	0	0	
							Trillion E	Btu						
1960 1965	167.4	1.5	0.8	(s)	0.0	0.9	0.0	12.8	0.0	0.0	0.0	0.0	0.0	182.5
1965	218.8	2.3	1.1	(s)	0.0	1.1	0.0	8.3	0.0	0.0	0.0	0.0	0.0	230.6
1970	164.6	4.4	107.4	4.2	5.2	116.8	0.0	6.8	0.0	0.0	0.0	0.0	0.0	292.6
1975 1980	95.5 139.1	0.5 2.5	168.1 91.7	3.6	0.0 0.0	171.8 96.3	98.8 125.1	13.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	379.8 372.0
1985	183.6	1.6	8.2	4.6 2.0	0.0	10.2	236.9	9.0 8.5	0.0	0.0	0.0	0.0	0.0	440.8
1990	231.3	10.1	8.9	3.2	0.0	12.2	252.1	13.6	6.6	0.0	(s)	0.0	0.0	525.8
1995	287.3	R 46 4	0.9	4.0	0.0	13.9	264.1	10.1	12.9	0.0	(5)	0.0	0.0	634.6
1996	326.9	R 46.4 R 32.7	9.9 5.2	5.1	0.0	10.3	276.1	14.7	13.5	0.0	(s) 0.0	0.0	0.0	674.0
1997	339.4	19.9	7.6	13.2	0.0	20.8	284.2	10.3	12 7	0.0	0.0	0.0	0.0	687.3
1998	347.2	Raga	24.8	2.7	0.0	27.5	285.7	13.0	12.2	0.0	0.0	0.0	0.0	724.9
1999	357.9	R 42 9	27.6	3.7	0.0	31.3	295.7	6.8	14.0	0.0	0.0	0.0	0.0	748.6
2000	413.3	R 38.1	21.2	5.6	0.0	26.8	295.4	7.1	5.7	0.0	0.0	0.0	0.0	786.3
2001	391.4	34.1	41.2	8.4	0.0	49.5	269.1	10.5	6.6	0.0	0.0	0.0	0.0	761.2
2002	391.9	35.8	32.3	3.1	0.0	35.4	285.5	8.8	11.6	0.0	0.0	0.0	(s)	769.0
2003	370.9	36.2	41.5	14.9	0.0	56.4	258.6	18.2	12.0	0.0	0.0	0.0	(s) 0.0	752.3
2004	364.2	50.1	43.6	7.1	0.0	50.7	295.2	15.9	14.1	0.0	0.0	0.0	0.0	790.2
2005	368.6	69.1	34.3	8.2	0.0	42.5	291.3	14.7	13.8	0.0	0.0	0.0	0.0	799.9
2006	352.4	62.1	5.4	2.7	0.0	8.0	287.9	13.3	12.5	0.0	0.0	0.0	0.0	736.3
2007	373.7	93.3	13.6	6.5	0.0	20.1	286.0	12.3	13.1	0.0	0.0	0.0	0.0	798.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Washington

						Petroleum				Montes	II. J.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV,	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barrel	s			Million	ı kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960	608	65	18,123	4,502	548	23,076	9,300	7,709	63,257	0	34,349					
1965 1970	488 245	108 150	17,116 18,201	6,919 10,637	1,227 1,659	26,906 36,068	9,140 10,384	10,629 13,212	71,937 90,161	0 2,614	49,295 69,525					
1975	4,492	164	16,970	14,037	763	41,007	8,459	16,386	97,622	3,308	83,708					
1980	5,443	129	18,471	12,036	1,487	42,653	17,277	13,446	105,370	2,041	83,111					
1985 1990	5,616 5,147	135 163	20,008 20,155	15,417 22,343	2,466 2,292	44,020 53,464	11,406 16,272	15,114 21,122	108,432 135,649	8,038 5,742	77,053 87,467					
1995	4,158	254	21,307	23,039	2,913	58,836	17,305	23,908	147,310	6,942	82,500					
1996	5,682	274	22,488	22,323	3,195	61,611	12,768	25,075	147,460	5,588	98,518					
1997 1998	4,948 6,241	256 290	24,543 21,859	R 22,464 R 21,879	5,116 4,716	61,213 61,833	12,924 9,632	22,709 29,206	R 148,970 R 149,126	6,244 6,916	104,171 79,815					
1999	5,838	287	24,237	22,155	4,458	63,239	7,989	31,723	153,801	6,086	96,989					
2000	6,501	287	25,122	24,726	6,456	63,053	7,551	25,689	152.597	8,605	80,263					
2001 2002	6,151 6,252	312 234	24,128 24,826	21,815 18,076	7,083 4,830	63,492 64,544	6,415 5,447	19,627 18,481	142,561 136,204	8,250 9,048	54,734 78,167					
2003	7,427	250	23,551	17,493	2,735	64,317	6,071	19,434	133,600	7,615	71,757					
2004	6,986	262	24,003	19,219	2,752	64,302	6,535	20,042	136.854	8,982	71,576					
2005 2006	7,067 4,219	265 263	24,753 29,918	18,480 18,588	2,779 R 2,773	65,216 65,712	7,785 6,207	22,067 22,694	141,080 R 145,891	8,242 9,328	72,075 82,008					
2007	5,818	273	30,471	20,451	2,667	65,893	9,983	22,687	152,152	8,109	78,829					
								Trillion Btu								
1960 1965	15.2 12.1	67.2 116.2	105.6 99.7	24.4 38.2	2.2 4.9	121.2 141.3	58.5 57.5	45.1 64.4	356.9 406.0	0.0 0.0	369.6 515.3	58.5 66.2	0.0 0.0	-59.9 -117.5	-0.2 -1.6	807.4 996.8
1970	5.9	158.2	106.0	59.3	6.3	189.5	65.3	80.3	506.7	28.7	729.6	66.5	0.0	-203.4	2.1	1,294.3
1975	76.2	171.2	98.8	78.8	2.8	215.4	53.2	99.8	548.9	36.4	871.1	64.3	0.0	-314.7	5.9	1,459.3
1980 1985	91.0 93.7	135.5 140.0	107.6 116.5	67.5 86.6	5.5 8.9	224.1 231.2	108.6 71.7	81.5 92.5	594.7 607.5	22.3 85.4	863.4 805.0	88.3 112.0	0.0 0.0	-159.3 -118.9	2.9 3.1	1,638.7 1,727.7
1990	85.6	R 167.6	117.4	126.0	8.3	280.8	102.3	128.3	763.2	60.8	909.8	93.4	0.0	-22.6	1.4	2,059.6
1995	69.8	264.5	124.1	130.4	10.6	306.8	108.8	145.0	825.7	72.9	850.7	90.1	0.6	-44.6	-2.6	2,127.0
1996 1997	90.9	283.9 268.1	131.0 143.0	126.5 R 127.4	11.5 18.5	321.4	80.3	152.4 138.4	823.1 827.6	58.7 65.5	1,018.7 1,063.9	89.7	0.6	-241.6	15.7	2,139.7
1997	80.5 103.5	303.3	143.0	R 124.1	17.0	319.1 322.3	81.3 60.6	138.4 177.7	R 829.0	72.6	813.9	94.2 87.1	0.6 0.7	-240.1 16.0	12.4 8.4	2,172.7 R 2,234.4
1999	96.9	302.3	141.2	125.6	16.1	329.5	50.2	192.9	855.6	63.6	991.8	89.4	0.7	-83.5	6.2	2.322.9
2000	106.2	297.6	146.3	140.2	23.3	328.5	47.5	157.2	843.0	89.7	818.8	89.6	0.7	-18.9	-3.9	2,222.8
2001 2002	99.4 100.8	322.4 238.2	140.5 144.6	123.7 102.5	25.6 17.5	330.8 336.1	40.3 34.2	119.1 112.3	780.0 747.3	86.2 94.5	565.6 795.2	92.7 87.6	0.6 4.9	35.7 -205.1	-17.3 -4.1	1,965.4 1,859.2
2003	118.2	255.1	137.2	99.2	9.9	334.9	38.2	117.4	736.8	79.4	734.9	95.7	6.9	-145.8	-6.7	1.874.4
2004	112.5	268.5	139.8	109.0	10.0	335.3	41.1	121.3	756.5	93.7	717.3	R 92.6	8.1	-113.5	-16.5	1,919.2
2005 2006	112.3 69.2	272.7 271.6	144.2 174.3	104.8 105.4	10.1 R 10.0	340.3 342.9	48.9 39.0	133.5 137.4	781.8 R 809.0	86.0 97.3	720.7 813.4	R 83.4 R 107.0	5.8 11.1	-83.1 -111.9	-10.3 -29.5	R 1,969.3 R 2,037.1
2007	95.7	271.0	174.5	116.0	9.6	343.9	62.8	137.4	846.8	85.0	779.1	82.5	25.0	-115.5	-29.5 -11.1	2,067.2

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

J Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Washington

				Petro	leum		Biomass			-			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses 9	Total d,f
1960 1965	106 83	8 17	7,303 6,495	0	347 894	7,650 7,399	888 624		 	8,755 11,015	 		
1970	19	17 32 34 30 33	7,035	115	1.145	8,296	479			15,355			
1975	6	34	4,806	203	404	5,413	513			19.209			
1980	34	30	3,422	65 86	626	4,113	487			24,445 27,933			
1985 1990	47 13	33 40	3,010 2,675	86	553 657	3,648 3,381	849 665			27,933 28,809			
1995	10	40 53	2,073	49 86	1,237	3,327	854			30,147			
1996	3	63	2,202	110	1.258	3,570	886			32,012			
1997	2	53 63 62	1,851	133	2.404	4,389	749			31,749			
1998	2	62 72	1,757	123 86	2,182 2,005	4.062	666			31,362			
1999	2	72	1,891	86	2,005	3,983	701			32,817			
2000 2001	2	72 84	1,737 1,896	65 101	2,070 2,255	3,872 4,252	754 1,189			33,036 31,608			
2002	3	73	1,896	35	3,078	5,008	1,207			32,066			
2003	3	73 71	1,456	101	1,776	3,332	1.271			31,872			
2004	2	71	1,354	69	1.768	3,191	1,303 R 660			32,455			
2005	_ 0	74	1.250	54	1,958	3,262	R 660			33,212			
2006	R (s)	75	1,229	31	R 1,908	R 3,169	R 601			34,439			
2007	(s)	80	1,102	13	1,840	2,954	663			35,389			
						Tr	rillion Btu						
1960	2.4	8.3	42.5	0.0	1.4	43.9	17.8	0.0	0.0	29.9	102.3	73.9	176.2
1965	1.9	18.7	37.8	0.1	3.6	41.5	12.5	0.0	0.0	29.9 37.6	112.1	89.7	201.9
1970	0.4	33.7	41.0	0.7	4.3 1.5	46.0	9.6	0.0	0.0	52.4	142.0	126.8	268.9
1975	0.1	35.8	28.0	1.1	1.5	30.6	10.3	0.0	0.0	65.5	142.3	157.6	300.0
1980	0.8	31.3	19.9	0.4	2.3	22.6	9.7	0.0	0.0	83.4 95.3	147.8	201.0	348.8 387.2
1985 1990	1.1 0.3	34.3 R 41.6	17.5 15.6	0.5 0.3	2.0 2.4	20.0 18.2	17.0 13.3	0.0 (s)	0.0 0.4	95.3 98.3	167.7 172.0	219.5 227.3	387.2 399.3
1995	0.3	55.0	11.7	0.5 0.5	2. 4 4.5	16.6	17.1	(s)	0.4	102.9	192.2	233.6	425.8
1996	0.1	65.1	12.8	0.5 0.6	4.5 4.5	18.0	17.7	(s)	0.4	109.2	210.5	248.4	458.9
1997	0.1	64.8	10.8	0.8	8.7	20.2	15.0	(s)	0.4	108.3	208.8	245.4	454.3
1998	(s) 0.1	64.8	10.2	0.7	7.9	18.8	13.3	(s)	0.4	107.0	204.4	242.7	447.1
1999		75.6	11.0	0.5	7.3	18.8	14.0	(s)	0.3	112.0	220.7	256.1	476.8
2000	0.1	74.8	10.1	0.4	7.5	18.0	15.1	(s)	0.3	112.7	221.0	256.4	477.3
2001	0.1	87.4	11.0	0.6	8.1	19.8	23.8	(s)	0.3	107.8	239.1	240.3	479.5
2002 2003	0.1 0.1	74.6 72.7	11.0 8.5	0.2 0.6	11.1 6.4	22.4 15.5	24.1 25.4	(s)	0.3 0.2	109.4 108.7	230.9 222.7	243.9 240.0	474.8 462.7
2003	0.1	72.7 72.5	7.9	0.6	6.4	14.7	_ 26.1	(s) (s)	0.2	110.7	224.3	245.0	402.1 469.3
2005	0.0	76.0	7.3	0.3	7.1	14.7	R 13 2	(s)	0.1	113.3	R 217.4	247.9	R 465.2
2006	R (s)	77.9 82.3	7.2 6.4	0.2	7.1 R 6.9	R 14.2	R 12.0	0.1	0.1	117.5	R 221.9	254.1	469.3 R 465.2 R 476.0
2007	(s)	82.3	6.4	0.1	6.6	13.1	13.3	0.1	0.1	120.7	229.6	260.5	490.1

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Washington

Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal Coal						Petro	oleum				Biomass					
Thousand Part Thousand Barrels Million Million		Coal	Natural Gas ^a		Kerosene	LPG ^b			Total ^d	Hydro- electric Power ^{e,f}	Waad					
1985 63	Year	Thousand Short Tons	Billion Cubic Feet			Thousar	nd Barrels			Million Kilowatthours	and	Geothermal ^f		Net Energy ^{f,h}	Energy	Total f,h
1985 63	1960	74	6	2.308	0	61	222	441	3.032	0			3.220			
1975	1965	63	11	2.053	1	158	255	412	2.880	0			4.380			
1980 127 31 1,073 18 1111 478 426 2,105 0 13,445 1990 188 1,454 206 98 357 748 5,562 0 18,665 1990 53 39 1,865 14 116 281 53 2,329 85 21,510 1996 21 48 989 8 222 00 188 1,447 77 25,147 1996 21 48 989 8 222 00 188 1,447 77 25,147 1996 21 48 989 8 222 00 188 1,447 77 25,147 1998 12 46 856 24 386 63 33 1,362 79 25,099 1998 12 46 856 12 386 63 33 1,362 79 25,099 25,099 1998 12 46 856 12 386 83 1,362 79 25,676 25,676 25,099 -										•						
1985 188 35	1975	14		1,519			374	355	2,345	•			10,377			
1990				1,073					2,105							
1995 68	1900	53	30	1 865		116	281		2 329				21 510			
1996 21																
1988 12	1996	21	48	989		222	60	168	1,447	77			25,147			
1999 15 51 950 12 384 321 28 1,666 82 26,695 27,528 2001 20 57 1,204 22 398 146 7 1,776 57 27,528 2002 20 46 1,155 23 543 187 3 1,912 0 0 27,528 2003 23 48 1,067 29 313 83 1 1,493 53 28,039 2004 21 48 746 30 312 85 0 1,173 73 28,203 2005 0 50 1,038 48 345 137 0 1,569 49 28,100 2006 8 (s) 51 1,018 22 8 337 137 1 8,1569 49 28,500 2007 (s) 54 783 10 325 168 (s) 1,287 45 29,599 29,599 2007 (s) 54 134 0,0 0 0.2 1.2 2.8 17.6 0,0 0.3 0,0 11,0 37.3 27.2 64.5 1970 0,3 19.5 13.0 0,1 0.8 1.6 3.0 18.4 0,0 0.2 0,0 14.9 44.6 35.7 80.3 1970 0,3 19.5 13.0 0,1 0.8 1.6 3.0 18.4 0,0 0.2 0,0 14.9 44.6 35.7 80.3 1970 0,3 19.5 13.0 0,1 0.8 1.6 3.0 18.4 0,0 0.2 0,0 22.9 61.4 55.5 116.9 1985 2.9 32.4 6.2 0,1 0.4 2.5 2.7 11.9 0,0 0,2 0,0 47.2 94.7 113.9 208.5 1980 2.9 32.4 6.2 0,1 0.4 2.5 2.7 11.9 0,0 0,2 0,0 47.2 94.7 113.9 208.5 1980 0.1 38.8 10.9 0,1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 12.9 16.9 1985 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 1995 1.5 0.4 4.9 0.6 3.0 11.4 1.5 1.2 0.0 1.8 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 299.6 1995 0.5 50.0 5.8 (s) 0.8 0.3 1.1 80.0 0.8 2.4 0.2 85.8 147.7 195.1 342.9 169.7 290.0 290.0 290.0 290.0 290.0 290.0 290.0	1997	19		1,087		424			1,630				25,209			
2000 18 50 902 12 365 275 17 1580 70 27,526 27,000 20 46 1,155 23 543 187 3 1,912 0 27,526 20,000 20 46 1,155 23 543 187 3 1,912 0 27,528 20,000 20 48 1,165 23 543 187 3 1,912 0 27,528 20,000 20 48 1,165 23 543 187 3 1,912 0 27,528 20,000 20 48 1,165 23 543 187 3 1,912 0 27,528 20,000 20 20 48 1,165 29 313 83 1 1 4,493 53 28,009 20,000 20 20 48 1,067 29 313 83 1 1 4,493 53 28,009 20,000 20 20 55 1,038 48 345 137 0 1,168 94 9 28,100 20,000 20 55 1,038 48 345 137 0 1,168 94 9 28,100 20,000 20 5 1,000 20 20 5 1,000 20 20 20 20 20 20 20 20 20 20 20 20				856		385		33	1,362							
2001 20 57 1,204 22 398 146 7 1,776 57 27,528 2002 20 46 1,155 23 543 187 3 1,912 0 27,528 2003 23 48 1,067 29 313 83 1 14,493 53 28,039 2004 21 48 746 30 312 85 0 1,173 73 28,039 2005 0 50 1,038 48 345 137 0 1,1569 49 28,100 2006 R (s) 51 1,018 22 R 37 137 1 R 1,514 62 29,599 2007 (s) 54 763 10 325 168 (s) 1,287 45 29,599 29,599 2007 (s) 54 783 10 325 168 (s) 1,287 45 29,599 2006 1,4 11.5 12.0 (s) 0.6 1.3 2.6 16.5 0.0 0.2 0.0 14.9 44.6 35.7 80.3 1975 0.3 13.3 8.8 0.1 0.3 2.6 16.5 0.0 0.2 0.0 14.9 44.6 35.7 80.3 1975 0.3 33.3 8.8 0.1 0.3 2.0 22 13.5 0.0 0.2 0.0 22.0 0.0 22.9 61.4 55.5 116.9 1975 0.3 33.3 8.8 0.1 0.3 2.0 2.2 13.5 0.0 0.2 0.0 22.0 0.0 22.9 61.4 55.5 116.9 1980 2.9 32.4 6.2 0.1 0.4 2.5 2.7 11.9 0.0 0.2 0.0 47.2 94.7 11.9 20.5 1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 29.6 1985 1.5 44.4 7.4 0.1 0.8 0.8 0.3 0.7 9.2 0.9 2.3 0.2 85.8 147.7 195.1 342.8 1989 0.3 47.7 5.0 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.9 2.3 0.2 85.8 147.7 195.1 342.8 1989 0.3 47.7 5.0 0.1 1.3 1.4 0.2 8.7 0.3 8.5 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 0.3 47.7 5.0 0.1 1.3 1.4 0.2 8.7 0.8 2.3 0.3 9.9 15.5 0.1 73.4 129.9 169.7 29.6 1990 0.5 52.6 5.3 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.7 2.5 0.3 93.9 168.0 20.3 347.9 5.0 0.1 1.3 1.4 0.2 8.7 0.8 2.3 0.3 91.1 157.1 108.3 325.3 1996 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 4.5 0.5 96.3 158.0 213.1 371.3 20.0 0.5 44.9 0.6 5.5 50.0 5.5 50.0 1.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1.4 0.2 8.7 0.8 2.0 0.5 50.5 50.5 50.1 1.3 1				950		354	321		1,665							
2002 20 46 1,165 23 543 187 3 1,912 0 27,528 2004 21 48 746 30 312 85 0 1,173 73 28,029 2004 21 48 746 30 312 85 0 1,173 73 28,226 2005 0 50 1,038 48 345 137 0 1,569 49 28,266 2006 R (s) 51 1,018 22 R 337 137 1 R 1,514 62 29,599 28,500 2007 (s) 54 783 10 325 168 (s) 1,287 45 29,599 29,599 2007 (s) 54 783 10 325 168 (s) 1,287 45 29,599 29,599 2007 (s) 54 783 10 325 168 (s) 1,287 45 29,599 20,599			50 57			308 309			1,580							
2003 23 48 1,067 29 313 83 1 1,493 53 28,039 2004 21 48 746 30 312 85 0 1,173 73 28,026 2005 0 50 1,038 48 345 137 0 1,554 62 28,580 2006 R(s) 51 1,018 22 R37 137 1 R1,514 62 28,580 29,599 2006 R(s) 54 783 10 325 168 (s) 1,287 45 29,599 29,599 29,599 29,599 29,599 29,599 29,599		20		1,204		543	187		1,770				27,528			
2004 21 48 746 30 312 85 0 1,173 73 28,226 2005	2002	23		1.067	29	313		1	1.493				28.039			
2006 R(s) 51 1,018 22 R337 137 1 R1,514 62 28,580 29,599 20,599 20,599	2004			746		312	85	0	1,173				28,226			
Trillion Btu Tril				1,038		_ 345	137	0	_ 1,569				28,100			
Trillion Btu Tril	2006	^R (s)		1,018		R 337	137	, 1	R 1,514	62			28,580			
1960	2007	(S)	54	783	10	325	168	(S)	1,287	45			29,599			
1965 1.4 11.5 12.0 (s) 0.6 1.3 2.6 16.5 0.0 0.2 0.0 14.9 44.6 35.7 80.3 1970 0.3 19.5 13.0 0.1 0.8 1.6 3.0 18.4 0.0 0.2 0.0 22.9 61.4 55.5 116.9 1980 2.9 32.4 6.2 0.1 0.4 2.5 2.7 11.9 0.0 0.2 0.0 47.2 94.7 113.9 208.5 1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1995 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996									Trillion Btu							
1970 0.3 19.5 13.0 0.1 0.8 1.6 3.0 18.4 0.0 0.2 0.0 22.9 61.4 55.5 116.9 1975 0.3 33.3 8.8 0.1 0.3 2.0 2.2 13.5 0.0 0.2 0.0 35.4 82.7 85.1 16.8 1980 2.9 32.4 6.2 0.1 0.4 2.5 2.7 11.9 0.0 0.2 0.0 37.2 94.7 113.9 208.5 1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0	1960													37.3		
1975 0.3 33.3 8.8 0.1 0.3 2.0 2.2 13.5 0.0 0.2 0.0 35.4 82.7 85.1 167.8 1980 2.9 32.4 6.2 0.1 0.4 2.5 2.7 11.9 0.0 0.2 0.0 47.2 94.7 113.9 208.5 1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8		1.4	11.5	12.0	(s)	0.6	1.3	2.6	16.5		0.2	0.0	14.9		35.7	80.3
1980 2.9 32.4 6.2 0.1 0.4 2.5 2.7 11.9 0.0 0.2 0.0 47.2 94.7 113.9 208.5 1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8 2.4 0.2 85.8 147.7 195.1 342.8 1997 0.4 49.0 6.3 0.1 1.4 0.3 0.2 7.1 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 <td< td=""><td>1970</td><td></td><td>19.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>116.9</td></td<>	1970		19.5													116.9
1985 3.9 36.9 24.2 1.2 0.4 1.9 4.7 32.3 0.0 0.4 0.0 64.7 138.2 149.0 287.3 1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 29.6 1.9 1.5 0.1 73.4 129.9 169.7 29.6 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8 2.4 0.2 85.8 147.7 195.1 342.8 1997 0.4 49.0 6.3 0.1 1.5 0.3 0.3 8.5 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 0.3 47.7 5.0 0.1 1.4 0.3	1975	0.3	33.3	8.8	0.1	0.3	2.0	2.2	13.5		0.2	0.0	35.4		85.1	167.8
1990 1.1 39.8 10.9 0.1 0.4 1.5 0.3 13.2 0.9 1.5 0.1 73.4 129.9 169.7 299.6 1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8 2.4 0.2 85.8 147.7 195.1 342.8 1997 0.4 49.0 6.3 0.1 1.5 0.3 0.3 8.5 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 0.3 47.7 5.0 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.3 88.3 146.6 200.2 346.8 1999 0.4 53.5 5.5 0.1 1.3 1.7 0.2 8.7 0.8 2.3 0.3 91.1 157.1 208.3 365.4 2001 0	1005		32.4 36.0				2.0	2.1 1.7	11.9							200.0 207.2
1995 1.5 44.4 7.4 0.1 0.8 0.3 0.7 9.2 0.9 2.3 0.2 81.6 140.1 185.3 325.3 1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8 2.4 0.2 85.8 147.7 195.1 342.8 1997 0.4 49.0 6.3 0.1 1.5 0.3 0.3 8.5 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 0.3 47.7 5.0 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.3 88.3 146.6 200.2 346.8 1999 0.4 53.5 5.5 0.1 1.3 1.7 0.2 8.7 0.8 2.3 0.3 91.1 157.1 208.3 365.4 2000 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.2 0.7	1990	1.1	39.8	10.9	0.1	0.4	1.5	0.3	13.2	0.0	1.5	0.0	73.4	129.2	169.7	299.6
1996 0.5 50.0 5.8 (s) 0.8 0.3 1.1 8.0 0.8 2.4 0.2 85.8 147.7 195.1 342.8 1997 0.4 49.0 6.3 0.1 1.5 0.3 0.3 8.5 0.8 2.5 0.2 86.0 147.5 194.9 342.4 1998 0.3 47.7 5.0 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.3 88.3 146.6 200.2 346.8 1999 0.4 53.5 5.5 0.1 1.3 1.7 0.2 8.7 0.8 2.3 0.3 91.1 157.1 208.3 365.4 2000 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.2 0.7 2.5 0.3 95.7 160.5 217.7 378.2 2001 0.5 59.1 7.0 0.1 1.4 0.8 (s) 9.4 0.6				7.4												
1998 0.3 47.7 5.0 0.1 1.4 0.3 0.2 7.1 0.8 2.2 0.3 88.3 146.6 200.2 346.8 1999 0.4 53.5 5.5 0.1 1.3 1.7 0.2 8.7 0.8 2.3 0.3 91.1 157.1 208.3 365.4 2000 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.2 0.7 2.5 0.3 95.7 160.5 217.7 378.2 2001 0.5 59.1 7.0 0.1 1.4 0.8 (s) 9.4 0.6 4.2 0.3 93.9 168.0 209.3 377.3 2002 0.5 47.3 6.7 0.1 2.0 1.0 (s) 9.8 0.0 4.3 0.3 93.9 156.1 209.4 365.5 2003 0.5 48.9 6.2 0.2 1.1 0.4 (s) 8.0 0.5 4.5 0.5 95.7 158.5 211.1 369.6 2004 0.5	1996	0.5	50.0	5.8	(s)	0.8	0.3	1.1	8.0	8.0	2.4	0.2	85.8	147.7	195.1	342.8
2000 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.2 0.7 2.5 0.3 95.7 160.5 217.7 378.2 2001 0.5 59.1 7.0 0.1 1.4 0.8 (s) 9.4 0.6 4.2 0.3 93.9 168.0 209.3 377.3 2002 0.5 47.3 6.7 0.1 2.0 1.0 (s) 9.8 0.0 4.3 0.3 93.9 156.1 209.4 365.5 2003 0.5 48.9 6.2 0.2 1.1 0.4 (s) 8.0 0.5 4.5 0.5 95.7 158.5 211.1 369.6 2004 0.5 84.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 13 0.7 0.0 83 0.5 82.1 0.6 95.9 158.7 2007 838.4											2.5	0.2				342.4
2000 0.5 52.6 5.3 0.1 1.3 1.4 0.2 8.2 0.7 2.5 0.3 95.7 160.5 217.7 378.2 2001 0.5 59.1 7.0 0.1 1.4 0.8 (s) 9.4 0.6 4.2 0.3 93.9 168.0 209.3 377.3 2002 0.5 47.3 6.7 0.1 2.0 1.0 (s) 9.8 0.0 4.3 0.3 93.9 156.1 209.4 365.5 2003 0.5 48.9 6.2 0.2 1.1 0.4 (s) 8.0 0.5 4.5 0.5 95.7 158.5 211.1 369.6 2004 0.5 84.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 13 0.7 0.0 83 0.5 82.1 0.6 95.9 158.7 2007 838.4	1998		47.7	5.0		1.4	0.3	0.2	7.1		2.2	0.3	88.3		200.2	346.8
2002 0.5 47.3 6.7 0.1 2.0 1.0 (s) 9.8 0.0 4.3 0.3 93.9 156.1 209.4 365.5 2003 0.5 48.9 6.2 0.2 1.1 0.4 (s) 8.0 0.5 4.5 0.5 95.7 158.5 211.1 369.6 2004 0.5 R49.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 1.3 0.7 0.0 8.3 0.5 R2.1 0.6 95.9 158.7 209.7 R368.4				5.5		1.3			8.7		2.3	0.3				365.4
2002 0.5 47.3 6.7 0.1 2.0 1.0 (s) 9.8 0.0 4.3 0.3 93.9 156.1 209.4 365.5 2003 0.5 48.9 6.2 0.2 1.1 0.4 (s) 8.0 0.5 4.5 0.5 95.7 158.5 211.1 369.6 2004 0.5 R49.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 1.3 0.7 0.0 8.3 0.5 R2.1 0.6 95.9 158.7 209.7 R368.4	2000		52.6 50.1	5.3		1.3	1.4		8.2		2.5	0.3			217.7	3/8.2
2004 0.5 R49.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 1.3 0.7 0.0 83 0.5 R2.1 0.6 95.9 158.7 209.7 R368.4						1. 4 2.0		(5)	9.4 0.8		4.Z 4.3	0.3 0.3				
2004 0.5 R49.5 4.3 0.2 1.1 0.4 0.0 6.1 0.7 4.4 0.5 96.3 158.0 213.1 371.1 2005 0.0 513 6.0 0.3 1.3 0.7 0.0 83 0.5 R2.1 0.6 95.9 158.7 209.7 R368.4	2002						0.4	(s)			4.5	0.5	95.7	158.5		369.6
2005 00 513 60 03 13 07 00 83 05 R21 06 959 1587 2097 R3684	2004		R 49.5	4.3	0.2			0.0			4.4	0.5			213.1	371.1
2006 K(s) 53.0 5.9 0.1 K1.2 0.7 (s) K8.0 0.6 K2.0 0.6 97.5 161.7 210.9 K372.5 2007 (s) 55.1 4.6 0.1 1.2 0.9 (s) 6.7 0.4 2.1 0.7 101.0 166.0 217.9 383.9	2005	0.0	51.3	6.0	0.3	1.3	0.7	0.0	8.3	0.5	R 2.1	0.6	95.9	158.7	209.7	R 368.4
2007 (s) 55.1 4.6 0.1 1.2 0.9 (s) 6.7 0.4 2.1 0.7 101.0 166.0 217.9 383.9		R (s)		5.9		R 1.2		(s)	R 8.0		R 2.0				210.9	R 372.5
	2007	(s)	55.1	4.6	0.1	1.2	0.9	(s)	6.7	0.4	2.1	0.7	101.0	166.0	217.9	383.9

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Washington

Th	Coal Thousand thort Tons 420 341 210 463 332 208 229 223 152 156 117 95 126 128	Natural Gas a Billion Cubic Feet 50 79 93 92 64 63 78 110 114 111 133 124	5,937 5,546 4,986 4,025 4,350 2,689 3,976 3,724 3,700 3,449 4,299	134 155 274 250 658 1,487 1,228 1,278 1,568 2,190	Motor Gasoline c Thousand 802 765 551 438 278 692 658 555 565	7,137 7,281 7,874 5,924 6,538 5,167 1,989	5,134 9,804 12,331 15,456 12,506	19,144 23,551 26,015 26,094 24,331	Hydro-electric Power e,f Million kWh 195 190 135 181	Wood and Waste f.9	Geo- thermal ^f	Retail Electricity Sales Million kWh 13,975 18,703 25,530 27,416	Net Energy ^{f,h}	Electrical System Energy Losses	Total ^{f,h}
Year Sh 1960 1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999	420 341 210 463 332 208 229 223 152 156 117 95 126	50 79 93 92 64 63 78 110 114 111 133	5,546 4,986 4,025 4,350 2,689 3,976 3,724 3,700 3,449	155 274 250 658 1,487 1,228 1,278	802 765 551 438 278 692 658 555	7,137 7,281 7,874 5,924 6,538 5,167	9,804 12,331 15,456 12,506	26,015 26,094	195 190 135	Waste f,g	thermal f	13,975 18,703 25,530	Energy f,h	Energy Losses i	
1965 1975 1980 1985 1980 1995 1996 1997 1998 1999	341 210 463 332 208 229 223 152 156 117 95	79 93 92 64 63 78 110 114 111 133	5,546 4,986 4,025 4,350 2,689 3,976 3,724 3,700 3,449	155 274 250 658 1,487 1,228 1,278	765 551 438 278 692 658 555	7,281 7,874 5,924 6,538 5,167	9,804 12,331 15,456 12,506	26,015 26,094	190 135		==	18,703 25,530			
1970 1975 1980 1985 1990 1995 1996 1997 1998 1999	210 463 332 208 229 223 152 156 117 95	93 92 64 63 78 110 114 111 133 124	4,986 4,025 4,350 2,689 3,976 3,724 3,700 3,449	274 250 658 1,487 1,228 1,278 1,568	551 438 278 692 658 555	7,874 5,924 6,538 5,167	12,331 15,456 12,506	26,015 26,094	135			25,530			
1975 1980 1985 1990 1995 1996 1997 1998 1999	463 332 208 229 223 152 156 117 95	92 64 63 78 110 114 111 133	4,025 4,350 2,689 3,976 3,724 3,700 3,449	250 658 1,487 1,228 1,278 1,568	438 278 692 658 555	5,924 6,538 5,167	15,456 12,506	26,094				25,530			
1980 1985 1990 1995 1996 1997 1998 1999	332 208 229 223 152 156 117 95 126	64 63 78 110 114 111 133 124	4,350 2,689 3,976 3,724 3,700 3,449	658 1,487 1,228 1,278 1,568	278 692 658 555	6,538 5,167	12,506	20,094	101						
1985 1990 1995 1996 1997 1998 1999	208 229 223 152 156 117 95 126	63 78 110 114 111 133 124	2,689 3,976 3,724 3,700 3,449	1,487 1,228 1,278 1,568	692 658 555	5,167	14,500		129			31,366			
1990 1995 1996 1997 1998 1999	229 223 152 156 117 95 126	78 110 114 111 133 124	3,976 3,724 3,700 3,449	1,228 1,278 1,568	658 555			24,331	129			29,431			
1995 1996 1997 1998 1999	223 152 156 117 95 126	110 114 111 133 124	3,724 3,700 3,449	1,278 1,568	555		20,233	28,084	189			40,712			
1996 1997 1998 1999	156 117 95 126	114 111 133 124	3,700 3,449	1,568		644	23,090	29,291	197			34,276			
1997 1998 1999	156 117 95 126	111 133 124	3,449	2 190	202	323	24,190	30.345	178			31,247			
1999	117 95 126	124	4.299	2,130	593	303	21.860	28,395	217			33,956			
	126	124		2,049	491	255	28,178	35,272	163			37,616			
2000	126 128		3,608	2,085	506	351	30,810	37.361	216			39,499			
2000	128	84	2,953	4,003	533	888	24,758	33,135	32			35,410			
2001	120	75	3,586	4,405	1,040	138	18,878	28,046	3			19,339			
2002	103	68	3,193	1,182	1,103	156	17,692	23,326	178			15,792			
2003	90	66	2,886	545	1,115	83	18,642	23,270 23,593	2			18,180			
2004 2005	84	68	2,434 2,900	569	1,272	19	19,298 21,262	23,593	2			19,259			
2005	71 94	67 71	2,900 3,707	237 R 284	1,261 1,311	12 7	22,027	25,672 R 27,336	2 2			22,112 22,013			
2007	136	74	3,970	336	969	3	22,027	27,330	3			20,753			
			-,-				,	Ilion Btu				-,			
1960	10.9	51.8	34.6	0.5	4.2	44.9	31.6	115.8	2.1	40.4	0.0	47.7	268.7	117.9	386.7
1965	8.8	85.3	32.3	0.5		45.8	59.9	142.6	2.0	53.5	0.0	63.8	356.0	152.4	508.4
1970	5.1	85.3 98.3	29.0	1.0	2.9	49.5	75.4	157.8	1.4	56.8	0.0	87.1	406.5	210.8	617.3
1975	10.9	96.0	23.4	0.9	2.3	37.2	94.6	158.5	1.9	53.9	0.0	93.5	414.7	225.0	639.6
1980	7.1	67.0	25.3	2.4	1.5	41.1	76.2	146.5	1.3	78.3	0.0	107.0	407.2	258.0	639.6 665.2
1985	4.5	65.7	15.7	5.4	3.6	32.5	87.0	144.2	1.4	91.7	0.0	100.4	407.9	231.3	639.1
1990	4.5 5.2	R 80.8	23.2	4.5	3.5	12.5	123.2	166.8	2.0	75.0	0.0	138.9	468.5	321.2	789.8
1995	4.2	114.6	21.7	4.6	2.9	4.1	140.3	173.6	2.0	64.7	0.0	117.0	476.2	265.6	741.8
1996	3.0	118.6	21.6	5.7	2.9	2.0	147.4	179.6	1.8	62.9	0.0	106.6	472.6	242.4	715.1
1997	3.2 2.7	116.6	20.1	7.9		1.9	133.6	166.6	2.2 1.7	70.1	0.0	115.9	474.5	262.5	737.0
1998	2.7	139.3	25.0	7.4	2.6	1.6	171.9	208.5	1.7	64.9	0.0	128.3	545.4	291.1	836.5
1999	2.2	131.0	21.0	7.5	2.6	2.2	187.7	221.1	2.2	65.6	0.0	134.8	556.9	308.3	865.2
2000	2.8	87.3	17.2	14.4	2.8	5.6	151.9	191.9	0.3	62.2	0.0	120.8	465.4	274.8	740.2
2001 2002	2.9 2.3	77.6 68.9	20.9 18.6	15.9 4.3	5.4 5.7	0.9 1.0	114.7 107.8	157.8 137.4	(s) 1.8	57.3 50.1	0.0 0.0	66.0 53.9	361.6 314.4	147.0 120.1	508.7 434.5
2002	2.3 2.1	67.4	16.8	2.0	5.7	0.5	112.9	137.4	(s)	53.0	0.0	62.0	314.4	136.9	434.5 459.4
2003	1.8	69.3	14.2	2.0	6.6	0.5	117.1	140.1	(s)	51.1	0.0	65.7	328.1	145.4	473.5
2005	1.5	69.0	16.9	0.0	6.6	0.1	128.9	153 /	(s)	56.9	0.0	75.4	356 3	165.0	_ 521.3
2006	2.0	73.1	21.6	R 1.0	6.8		133.6	153.4 R 163.1	(s)	R 82.2	0.0	75.1	R 395.5	162.4	R 557.9
2007	2.0 3.2	75.5	23.1	1.2	5.1	(s) (s)	133.4	162.8	(s)	55.9	0.0	70.8	368.3	152.8	521.0

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

c Beginning in 1993, includes fuel ethanol blended into motor gasoline.
d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."
e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Washington

						Pe	troleum					D 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	Energy Losses 9	Total e,f
1960	7 1	(s)	2,161	2,574	4,502	6	413	22,052	1,707	33,415	0	1			
1965 1970	(s)	6	434 351	3,022 3,956	6,919 10,637	21	381 400	25,886 35,213	1,443 2,025	38,104 52,620	0	2 2			
1975	(s)	6	274	6,616	14,036	38 37	428	40.196	2,023	63,696	0	2			
1980	0	4	356	9.595	12,036	92	501	41,897	10,112	74,589	Ő	2			
1985	0	3	202	10,139	15,417	329	456	42,971	5,492	75,005	14	14			
1990	0	5	313	11,609	22,343	291	513	52,525	14,229	101,823	201	16			
1995	0	9	229	14,082	23,039	179	490	58,222	16,551	112,793	731	18			
1996 1997	0	7 9	292 202	15,233 17,668	22,323 R 22,464	148 97	475 502	60,986 60,559	12,277 12,576	111,734 R 114,068	324 615	17 18			
1998	0	9	356	14,863	R 21,879	100	525	61,279	9,345	R 108,347	827	18			
1999	Ö	8	283	17,767	22,155	13	531	62,412	7,610	110,771	700	20			
2000	0	6	332	18,748	24,726	18	523	62,246	6,635	113,227	790 570	18			
2001	0	9	148	16,924	21,815	25	479	62,306	6,271	107,968	570	19			
2002	0	7	258	18,541	18,076	27	473	63,254	5,288	105,918	1,653 1,592	19			
2003 2004	0	9	225 202	18,113 19,415	17,493 19,219	101 104	438 443	63,119 62.945	5,987 6,515	105,475 108,844	1,592	42 42			
2004	0	9	262	19,543	18,480	239	441	63,818	7,773	110,556	R 2 068	2			
2006	ő	7	184	23,925	18,588	244	430	64,264	6,199	113,833	533 R 2,068 R 2,267	1			
2007	0	8	176	24,589	20,451	167	444	64,756	9,979	120,562	2,868	2			
								Trillion Btu							
1960	0.2	0.4	10.9	15.0	24.4	(s) 0.1	2.5	115.8	10.7	179.4	0.0	(s)	180.0	(s)	180.0
1965	(s)	0.7	2.2	17.6	38.2		2.3	136.0	9.1	205.4	0.0	(s)	206.2	(s)	206.2
1970	(s)	6.8	1.8	23.0	59.3	0.1	2.4	185.0	12.7	284.4	0.0	(s)	291.2	(s)	291.2
1975 1980	(s) 0.0	6.1 3.9	1.4 1.8	38.5 55.9	78.7 67.5	0.1 0.3	2.6 3.0	211.1 220.1	13.3 63.6	345.8 412.2	0.0 0.0	(s)	351.9 416.1	(s) (s)	351.9 416.1
1985	0.0	3.9	1.0	59.1	86.6	1.2	2.8	225.7	34.5	410.9	0.0 (s)	(s) (s)	414.0	0.1	414.1
1990	0.0	5.3	1.6	67.6	126.0	1.1	3.1	275.9	89.5	564.8	(s) 0.7	0.1	570.8	0.1	570.9
1995	0.0	9.1	1.2	82.0	130.4	0.6	3.0	303.6	104.1	624.9	2.6	0.1	634.0	0.1	634.2
1996	0.0	7.3	1.5	88.7	126.5	0.5	2.9	318.1	77.2	615.4	1.1	0.1	622.8	0.1	622.9
1997	0.0	9.4	1.0	102.9	R 127.4	0.4	3.0	315.7	79.1	R 629.5	2.2	0.1	638.9	0.1	R 639.1
1998 1999	0.0 0.0	9.7 8.3	1.8	86.6 103.5	R 124.1 125.6	0.4	3.2 3.2	319.4 325.2	58.8 47.8	R 594.1 606.9	2.9 2.5	0.1 0.1	R 603.9 615.2	0.1 0.2	R 604.0 615.4
2000	0.0	8.3 6.6	1.4 1.7	103.5	125.6 140.2	(s) 0.1	3.2	325.2 324.3	47.8 41.7	620.3	2.5	0.1	626.9	0.2	627.1
2000	0.0	9.7	0.7	98.6	123.7	0.1	3.2 2.9	324.3 324.6	39.4	590.1	2.0	0.1	599.8	0.1	599.9
2002	0.0	6.8	1.3	108.0	102.5	0.1	2.9	329.4	33.2	577.4	5.9	0.1	584.3	0.1	584.4
2003	0.0	7.0	1.1	105.5	99.2	0.4	2.7	328.7	37.6	575.1	5.6	0.1	582.3	0.3	582.6
2004	0.0	9.4	1.0	113.1	109.0	0.4	2.7	328.3	41.0	595.4	1.9	0.1	604.9	0.3	605.3
2005	0.0	9.0	1.3	113.8	104.8	0.9	2.7	333.0	48.9	605.4	R 7.3	(s)	614.3	(s)	614.4
2006 2007	0.0 0.0	R 7.3 8.1	0.9 0.9	139.4 143.2	105.4 116.0	0.9 0.6	2.6 2.7	335.3 338.0	39.0 62.7	623.5 664.1	R 8.0 10.2	(s) (s)	630.8 672.2	(s) (s)	630.8 672.2
2001	0.0	0.1	0.0	170.2	110.0	0.0	۷.1	330.0	02.1	007.1	10.2	(3)	012.2	(3)	012.2

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Washington

				Petro	oleum				Biomass					
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kile	owatthours		Total ^{f,i}
960 965 970 975 980	0	0	14	2	0	16	0	34,154		0	0	0	-50	
965	0	0	3	(s) (s)	0	3	0	49,105 69,391		0	0	0	-481 617	
970	0 4,009	0	71	(S)	0	4 75	2,614 3,308	69,391		0	0	0	1,730	
975	4,950	1	201	31	0	232	2,041	83,527 82,982		0	0	0	859	
985	5 192	(s)	0	17	0	17	8,038	76 923		0	0	0	904	
985 990	5,192 4,852	(s)	ĭ	30	Ŏ	31	5,742	76,923 87,193		ŏ	ő	ŏ	243	
995 996 997	3.857	(s) 40 42 28	0	234	Ō	234	6,942	82,220 98,262		Ö	Ö	0	-765	
996	5,507	42	0	234 364 488	0	364 488	5,588	98,262		0	0	0	4,606	
997	4,771	28	0	488	0	488	6,244	103,875		0	0	0	3,632	
998 999	6,111	40 33 74	0	83 21	0	83	6,916	79,577 96,691		0	0	0	2,467	
999	5,727	33	0	21	,0	21	6,086	96,691		0	0	0	1,808	
000	6,355 6,001	/4	0	782	(s)	783	8,605 8,250	80,161		0	0	0	-1,133	
001	6,001	86 40	0	519 39	0	519 39	8,250 9,048	54,674 77,989		0	0	0 417	-5,057 -1,187	
102	7,311	40 58	0	39	0	30	7,615	71,909		0	0	604	-1,167	
003 004	6,879	66	0	54	0	54	8,982	71,702		0	0	737	-4,848	
005	6,996	66	Ŏ	21	Ŏ	21	8,242	71,702 71,501 72,023		Ŏ	Ŏ	498	-3,005	
006	4,125	66 59 57	Ō	21 39 27	0	39	9,328	81,944 78,781		0	0	1,038 2,438	-8,657	
005 006 007	5,681	57	0	27	0	27	8,109	78,781		0	0	2,438	-3,259	
							Trillion E	Btu						
960 965 970 975 980 985 990	0.0	0.0	0.1	(s)	0.0	0.1	0.0	367.5	(s) 0.0	0.0	0.0	0.0	-0.2	367.4
300 070	0.0 0.0	0.0	(S)	(s)	0.0 0.0	(s)	0.0 28.7	513.3	0.0	0.0 0.0	0.0 0.0	0.0 0.0	-1.6 2.1	511.7 759.0
770 275	64.9	0.0 0.0	(s) (s) 0.4	(s) (s)	0.0	(s) 0.5	36.4	728.2 869.2	(s) 0.0	0.0	0.0	0.0	Z. I 5. 0	759.0
973 180	80.2	1.0	1.3	0.2	0.0	1.4	22.3	862.0	0.0	0.0	0.0	0.0	2.9	976. 969.
85	84.1	0.1	0.0	0.1	0.0	0.1	85.4	803.6	0.0 2.9 3.7	0.0	0.0	0.0	5.9 2.9 3.1	979.
990	78.9	0.2	(s)	0.2	0.0	0.2	60.8	907.0	3.7	0.0	0.0	0.0	0.8	1.051
995	63.8 87.4	41.4	0.0	1.4	0.0	1.4	72.9	847.9	6.0	0.0	0.0	0.0	-2 6	1,030.
195 196 197	87.4	42.9	0.0	2.1	0.0	2.1	58.7	1,016.0	6.6 6.6	0.0	0.0	0.0	15.7	1,030. 1,229. 1,253.
997	76.7	28.4	0.0	2.8	0.0	2.8	65.5	1,060.9	6.6	0.0	0.0	0.0	12.4	1,253.
998 999	100.4 94.3	41.8	0.0	0.5 0.1	0.0	0.5 0.1	72.6	811.4	6.8	0.0	0.0	0.0	8.4 6.2	1.041
199	94.3	33.9	0.0	0.1	0.0	0.1	63.6	988.8	7.5	0.0	0.0	0.0	6.2	1,194.
)00)01	102.9 96.0	76.3 88.6	0.0 0.0	4.6	(s) 0.0	4.6 3.0	89.7 86.2	817.7 564.9	9.8 7.4	0.0 0.0	0.0 0.0	0.0 0.0	-3.9 -17.3	1,097.
002	98.0	40.6	0.0	4.6 3.0 0.2	0.0	0.2	94.5	793.4	7.4 9.1	0.0	0.0	4.2	-17.3 -4.1	829. 1,035.
003	115.5	59.1	0.0	0.2	0.0	0.2	79.4	734.3	12.8	0.0	0.0	6.2	-6.7	1,033.
003	110.2	67.7	0.0	0.3	0.0	0.3	93.7	716.6	11.0	0.0	0.0	7.4	-16.5	1,000. 990.
005	110.8	67.3	0.0	0.1	0.0	0.1	86.0	720.2	11.2	0.0	0.0	5.0	-10.3	990.
005	67.1	60.3 58.6	0.0	0.2	0.0 0.0	0.2	97.3	812.8	10.9 11.2	0.0	0.0	10.3	-29.5	1,029.4 1,039.3
007	92.5	58.6	0.0	0.2	0.0	0.2	85.0	778.7	11.2	0.0	0.0	24.1	-11.1	1,039.3

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, West Virginia

						Petroleum				Martan	II. I.	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Millio	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965	14,058 19,049	150 164	2,473 2,837	169 130	558 961	11,609 12,762	1,481 2,153	6,574 13,871	22,864 32,714	0	938 828					
1970	25,376	181	3,917	290	1,230	15,831	2,065	16,469	39,801	0	996					
1975 1980	34,469 34,939	158 143	5,922 10,541	249 357	1,498 3,435	19,314 19,390	2,504 1,463	18,556 22,344	48,043 57,530	0	1,063 1,114					
1985	34,999	117	10,414	235	1,157	18,513	970	15,651	46,939	0	1,058					
1990	34,896 35,381	120 149	10,597 11,287	273 174	1,612	19,643	1,268	20,782	54,174 49,736	0	1,295 1,193					
1995 1996	35,381	149	9,197	174	1,944 2,199	20,891 18,899	197 352	15,243 5,089	49,736 35,906	0	1,193					
1997	38,098	160	10,526	172	2,874	19,752	231	5,081	38,636	Õ	1,139					
1998 1999	39,877 40,351	143 140	12,378 11,854	175 184	2,157 1.076	19,724 19,491	72 93	6,261 6,126	40,767 38,823	0	1,086 930					
2000	39,892	148	12,539	189	1,076	19,491	293	5,332	39,354	0	1,151					
2001	35,622	141	12,554	191	1,386	19,717	228	14,250	48,326	Ö	952					
2002	40,779	146 127	15,060	249	992 1,192	19,288	113 50	14,544	50,245 47,680	0	1,066					
2003 2004	40,223 38,747	127	12,346 13,761	262 252	1,192	19,592 20,341	344	14,238 16,662	47,680 52,998	0	1,356 1,318					
2005	40,306	117	14,406	238	1,048	20,203	440	15,599	51,935	0	1,448					
2006 2007	40,087 40,700	113 114	14,953 14,744	231 236	1,491 1,176	20,326 20,217	336 999	15,688 15,002	53,025 52,374	0	1,572 1,254					
	10,700				1,110	20,211			02,011		1,201					
								Trillion Btu								
1960 1965	354.4 477.4	155.6 176.1	14.4 16.5	0.9	2.2	61.0	9.3	39.0	126.8	0.0	10.1	13.4	0.0 0.0	-42.2 -57.0	0.0	618.1
1905	612.4	186.5	22.8	0.7 1.6	3.9 4.6	67.0 83.2	13.5 13.0	79.3 92.5	181.0 217.7	0.0 0.0	8.7 10.4	11.9 10.7	0.0	-178.7	0.0	798.0 859.1
1975	817.4	164.3	34.5	1.4	5.6	101.5	15.7	105.3	264.0	0.0	11.1	11.7	0.0	-412.0	0.0	856.5
1980 1985	857.8 871.7	147.6 125.0	61.4 60.7	2.0 1.3	12.6 4.2	101.9 97.2	9.2 6.1	124.4 86.5	311.5 256.0	0.0 0.0	11.6 11.1	11.9 14.0	0.0 0.0	-457.7 -549.9	0.0	882.6 727.9
1905	873.5	129.0	61.7	1.5	5.8	103.2	8.0	115.2	295.5	0.0	13.5	5.0	(s)	-549.9 -492.7	0.0	823.8
1995	871.3	157.8	65.7	1.0	7.0	108.9	1.2	84.4	268.4	0.0	12.3	7.1	(s)	-491.7	0.0	825.2
1996 1997	913.6 937.7	164.3 170.3	53.6	1.0	7.9 10.4	98.6 103.0	2.2	30.1 30.1	193.3 207.2	0.0 0.0	14.7 11.6	7.3 5.9	(s)	-545.1 -585.6	0.0	748.1 747.2
1997	937.7	151.9	61.3 72.1	1.0 1.0	7.8	102.8	1.5 0.5	37.3	207.2 221.4	0.0	11.0	5.9 5.1	(s) (s)	-505.6 -591.6	0.0 0.0	747.2 776.3
1999	993.0	147.7	69.0	1.0	3.9	101.6	0.6	36.1	212.2	0.0	9.5	5.3	0.1	-609.4	0.0	758.5
2000 2001	977.8	157.9 150.5	73.0	1.1	5.7	101.2 102.7	1.8	31.4 80.4	214.2 263.8	0.0 0.0	11.7	5.7	(s)	-592.2 -495.3	0.0	775.3 800.3
2001	866.6 993.5	150.5	73.1 87.7	1.1 1.4	5.0 3.6	102.7	1.4 0.7	80.4 82.5	263.8 276.4	0.0	9.8 10.8	4.8 4.2	(s) 0.1	-495.3 -612.9	0.0	800.3 819.6
2003	978.4	133.2	71.9	1.5	4.3	102.0	0.3	80.2	260.2	0.0	13.9	4.3	1.8	-609.4	0.0	782.4
2004	937.1	143.4 125.2	80.2	1.4	5.9	106.1	2.2	94.0	289.7 285.3	0.0	13.2	4.4 R 4.8	1.7	-559.9	0.0	R 829.6 R 806.1
2005 2006	959.7 958.9	125.2 128.0	83.9 87.1	1.4 1.3	3.8 5.4	105.4 106.1	2.8 2.1	88.1 89.6	285.3 291.6	0.0 0.0	14.5 15.6	R 4.6	1.6 1.8	-585.0 -571.0	0.0	R 829.5
2007	983.0	122.6	85.9	1.3	4.2	105.5	6.3	85.5	288.7	0.0	12.4	5.0	1.7	-563.0	0.0	850.5

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, West Virginia

				Petro	leum		Biomass			-			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	l Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	144	50	204	148	226	578	416			1,714			
1965	138	50	304	184	280	768	320			2,365			
1970	107	58	250	267	266	783	287			3,459			
1975 1980	71	51	581	172	331 395 225	1,084	298			4,979			
1980	33	48	1,169	408	395	1,973	375			6,606			
1985	18	37	516 682	390 210	416	1,131	446 162			6,712			
1005	36 8	33 25	496	210	416	1,308 1,199	102			7,578 9,166			
1985 1990 1995 1996	13	33 35 37	599	287 377	479	1,199	232 241			9,277			
1990	13 12	36	603	300	677	1,680	175			9,027			
1997 1998	18	30	547	399 473	512	1,532	156			9,053			
1999	20	31	481	551	712	1.744	164			9.452			
1999 2000	24	31 32 32 31 32 30	524	551 340	751	1,616	176			9,738			
2001	5	32	520	354	988	1.862	114			9,828			
2002	4	31	504	262	630	1,396	115			10.444			
2003	6	32	472	219 255	786	1,477	121			10,473 10,756			
2004	6	30	430	255	1,149	1,833	_ 124			10,756			
2005 2006	6	30	382	250	677	1,308 R 1,465	124 R 145 R 132			11,384			
2006	2	26	380	188	R 897	^K 1,465	K 132			11,014			
2007	6	27	330	123	768	1,221	146			11,749			
						Т	rillion Btu						
1960 1965 1970 1975	3.6 3.4 2.6	51.4 53.2	1.2 1.8	0.8 1.0	0.9	2.9 3.9	8.3 6.4	0.0	0.0 0.0	5.8	72.1	14.5	86.6 94.3 112.3 124.3
1965	3.4	53.2	1.8	1.0	1.1	3.9	6.4	0.0	0.0	8.1	75.0	19.3	94.3
1970	2.6	59.7	1.5	1.5	1.0	4.0	5.7	0.0	0.0	11.8	83.8	28.6	112.3
1975	1.7	53.2	3.4	1.0	1.2	5.6	6.0	0.0	0.0	17.0	83.5	40.9	124.3
1980 1985	0.8 0.4	49.8 39.2	6.8 3.0	2.3 2.2	1.5 0.8	10.6 6.0	7.5 8.9 3.2 4.6	0.0 0.0	0.0 0.0	22.5 22.9	91.2 77.5	54.3	145.6 130.3
1985	0.4	39.2	3.0	2.2	0.8	6.0	8.9	0.0	0.0	22.9	77.5	52.7	130.3
1990	0.9	34.9	4.0	1.2	1.5	6.7	3.2	0.0	(s)	25.9	71.6	59.8	131.4
1990 1995 1996 1997	0.2 0.3 0.3	37.5	2.9 3.5 3.5	1.6	1.5	6.0	4.6	0.0	(s) (s)	31.3	79.7 83.9	71.0	131.4 150.8 155.9 151.1
1990	0.3	39.7 38.4	3.5	2.1 2.3	1.7 2.4	7.4 8.2	4.8 3.5	0.0 0.0	(S)	31.7 30.8	81.3	72.0 69.8	155.9
1008	0.3 0.5	31.5	ა.ე ვე	∠.3 2.7	1.8	0.Z 7.7	ა.ე ვ 1	0.0	(8)	ას.გ ვი ი	73.8	70.0	101.1
1998 1999	0.5 0.5	33.1	3.2 2.8	2.7 3.1	2.6	7.7 8.5	3.1 3.3	(s)	(s) (s)	30.9 32.3	73.6 77.7	73.8	143.8 151.5
2000	0.6	33.8	3.1	1.9	2.7	7.7	3.5	(3)	(s)	33.2	78.9	75.6	154.4
2000	0.0	34.1	3.1	2.0	3.6	8.6	2.3	(5)	(s)	33.5	78.7	74.7	153.4
2002	0.1	31.0	3.0 2.9	1.5	2.3	6.7	2.3	(s)	(s)	33.2 33.5 35.6	75.8	79.4	154.4 153.4 155.2 157.8
2003	0.1	33.8	2.7	1.2	29	6.8	2.4	(s)	(s)	35.7	79.0	78.9	157.8
2003 2004	0.1	35.6	2.5	1.4	4.2	8.1	2.5	(s)	(s)	36.7	83.1	81.2	164.3
2005	0.2	31.9	2.2	1.4	2.4	6.1	2.5 R 2.9 R 2.6	(s)	(s)	38.8	R 79.9	85.0	R 164.9
2005 2006	R 0.1	29.6	2.2 1.9	1.1	4.2 2.4 R 3.2	R 6.5	R 2.6	(s)	(s) 0.1 0.1	37.6	83.1 R 79.9 R 76.5	81.3	164.3 R 164.9 R 157.7
2007	0.1	28.5	1.9	0.7	2.8	5.4	2.9	(s)	0.1	40.1	77.1	86.5	163.6

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, West Virginia

					Petro	oleum			Unidad	Biomass		D-4-11			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}	Wasal		Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	d Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	100	15	75	8	40	65 66	8	195	0			1,134			
1965	104	15	111	9	49	66	12	248	0			1,620			
1970	84	22	92	14	47	56	9	218 349	0			2,238			
1975 1980	167 123	25 22	213 262	9 37	58 70	59 110	9 5	349 484	0			2,858 3,658			
1985	63	17	674	129	40	307	5	1,154	0			4.462			
1990	143	21	526	46	73	330	65	1,041	Ŏ			5,085			
1995	57	26	357	37	73 85	20	0	487	0			5,944			
1996	96	28	264	37	85	20	0	404	0			6,030			
1997 1998	93 144	26 25	316 370	51 57	120 90	19 19	0 0	506 537	0			6,040 6,297			
1999	148	27	318	64	126	19	0	527	0			6.565			
2000	193	26	360	73	133	19	ŏ	585	ŏ			6.872			
2001	43	28	406	63	174	20	0	663	0			6,863			
2002	30	25 27	325	64 92	111	20	0	521	0			7,117			
2003	37	27	226		139	20	0	476	0			7,136			
2004 2005	50 74	25 25	235 230	81 63	203 119	28 28	0	547 441	0			7,217 7,452			
2006	R 22	23	164	41	R 158	29	0	R 393	0			7,432			
2007	54	23	162	25	135	30	Ö	352	Ő			7,769			
								Trillion Btu							
1960	2.5	16.0	0.4	(s) 0.1	0.2	0.3	(s) 0.1	1.0	0.0	0.2	0.0	3.9	23.6	9.6	33.2
1965	2.6	15.6	0.6	0.1	0.2	0.3	0.1	1.3	0.0	0.1	0.0	5.5	25.1	13.2	38.3
1970	2.0	22.3	0.5	0.1	0.2	0.3	0.1	1.1	0.0	0.1	0.0	7.6	33.2	18.5	51.7
1975 1980	4.0 3.0	25.7 22.7	1.2 1.5	0.1 0.2	0.2 0.3	0.3 0.6	0.1 (s)	1.9 2.6	0.0 0.0	0.1 0.2	0.0 0.0	9.8 12.5	41.4 40.9	23.4 30.1	64.9 71.0
1985	1.6	18.4	3.9	0.7	0.3	1.6	(5)	6.4	0.0	0.2	0.0	15.2	41.8	35.1	76.9
1990	3.6	22.9	3.1	0.3	0.3	1.7	(s) 0.4	5.7	0.0	0.4	0.0	17.4	49.9	40.1	90.0
1995	1.4	27.5	2.1	0.2	0.3	0.1	0.0	2.7	0.0	0.6	0.0	20.3	52.4	46.1	98.5
1996	2.4	29.7	1.5	0.2	0.3	0.1	0.0	2.2	0.0	0.7	0.0	20.6	55.5	46.8	102.3
1997	2.3	27.7	1.8	0.3	0.4	0.1	0.0	2.7	0.0	0.6	0.0	20.6	53.8	46.7	100.5
1998 1999	3.7 3.8	26.6 28.8	2.2 1.9	0.3 0.4	0.3 0.5	0.1 0.1	0.0 0.0	2.9 2.8	0.0 0.0	0.5 0.5	0.0	21.5 22.4	55.2 58.3	48.7 51.2	103.9 109.6
2000	5.0	28.8	2.1	0.4	0.5	0.1	0.0	3.1	0.0	0.5	(s) (s)	23.4	60.0	53.3	113.4
2000	1.1	29.6	2.4	0.4	0.6	0.1	0.0	3.5	0.0	0.4	(s)	23.4	57.9	52.2	110.1
2002	0.7	24.9	1.9	0.4	0.4	0.1	0.0	2.8	0.0	0.4	(s)	24.3	53.1	54.1	107.2
2003	0.9	28.0	1.3	0.5	0.5	0.1	0.0	2.4	0.0	0.4	(s)	24.3	56.1	53.7	109.9
2004	1.2	29.6	1.4	0.5	0.7	0.1	0.0	2.7	0.0	0.4	(s)	24.6	58.6	54.5	113.0
2005	1.8	26.8	1.3	0.4	0.4	0.1	0.0	2.3	0.0	R 0.5	(s)	25.4	56.8	55.6	112.4
2006 2007	0.6 1.3	26.6 24.3	1.0 0.9	0.2 0.1	0.6 0.5	0.2 0.2	0.0 0.0	1.9 1.7	0.0 0.0	0.4 0.5	(s) (s)	25.2 26.5	54.7 54.3	54.4 57.2	109.1 111.5
											. ,				

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, West Virginia

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses	Total f,h
1960	7,802	76	452	290	204	1,437	6,101	8,485	540			5,915			
1965 1970	10,747 10,279	81	890 1,087	627 907	155 114	2,080 1.621	13,280 15,925	17,033 19,655	493 558			7,984 9,426			
1970	8,424	93 68	1,087	1,095	78	1,621	15,925	22,571	595			9,426			
1975	6,284	59	3,585	2,955	76 81	1,767	21,584	29,663	690			10,567			
1985	3,551	45	2,119	871	229	964	14,865	19,048	690			9,673			
1990	4,845	58	3,173	1,103	249	1,203	20,234	25,961	610			10.469			
1995	3.768	60	3,315	1,443	194	197	14,648	19.797	556			10,867			
1996	3,256	57	3,142	1,625	189	348	4,407	9,710	661			10,820			
1997	2,569	65	2,842	2,077	199	231	4,358	9,708	509			11,180			
1998	3,654	57	3,048	1,555	226	72	5,439	10,340	521			11,161			
1999 2000	3,156 3,051	51 57	3,040 2,937	237 692	187 200	93 293	5,224 4,637	8,781 8,759	433 453			11,126 11,083			
2000	2,880	48	2,937 3,168	223	316	293	13,559	17,495	433			10,978			
2001	2,918	55	6,142	248	322	113	13,954	20,780	467			10,978			
2003	2,712	48	3,273	252	349	50	13,685	17,608	726			10,687			
2004	2,735	46	3,606	274	413	344	16,075	20.712	711			10,942			
2005	2.351	40	4,267	_ 239	393	440	14,976	20,315 R 21,588	556			11,312			
2006	2,200	41	5,201	R 418	424	336	15,208	R 21,588	524						
2007	2,583	40	5,298	261	349	999	14,596	21,503	449			14,661			
							Tri	Ilion Btu							
1960	204.4	78.4	2.6	1.2		9.0	36.3	50.2	5.8	4.9	0.0		363.8	49.9	413.7
1965	280.0	87.1	5.2	2.5	0.8	13.1	76.0	97.6	5.1	5.4	0.0		502.5	65.1	567.5
1970	260.2	95.7	6.3	3.4	0.6	10.2	89.4	109.9	5.9	4.9	0.0		508.8	77.8	586.6
1975	212.5	70.5	8.9	4.1	0.4	11.2	102.5	127.2	6.2	5.7	0.0		453.2	74.7	527.8
1980 1985	162.4 91.0	61.4 48.4	20.9 12.3	10.9 3.1	0.4 1.2	9.2 6.1	120.1 82.0	161.4 104.7	7.2 7.2	4.2 4.9	0.0		432.5 289.1	86.9 76.0	519.5 365.2
1985	124.3	61.7	18.5	4.0		7.6	112.0	143.4	6.3	1.4	0.0		372.8	82.6	455.5
1995	97.4	64.0	19.3	5.2	1.0	1.2	81.0	107.7	5.7	1.8	0.0		313.7	84.2	397.9
1996	84.2	60.0	18.3	5.9		2.2	26.1	53.5	6.8	1.8	0.0		243.2	84.0	327.2
1997	65.7	69.0	16.6	7.5	1.0	1.5	25.9	52.5	5.2	1.8	0.0		232.4	86.4	318.8
1998	95.2	60.3	17.8	5.6	1.2	0.5	32.5	57.5	5.3	1.5	0.0	38.1	257.8	86.4	344.2
1999	82.3	53.6	17.7	0.9	1.0	0.6	30.9	51.0	4.4	1.5	0.0		230.8	86.8	317.7
2000	81.1	60.7	17.1	2.5	1.0	1.8	27.4	49.8	4.6	1.4	0.0		235.5	86.0	321.5
2001	75.9	51.6	18.5	0.8	1.6		76.4	98.7	4.5	2.0	0.0		270.3	83.5	353.7
2002	77.0	55.5	35.8	0.9		0.7	79.1	118.1	4.7	1.4	0.0		293.9	82.9	376.9
2003	71.2 70.7	49.9 54.4	19.1	0.9 1.0	1.8	0.3 2.2	76.9 90.6	99.1	7.4	1.4 1.4	0.0		265.5 287.9	80.5	346.0 370.5
2004 2005	70.7 59.6	43.1	21.0 24.9	_ 0.9	2.2 2.0	2.2	84.5	116.9 115.0	7.1 5.6	1.4	0.0		_ 263.4	82.6 84.4	370.5 347.8
2005	55.9	46.4	30.3	R 1.5	2.0	2.8	86.8	115.0	5.0	1.5	0.0		R 279.6	102.7	382.2
2007	65.8	43.4	30.9	0.9	1.8	6.3	83.1	123.0	4.4	1.6	0.0		288.2	107.9	396.1
						3.0									

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, West Virginia

						Per	troleum					D . "			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thousa	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total e,f
1960	134	8	119	1,742	169	2	199	11,340	3	13,573	0	0			
1965	35	18	201	1,530	130	4	198	12,541	0	14,603	0	0			
1970 1975	16	8 14	78 58	2,485 3,589	290 242	10 14	185 239	15,660 19,176	5 0	18,713 23,318	0	0			
1980	0	13	65	4,846	353	14	250	19,170	0	23,316	0	0			
1985	Ö	18	39	6,736	235	22	228	17,977	(s)	24,728 25,236	Ő	Ŏ			
1990	0	9	36	5,850	273	19	256	19,063		25.497	0	0			
1995	0	26	27	6,781	174	12	244	20,678	0	27,916	32	0			
1996 1997	0	33 32	32 22	4,840 6,472	170 172	10 (s)	237 250	18,691 19,533	4 0	23,984	5 5	0			
1998	0	31	30	8,089	175	(s)	262	19,479	0	26,451 R 28,035	1	0			
1999	Ö	30	22	7,694	184	1	265	19,284	Ö	27,451	(s)	Ö			
2000	0	33	20	8,269	189	2	261	19,205	0	27,945	8	0			
2001	0	30	35	8,039	191	(s) 2	239	19,381	0	27,884	124	0			
2002 2003	0	34 18	27 24	7,637 7,951	249 262	2 15	236 218	18,946 19,224	0	27,098 27,694	307 403	0			
2003	0	19	29	9,030	252 252	13	221	19,900	0	27,694 29,446	403 _ 432	4			
2005	Ö	20	89	9,178	238	13	220	19.783	ő	29,522	R 110	4			
2006	0	19	37	8,970	231	18	214	19,873	0	29,343	R 155	4			
2007	0	21	36	8,631	236	11	221	19,839	0	28,974	220	4			
								Trillion Btu							
1960	3.4	8.7	0.6	10.1	0.9	(s)	1.2	59.6	(s) 0.0	72.5	0.0	0.0	84.6	0.0	84.6
1965	0.9	19.3	1.0	8.9	0.7	(s) (s) (s)	1.2	65.9	0.0	77.7	0.0	0.0	97.9	0.0	97.9
1970 1975	0.4	8.1 14.6	0.4 0.3	14.5 20.9	1.6 1.3	(S) 0.1	1.1 1.5	82.3 100.7	(s) 0.0	99.9 124.8	0.0 0.0	0.0 0.0	108.5 139.4	0.0 0.0	108.5 139.4
1980	(s) 0.0	13.6	0.3	28.2	2.0	0.1	1.5	100.7	0.0	133.0	0.0	0.0	146.6	0.0	146.6
1985	0.0	19.0	0.2	39.2	1.3	0.1	1.4	94.4	(s)	136.6	0.0	0.0	155.6	0.0	155.6
1990	0.0	9.3	0.2	34.1	1.5	0.1	1.6	100.1	0.0	137.5	0.0	0.0	146.9	0.0	146.9
1995	0.0	28.1	0.1	39.5 28.2	1.0	(s) (s)	1.5	107.8	0.0	150.0	0.1	0.0	178.1	0.0	178.1
1996	0.0	34.5	0.2	28.2 37.7	1.0		1.4	97.5	(s) 0.0	128.3	(s) (s)	0.0	162.9	0.0	162.9
1997 1998	0.0 0.0	34.6 33.0	0.1 0.2	37.7 47.1	1.0 1.0	(s) (s)	1.5 1.6	101.8 101.5	0.0	142.1 151.4	(S)	0.0 0.0	176.8 184.3	0.0 0.0	176.8 184.3
1999	0.0	31.7	0.2	44.8	1.0	(s)	1.6	100.5	0.0	148.1	(s) (s)	0.0	179.7	0.0	179.7
2000	0.0	35.0	0.1	48.2	1.1	(s)	1.6	100.1	0.0	151.0	(s)	0.0	186.0	0.0	186.0
2001	0.0	32.5	0.2	46.8	1.1	(s)	1.5	101.0	0.0	150.5	(s) 0.4	0.0	183.0	0.0	183.0
2002	0.0	34.2	0.1	44.5	1.4	(s)	1.4	98.7	0.0	146.1	1.1	0.0	180.3	0.0	180.3
2003 2004	0.0 0.0	19.3 22.4	0.1 0.1	46.3	1.5	0.1	1.3	100.1 103.8	0.0 0.0	149.4 159.3	1.4	0.0	168.7 181.7	0.0	168.7 181.8
2004	0.0	21.1	0.1	52.6 53.5	1.4 1.4	(s) (s)	1.3 1.3	103.8	0.0	159.3	1.5 R 0.4	(s) (s)	181.7	(s) (s)	181.0
2006	0.0	21.5	0.2	52.3	1.3	0.1	1.3	103.2	0.0	158.8	R 0.5	(s)	180.3	(s)	180.3
2007	0.0	22.4	0.2 0.2	52.3 50.3	1.3	(s)	1.3	103.5	0.0	156.7	0.8	(s)	179.2	(s)	179.2

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

^c Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector. It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

^g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, West Virginia

				Petro	oleum				Biomass				= 1	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	owatthours	and Waste ^{e,f}		Million Kil	owatthours		Total ^{f,i}
1960	5.879	1	33	(s)	0	33	0	398		0	0	0	0	
1960 1965	5,879 8,025	1	33 61	(s) 3	0	33 62	0	336		0	0	0	0	
1970 1975	14,889 25,805	. 1	430	3	0	433 722	0	437		0	0	0	0	
1975	25,805	(s)	708	14	0	722	0	467		0	0	0	0	
1980	28,499	(s) (s) (s)	0	683	0	683	0	424		0	0	0	0	
1985 1990	31,367 29,873	(S)	0	369 368	0	369 368	0	368 685		0	0	0	0	
1990	29,073 31,540	(S)	0	338	0	338	0	637		0	0	0	0	
1995 1996	31,549 33,739	(s)	0	338 353	0	353	0	764		0	0	0	0	
1997	35,424	1	0	292	0	292	0	630		0	0	0	0	
1998	36,060	i	ő	324	Õ	324	ő	565		ŏ	0	Ő	0	
1998 1999	37,027	(s)	Ö	321	Ö	321	Õ	497		Ŏ	Ö	Ö	Ö	
2000	36,625	`1	0	448	0	448	0	698		0	0	0	0	
2001 2002	32.694	3	0	422	0	422	0	513		0	0	0	0	
2002	37,828	2	0	451	0	451	0	599		0	0	9	0	
2003 2004	37,468	2	0	424	0	424	0	630		0	0	170	0	
2004	35,956	1	0	460	0	460	0	608		0	0	161	0	
2005 2006	37,875	2	0	349	0	349	0	892		0	0	154	0	
2006	37,863 38,056	4	0	237 324	0	237 324	0	1,048 806		0	0	174 168	0	
2007	30,030	4	0	324	0	324				0	0	100	0	
							Trillion E							
1960 1965	140.6	1.0	0.2	(s)	0.0	0.2	0.0 0.0	4.3	0.0	0.0	0.0	0.0	0.0	146.0
1905	190.5 347.2	1.0 0.7	0.4 2.7	(s)	0.0 0.0	0.4 2.7	0.0	3.5 4.6	0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	195.4 355.2
1970 1975 1980	599.2	0.7	4.4	(s) 0.1	0.0	4.5	0.0	4.0	(s) 0.0	0.0	0.0	0.0	0.0	608.8
1975	691.7	0.2	0.0	4.0	0.0	4.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	700.1
1985	778.7	0.1	0.0	2.1	0.0	2.1	0.0	3.8	0.0	0.0	0.0	0.0	0.0	784.9
1985 1990	744.8	0.1	0.0	2.1	0.0	2.1	0.0	7.1	0.0	0.0	0.0	0.0	0.0	754.2
1995	772.4	0.7	0.0	2.0	0.0	2.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	781.7
1996	772.4 826.7	0.3	0.0	2.0 2.1	0.0	2.1	0.0	7.9	0.0	0.0	0.0	0.0	0.0	837.0
1997	869.4	0.6	0.0	1.7	0.0	1.7	0.0	6.4	0.0	0.0	0.0	0.0	0.0	878.1 887.2
1996 1997 1998	879.0	0.5	0.0	1.9	0.0	1.9 1.9 2.6	0.0	5.8	0.0	0.0	0.0	0.0	0.0	887.2
1999	906.4	0.5	0.0	1.9	0.0	1.9	0.0	5.1	0.0	0.0	0.0	0.0	0.0	913.8
2000	891.2	0.5	0.0	2.6	0.0	2.6	0.0	7.1	0.1	0.0	0.0	0.0	0.0	901.6
2001 2002	789.5	2.7 2.0	0.0	2.5 2.6	0.0	2.5	0.0	5.3	0.2	0.0	0.0	0.0	0.0	800.1
2002	915.7	2.0 2.2	0.0 0.0	2.6	0.0 0.0	2.6	0.0 0.0	6.1 6.5	(s)	0.0 0.0	0.0 0.0	0.1 1.7	0.0 0.0	926.5 919.0
2003	906.1 865.0	2.2 1.5	0.0	2.5 2.7	0.0	2.5 2.7	0.0	6.5 6.1	(S) (S)	0.0	0.0	1.7	0.0	919.0 876.9
2004	898.0	2.4	0.0	2.7	0.0	2.7	0.0	8.9	(5)	0.0	0.0	1.5	0.0	912.9
2005	902.3	3.8	0.0	1.4	0.0	1.4	0.0	10.4	(s) 0.0	0.0	0.0	1.7	0.0	919.7
2007	915.8	4.0	0.0	1.9	0.0	1.9	0.0	8.0	0.0	0.0	0.0	1.7	0.0	931.3
	0.0.0													

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy. Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Wisconsin

						Petroleum				Martan	Ukadaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate Flow of		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	s			Million	n kWh	and Waste ^{f,g}	and Wind ^{g,h}	Electricity/ Losses	Other ^j	Total ^g
1960 1965	12,735 14,528	91 200	21,750 23,508	245 629	4,258 5,246	33,125 36,295	4,394 3,209	7,640 6,830	71,412 75,716	0	2,399 2,131					
1970 1975	16,898 12,733	338 365	25,841 26,561	1,603 2,206	7,679 8,448	45,483 51,548	2,936 2,106	10,536 7,067	94,078 97,936	157 10,293	1,904 2,037					
1980	15,644	352	22,495	2,397	6,036	49,606	1,772	6,432	88.738	9,911	2,115					
1985	18,034	308	23,154	1,663	5,377	46,557	402	5,324	82,478	10,979	2,546					
1990 1995	20,122 23,151	309 381	24,192 23,471	1,424 2,044	6,664 8,753	48,989 55,053	1,109 829	7,221 9,317	89,599 99,467	11,226 10,970	2,014 2,378					
1996	24,076	403	24,908	1,530	11,139	56,313	1,020	19,680	114,590 R 115,552	10,121	2,696					
1997 1998	25,487 24,740	401 368	24,999 25,199	R 1,950 R 1,866	9,935 8,461	55,696 58,740	1,065 923	21,907 22,804	R 115,552 R 117,992	3,916 9,397	2,483 1,747					
1999	25,276	381	28,622	3,407	11,009	58,976	1,011	23,042	126,066	11,495	1,985					
2000 2001	25,928 25,921	394 360	29,301 31,694	3,139 2,590	11,129 10,094	58,194 58,870	1,110 918	22,071 12,103	124,943 116,269	11,512 11,507	1,986 2,056					
2002	25,174	385	30,051	2,293	12,304	60.351	1,050	11,540	117,589	12,449	2,515					
2003 2004	26,197 26,696	395 383	25,586 28,240	1,336 2,641	10,658 11,556	60,902 61,130	930 1,154	12,813 13,552	112,226 118,272	12,215 11,888	1,843 1,981					
2004	26,727	410	27,309	2,858	11,337	61,367	1,154	13,028	117,367	9.921	1,901					
2006	25,488	372	28,387	2,748	10,155	60,526	851	13,060	115,727	12,234	1,679					
2007	25,588	398	28,085	2,227	10,363	62,275	800	12,402	116,153	12,910	1,516					
								Trillion Btu								
1960 1965	304.6 347.9	93.8 204.1	126.7 136.9	1.3 3.5	17.1 21.0	174.0 190.7	27.6 20.2	46.2 41.2	393.0 413.5	0.0 0.0	25.8 22.3	39.2 39.4	0.0 0.0	-1.2 4.6	0.0 0.0	855.1 1,031.8
1970	381.6	344.2	150.5	9.0	29.0	238.9	18.5	64.5	510.5	1.7	20.0	38.3	0.0	-6.8	0.0	1,289.5
1975 1980	272.0 327.3	372.1 354.7	154.7 131.0	12.5 13.5	31.4 22.2	270.8 260.6	13.2 11.1	43.2 39.5	525.8 478.0	113.4 108.1	21.2 22.0	44.9 165.3	0.0 0.0	-5.3 12.7	0.0 (s)	1,344.1 1,468.0
1985	360.7	311.4	134.9	9.3	19.4	244.6	2.5	31.8	442.5	116.6	26.6	191.2	(s) 0.3	59.1	0.1	1,508.2
1990 1995	394.5 441.6	311.2 385.3	140.9 136.7	8.0 11.6	24.2 31.7	257.3 287.1	7.0 5.2	44.7 56.9	482.1 529.2	118.8 115.3	21.0 24.5	81.3 86.1	0.3	64.7 101.8	0.7 (s)	1,474.5 1,684.2
1996	454.6	408.1	145.1	8.7	40.2	293.7	6.4	112.3	606.4	106.3	27.9	95.1	0.3	98.0	0.5	1.797.2
1997 1998	486.6 472.0	405.0 372.1	145.6 146.8	11.1 10.6	35.9 30.6	290.3 306.2	6.7 5.8	126.0 132.0	615.7 631.8	41.1 98.6	25.4 17.8	96.9 89.4	0.3 0.4	138.2 113.2	3.0 2.7	1,812.2 1,798.1
1999	480.7	385.1	166.7	19.3	39.8	307.3	6.4	133.2	672.8	120.1	20.3	93.1	0.4	106.6	1.4	1,880.5
2000 2001	499.2 494.0	397.6 363.0	170.7 184.6	17.8 14.7	40.1 36.5	303.2 306.7	7.0 5.8	127.2 74.3	666.0 622.5	120.1 120.2	20.3 21.2	92.3 99.0	0.4 1.1	105.8 98.0	0.0 0.0	1,901.5 1,819.2
2001	494.0	386.9	175.0	13.0	30.5 44.5	314.3	5.6 6.6	74.3	623.9	130.2	25.6	72.2	0.8	108.4	0.0	1,839.7
2003	488.2	397.5	149.0	7.6	38.7	317.1	5.8	79.1	597.4	127.3	18.9	84.5	1.4	113.8	(s) 0.0	1 828 9
2004 2005	499.2 522.5	384.8 415.6	164.5 159.1	15.0 16.2	41.8 41.0	318.8 320.2	7.3 9.2	83.4 80.2	630.7 625.9	124.0 103.5	19.9 17.4	72.4 R 86.2	1.4 1.3	111.8 97.0		R 1,844.2 R 1,869.5
2006	462.7	376.6	165.4	15.6	36.6	315.8	5.4	80.3	619.1	127.6	16.7	R 90.9	1.5	126.3	(s) (s) (s)	R 1,821.3
2007	464.9	403.9	163.6	12.6	37.2	325.0	5.0	76.0	619.5	135.4	15.0	84.8	1.7	121.1	(s)	1,846.3

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wisconsin

				Petro	leum		Biomass			.			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG b	Total	Wood ^c			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet		Thousand	d Barrels		Thousand Cords	Geothermal d	Solar/PV d,e	Million Kilowatthours	Net Energy ^{d,f}	Energy Losses ⁹	Total d,f
1960	1,622	47	11,206 11,790 11,721	1,227	2,675	15,107	974			5,298			
1965	1,153	79	11,790	660	3,692	16,142	744			6,963			
1970	724	105	11,721	1,608	5,606	18,935	595			9,825			
1975	173	120	11,019	530 124	5,405	18,935 16,953 11,261	587			11,782			
1980	11	123	8,155	124	2,983	11,261	1,103			13,597			
1985	6 1	116 114	6,669 5,385	195 29	3,045 4,187	9,909	1,161 734			16,307			
1990 1995	17	114	3,659	34	4,107 5.560	9,601 9,253	73 4			16,385 18,635			
1996	13	136 148	3,869	41	5,560 7,463	11,372	400 415			18,685			
1990	18	136	3,009	44	6,596	9.879	275			18,510			
1997 1998	14	116	3,239 2,801	39	5,926	9,879 8,767	245			19,087			
1999	19	128	3.240	61	6.995	10,296 9,660	257			19.502			
1999 2000	19 18	128 135	3,240 3,027	44	6,995 6,589	9,660	257 277			19,502 19,929			
2001	21	125	3.341	40	6.234	9,616	370			20,418			
2002	21 15	137	2.855	40 30	7,447	9,616 10,332	376			21,575			
2003 2004	20 15	142	2,940 2,919	27	6,880	9.847	395			21,364			
2004	15	135	2,919	40	6,680	9,639	្ន 405			21,192			
2005 2006	33 R 3	131	2,640	28	6,473	9,141	405 R 571 R 519			22,458			
2006	к 3	121	2,365	27	R 5,611	R 8,003	^K 519			21,779			
2007	5	131	1,980	14	5,924	7,918	573			22,374			
						Ti	rillion Btu						
1960 1965 1970 1975	35.6 25.1	49.1 80.9 107.2	65.3	7.0 3.7	10.7	83.0 87.2	19.5	0.0	0.0	18.1 23.8	205.1	44.7	249.8
1965	25.1	80.9	68.7	3.7	14.8	87.2	14.9	0.0	0.0	23.8	231.9	56.7	288 6
1970	15.3	107.2	68.3	9.1	21.2	98.6	11.9	0.0	0.0	33.5	266.5	81.1	347.6 361.6 363.9 375.4
1975	3.3	122.4	64.2	3.0	20.1	87.3	11.7	0.0	0.0	40.2	264.9	96.7	361.6
1980 1985	0.3 0.1	124.2 R 117.4	47.5 38.8	0.7	11.0	59.2 50.9	22.1 23.2	0.0 0.0	0.0	46.4 55.6	252.1 247.3	111.8	363.9
1985	0.1	K 117.4	38.8	1.1	11.0	50.9	23.2	0.0	0.0	55.6	247.3	128.1	375.4
1990 1995	(s) 0.4	114.7	31.4	0.2	15.2	46.7	14.7	0.1	0.2	55.9	232.3	129.3	361.6
1995	0.4	137.5	21.3	0.2 0.2 0.3	20.1 27.0	41.7	8.0	0.1 0.1	0.2	63.6	251.5	144.4	395.9 417.2
1996 1997	0.3 0.4	149.8 137.3	22.5 18.9	0.2	27.0	49.7	8.3 5.5	0.1	0.2 0.2	63.8 63.2	272.2 249.7	145.0	417.2
1000	0.4	117.2	16.3	0.3 0.2	∠3.0 21 /	43.0	5.5 4.0	0.1	0.2	03.Z 65.1	249.7 225.9	143.1 147.7	392.8 373.6 398.4
1998 1999	0.4 0.5	129.1	18.9	0.2 0.3	21.4 25.3	38.0 44.5	4.9 5.1	0.1	0.2 0.2	65.1 66.5	246.2	152.2	37 3.0 308 A
2000	0.5	136.4	17.6	0.3	23.8	41.6	5.5	0.1	0.2	68.0	252.4	154.7	407.1
2000	0.5	126.3	19.5	0.3 0.2	22.5	42.2	7.4	0.1	0.2	69.7	246.5	155.2	407.1 401.7
2002	0.4	138.0	16.6	0.2	26.9	43.7	7.5	0.2	0.2	73.6	263.6	164.1	427.7
2003	0.5	143.3	17.1	0.2	25.0	42.2	7.9	0.2	0.2	72.9	267.2	160.9	428 N
2003 2004 2005	0.4	135.8	17.0	0.2	24.2	41.4		0.2	0.2	72.3	258.3 R 261.0 R 241.3	160.0	418.3 R 428.6 R 402.0
2005	0.6	133.0	15.4	0.2	23.4 R 20.2	39.0 R 34.2	8.1 R 11.4 R 10.4	0.3	0.2 0.2	76.6	R 261.0	167.6	R 428.6
	0.1	121.9	13.8	0.2	R 20 2	R 34 2	R 10 /	0.3	0.2	74.3	R 241 3	160.7	R 402 0
2006 2007	0.1	132.9	11.5	0.1	21.3	32.9	11.5	0.4	0.2	76.3	254.3	164.7	419.0

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not egual sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wisconsin

					Petro	oleum				Biomass		5 . "			
	Coal	Natural Gas ^a	Distillate Fuel Oil	Kerosene	LPG ^b	Motor Gasoline ^C	Residual Fuel Oil	Total d	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousan	nd Barrels			Million Kilowatthours	Wood and Waste ^{f,g}	Geothermal f	Million Kilowatthours	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	1,127	11	1,817	101	472	295	556	3,239	0			3,059			
1965	870	24	1,911	54	652	309	407	3,332	0			4,160			
1970	569	55	1,900	132	989	56	244	3,321	0			6,180			
1975 1980	404 40	67 77	1,786 1,682	43 57	954 526	52 76	168 30	3,004 2,371	0			8,342 10,019			
1985	20	73	3,294	18	537	283	106	4,238	0			12,087			
1990	4	66	2,128	9	739	320	217	3,412	11			13,408			
1995	113	85	982	10	981	51	108	2,133	4			15,642			
1996	92	94	978	12	1,317	80	131	2,517	10			16,188			
1997	144	89	1,257	7	1,164	51	132	2,611	8			16,480			
1998 1999	114 138	81 82	1,386 1,447	10 7	1,046 1,234	52 85	234 167	2,727 2,941	9			16,934 18,381			
2000	144	81	1,344	10	1,163	79	180	2,775	4			19.055			
2001	169	76	1,433	21	1,100	79 79	199	2,832	4			19,430			
2002	112	86	1,210	13	1,314	80	367	2,984	0			19,890			
2003	135	87	1,416	27	1,214	83	393	3,133	5			20,056			
2004	137	82	1,323	32	1,179	86	250	2,869	2			19,349			
2005 2006	384 R 26	86 86	1,238 895	30 25	1,142 R 990	86 56	296 81	2,793 R 2,047	(0)			22,501 22,756			
2007	46	89	1,010	9	1,045	56	25	2,145	(s) 1			23,491			
								Trillion Btu							
1960	24.7	11.3	10.6	0.6	1.9	1.5	3.5	18.1	0.0	0.4	0.0	10.4	64.9	25.8	90.7
1965	19.0	24.0	11.1	0.3	2.6	1.6	2.6	18.2	0.0	0.3	0.0	14.2	75.6	33.9	109.5
1970	12.0	55.6	11.1	0.7	3.7	0.3	1.5	17.4	0.0	0.2	0.0	21.1	106.3	51.0	157.3
1975 1980	7.7 1.0	68.9 77.7	10.4 9.8	0.2 0.3	3.5 1.9	0.3 0.4	1.1 0.2	15.5 12.6	0.0 0.0	0.2 0.5	0.0 0.0	28.5 34.2	120.7 126.1	68.4 82.4	189.2 208.5
1985	0.5	73.5	19.2	0.3	1.9	1.5	0.2	23.4	0.0	0.6	0.0	41.2	139.2	95.0	234.2
1990	0.1	66.7	12.4	(s)	2.7	1.7	1.4	18.2	0.0	1.9	0.0	45.7	132.8	105.8	238.6
1995	2.8	85.8	5.7	0.1	3.6	0.3	0.7	10.3		1.3	0.0	53.4	153.6	121.2	274.8
1996	2.3	95.0	5.7	0.1	4.8	0.4	0.8	11.8	(s) 0.1	1.3 1.7	0.0	55.2	166.1	125.6	274.8 291.7
1997	3.6	89.7	7.3	(s)	4.2	0.3	0.8	12.7	0.1	1.3	0.0	56.2	163.6	127.4	291.0
1998	3.1	82.2	8.1	0.1	3.8	0.3	1.5	13.6	0.1	1.2	0.0	57.8	158.1	131.0	289.1
1999 2000	3.7 4.0	82.6 81.9	8.4 7.8	(s) 0.1	4.5 4.2	0.4 0.4	1.1 1.1	14.4 13.6	0.1	1.0 1.5	0.0 0.0	62.7 65.0	164.6 166.1	143.5 147.9	308.0 314.0
2000	4.0	76.7	7.6 8.3	0.1	4.2	0.4	1.1	14.1	(s) (s)	1.5	0.0	66.3	163.0	147.9	314.0
2002	2.7	86.3	7.0	0.1	4.7	0.4	2.3	14.6	0.0	1.6	0.0	67.9	173.1	151.3	324.4
2003	3.3	87.9	8.2	0.2	4.4	0.4	2.5	15.7	0.1	1.6	0.0	68.4	177.0	151.0	328.0
2004	3.3	82.5	7.7	0.2	4.3	0.4	1.6	14.2	(s) 0.1	_ 1.8	0.0	66.0	167.9	146.1	313.9 R 355.3
2005	7.3	87.2	7.2	0.2	4.1	0.5	1.9	13.8		R 2.2	0.0	76.8	187.4	167.9	K 355.3
2006	0.6	87.3	5.2 5.9	0.1	3.6	0.3	0.5	R 9.7	(s) (s)	R 2.0 2.2	0.0	77.6	177.3 183.9	167.9	R 345.2 356.8
2007	1.1	90.2	5.9	0.1	3.8	0.3	0.2	10.1	(S)	2.2	0.0	80.2	183.9	172.9	350.8

a Includes supplemental gaseous fuels.b Liquefied petroleum gases.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wisconsin

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^C	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	System Energy Losses ⁱ	Total f,h
1960	4,710	30	6,950	1,088	2,774	3,416	5,358	19,585	338			4,230			
1965	5,789	82	7,654	866	2,541	2,371	4.987	18,419	306			6,153			
1970	5,147	141	7,917	1,009	2,471	1,554	7,672	20,623	306			8,570			
1975	2,439	152	7,150	1,996	2,027	1,105	5,788	18,065	318			10,823			
1980 1985	2,364 2,132	130 115	3,589 3,192	2,444 1.611	1,633 1,137	1,439 158	5,596 4,511	14,701 10,610	258 258			13,290 17,195			
1985	1,960	115	3,192 4,178	1,611	780	891	6,526	13,994	201			17,195			
1995	1,900	146	4,170	2,089	934	699	8,245	16,078	266			23,690			
1996	1,949 1,678	150	4,721	2,253	921	858	18,633	27,385	272			23,871			
1997	1,757	156	4,615	2,077	914	921	20,668	29,194	280			25,103			
1998	1,687	142	4,591	1,312	669	674	21,572	28,818	220			26,040			
1999	1,651	146	6,962	2,727	753	835	22,086	33,364 34,562	246			25,665			
2000	1,693	152	8,360	3,332	780	921	21,168	34,562	227			26,162			
2001 2002	1,651 1,716	133 138	9,726 8,941	2,662 3.462	1,186	714 679	11,107 10,647	25,396	152 218			25,370 25,534			
2002	1,710	138	5.037	2,439	1,285 1,323	535	11,965	25,013 21,298	185			25,534			
2003	1,723	141	5,578	3,579	1,679	901	11,903	23,737	195			27,435			
2005	1,695	131	5,646	3 549	1,710	1,071	11,583	23,558	203			25,376			
2006	1.758	118	5,570	3,549 R 3,379	1,938	639	11,216	R 22,741	204			25,286			
2007	1,757	121	5,670	3,234	1,677	740	10,496	21,817	179			25,436			
							Tri	Ilion Btu							
1960	116.6	30.8	40.5	4.4	14.6	21.5	33.3	114.2	3.6	19.3	0.0		299.0	35.7	334.7
1965	142.4	83.0	44.6	3.5	13.3	14.9	31.0	107.3	3.2	24.2	0.0		381.1	50.1	431.3
1970 1975	119.6 54.7	143.6 155.5	46.1 41.6	3.8 7.4	13.0	9.8 6.9	48.2 35.9	120.8 102.5	3.2 3.3	26.1 32.9	0.0		442.6 385.9	70.8 88.8	513.3 474.7
1975	54.7 54.6	130.6	20.9	9.0	10.6 8.6	9.0	34.7	82.2	3.3 2.7	142.1	0.0 0.0		457.4	109.3	566.7
1985	49.7	116.4	18.6	5.8	6.0	1.0	27.0	58.4	2.7	166.5	0.0		452.4	135.1	587.5
1990	47.3	122.6	24.3	5.9		5.6	40.6	80.5	2.1	61.3	0.0		380.1	153.1	533.2
1995	47.2	147.7	23.9	7.6		4.4	50.8	91.5	2.7	72.0	0.0		441.9	183.6	625.5
1996	40.1	R 151.5	27.5	8.1	4.8	5.4	106.3	152.1	2.8	79.8	0.0	81.4	507.7	185.2	693.0
1997	42.4	157.4	26.9	7.5	4.8	5.8	119.0	164.0	2.9	84.0	0.0	85.7	536.3	194.1	730.3
1998	41.0	143.5	26.7	4.7	3.5	4.2	125.0	164.2	2.2	76.6	0.0		516.4	201.5	717.9
1999	40.1	147.4	40.6	9.9	3.9	5.3	127.6	187.2	2.5	81.3	0.0		R 546.1	200.3	746.3
2000	40.1	153.4	48.7	12.0	4.1	5.8	121.9	192.4	2.3	80.0	0.0		557.6	203.0	760.6
2001 2002	38.9 40.2	134.1 138.5	56.7 52.1	9.6 12.5	6.2 6.7	4.5 4.3	68.5 65.2	145.5 140.8	1.6 2.2	85.8 58.0	0.0		492.3 466.8	192.9 194.2	685.2 661.0
2002	40.2	138.8	29.3	8.8	6.9	3.4	74.1	122.5	1.9	69.5	0.0		460.7	194.2	655.1
2003	40.9	141.7	32.5	12.9	8.8	5.7	74.1	134.0	2.0	54.6	0.0		R 466.9	207.1	674.0
2005	39.1	132.3	32.9	12.8	8.0	6.7	71.6	133.0	2.0	65.9	0.0		458 9	189.4	648.3
2006	39.9	119.7	32.4	R 12.2	10.1	4.0	69.3	R 128.0	2.0	R 70.4	0.0	86.3	R 446.3	186.6	R 632.9
2007	40.0	122.8	33.0	11.6	8.8	4.7	64.6	122.6	1.8	62.3	0.0		436.3	187.3	623.5

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

kWh = Kilowatthours. — — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wisconsin

						Pe	troleum			D . "					
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses ⁹	Total ^{e,f}
1960	81	1	427	1,773	245	23	527	30,056	378	33,430	0	0			
1965	19	2	636	2,148	629	36	493	33,446	378	37,765	0	0			
1970	8	7	332	4,179	1,603	74	552	42,956	6	49,703	0	0			
1975 1980	(s) 0	5 8	173 124	6,064	2,169	93 84	497 523	49,469 47,897	285 235	58,751 59,829	0	0			
1980	0	3	102	8,570 9,749	2,397 1,663	184	523 476	47,897 45,136	138	59,829 57,447	27	0			
1990	0	4	122	12,388	1,424	118	535	47,890	2	62,478	191	0			
1995	0	4	374	14.524	2.044	123	511	54,068	22	71.666	846	(s)			
1996	0	4	367	15,179	1,530	106	495	55,313	32	73,023	1,338	(s)			
1997	0	5	486 454	15,625	R 1,950 R 1,866	99	523	54,731	12	R 73,426 R 77,169	1,566	(s)			
1998 1999	0	4	454 134	16,092 16,622	3,407	176	548 554	58,019 58,138	14 7	78,912	814 687	(s) (s)			
2000	0	4	112	16,286	3,139	52 45	545	57,334	7	77,468	769	(s)			
2001	Ö	3	236	16,993	2,590	98	500	57,605	3	78,025	1,951	(s)			
2002	0	4	126	16,910	2,293	81	494	58,986	4	78,894	1,951 3,116	(s)			
2003	0	4	54	15,975	1,336	126	456	59,496	2	77,446	2,580	(s)			
2004 2005	0	4	162 83	18,147 17,500	2,641 2,858	119 172	462 460	59,364 59,571	3 101	80,899 80,745	2,440 R 2,070	(S)			
2005	0	3	71	19,311	2,748	172	448	58,533	131	81,418	R 3,970 R 3,595	(s) (s)			
2007	0	3	61	19,125	2,227	160	463	60,542	35	82,614	4,487	(s)			
								Trillion Btu							
1960	2.0	0.6	2.2	10.3	1.3	0.1	3.2	157.9	2.4	177.4	0.0	0.0	179.9	0.0	179.9
1965	0.5	1.6	3.2 1.7	12.5 24.3	3.5 9.0	0.1	3.0	175.7	2.4	200.4	0.0	0.0	202.5	0.0	202.5
1970 1975	0.2	6.7	1.7 0.9	24.3 35.3	9.0 12.3	0.3 0.3	3.3 3.0	225.7 259.9	(s) 1.8	264.4 313.5	0.0 0.0	0.0 0.0	271.3 318.5	0.0 0.0	271.3 318.5
1975	(s) 0.0	5.1 8.3	0.9	35.3 49.9	13.5	0.3	3.0	259.9 251.6	1.8	320.6	0.0	0.0	318.5	0.0	318.5
1985	0.0	2.8	0.5	56.8	9.3	0.7	2.9	237.1	0.9	308.2	0.0	0.0	311.1	0.0	311.1
1990	0.0	4.4	0.6	72.2	8.0	0.4	3.2	251.6	(s) 0.1	336.0	0.7	0.0	341.1	0.0	341.1
1995	0.0	4.3	1.9	84.6	11.6	0.4	3.1	282.0	0.1	383.7	3.0	(s)	388.0	(s)	388.0
1996	0.0	4.3	1.9	88.4	8.7	0.4	3.0	288.5	0.2	391.0	4.7	(s)	395.4	(s)	395.4
1997 1998	0.0 0.0	4.6 4.5	2.5	91.0 93.7	11.1 10.6	0.4 0.6	3.2 3.3	285.3 302.4	0.1	393.4 413.0	5.5 2.9	(s)	398.0 417.5	(s) (s)	398.0 417.5
1998	0.0	4.5 4.4	2.3 0.7	93.7 96.8	19.3	0.6	3.3	302.4	0.1 (s)	423.4	2.9	(s) (s)	417.5 427.7	(S) (S)	417.5 427.7
2000	0.0	4.3	0.6	94.9	17.8	0.2	3.3	298.7	(s)	415.5	2.7	(s)	419.7	(s)	419.7
2001	0.0	3.1	1.2	99.0	14.7	0.4	3.0	300.1	(s)	418.4	6.9	(s)	421.5	(s)	421.5
2002	0.0	4.0	0.6	98.5	13.0	0.3	3.0	307.2	(s)	422.6	11.0	(s)	426.7	(s)	426.7
2003	0.0	3.8	0.3	93.1	7.6	0.5	2.8	309.8	(s)	413.9	9.1	(s)	417.7	(s)	417.8
2004 2005	0.0	3.6	0.8	105.7 101.9	15.0 16.2	0.4 0.6	2.8 2.8	309.6 310.8	(s) 0.6	434.3 433.4	8.6 R 14.0	(S)	437.9 437.3	(s)	437.9 437.3
2005	0.0 0.0	3.8 3.2	0.4 0.4	101.9	16.2	0.6	2.8 2.7	310.8 305.4	0.6	433.4 438.0	R 12.7	(s) (s)	437.3 441.2	(s) (s)	437.3 441.2
2007	0.0	3.0	0.4	111.4	12.6	0.6	2.8	316.0	0.0	443.9	15.9	(s)	441.2 446.9	(s)	446.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

C Beginning in 1993, motor gasoline includes fuel ethanol blended into the product.

d Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.

It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Wisconsin

				Petro	oleum		Needeen		Biomass				Flactolette	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^C	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports ^h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kild	owatthours		Total ^{f,i}
1960	5,195	2	45	5	0	50	0	2,061		0	0	0	0	
1965	6,697 10,450	14	53	6	0	59 1,497	0	1,825		0	0	0	0	
1970	10,450	31	1,132	124	240	1,497	157	1,597		0	0	0	0	
1975	9,716	20	548 68	578	37	1,163	10,293	1,719		0	0	0	0	
1980 1985	13,229 15,876	14	08	499 251	9 24	576 274	9,911 10,979	1,857 2,288		0	0	(s)	0	
1990	18,158	3	0	114	0	114	11,226	1,802		0	0	(s)	0	
1995	21,072	10	0	194	144	337	10,970	2 109		0	0	(3)	0	
1996	22,293	7	0	161	133	293	10,121	2,109 2,414		0	0	0	163	
1997	23,568	16	ŏ	263	178	441	3,916	2 195		ŏ	ŏ	Õ	878	
1998	22,925	24	ĭ	328	181	511	9,397	1,518		Õ	0	0	807	
1999	23,468	21	2	351	201	553	11,495	1.734		Ō	Ō	0	399	
2000	24,072	21	2	284	192	478	11,512	1,754		0	0	3	0	
2001	24,081	22 21	2	200	198	400	11,507	1,900		0	0	72	0	
2002	23,331	21	0	135	231	366	12,449	1,900 2,297		0	0	46	0	
2003	24,319	24	0	218	284	501	12,215	1,653		0	0	98	1	
2004	24,777	21	0	273	856	1,129	11,888	1,783		0	0	104	, 0	
2005	24,615	59	0	286	844	1,130	9,921	1,530 1,475		0	0	93 101	(s)	
2006	23,702	44	0	246	1,273	1,519	12,234	1,4/5		0	0	101	(s)	
2007	23,780	54	0	299	1,360	1,660	12,910	1,336		0	0	109	(s)	
							Trillion E	Btu						
1960	125.8	2.1	0.3 0.3	(s) (s)	0.0	0.3	0.0	22.2	0.0	0.0	0.0	0.0	0.0	150.4
1965	161.0	14.7	0.3	(s)	0.0	0.4	0.0	19.1	(s) 0.1	0.0	0.0	0.0	0.0	195.1
1970	234.6	31.2	7.1	0.7	1.4	9.3	1.7	16.8	0.1	0.0	0.0	0.0	0.0	293.6
1975	206.3	20.3	3.4 0.4	3.4	0.2	7.0	113.4 108.1	17.9	0.0	0.0	0.0	0.0	0.0	364.8
1980 1985	271.5 310.3	13.8 1.3	0.4	2.9 1.5	0.1 0.1	3.4 1.6	116.6	19.3 23.9	0.6 0.9	0.0 0.0	0.0 0.0	0.0	0.0 0.0	416.8 454.7
1985	347.0	2.7	0.0	0.7	0.1	0.7	116.6	23.9 18.7	3.4	0.0	0.0	(s)	0.0	454.7 491.4
1995	391.2	10.1	0.0	1.1	0.9	2.0	115.3	21.7	4.9	0.0	0.0	(s) 0.0	0.0	545.1
1996	411.9	7.5	0.0	0.9	0.8	1.7	106.3	25.0	5.3	0.0	0.0	0.0	0.6	558.2
1997	440.2	16.0	0.0	1.5	1.1	2.6	41.1	22.4	6.0	0.0	0.0	0.0	3.0	531.4
1998	427.6	24.7		1.9	1.1	3.0	98.6	15.5	6.7	0.0	0.0	0.0	2.8	578.7
1999	436.4	21.6	(s)	2.0	1.2	3.3	120.1	17.7	5.7	0.0	0.0	0.0	1.4	606.2
2000	454.6	21.5	(s) (s) (s) (s) 0.0	1.7	1.2	2.8	120.1	17.9	5.2	0.0	0.0	(s)	0.0	622.1
2001	450.5	22.7	(s)	1.2	1.2	2.4	120.2	19.6	4.1	0.0	0.0	(s) 0.7	0.0	620.4
2002	448.7	20.0	0.0	0.8	1.4	2.2	130.0	23.4	5.1	0.0	0.0	0.5	0.0	629.7
2003	444.5	23.8	0.0	1.3	1.7	3.0	127.3	16.9	5.5	0.0	0.0	1.0	(s) 0.0	621.9
2004	454.6	21.2	0.0	1.6	5.2	6.7	124.0	17.9	7.8	0.0	0.0	1.0	0.0	633.3
2005	475.5	59.2	0.0	1.7	5.1	6.8	103.5	15.3	6.7	0.0	0.0	0.9	(s)	667.9
2006	422.1	44.5	0.0	1.4	7.7 8.2	9.1	127.6	14.6 13.2	8.1 8.8	0.0	0.0	1.0	(s) (s)	627.1
2007	423.6	55.1	0.0	1.7	8.∠	9.9	135.4	13.2	ბ.ბ	0.0	0.0	1.1	(S)	647.1

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

 $-\stackrel{\circ}{-}$ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^e Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Solar thermal and photovoltaic energy.

h Electricity traded with Canada and Mexico.

¹ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

Table 7. Energy Consumption Estimates by Source, Selected Years, 1960-2007, Wyoming

						Petroleum				Musless	Uhudaa	Biomass				
	Coal	Natural Gas ^a	Distillate Fuel Oil	Jet Fuel	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Nuclear Electric Power	Hydro- electric Power ^e	Wood	Geo- thermal, Solar/PV.	Net Interstate		
Year	Thousand Short Tons	Billion Cubic Feet				Thousand Barre	ls			Million	n kWh	Wood and Waste ^{f,g}	and Wind ^{g,h}	Flow of Electricity/ Losses ¹	Other ^j	Total ^g
1960	993	51	3,278	56	1,114	4,431	1,749	2,874	13,502	0	609					
1965 1970	2,109 3,802	59 110	3,696 5,059	74 128	1,171 1,848	4,739 5,900	2,171 1,487	3,550 4,137	15,401 18,558	0	884 1,006					
1975	7,628	87	7,656	124	1,815	7,354	2,076	4,137	23,321	0	1,120					
1980	15,208	69	13,247	162	2,030	8,501	2,171	4,848	23,321 30,959	0	1,108					
1985 1990	23,155 25,514	82 92	7,216 9,308	154 143	1,942 1,263	7,671 7,105	211	4,087 4,168	21,280 22,026	0	1,068 645					
1995	25,933	98	10,323	160	1,203	7,105	39 20	3,274	23,693	0	799					
1996	26,647	101	10,552	151	1,651	7,905	6	3,964	24,229	0	1,232					
1997 1998	26,096 28,773	101 109	11,306 11,103	121 116	308 253	7,603 7,888	4 6	4,054 3,645	23,397 23,010	0	1,381 1,342					
1999	27.677	97	13.668	174	480	7,879	8	4,086	26,294	0	1,342					
2000	28,416	101	12,600	286	1,217	7,799	23	4,263	26,188	0	1,011					
2001 2002	27,984 27,305	99 113	14,020 13,814	331 210	1,238 1,114	8,102 8,041	68 151	5,140 4,486	28,898 27,817	0	879 584					
2002	27,575	115	14,305	166	1,114	8.009	143	4,466 5.196	28,911	0	594 594					
2004	28,156	107	14,112	242	993	7,968	107	4,969	28,390	Ö	593					
2005 2006	27,752	108 R 108	14,112	204	1,241 R 1,212	8,187	133	5,029 4,803	28,905 R 30,985	0	808					
2006	27,906 28,372	113	16,238 16,328	292 378	1,469	8,329 8,523	111 76	4,803 4,866	31,640	0	843 729					
								Trillion Btu								
1960 1965	15.8 34.5	52.8 54.8	19.1 21.5	0.3 0.4	4.5 4.7	23.3 24.9	11.0 13.6	17.6 21.5	75.7 86.7	0.0 0.0	6.6 9.2	1.6 1.6	0.0 0.0	-10.9 -13.8	0.0 0.0	141.6 172.9
1970	63.5	112.5	29.5	0.4	7.0	31.0	9.3	25.2	102.7	0.0	10.6	1.6	0.0	-35.3	0.0	255.5
1975	128.0	81.4	44.6	0.7	6.7	38.6	13.1	25.9	129.6	0.0	11.7	1.6	0.0	-74.9	0.0	277.4
1980 1985	268.1 405.5	R 73.1 R 86.4	77.2 42.0	0.9	7.5 7.0	44.7 40.3	13.6	29.7 26.0	173.6 117.5	0.0 0.0	11.5 11.2	2.7	0.0	-166.4 -266.3	-0.1	362.5 357.8
1905	405.5 459.8	101.3	54.2	0.9 0.8	4.6	37.3	1.3 0.2	25.7	122.8	0.0	6.7	3.8 2.1	(s) 0.7	-200.3	-0.3 0.1	403.1
1995	463.5	103.8	60.1	0.9	7.2	41.4	0.1	20.0	129.7	0.0	8.2	1.5	0.7	-302.5	0.0	404.9
1996	474.1	107.6	61.5	0.9	6.0	41.2	(s)	24.1	133.6	0.0	12.7	1.3	0.7	-312.2	0.0	417.7
1997 1998	468.3 516.3	107.9 116.5	65.9 64.7	0.7 0.7	1.1 0.9	39.6 41.1	(s) (s)	24.8 22.3	132.1 129.7	0.0 0.0	14.1 13.7	1.4 1.2	0.7 0.7	-307.0 -355.2	0.0 0.0	417.5 422.9
1999	496.2	101.7	79.6	1.0	1.7	41.1	0.1	25.1	148.5	0.0	12.0	1.3	0.8	-332.3	0.0	428.1
2000	506.1	106.0	73.4	1.6	4.4	40.6	0.1	26.3	146.5	0.0	10.3	1.4	3.2	-341.8	0.0	431.6
2001 2002	499.8 480.4	104.0 117.8	81.7 80.5	1.9 1.2	4.5 4.0	42.2 41.9	0.4 0.9	30.8 26.5	161.5 155.0	0.0 0.0	9.1 5.9	0.9 0.9	4.4 5.2	-337.6 -320.4	0.0 0.1	442.2 444.9
2002	493.9	120.9	83.3	0.9	4.0	41.7	0.9	31.0	161.8	0.0	6.1	0.9	4.5	-320.4	0.1	460.4
2004	500.5	111.6	82.2	1.4	3.6	41.6	0.7	29.4	158.7	0.0	5.9	0.9	6.9	-330.9	-0.2	453.5
2005	490.9	113.0 R 113.0	82.2	1.2	4.5 R 4.4	42.7	0.8	29.7	161.1 R 173.0	0.0	8.1	R 1.6 R 1.5	7.9	-320.3	-0.3	R 462.0 R 482.5
2006 2007	489.3 494.8	113.0 117.6	94.6 95.1	1.7 2.1	5.3	43.5 44.5	0.7 0.5	28.2 28.8	173.0	0.0 0.0	8.4 7.2	1.5	8.2 8.1	-310.8 -309.0	-0.2 -0.2	1 482.5 496.4
	10 1.0	111.0	00.1		0.0	11.0	0.0	20.0	110.2	0.0	2	1.0	0.1	000.0	V. <u>L</u>	100.1

a Includes supplemental gaseous fuels.

losses) and the energy input at the electric utilities within the State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately

f Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

⁹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

ⁿ Geothermal, solar thermal, photovoltaic, and wind energy.

Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated

Includes: net imports of electricity; fuel ethanol blended into motor gasoline that is not included in the motor gasoline column, from 1981 through 1992; and beginning in 1980, an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

kWh = Kilowatthours. --= Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/ seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 8. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wyoming

Thousand Sillion Thousand Barrels Thousand Barrels Thousand Barrels Thousand Barrels System Short Tons Cubic Feet Thousand Barrels Thousand Barrels Solar/PV d.e Million Net Energy d.f Energy d.f	Total d,f	Electrical System Energy Losses ⁹	Net Energy ^{d,f}	Electricity Sales				Petroleum						
Thousand Shillion Cubic Feet Thousand Barrels Thousand Cords Geothermal Solar/PV d.e Kilowatthours Energy d.f Loss	Total d,f	Energy	Net Energy ^{d,f}	Million			Wood ^c	Total	LPG ^b	Kerosene		Natural Gas ^a	Coal	
1965	 				Solar/PV d,e	Geothermal d	Thousand Cords		d Barrels	Thousand				Year
1970				275 442				573 570	561 532	8 32			34 25	1960 1965
1980				604			49	1,053	1,001	39	12	18	12	1970
1990							55	997	960		26	12	15	1975
1990							73	667	644		23	10	22	1980
1996				1,815			115	550	496	8	45		24	1985
1996				1,720				513 640	487 502	1	24 17	11	20 10	1990
1998				2 022			50	487	458	1	27	14	46	1996
1998				2,007			53	165		2	45	13	15	1997
2000				2,013			47	91	64	2	25	13	17	1998
2002 11 13 30 1 698 729 29 2,232 2003 13 12 28 1 692 722 30 2,286 2004 10 12 34 1 699 734 31 2,262 2005 6 12 31 1 801 833 R61 2,377 2006 R5 12 38 1 R652 R691 R55 2,468 2007 5 12 31 1 983 1,015 61 2,592 Trillion Btu 1960 0.7 9.1 (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 0.0 4.8 19.5 1 1985 0.4 R15.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 (s) 5.9 21.9 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1				2,025			49	268	239	1	28	12	12	1999
2002 11 13 30 1 698 729 29 2,232 2003 13 12 28 1 692 722 30 2,286 2004 10 12 34 1 699 734 31 2,262 2005 6 12 31 1 801 833 R61 2,377 2006 R5 12 38 1 R652 R691 R55 2,468 2007 5 12 31 1 983 1,015 61 2,592 Trillion Btu 1960 0.7 9.1 (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 0.0 4.8 19.5 1 1985 0.4 R15.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 (s) 5.9 21.9 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1							53	534	507	1	26	12	15	
2004 10 12 34 1 699 734 31 2,262 2005 6 12 31 1 801 833 861 2,377 2006 85 12 38 1 8652 8691 855 2,468 2007 5 12 31 1 983 1,015 61 2,592 Trillion Btu 1960 0.7 9.1 (s) (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 0.0 4.8 19.5 1 1985 0.4 815.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 (s) 5.9 21.9 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1							28	730	709		20 20	11	15 11	2001
2004 10 12 34 1 699 734 31 2,262 2005 6 12 31 1 801 833 861 2,377 2006 85 12 38 1 8652 8691 855 2,468 2007 5 12 31 1 983 1,015 61 2,592 Trillion Btu 1960 0.7 9.1 (s) (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 0.0 4.8 19.5 1 1985 0.4 815.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 (s) 5.9 21.9 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1							30	722	692	1	28	12		2002
2005 6 12 31 1 801 833 K61 2,377 2,006 R5 12 38 1 R652 R691 R555 2,468 2,007 5 12 31 1 983 1,015 61 2,592 **Trillion Btu** **Trillion Btu** 1960 0.7 9.1 (s) (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 0.0 4.8 19.5 1 1985 0.4 R51 10.3 (s) 1.8 2.1 2.3 0.0 0.0 (s) 5.9 21.9 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1				2.262			31	734	699	1	34	12	10	2004
2007 5 12 31 1 983 1,015 61 2,592 Trillion Btu 1960 0.7 9.1 (s) (s) 2.3 2.3 1.2 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 4.8 19.5 1 1985 0.4 R 15.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 6.2 26.0 <td></td> <td></td> <td></td> <td>2,377</td> <td></td> <td></td> <td>R 61</td> <td>833</td> <td>801</td> <td>1</td> <td>31</td> <td>12</td> <td>6</td> <td>2005</td>				2,377			R 61	833	801	1	31	12	6	2005
Trillion Btu 1960 0.7 9.1 (s) (s) (s) 2.3 2.3 1.2 0.0 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 2.1 25.7 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 4.8 19.5 1 1985 0.4 8 15.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 6.2 26.0 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1				2,468					R 652	1	38	12		2006
1960 0.7 9.1 (s) (s) 2.3 2.3 1.2 0.0 0.0 0.9 14.3 1965 0.5 9.9 (s) 0.2 2.1 2.4 1.0 0.0 0.0 0.0 1.5 15.3 1970 0.2 18.4 0.1 0.2 3.8 4.1 1.0 0.0 0.0 0.0 2.1 25.7 1975 0.3 11.3 0.2 0.1 3.6 3.8 1.1 0.0 0.0 0.0 3.0 19.5 1980 0.4 10.3 0.1 0.0 2.4 2.5 1.5 0.0 0.0 4.8 19.5 1 1985 0.4 8 15.1 0.3 (s) 1.8 2.1 2.3 0.0 0.0 6.2 26.0 1 1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1				2,592			61	1,015	983	1	31	12	5	2007
1975							rillion Btu	Т						
1975	16.6	2.3	14.3	0.9	0.0	0.0	1.2	2.3	2.3	(s)	(s)	9.1	0.7	1960
1975	18.9	2.3 3.6	15.3	1.5	0.0	0.0	1.0	2.4	2.1	0.2	(s)	9.9	0.5	1965
1975	30.7	5.0	25.7	2.1	0.0	0.0	1.0	4.1	3.8	0.2	0.1	18.4	0.2	1970
1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1	26.8	7.3	19.5	3.0		0.0	1.1	3.8	3.6		0.2	11.3	0.3	1975
1990 0.5 12.6 0.1 (s) 1.8 1.9 1.0 0.0 (s) 5.9 21.9 1	31.1	11.6	19.5	4.8	0.0	0.0	1.5	2.5	2.4	0.0	0.1	10.3	0.4	1980
1990 0.0 12.0 0.1 (5) 1.0 1.9 1.0 0.0 (5) 0.9 21.9 1	40.2 35.5	14.3 13.6	26.0	5.2 5.0	0.0	0.0	2.3	2.1	1.8		0.3	12.6	0.4	1985
1995 0.3 12.9 0.3 (s) 2.1 2.4 1.0 0.0 (s) 6.6 23.3 1	38.3	15.0	21.9	5.9 6.6		0.0	1.0	1.9	2.0		0.1	12.0	0.5 0.3	1990
1995 0.3 12.9 0.3 (s) 2.1 2.4 1.0 0.0 (s) 6.6 23.3 1 1996 0.8 14.4 0.2 (s) 1.7 1.8 1.0 0.0 (s) 6.9 24.9 1	40.6	15.7	24.9	6.9	(s)	0.0	1.0	1.8	1.7		0.3	14.4	0.8	1996
1997 0.3 13.9 0.3 (s) 0.4 0.7 1.1 0.0 (s) 6.8 22.8 1	38.3	15.5	22.8	6.8		0.0	1.1	0.7	0.4		0.3	13.9	0.3	1997
1998 0.4 13.6 0.1 (s) 0.2 0.4 0.9 0.0 (s) 6.9 22.1 1	37.7	15.6	22.1	6.9			0.9	0.4	0.2	(s)	0.1	13.6	0.4	1998
1999 0.3 12.7 0.2 (s) 0.9 1.0 1.0 (s) (s) 6.9 21.9 1		15.8				(s)	1.0						0.3	
2000 0.3 12.7 0.2 (s) 1.8 2.0 1.1 (s) (s) 7.2 23.3 1	39.6	16.3	23.3	7.2		(s)	1.1	2.0	1.8		0.2		0.3	2000
2001 0.3 11.6 0.1 (s) 2.6 2.7 0.6 (s) (s) 7.3 22.5 1 2002 0.2 14.0 0.2 (s) 2.5 2.7 0.6 (s) (s) 7.6 25.1 1	38.8	16.3	22.5	7.3		(s)	0.6	2.7	2.6		0.1		0.3	2001
2002 0.2 14.0 0.2 (s) 2.5 2.7 0.6 (s) (s) 7.6 25.1 1 2003 0.2 12.8 0.2 (s) 2.5 2.7 0.6 (s) (s) 7.8 24.1 1	42.1 41.3	17.0 17.2	25.1 24.1	7.0 7.8		(S)	0.6	2.1 2.7	2.5 2.5		0.2	14.U 12.8	0.2	2002
2003 0.2 12.6 0.2 (\$) 2.5 2.7 0.6 (\$) (\$) 7.6 24.1 1 2004 0.2 12.6 0.2 (\$) 2.5 2.7 0.6 (\$) (\$) (\$) 7.7 23.9 1	40.9	17.2		7.7	\-/	(s)	0.6	2.7	2.5		0.2	12.6	0.2	2003
2005 0.1 12.2 0.2 (s) 2.9 3.1 $R_{1.2}$ (s) (s) 8.1 $R_{24.7}$ 1		17.7	R 24 7	8.1		(s)	R ₁₂	3.1	2.9		0.2	12.2	0.1	2005
2006 0.1 12.2 0.2 (s) 2.4 2.6 $^{\text{R}}$ 1.1 (s) (s) 8.4 $^{\text{R}}$ 24.4 1	R 42.4	18.2	R 24.4	8.4	(s)	(s)	R 1.1	2.6	2.4	(s)	0.2	12.2	0.1	2006
2007 0.1 12.9 0.2 (s) 3.5 3.7 1.2 (s) (s) 8.8 26.7 1	R 42.4 R 42.6	19.1	26.7	8.8	(s)	(s)	1.2	3.7	3.5		0.2	12.9	0.1	2007

^a Includes supplemental gaseous fuels.

net energy and total.

b Liquefied petroleum gases.

^c Wood and wood-derived fuels.

d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^e Solar thermal and photovoltaic energy. Includes small amounts consumed by the commercial sector that cannot be separately identified. See Section 5 of the Technical Notes for an explanation of estimation

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in

g Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻ = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05. Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under _"Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 9. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wyoming

Thousand Cast Cas						Petro	oleum				Biomass		B . "			
Thousand Barriers Thousand Barriers Maillong Masse M		Coal			Kerosene	LPG ^b		Residual Fuel Oil	Total ^d	Hydro- electric Power ^{e,f}			Retail Electricity Sales			
1986	Year					Thousar	nd Barrels				and	Geothermal ^f		Net Energy ^{f,h}	Energy	Total ^{f,h}
1965	1960	23	5	9	29	99	73	37	246	0			174			
1970 9	1965	19	8	16	119	94	73	40	341	•			594			
1980	1970	9				177	85		487	•			657			
1985 83	1975	35		63	43	169	72		431				775			
1990	1985	ია 83				88			694 624	•			2 321			
1995 127 10 265 2 104 8 (s) 379 0 2.443 1996 336 10 264 1 81 36 (s) 383 0 2.562 1997 125 11 219 1 21 8 (s) 249 0 2.568 1999 125 11 219 1 21 8 (s) 249 0 2.568 1999 142 10 148 2 11 8 (s) 168 0 2.678 1999 92 10 364 (s) 42 8 0 415 0 2.693 2.693 2.000 123 10 401 (s) 89 8 (s) 498 0 2.945 2.001 124 10 415 1 125 47 0 588 0 3.104 2.002 33 10 283 1 123 118 0 525 0 3.189 2.003 87 10 152 (s) 122 148 0 423 0 3.282 3.282 2.004 47 9 95 (s) 123 148 0 423 0 3.757 3.282 3.205 3.005 47 9 95 (s) 13 13 13 13 13 13 13 1	1990	104			1		74	1	380	•			2.319			
1997 125	1995	127	10	265	2	104	8	(s)	379	0			2,443			
1998	1996	336		264	1	81	36	(s)	383	0			2,562			
1999 92 10 384 (s) 42 8 (o) 415 0 2,693 2,000 123 10 401 (s) 89 8 (s) 498 0 2,945 2,001 124 10 415 1 125 47 0 588 0 3,104 2,002 2,002 83 10 283 1 123 118 0 525 0 3,189 2,003 87 10 152 (s) 122 148 0 423 0 3,282 2,004 22 10 102 (s) 123 240 0 465 0 3,393 2,005 64 9 95 (s) 141 306 0 543 0 3,754 2,005 64 9 95 (s) 141 306 0 5556 0 4,117 2,007 48 9 87 (s) 174 429 0 690 0 4,214 2,007 48 9 87 (s) 174 429 0 690 0 4,214 2,005 64 9 95 (s) 174 429 0 690 0 0 4,214 2,005 64 9 987 (s) 174 429 0 690 0 0 4,214 2,005 64 9 987 (s) 174 429 0 690 0 0 4,214 2,005 2,00					1				249	•						
2000 123 10 401 (s) 89 8 (s) 498 0 2.945 2.001 124 10 415 1 125 47 0 588 0 3.104 3.002 83 10 283 1 123 118 0 525 0 3.189 3.002 83 10 283 1 123 118 0 525 0 3.282 2.003 87 10 152 (s) 122 148 0 423 0 3.282 3.004 92 10 102 (s) 123 240 0 465 0 3.393 3.254 3.200	1990	92				42		(S)	100 415							
2001 124 10 415 1 125 47 0 588 0 3,104 2002 83 10 283 1 123 118 0 525 0 3,189 2003 87 10 152 (s) 122 148 0 465 0 3,282 2004 92 10 102 (s) 123 240 0 465 0 3,383 2005 64 9 9 95 (s) 141 308 0 543 0 3,383 2006 47 9 93 1 R 115 348 0 F 556 0 4,117 4,214 2007 48 9 9 87 (s) 174 429 0 690 0 4,214									498	•						
2004 92 10 102 (s) 123 240 0 465 0 3,393 2005 64 9 95 (s) 141 306 0 67,4 1 306 0 7,556 0 0 3,754 3,207 48 9 93 1 8115 348 0 8,556 0 0 4,117 3,207 48 9 87 (s) 174 429 0 690 0 4,117 4,117 4,214 4,214 4,214 4,214 4,214 4,214 4,214 4,214 4,214	2001	124	10	415	1	125	47		588	Ō			3,104			
2004 92 10 102 (s) 123 240 0 465 0 3,393 2005 64 9 95 (s) 141 306 0 556 0 3,754 4,117 4,214		83		283	. 1	123			525	0						
2005 64 9 9 95 (s) 141 306 0 543 0 3.754 2.006 47 9 93 1 R115 348 0 R556 0 4.117 4.214	2003								423	•						
2006	2004	92 64		102	\-/	123	240 306		400 5//3				3,393 3,754			
Trillion Btu 1960				93	(3)	R 115	348		R 556	•						
1960	2007			87	(s)	174	429		690	0			4,214			
1965									Trillion Btu							
1970			5.1	0.1		0.4	0.4		1.2	0.0		0.0	0.6			8.9
1975	1965	0.4	7.4	0.1		0.4			1.8	0.0		0.0	2.0			16.5
1980																24.6 21.4
1985 1.4 R9.6 2.3 (s) 0.3 0.4 0.4 3.4 0.0 0.1 0.0 7.9 22.4 18.2 44 1990 2.1 9.3 1.3 (s) 0.3 0.4 (s) 2.0 0.0 0.1 0.6 7.9 22.4 18.2 44 1995 2.3 10.5 1.5 (s) 0.4 (s) 2.0 0.0 0.1 0.6 8.3 23.8 18.9 44 1996 6.1 10.3 1.5 (s) 0.3 0.2 (s) 2.0 0.0 0.1 0.6 8.7 28.0 19.9 4 1997 2.3 11.5 1.3 (s) 0.1 (s) (s) 1.4 0.0 0.2 0.6 8.8 24.7 19.9 4 1998 2.9 11.1 0.9 (s) (s) (s) (s) 0.9 0.0 0.2 0.6 9.1 24.8 20.7 4 2000 2.5 10.2 2.3 (s)<	1975		9.6 5.3	0.4 2.5	0.2		0.4	0.5	2.1	0.0		0.0	2.b 3.0	15.0		21.4
1990 2.1 9.3 1.3 (s) 0.3 0.4 (s) 2.0 0.0 0.1 0.6 7.9 22.0 18.3 44 1995 2.3 10.5 1.5 (s) 0.4 (s) (s) 2.0 0.0 0.1 0.6 8.3 23.8 18.9 44 1996 6.1 10.3 1.5 (s) 0.3 0.2 (s) 2.0 0.0 0.1 0.6 8.3 23.8 18.9 44 1997 2.3 11.5 1.3 (s) 0.1 (s) (s) 1.4 0.0 0.2 0.6 8.8 24.7 19.9 44 1998 2.9 11.1 0.9 (s) (s) (s) (s) 0.9 0.0 0.2 0.6 9.1 24.8 20.7 44 1999 1.8 10.3 2.1 (s) 0.2 (s) 0.0 2.3 0.0 0.2 0.6 9.1 24.8 20.7 44 2000 2.5 10.2 2.3 (s) 0.3 (s) (s) 2.7 0.0 0.2 0.6 10.0 26.2 22.9 44 2001 2.2 10.1 2.4 (s) 0.5 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.6 26.7 23.6 55 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.7 10.9 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 5 2004 1.6 10.3 0.6 (s) 0.4 1.2 0.0 2.3 0.0 0.1 0.7 11.6 26.7 25.6 55 2005 1.1 9.6 6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 55 2006 1.1 9.6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.7 25.6 55 2006 1.1 9.6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 55 2007 1.1 9.6 6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 55 2006 1.1 9.6 6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 55 2007 1.1 9.6 6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 55 2007 1.1 9.6 6 6 6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.6 26.2 24.7 25.6 25.6 25.6 25.6 25.6 25.6 25.6 25.6		1.4	R 9.6	2.3					3.4		0.1		7.9			40.6
1997 2.3 11.5 1.3 (s) 0.1 (s) (s) 1.4 0.0 0.2 0.6 8.8 24.7 19.9 4.9 1998 2.9 11.1 0.9 (s) (s) (s) 0.9 0.0 0.2 0.6 9.1 24.8 20.7 4.9 1999 1.8 10.3 2.1 (s) 0.2 (s) 0.0 2.3 0.0 0.2 0.6 9.2 24.5 21.0 44 2000 2.5 10.2 2.3 (s) 0.3 (s) (s) 2.7 0.0 0.2 0.6 10.0 26.2 22.9 44 2001 2.2 10.1 2.4 (s) 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.0 26.2 22.9 44 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.6 10.6 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 5 2004	1990	2.1	9.3	1.3		0.3	0.4	(s)	2.0	0.0	0.1	0.6	7.9	22.0	18.3	40.3
1997 2.3 11.5 1.3 (s) 0.1 (s) (s) 1.4 0.0 0.2 0.6 8.8 24.7 19.9 4.9 1998 2.9 11.1 0.9 (s) (s) (s) 0.9 0.0 0.2 0.6 9.1 24.8 20.7 4.9 1999 1.8 10.3 2.1 (s) 0.2 (s) 0.0 0.2 0.6 9.2 24.5 21.0 4.9 2000 2.5 10.2 2.3 (s) 0.3 (s) (s) 2.7 0.0 0.2 0.6 10.0 26.2 22.9 4.9 2001 2.2 10.1 2.4 (s) 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.0 26.2 22.9 4.9 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.7 10.9 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4	1995	2.3	10.5	1.5	(s)	0.4	(s)	(s)	2.0			0.6	8.3	23.8	18.9	42.8
1998	1996	6.1	10.3	1.5	(s)			(s)				0.6	8.7		19.9	47.8
1999 1.8 10.3 2.1 (s) 0.2 (s) 0.0 2.3 0.0 0.2 0.6 9.2 24.5 21.0 4 2000 2.5 10.2 2.3 (s) 0.3 (s) (s) 2.7 0.0 0.2 0.6 10.0 26.2 22.9 4 2001 2.2 10.1 2.4 (s) 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.6 26.7 23.6 5 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.7 10.9 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 5 2004 1.6 10.3 0.6 (s) 0.4 1.2 0.0 2.3 0.0 0.1 0.7 11.6 26.7 25.6 5 2005 1.1 9.6 0.6 (s) 0.5 1.6 0.0 2.7 0.0 0.1 0.7 11.8 27.7 28.0 85.	1997	2.3		1.3	(S)	0.1		(S)	1.4		0.2	0.6			19.9	44.6 45.6
2000 2.5 10.2 2.3 (s) 0.3 (s) (s) 2.7 0.0 0.2 0.6 10.0 26.2 22.9 44 2001 2.2 10.1 2.4 (s) 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.6 26.7 23.6 50 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.7 10.9 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 50 2004 1.6 10.3 0.6 (s) 0.4 1.2 0.0 2.3 0.0 0.1 0.7 11.6 26.7 25.6 55 2005 1.1 9.6 0.6 (s) 0.5 1.6 0.0 2.7 0.0 0.0 0.1 0.7 11.8 8.771 28.0 8.5	1990	1.8	10.3	2.9	(0)	(5)		(5)	2.3	0.0	0.2	0.6	9.1	24.0	20.7	45.5
2001 2.2 10.1 2.4 (s) 0.5 0.2 0.0 3.1 0.0 0.1 0.6 10.6 26.7 23.6 50 2002 1.5 10.9 1.6 (s) 0.4 0.6 0.0 2.7 0.0 0.1 0.7 10.9 26.7 24.3 5 2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 5 2004 1.6 10.3 0.6 (s) 0.4 1.2 0.0 2.3 0.0 0.1 0.7 11.6 26.7 25.6 55 2005 1.1 9.6 0.6 (s) 0.5 1.6 0.0 2.7 0.0 0.0 0.1 0.7 12.8 0.7 1 28.0 85.5	2000	2.5	10.2	2.3	(s)	0.3		(s)	2.7	0.0	0.2	0.6	10.0	26.2	22.9	49.1
2003 1.6 10.5 0.9 (s) 0.4 0.8 0.0 2.1 0.0 0.1 0.7 11.2 26.2 24.7 50 0.0 1.0 1.0 11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.	2001	2.2	10.1	2.4	(-)	0.5	0.2	0.0	3.1	0.0	0.1	0.6	10.6	26.7	23.6	50.3
2004 1.6 10.3 0.6 (s) 0.4 1.2 0.0 2.3 0.0 0.1 0.7 11.6 26.7 25.6 5.5 2005 1.1 9.6 0.6 (s) 0.5 1.6 0.0 2.7 0.0 R0.2 0.7 12.8 R27.1 28.0 R5.	2002	1.5		1.6	(s)				2.7			0.7	10.9	26.7		51.0
2005 11 96 06 ⅓ 05 16 00 27 00 ^R 02 07 128 ^R 271 280 ^R 5ℓ					(S)											50.9 52.3
2006 0.8 9.9 0.5 (s) 0.4 1.8 0.0 2.8 0.0 R _{0.2} 0.7 14.0 R _{28.4} 30.4 R ₅₀	2004	1.0	10.3	0.0 0.6	(S)	0.4 0.5	1.2		2.3 2.7		0.1 R n 2	0.7 0.7	11.0	∠0.7 R 27 1	∠5.b 28.0	52.3 R 55.1
				0.5	(s)		1.8		2.8		R 0.2			R 28.4		R 58.8
2007 0.9 9.8 0.5 (s) 0.6 2.2 0.0 3.4 0.0 0.2 0.6 14.4 29.2 31.0 60		0.9	9.9 9.8	0.5 0.5	(-)	0.6	2.2		2.8 3.4	0.0	0.2			29.2		R 58.8 60.3

^a Includes supplemental gaseous fuels.

supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

d Includes small amounts of petroleum coke not shown separately.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

g Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption. From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of

incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^{— =} Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-andpower (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 10. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wyoming

					Petro	leum				Biomass					
	Coal	Natural Gas ^a	Distillate Fuel Oil	LPG b	Motor Gasoline ^c	Residual Fuel Oil	Other d	Total	Hydro- electric Power ^{e,f}			Retail Electricity Sales		Electrical System	
Year	Thousand Short Tons	Billion Cubic Feet			Thousand	d Barrels			Million kWh	Wood and Waste ^{f,g}	Geo- thermal ^f	Million kWh	Net Energy ^{f,h}	Energy Losses ⁱ	Total f,h
1960	119	35	1,458	384	320	756	2,615	5,534	0			270			
1965 1970	124 210	38	1,790 1,931	496	510	942 960	3,102	6,841	0			1,285 1,896			
1970	640	70 59	3,596	578 569	552 591	1,881	3,610 3,915	7,631 10,552	0			2,918			
1975	1,605	48	6,255	1,199	365	2,144	4,566	14,529	0			4,621			
1985	1,875	54	2,463	1,312	530	142	3,884	8,331	0			6,212			
1990	1,857	67	2,296	663	417	39	3,977	7,391	ŏ			7,729			
1995	1.937	68	1,898	1,265	443	20	2,946	6.572	0			6,817			
1996	1,835	70	2,281	1,095	451	6	3,606	7,439	0						
1997	1,959	67	2,811	160	470	4	3,749	7,195	0			7,211			
1998	1,939	74	2,840	154	249	6	3,333	6,581	0			6,950			
1999 2000	1,934 1,913	61 63	3,219 3,370	195 611	237 240	8	3,691	7,349	0			7,065			
2000	1,913	62	3,370 4,341	400	426	23 68	3,826 4,784	8,070 10,018	0			7,321 7,700			
2001	1,535	72	4,138	291	451	151	4,101	9,132	0			7,453			
2003	1,614	76	3,218	272	477	143	4,847	8,956	ő			7,685			
2004	1,627	72	3,360	149	532	107	4,620	8.769	ő						
2005	1.597	73 R 73	3.133	_ 291	492	133	4.648	8,696 R 10,221	0			8.007			
2006	1,685	R 73	4,736	R 438	513	111	4,422	R 10,221	0			8,362			
2007	1,733	75	4,609	305	315	76	4,541	9,847	0			8,730			
							Tri	Ilion Btu							
1960	2.4	36.1	8.5	1.5	1.7	4.8	16.1	32.6	0.0	0.4	0.0		72.5	2.3	74.8
1965	2.5	35.2	10.4	2.0	2.7	5.9	19.1	40.1	0.0	0.5	0.0		82.7	10.5	93.2
1970	4.0	71.3	11.2	2.2	2.9	6.0	22.3	44.7	0.0	0.6	0.0		127.1	15.7	142.7
1975 1980	11.8 28.8	55.2 R 51.1	20.9 36.4	2.1 4.4	3.1 1.9	11.8 13.5	23.9 28.1	61.8 84.4	0.0 0.0	0.4 1.2	0.0 0.0		139.2 181.2	23.9 38.0	163.1 219.2
1985	32.9	R 56.3	14.3	4.4	2.8	0.9	24.8	47.6	0.0	1.5	0.0		159.3	48.8	208.1
1990	41.2	73.8	13.4	2.4	2.0	0.9	24.5	42.7	0.0	1.0	(s)	26.4	185.1	61.0	246.1
1995	42.5	72.6	11.1	4.6	2.3	0.1	18.2	36.3	0.0	0.4	(s)	23.3	175.0	52.8	227.9
1996	40.2	74.2	13.3	4.0	2.4	(s)	22.1	41.8	0.0	0.2	(s)	23.5	179.8	53.5	233.3
1997	42.3	71.2	16.4	0.6	2.5	(s)	23.1	42.5	0.0	0.2	(s)	24.6	180.8	55.7	236.5
1998	42.5	79.2	16.5	0.6	1.3	(s)	20.6	39.0	0.0	0.1	(s)	23.7	184.6	53.8	238 4
1999	42.4	64.0	18.8	0.7	1.2		22.9	43.7	0.0	0.1	(s)	24.1	174.3	55.1	229.5
2000	38.5	66.4	19.6	2.2	1.3	0.1	23.9	47.2	0.0	0.1	(s)	25.0	177.1	56.8	234.0
2001	33.2	65.6	25.3	1.4	2.2	0.4	28.9	58.2	0.0	0.3	(s)	26.3	183.6	58.5	242.2
2002 2003	30.9 32.0	75.7 80.3	24.1 18.7	1.1 1.0	2.3 2.5	0.9 0.9	24.4 29.1	52.8 52.2	0.0	0.2 0.2	(s) (s)	25.4 26.2	185.1 190.9	56.7 57.9	241.8 248.8
2003	32.0 32.4	75.0	19.6	0.5	2.5 2.8	0.9	27.5	51.0	0.0	0.2	(S)	26.2	185.5	57.9 59.5	246.6 245.1
2004	31.6	75.9	18.2	1.1	2.6	0.7	27.6	50.3	0.0	0.2	(s)	27.3	185 3	59.8	_ 245.1
2006	33.4	R 75.7	27.6	R 1.6	2.7	0.7	26.2	50.3 R 58.7	0.0	0.2	(s)	28.5	R 196.5	61.7	R 258.2
2007	34.4	77.7	26.8	1.1	1.6	0.5	27.0	57.0	0.0	0.2	(s)		199.1	64.3	263.4
											(-)				

a Includes supplemental gaseous fuels.
 b Liquefied petroleum gases.

but should be counted only once in net energy and total.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Includes asphalt and road oil, kerosene, lubricants, and 16 other petroleum products as described in the Technical Notes, Section 4, "Other Petroleum Products."

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity,

which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

9 Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

h From 1981 through 1992, includes fuel ethanol blended into motor gasoline but not shown in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived,

Incurred in the generation, transmission, and distribution of electricity plus plant use and

unaccounted for electrical system energy losses.

kWh = Kilowatthours. — = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 11. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2007, Wyoming

						Pe	troleum					D 4 11			
	Coal	Natural Gas ^a	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel	LPG b	Lubricants	Motor Gasoline ^C	Residual Fuel Oil	Total	Fuel Ethanol ^d	Retail Electricity Sales		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet				Thous	and Barrels				Thousand Barrels	Million Kilowatthours	Net Energy ^{e,f}	System Energy Losses 9	Total ^{e,f}
1960	2	2	132	1,801	56	70 49	91	4,038	951	7,138	0	0			
1965 1970	(s)	2 6	217 256	1,864 3,072	74 128	49 91	81 85	4,157	1,173 469	7,615 9,363	0	0			
1970	(s) (s)	5	218	3,072	128	116	108	5,262 6,691	469	9,363	0	0			
1980	0	6	108	6.419	162	73	151	8,034	Ő	14,946	Ö	Ö			
1985	0	5	51	4,172	154	45	137	7,073	(s)	11,632	(s) 21	0			
1990	0 0	5 7	35 179	6,671	143	27 17	154 147	6,613	0	13,643	21	0			
1995 1996	0	8	213	7,985 7,869	160 151	16	147	7,486 7,418	0	15,974 15,810	127 46	0			
1997	0	10	151	8.126	121	8	151	7.125	0	15.683	3	0			
1998	0	12	151	8,010	116	25	158	7,631	0	16,090	0	0			
1999	0	14	234	9,971	174	4	160	7,634	0	18,177	0	0			
2000 2001	0 0	14 13	277 209	8,737 9,173	286 331	10 4	157 144	7,551 7,629	0 0	17,019 17,490	0	0			
2001	0	13	241	9,287	210	3	142	7,473	0	17,456	0	0			
2003	Ö	14	216	10,825	166	6	132	7.384	Ö	18,729	Ő	Ö			
2004	0	13	215	10,524	242	21	133	7,196	0	18,331	0	0			
2005 2006	0	14 14	248 250	10,776 11,283	204 292	6	133 129	7,389 7,468	0	18,756 19,429	R 144 R 144	0			
2007	0	15	190	11,518	378	7	133	7,400	0	20,005	258	0			
								Trillion Btu							
1960 1965	(s) (s)	1.8	0.7	10.5	0.3	0.3	0.5	21.2	6.0	39.5	0.0	0.0	41.3	0.0	41.3
1965 1970		2.0 6.0	1.1 1.3	10.9	0.4 0.7	0.2 0.3	0.5 0.5	21.8 27.6	7.4 2.9	42.3 51.3	0.0	0.0	44.3 57.4	0.0 0.0	44.3 57.4
1970	(s) (s)	4.9	1.3	17.9 23.1	0.7	0.3	0.5	35.2	0.0	61.1	0.0 0.0	0.0 0.0	57.4 66.1	0.0	57.4 66.1
1980	0.0	6.2	0.5	37.4	0.9	0.3	0.9	42.2 37.2	0.0	82.2	0.0	0.0	88.4	0.0	88.4
1985	0.0	5.2	0.3	24.3	0.9	0.2	0.8	37.2	(s)	63.6	(s)	0.0	68.8	0.0	68.8
1990	0.0	5.6	0.2	38.9	0.8	0.1	0.9	34.7	0.0	75.6 88.3	0.1	0.0	81.2	0.0	81.2
1995 1996	0.0 0.0	7.7 8.6	0.9 1.1	46.5 45.8	0.9 0.9	0.1 0.1	0.9 0.9	39.0 38.7	0.0 0.0	88.3 87.4	0.4 0.2	0.0 0.0	96.0 96.0	0.0 0.0	96.0 96.0
1990	0.0	11.2	0.8	45.6 47.3	0.9		0.9	30. <i>1</i> 37.1	0.0	86.9		0.0	98.1	0.0	98.1
1998	0.0	12.3	0.8	46.7	0.7	(s) 0.1	1.0	39.8	0.0	88.9	(s) 0.0	0.0	101.2	0.0	101.2
1999	0.0	14.4	1.2	46.7 58.1	1.0	(s)	1.0	39.8	0.0	101.0	0.0	0.0	115.5	0.0	115.5
2000	0.0	14.8	1.4	50.9	1.6	(s)	1.0	39.3	0.0	94.2	0.0	0.0	109.0	0.0	109.0
2001 2002	0.0 0.0	13.9 13.7	1.1 1.2	53.4 54.1	1.9 1.2	(s) (s)	0.9 0.9	39.7 38.9	0.0 0.0	97.0 96.3	0.0 0.0	0.0 0.0	110.9 110.0	0.0 0.0	110.9 110.0
2002	0.0	15.7	1.2	63.1	0.9	(S) (S)	0.9	38.5	0.0	104.4	0.0	0.0	110.0	0.0	110.0
2004	0.0	13.1	1.1	61.3	1.4	0.1	0.8	37.5	0.0	102.2	0.0	0.0	115.3	0.0	115.3
2005	0.0	14.8	1.3	62.8	1.2	(s)	0.8	38.6	0.0	104.6	R 0.5	0.0	119.4	0.0	119.4
2006	0.0	14.5	1.3	65.7	1.7	(s) (s)	0.8	39.0	0.0	108.4	R 0.5	0.0	122.9	0.0	122.9
2007	0.0	15.2	1.0	67.1	2.1	(S)	0.8	40.6	0.0	111.6	0.9	0.0	126.9	0.0	126.9

^a Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, natural gas consumed as vehicle fuel.

column.

b Liquefied petroleum gases.

Enginning in 1993, motor gasoline includes fuel ethanol blended into the product.
 Beginning in 1981, fuel ethanol is shown separately to display the use of renewable energy by the transportation sector.
 It is counted only once in the total. There is also a discontinuity in this time series between 2004 and 2005 due to changes in estimation methodology. See Section 5 of the Technical Notes.

e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

f From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

⁹ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

⁻⁻⁼ Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files."

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table 12. Electric Power Sector Consumption Estimates, Selected Years, 1960-2007, Wyoming

				Petro	oleum		Norteen		Biomass				Electricity.	
	Coal	Natural Gas ^a	Residual Fuel Oil ^b	Distillate Fuel Oil ^c	Petroleum Coke	Total	Nuclear Electric Power	Hydroelectric Power ^d	Wood	Geothermal ^f	Solar/PV f,g	Wind ^f	Electricity Net Imports h	
Year	Thousand Short Tons	Billion Cubic Feet		Thousan	d Barrels		Million Ki	lowatthours	and Waste ^{e,f}		Million Kilo	owatthours		Total ^{f,i}
1960	815	1	5	6	0	12	0	609		0	0	0	0	
1965 1970	1,941	(s) 2	15	19	0	34	0	884		0	0	0	0	
1970	3,571	2	11	13 6	0	25	0	1,006		0	0	0	0	
1975	6,938	1	112	6	0	118	0	1,120		0	0	0	0	
1980 1985	13,498 21,173	(s)	0	123	0	123 143	0	1,108 1,068		0	0	0	0	
1985	21,173	(s)	0	143 99	0	99	0	645		0	0	0	0	
1995	23,526 23,850	(s)	0	128	0	128	0	799		0	0	0	0	
1996	24,430	(5)	0	110	0	110	0	1,232		0	0	0	0	
1997	23,996	(s) (s) (s)	0	105	0	105	0	1,381		0	0	ő	0	
1998	23,996 26,674	(s)	Õ		Õ	80	Õ	1,342		Õ	Õ	2	Õ	
1999	25,639	(s) (s) 2	Ö	80 85	0	85	0	1,170		0	Ö	11	0	
2000	26,365	2	Ō	66	Ō	66	Ō	1,011		Ō	Ō	246 365	0	
2001	26,184	3	0	66	0	66	0	879		0	0	365	0	
2002	25,675	4	0	76	0	76	0	584		0	0	447	21	
2003	25,861	2	0	81	0	81	0	594		0	0	366	29	
2004	26,428	1	0	92	0	92	0	593		0	0	617	-56	
2005	26,086	1	0	77	0	77	0	808		0	0	717	-98	
2006 2007	26,170	1	0	88 84	0	88	0	843 729		0	0	759 755	-47 -55	
2007	26,585	2	0	84	0	84	U	729		0	0	/55	-55	
							Trillion E	Btu						
1960 1965	12.1	0.7	(s) 0.1	(s) 0.1	0.0	0.1	0.0	6.6	0.0	0.0	0.0	0.0	0.0	19.4
1965	31.0	0.2	0.1		0.0	0.2	0.0	9.2	0.0	0.0	0.0	0.0	0.0	40.6
1970 1975	59.0	2.4	0.1	0.1	0.0	0.1	0.0	10.6	0.0	0.0	0.0	0.0	0.0	72.2
1975	115.4	0.4	0.7	(s) 0.7	0.0	0.7	0.0	11.7	0.0	0.0	0.0	0.0	0.0	128.2
1980	237.4	0.2	0.0	0.7	0.0	0.7	0.0	11.5	0.0	0.0	0.0	0.0	0.0	249.8
1985	370.7	0.1	0.0	0.8	0.0	0.8	0.0	11.2	0.0	0.0	0.0	(s) 0.0	0.0	382.9
1990	416.0	0.1	0.0	0.6	0.0	0.6	0.0	6.7	0.0	0.0	0.0		0.0	423.3
1995 1996	418.4 427.0	0.1 0.1	0.0 0.0	0.7 0.6	0.0 0.0	0.7 0.6	0.0 0.0	8.2 12.7	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	427.5 440.4
1996	427.0	0.1	0.0	0.6	0.0	0.6	0.0	14.1	0.0	0.0	0.0	0.0	0.0	438.4
1998	470.5	0.1	0.0	0.5	0.0	0.6	0.0	13.7	0.0	0.0	0.0	(s)	0.0	485.0
1999	451.7	0.3	0.0	0.5	0.0	0.5	0.0	12.0	0.0	0.0	0.0	0.1	0.0	464.4
2000	464.9	1.9	0.0	0.4	0.0	0.4	0.0	10.3	0.0	0.0	0.0	2.5	0.0	480.0
2001	464.2	2.8	0.0	0.4	0.0	0.4	0.0	9.1	0.0	0.0	0.0	3.8	0.0	480.2
2002	447.7	3.5	0.0	0.4	0.0	0.4	0.0	5.9	0.0	0.0	0.0	4.6	0.1	462.2
2003	460.1	2.3	0.0	0.5	0.0	0.5	0.0	6.1	0.0	0.0	0.0	3.8 6.2	0.1	472.8
2004	466.3	0.5	0.0	0.5	0.0	0.5	0.0	5.9	0.0	0.0	0.0	6.2	-0.2	472.8 479.3
2005	458.2	0.5	0.0	0.4	0.0	0.4	0.0	8.1	0.0	0.0	0.0	7.2	-0.3	474.1
2006	455.0	0.8	0.0	0.5	0.0	0.5	0.0	8.4	0.0	0.0	0.0	7.5 7.5	-0.2 -0.2	472.1
2007	459.4	2.0	0.0	0.5	0.0	0.5	0.0	7.2	0.0	0.0	0.0	7.5	-0.2	476.4

a Includes supplemental gaseous fuels.

natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

Notes: Totals may not equal sum of components due to independent rounding. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of

Web Page: All data available at http://www.eia.doe.gov/emeu/states/_seds.html under "Complete Data Files." Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

^b Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil nos. 4,

^{5,} and 6.
^c Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.

d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and waste. Prior to 2001, includes non-biomass waste.

f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

Solar thermal and photovoltaic energy.
Electricity traded with Canada and Mexico.

Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both

⁻⁻ = Not applicable

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

State Energy Data System 2007: Consumption

Introduction to the Technical Notes

The State Energy Data System (SEDS) consumption tables provide annual time series estimates of State-level energy use by major economic sectors. The tables formerly comprised the *State Energy Data Report (SEDR)*. These tables are available on the Energy Information Administration's (EIA) website at http://www.eia.doe.gov/emeu/states/seds.html. Companion tables containing State-level price and expenditure data (formerly called the *State Energy Price and Expenditure Report*, or *SEPER*) also can be found at the same website. In addition, tables showing State-level consumption, price and expenditure estimates by energy source as they are updated for the most current year can be found at http://www.eia.doe.gov/emeu/states/seds.html.

This document contains information on the data sources, estimation procedures and assumptions for the State-level consumption estimates. Technical notes for State-level prices and expenditures are also available at http://www.eia.doe.gov/emeu/states/seds_tech_notes.html.

Purpose

All of the estimates contained in the State energy consumption data tables are developed using SEDS, which is maintained and operated by EIA. The goal in maintaining SEDS is to create historical time series of energy consumption, prices, and expenditures by State that are defined as consistently as possible over time and across sectors. SEDS exists for two principal reasons: (1) to provide State energy consumption, price and expenditure estimates to Members of Congress, Federal and State

agencies, and the general public and (2) to provide the historical series necessary for EIA's energy models.

System and Report

Efforts are made to ensure that the sums of the State data equal the national totals as closely as possible for each energy type and end-use sector as published in other EIA publications. SEDS State energy consumption estimates are generally comparable to the statistics in the EIA *Annual Energy Review* and the *Monthly Energy Review* consumption tables.

Due to page-size constraints, tables of the State energy consumption in Portable Document Format (PDF) files show data for selected years from 1960 through 1995; thereafter, data are shown consecutively through 2007. However, data for all years from 1960 forward are maintained in SEDS, and are included in the HTML versions of the tables and in the CSV data files available via EIA's website. All years are covered by the documentation in this report.

Extensive documentation is included in the following Technical Notes. The Technical Notes describe how the estimates are derived for each individual energy source and lists the sources of all data series. Appendix A lists alphabetically all of the variable names and formulas used. Appendix B lists the conversion factors used to convert physical units into British thermal units and cites the sources for those factors. Appendix C provides the State resident population statistics that are used in per capita calculations. Appendix D presents the real gross domestic product by State used

to calculate total energy consumption per real dollar of economic output. Appendix E provides metric and other physical conversion factors for measures used in energy analyses. Appendix F summarizes changes in SEDS content made since the last complete release of data, which was in November 2008.

All data with revisions since the last edition of SEDS that are large enough to be seen in the published tables' level of rounding are preceded with an "R" in the PDF data tables on the website.

Data

Estimation Methodologies. Using SEDS, EIA develops estimates of energy consumption by principal energy sources and major end-use sectors, by State, for a 47-year period. Energy consumption is estimated by using data from existing surveys of energy suppliers that report consumption, sales, or distribution of energy at the State level. Most of the SEDS estimates rely directly on collected State-level consumption data (See "Collected Data and Estimated Values in CSEDS" on page 3, which summarizes the status of current data sources used). Some consumption estimates in SEDS are based on a variety of surrogate measures. The measures are selected principally on the basis of applicability as an indicator of consumption, availability, continuity over time, and consistency. For instance, for petroleum, "product supplied" is a surrogate for consumption and is derived by summing field and refinery production, plus imports, minus exports, plus or minus changes in stocks. State-level sales survey data are used to disaggregate the national petroleum product supplied totals to the States. The measures of consumption and estimation methodologies are explained in detail under each energy source in the Technical Notes.

Methods are also applied to estimate State electrical system energy losses that are not available from any survey. See "Energy Consumption Measures—Total and Site" on page 4 for a discussion about losses and how they are reflected in the SEDS tables. U.S. total electrical system energy losses are allocated to each individual State's end-use sectors in proportion to the sectors' electricity sales. The estimation method does not separately identify electrical system energy losses from interstate flow of electricity. Therefore, specific estimates are developed for Alaska and Hawaii and for the 48 contiguous States and the District of Columbia.

Data Sources. The original source documents cited in the Technical Notes include descriptions of the data collection methodologies, universes, imputation or adjustment techniques (if any), and errors associated with the processes. Due to the numerous collection forms and procedures associated with those reports, it is not possible to develop a meaningful numerical estimate of the overall errors of the integrated data published here.

Reliable, consistent series for long periods of time—especially in the earlier years—are difficult to develop, and estimates and assumptions must be applied to fill data gaps and to maintain definitional consistency. Although SEDS incorporates the most consistent series and procedures possible, users of this report should recognize the limitations of the data that are due to changing and inadequate data sources.

For example, in reports prepared by the Bureau of Mines in the late 1960's and early 1970's, petroleum consumption was equated to demand. Later, consumption was equated to apparent demand and, more recently, to product supplied. Changes in surveys and reduction of data collections, especially after 1978, disturbed the continuity of some petroleum consumption series, most notably for distillate fuel, residual fuel, kerosene, and liquefied petroleum gases. These and other data inconsistencies are explained in detail for each energy source in the Technical Notes.

Comparison with Other Energy Consumption Reports

EIA conducts numerous energy-related surveys. In general, the surveys can be divided into two broad groups. One group of surveys, called supply surveys, is directed to the suppliers and marketers of specific energy sources. Those surveys measure the quantities of specific fuels supplied to the market. The results of supply surveys are combined and published in a number of EIA data products, including the *Monthly Energy Review* and SEDS. The second group of surveys, called energy consumption surveys, gather information directly from end users of energy. Although there are some elements in common, the supply survey data and the consumption survey data have substantially different approaches, capabilities, and objectives. Thus, care must be taken in analyzing SEDS consumption estimates in conjunction with consumption survey data for the following reasons:

• SEDS data are designed to be a broad accounting of energy consumption, covering all energy use and splitting it into major sectors as clearly as possible. The energy consumption surveys are designed to

be comprehensive and representative within individual sectors. However, the sectors are restricted for purposes of creating relatively

homogeneous, well-defined populations and for aiding in sampling and data collection. For example, the Commercial Buildings Energy

Collected Data and Estimated Values in SEDS

Coal. U.S. total coal consumption data by sector are taken directly from EIA's *Annual Coal Report (ACR)* and predecessor publications. Total coal consumption by State and for most sectors is from the *ACR*, except where values are withheld and must be estimated. The State-level disaggregation of the *ACR*'s combined residential and commercial sector are estimates. Data on electric power industry coal consumption by State and coal type are from the EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

Natural Gas. Natural gas consumption by State and sector is taken directly from the EIA's *Natural Gas Annual (NGA)*. Natural gas consumed as lease fuel and plant fuel and natural gas delivered to industrial consumers in the *NGA* are combined in SEDS as industrial sector consumption. Natural gas consumed as vehicle fuel and pipeline fuel are combined in SEDS as transportation sector consumption.

Petroleum. U.S. total consumption for each petroleum product is the "product supplied" data from EIA's *Petroleum Supply Annual*. State values for distillate fuel oil, residual fuel oil, and petroleum coke consumption by the electric power industry are unpublished data from the EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. All other State and sector values for consumption of petroleum products are estimates based on sales data from several sources.

Renewable Energy. Solar thermal and photovoltaic energy consumption in the residential and commercial sectors is estimated. Solar energy use in the electric power sector is collected on the EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. The use of **Wind** energy in the electric power sector is also collected on those forms. **Geothermal**

energy direct use and by heat pumps in the residential, commercial, and industrial sectors are estimates based on a survey from the Oregon Institute of Technology Geo-Heat Center. Electricity generated from geothermal energy by the electric power sector is collected on the EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. Hydroelectricity generation by cogenerators in the commercial and industrial sectors is collected on the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms; and generation by the electric power sector is collected on the EIA-906, "Power Plant Report," and predecessor forms. Wood consumption in the residential and commercial sectors are estimates based on data collected on the EIA Form EIA-457 "Residential Energy Consumption Survey" and Form EIA-871 "Commercial Buildings Energy Consumption Survey". Additional wood and waste use for electricity generation by cogenerators in the commercial and industrial sectors and by the electric power sector is collected on the EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. State-level consumption of fuel ethanol, by sector, is estimated, although the U.S. total is collected on several forms and reported in EIA's Renewable Energy Annual.

Nuclear Electric Power. Nuclear electricity generation by State is collected on the EIA-906, "Power Plant Report," and predecessor forms.

Electricity. Electricity consumption is sales data by sector and State from the *EPA* with one exception. The *EPA* "Other" category is allocated to the transportation and commercial sectors in each State is estimated from 1960 through 2002.

Electrical System Energy Losses and Net Interstate Flow of Electricity. These series are estimated in SEDS.

Consumption Survey covers only energy consumption in commercial buildings, while SEDS includes other commercial consumption, such as street lighting and public services; and the Manufacturing Energy Consumption Survey covers only manufacturing establishments, while SEDS includes other industrial energy consumption (i.e., mining, construction, agriculture, fisheries, and forestry). Further, the consumption surveys do not cover all energy-using sectors. Therefore, energy consumption surveys cannot be summed together to account for all energy use.

• Energy consumption surveys provide user characteristics that allow for both macro-level (for major sectoral sub-populations) and micro-level (at the unit of data collection) interpretive analysis. The surveys of energy consumption by residential households from the Residential Energy Consumption Survey (Form EIA-457 series) and by commercial buildings from the Commercial Buildings Energy Consumption Survey (Form EIA-871 series) provide detailed information about the energy end users, their size, their stock of energy-consuming equipment and appliances, and their total energy consumption and expenditures. The Manufacturing Energy Consumption Survey (Form EIA-846 series) collects consumption by type of use and fuel

Energy Consumption Measures—Total and Site

Sources of energy can be categorized as primary and secondary. Primary sources of energy, such as coal, petroleum, and natural gas are consumed directly. Electricity is a secondary form of energy that is created from primary energy sources. The amount of electricity actually consumed by the end user (site consumption) does not include the energy lost in the generation and delivery of the electricity to the point of use.

Primary sources of energy are measured in applicable physical units. Coal is measured by the short ton (equal to 2,000 pounds); petroleum, by the barrel (equivalent to 42 gallons); and natural gas, by the cubic foot. Energy sources are also measured by their heat content, generally expressed in British thermal units (Btu). For example, in 2007, the average short ton of coal consumed by the electric power sector contained 19.908 million Btu (Appendix B Table B13), the average barrel of distillate fuel oil contained 5.825 million Btu (page 158 of Appendix B), and the average cubic foot of natural gas consumed by the electric power sector contained 1,027 Btu (Appendix B Table B3).

Electricity, a secondary form of energy, can also be measured in physical units, commonly kilowatthours, and by heat content. The

conventional thermal conversion factor for electricity consumed by the end user (site consumption) is 3,412 Btu per kilowatthour.

In 2007 the electric power sector consumed 40.6 quadrillion Btu of primary energy in order to provide 12.8 quadrillion Btu of electricity for sale. These data indicate that 68 percent of the primary (embodied) energy in the fuels consumed to generate the electricity was used (or "lost") in converting the primary energy to electricity and transmitting and distributing the electricity to the consumers, and 32 percent was used as site (point-of-use) electricity by consumers.

In evaluating these energy consumption tables, the tables titled "Total Energy Consumption" include all primary energy sources, including those used to generate electricity; the electricity generated is not included. Tables showing "Total End-Use Sector Consumption" include columns for the primary sources and electricity that are consumed by the sector, as well as a column for the estimated energy lost in the electrical system processes. The "Total" column in those tables includes all energy consumed by the sector and the associated energy lost in the generation and transmission of electricity. The column titled "Net" is site energy consumption—that is, the sum of the primary sources and electricity, excluding the electrical system energy losses.

switching capability from manufacturing establishments grouped by manufacturing classification. SEDS, on the other hand, provides limited characterization of the end users of energy but greater geographic and energy product detail, as well as annual historical time series.

- Sectoral classification in SEDS is generally based on supplier classifications of customer accounts, by whatever means suppliers choose to use. (See discussion in next section.) Sectoral classification for the energy consumption surveys is based upon a categorization, verified by end user, of the primary economic activity of the data collection unit (household, building, or establishment).
- The energy consumption surveys provide data at national and Census region and/or Census division levels, whereas the estimates in SEDS are on national and State levels.
- The reference periods are also different in that SEDS covers calendar years from 1960 through 2007, while the consumption surveys are for selected years, and the residential end-use surveys taken prior to 1987 cover a heating season year (i.e., April through March). Beginning with the 1987 residential end-use survey, the reference period is a calendar year.

For a more detailed description of the differences between SEDS and the energy consumption surveys, see the EIA analysis report *Energy Consumption by End-Use Sector: A Comparison of Measures by Consumption and Supply Surveys*, DOE/EIA-0533, April 1990.

Energy Consuming Sectors

The consumption estimates in SEDS are based on data collected by various surveys that do not necessarily define the consuming sectors exactly the same way. The Technical Notes of this report describes in detail for each energy source how the collected data series are combined and assigned to SEDS consuming sectors. To the degree possible, energy consumption in this report has been assigned to the five sectors according to the following general definitions:

• **Residential Sector:** An energy-consuming sector that consists of living quarters for private households. Common uses of energy

associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

- Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.
- Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31–33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.
- Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

• Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. *Note*: This sector includes electric utilities and independent power producers.

Sector Definition Discrepancies. Although the end-use allocations are made according to these aggregations as closely as possible, some data are collected by using different classifications. For example, electric utilities may classify commercial and industrial users by the quantity of electricity purchased rather than by the business activity of the purchaser. Natural gas used in agriculture, forestry, and fisheries was collected and reported in the commercial sector through 1995. Beginning with 1996 data, deliveries of

natural gas for agriculture, forestry, and fisheries are reported in the industrial sector instead. Another example is master-metered condominiums and apartments and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. No adjustments for these discrepancies were made.

SEDS does not provide further disaggregated end-use consumption estimates. For example, the industrial sector cannot be broken down into the chemical or rubber industries, all manufacturing, or agriculture. The input series for the system are provided in broad end-use categories from the data collection forms and are not available by the individual components. Additional disaggregated regional information, such as counties or cities, are also not available from SEDS.

Section 1. Documentation Guide

The following Technical Notes describe how consumption estimates contained in the State Energy Data System (SEDS) are derived. The following six sections, one for each energy source and total energy, provide: descriptions of all the data series that are entered into SEDS; the formulas applied in SEDS for creating additional data series; and notes on special circumstances for any series.

Appendix A is an alphabetical listing of the variable names and formulas used in the system; Appendix B lists the conversion factors used in SEDS to convert physical units into British thermal units and gives the sources for those factors; Appendix C provides the U.S. Department of Commerce, Bureau of the Census, resident population data used in per capita calculations; Appendix D presents the real gross domestic product by State used to calculate total energy per chained (2000) dollar of output; Appendix E provides metric and other physical conversion factors for measures used in energy analyses; and Appendix F summarizes changes in SEDS content made since the last complete release of data.

There are over 400 variables used in SEDS to create the estimates in this report. All of the variables are identified by seven-letter names, such as MGTCPAL. In the following example, MGTCPAL is the identifying code for data on motor gasoline total consumption in physical units in Alabama:

Characters:	MG	TC	P	AL
Positions: Identity:	1 and 2 Type of Energy or Product	3 and 4 Energy activity or consumption end-use sector	5 Type of data	6 and 7 Geographic

The energy sources and products in SEDS, which are represented by the first two letters of the variable name, are:

AB	=	aviation gasoline blending components
ΑI	=	
AR	=	asphalt and road oil
AS	=	asphalt
AV		aviation gasoline
CC	=	coal coke
CG	=	corrugated and solid fiber boxes
CL	=	coal
CO	=	crude oil, including lease condensate
CT	=	catalytic cracking
DF	=	distillate fuel oil
DK	=	distillate fuel oil, including kerosene-type jet fuel
EL	=	electricity
EN	=	fuel ethanol
ES	=	electricity sales
FF	=	fossil fuels
FN	=	petrochemical feedstocks, naphtha less than 401° F
FO	=	percentage recording control one equal to or greater than
		401° F
FS		petrochemical feedstocks, still gas
GE		geothermal energy
G1		geothermal, solar thermal, photovoltaic, and wind energy
HV		conventional hydroelectric power
HY		hydroelectric power, all types
$_{ m JF}$	=	jet fuel
JK	=	jet fuel, kerosene-type
JN	=	jet fuel, naphtha-type
KS	=	kerosene
LG	=	liquefied petroleum gases

= electrical system energy losses

= lubricants

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MB = motor gasoline blending components MG = motor gasoline MS = miscellaneous petroleum products NA = natural gasoline (including isopentane) NG = natural gas (including supplemental gaseous fuels) = natural gas (excluding supplemental gaseous fuels) NU = nuclear electric power OC = organic chemicals OT = other energy, including net electricity imports, energy losses and co-products from the production of fuel ethanol, and an adjustment to remove double-counting of supplemental gaseous fuels = asphalt and road oil, aviation gasoline, kerosene, lubricants, and P1 "other petroleum products" = all petroleum products PA = petroleum coke = paints and allied products PL= plant condensate = other petroleum products PO = pentanes plus

= road oil RD = renewable energy = residual fuel oil = supplemental gaseous fuels

SG = still gas = special naphtha SN

= photovoltaic and solar thermal energy SO

TE = total energy

= total net energy (net of electrical system energy losses) TN

= unfinished oils

= unfractionated stream

WD = woodWS = waste

WW = wood and waste

WX = waxesWY = wind

The consumption end-use sectors, identified by characters three and four of each variable name, such as:

= transportation sector consumption = commercial sector consumption

= electric power sector generation (also consumption)

= electric power sector consumption = industrial sector consumption IC RC = residential sector consumption = total consumption of all sectors

Many other characters occur in the third and fourth positions of the variable names for the sales, deliveries, and distribution data series used in the intermediate calculations in SEDS to derive the end-use consumption estimates. Examples of these codes are:

BK = sales for use in vessel bunkering

= capacity

= lease and plant fuel

= deliveries to the industrial sector OD = distribution to other industrial users

VA = value-added in manufacture

Combining the first two components (the first four letters) produces variable names, such as:

RFBK = residual fuel oil sold for vessel bunkering

RFAC = residual fuel oil consumed by the transportation sector NGIN = natural gas (including supplemental gaseous fuels) delivered

to the industrial sector

NGIC = natural gas (including supplemental gaseous fuels) consumed

by the industrial sector

The fifth character of the variable names in SEDS identifies the type of data by using one of the following letters:

= data in British thermal units (Btu)

= factor for converting data from physical units to Btu

= data in alternative physical units = data in standardized physical units = share or ratio expressed as a fraction

= value in million dollars

In general, Data entered into SEDS are in physical units, represented by a "P" in the fifth character; for example, coal data are in thousand short tons, petroleum data are in thousand barrels, and natural gas data are in million cubic feet. In a few cases, data are obtained from the source documents in different units, such as thousand gallons instead of thousand

barrels, and are represented by an "M" until converted in SEDS to the unit that is consistent with other variables. Conversion factors, represented by a "K" in the fifth character, are applied to the physical unit data to convert the data to British thermal units, a common unit for all forms of energy. The derived data series in thousand British thermal units are represented by "B" in the fifth character. In a few cases, consumption estimates are derived by calculating shares of aggregated consumption data. The fractions used to calculate the consumption shares are identified by an "S" in the fifth character. The consumption estimates for some petroleum products are based on the value added in the manufacturing process by related industries in each State. The data series for those industry activities are in million dollars, and the variable names contain "V" in the fifth character.

There are a few variables that do not follow the convention:

TPOPP = resident population

GDPRX = real gross domestic product

TETGR = total energy consumption per real dollar of GDP

Per capita consumption is represented by "TP" in the third and fourth positions of the variable name.

The last two characters of each variable name are for geographic identification. Geographic areas used in SEDS are the 50 States and the District of Columbia (represented by the U.S. Postal Service State abbreviations) and the United States as a whole. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia, and the variables used in those calculations are identified by "48" in the last two characters of the names. The geographic area codes used in SEDS are shown in Table TN1.

Throughout this report, the term "State" includes the District of Columbia. Throughout this documentation, "ZZ" is used as a geographic identifier to represent the different State abbreviations that would be interchanged in that position of the variable name.

Table TN1. Geographic Area Codes Used in the State Energy Data System

Code	State	Code	State
AK	Alaska	NC	North Carolina
AL	Alabama	ND	North Dakota
AR	Arkansas	NE	Nebraska
AZ	Arizona	NH	New Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NV	Nevada
DC	District of Columbia	NY	New York
DE	Delaware	ОН	Ohio
FL	Florida	OK	Oklahoma
GA	Georgia	OR	Oregon
HI	Hawaii	PA	Pennsylvania
IA	Iowa	RI	Rhode Island
ID	Idaho	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	TN	Tennessee
KS	Kansas	TX	Texas
KY	Kentucky	UT	Utah
LA	Louisiana	VA	Virginia
MA	Massachusetts	VT	Vermont
MD	Maryland	WA	Washington
ME	Maine	WI	Wisconsin
MI	Michigan	WV	West Virginia
MN	Minnesota	WY	Wyoming
MO	Missouri	US	United States
MS	Mississippi	48	The contiguous 48 States
MT	Montana		and the District of Columbia

Section 2. Coal

Coal Consumption

Physical Units

Nine data series are used to estimate State coal consumption. Most are U.S.-level consumption and comparable State-level distribution data, and are in units of thousand short tons. "ZZ" in the variable names is used to represent the two-letter State code that differs for each State:

CLACPUS	= coal consumed by the transportation sector in the United States;
CI EID77	,
CLEIPZZ	= coal consumed by the electric power sector in each State;
CLHCPUS	= coal consumed by the residential and commercial sectors
	in the United States;
CLHDPZZ	= coal distributed to the residential and commercial sectors
	in each State;
CLKCPUS	= coal consumed by coke plants in the United States;
CLKDPZZ	= coal distributed to coke plants in each State;
CLOCPUS	= coal consumed by other industrial users in the United
	States;
CLODPZZ	= coal distributed to other industrial users in each State; and
CLRCSUS	= the residential share of combined residential and commer-
	cial coal consumption.

The U.S. totals for the four State-level series are calculated by summing the State data.

State estimates of coal consumed by the residential and commercial sectors combined are made by assuming that coal is consumed in proportion to the amount of coal distributed to the residential and commercial sectors in each State:

CLHCPZZ = (CLHDPZZ/CLHDPUS) * CLHCPUS

Coal consumed by the residential and commercial sectors is reported combined and little information exists for disaggregating the combined sectors' data. The Energy Information Administration (EIA) estimates that a decreasing percentage of the combined total is consumed in the residential sector as shown in Table TN2. This estimated percentage is applied to the residential and commercial sectors' total to estimate residential consumption and the remaining quantity is assumed to be commercial use:

CLRCPZZ = CLHCPZZ * CLRCSUS

CLRCPUS = Σ CLRCPZZ

CLCCPZZ = CLHCPZZ - CLRCPZZ

CLCCPUS = Σ CLCCPZZ

Table TN2. Residential Sector Share of Combined Residential and Commercial Coal Consumption, 1960 Forward

Years	CLRCSUS	Years	CLRCSUS	Years C	LRCSUS
1960–1962	0.59	1979	0.20	1994	0.15
1963, 1964	0.58	1980	0.21	1995	0.13
1965-1967	0.57	1981	0.18	1996	0.12
1968-1970	0.56	1982	0.17	1997, 1998	0.11
1971	0.49	1983	0.16	1999	0.12
1972	0.43	1984	0.19	2000, 2001	0.11
1973	0.37	1985	0.22	2002	0.12
1974	0.32	1986, 1987	0.23	2003	0.13
1975	0.30	1988	0.22	2004	0.10
1976	0.29	1989	0.21	2005	0.08
1977	0.28	1990	0.20	2006	0.09
1978	0.23	1991–1993	0.18	2007	0.10

To gain a perspective on these estimates: coal consumed by residential and commercial users combined in 2007 accounted for only 0.3 percent of all coal consumed—that is, 3 million short tons out of the 1,128 million short tons consumed in 2007.

Consumption in the industrial sector is reported for the U.S. and estimated by State. An assumption is made that coal is consumed by coke plants in proportion to the amount of coal distributed to coke plants in each State. It also is assumed that the consumption of coal by industrial users other than coke plants is in proportion to the amount of coal delivered to the other industrial users in each State. The industrial sector consumption is the sum of coal consumed by coke plants and other industrial users in each State:

CLKCPZZ = (CLKDPZZ/CLKDPUS) * CLKCPUS CLOCPZZ = (CLODPZZ/CLODPUS) * CLOCPUS CLICPZZ = CLKCPZZ + CLOCPZZ

There are no data available for estimating the transportation sector's consumption of coal by State. The quantity would be very small. The transportation sector accounted for only 1 percent of the national total consumption in 1960 and none since 1978. An assumption is made that when transportation sector consumption exists, the consumption by State, CLACPZZ, is in proportion to the share of the U.S. industrial sector attributed to each State:

CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS

Total consumption in each State, CLTCPZZ, is the sum of the sectors' consumption:

CLTCPZZ = CLRCPZZ + CLCCPZZ + CLICPZZ + CLACPZZ + CLEIPZZ

The U.S. total consumption estimates for each of the sectors and the total are calculated as the sum of the States' values.

British Thermal Units (Btu)

Five factors are used to convert coal from physical units to Btu:

CLACKZZ = the factor for converting coal consumed by transportation sector in each State from short tons to Btu;

CLEIKZZ = the factor for converting coal consumed by the electric power sector in each State from short tons to Btu;

CLHCKZZ = the factor for converting coal consumed by the residential and commercial sectors in each State from short tons to Btu; and

CLKCKZZ = the factor for converting coal consumed at coke plants in each State from short tons to Btu; and

CLOCKZZ = the factor for converting coal consumed by other industrial users in each State from short tons to Btu.

The electric power sector conversion factor for each State is applied to the physical unit value to estimate coal consumed in Btu:

CLEIBZZ = CLEIPZZ * CLEIKZZ

The residential and commercial sectors' State conversion factor is applied to the physical unit values to estimate coal consumed by the two sectors in Btu:

CLRCBZZ = CLRCPZZ * CLHCKZZ CLCCBZZ = CLCCPZZ * CLHCKZZ

The industrial sector Btu consumption is estimated in three steps. Coal consumed at coke plants and by all industrial users other than coke plants are converted to Btu using their individual State conversion factors. The industrial sector consumption in Btu is then calculated as the sum of the two industrial components:

CLKCBZZ = CLKCPZZ * CLKCKZZ CLOCBZZ = CLOCPZZ * CLOCKZZ CLICBZZ = CLKCBZZ + CLOCBZZ

The transportation sector conversion factor for each State is applied to the physical unit value to estimate coal consumed in Btu:

CLACBZZ = CLACPZZ * CLACKZZ

Total consumption for each State is the sum of the sectors' consumption:

The U.S. consumption estimates in Btu are calculated by summing the State values for each of the data series. The U.S. average conversion factor for each of the five factors is calculated as the U.S. consumption in Btu divided by the U.S. consumption in physical units for each of the factors.

Additional Notes for Coal

1. The national-level coal consumption data series for the residential and commercial sectors (CLHCPUS), coke plants (CLKCPUS), and industries other than coke plants (CLOCPUS) are from a continuous data source. However, the data series used to develop State-level allocators by end-use sector (CLHDPZZ, CLKDPZZ and CLODPZZ) vary for different time periods.

For 1960 through 1979, U.S. coal consumption is allocated by State based on the proportion of coal distributed to each State.

Beginning with 1980, State-level total coal consumption data are available; however, many of these data are withheld at the sector level. Withheld data are estimated by substituting residential and commercial coal distribution data for residential and commercial coal consumption. In many States, this leaves only one other sector withheld, which is derived by subtracting the other known sectors from the State total. In some cases withheld Census division values need to be subtracted out from known U.S. totals before the State-level estimates can be derived.

Beginning with 2001, additional State coal consumption values are withheld, making it no longer possible to subtract out estimates of coal consumed by coke plants for some States. To estimate the withheld consumption values, the known State-level coke plant coal consumption values are subtracted from the known Census division totals leaving a value to be distributed to the States that have withheld values in that division. Data for the same States from a different EIA data series on distribution of coal to coke plants are used to estimate the withheld consumption data. Distribution data for the three

years prior to the year being estimated are summed for each State and its division and each State's share of its division subtotal is used to allocate the withheld coke plant coal consumption to that State. For 2001, Utah was grouped with New York and Pennsylvania to create the subtotal used in the percentage calculations.

In 2006 and 2007, data for coal consumed by other industrial users (all industrial users except coke plants) are withheld for Hawaii and Oregon, making it impossible to estimate these States' coal use in this sector using the method described above. Instead, an estimate for the two States combined is derived by subtracting coal use in this sector in all other Pacific Census Division States from the Pacific Census Division total. The average Hawaii and Oregon other industrial sector shares (relative to each other) for 2002-2004 are then applied to the combined estimate to derive each State's other industrial sector consumption estimate in 2006 and 2007.

These derived series for the residential/commercial, coke plant, and other industrial sectors are used in SEDS as the distribution data series to calculate coal consumption estimates by State and sector that are consistent with State-level total coal consumption data published in other EIA reports.

- 2. Total coal consumption by State for 1980 through 1989 published in the EIA *Quarterly Coal Report* do not sum to the U.S. totals due to a quantity called "Unknown" in the source tables. This unknown coal consumption is added to the residential, commercial, and "other industrial" sectors of Alabama, Illinois, Kentucky, Pennsylvania, Tennessee, and West Virginia in proportion to their total distribution of all coal.
- State include several groupings of States for which separate State data are not available. These groupings are: (1) Maine, New Hampshire, Vermont, and Rhode Island; (2) North Dakota and South Dakota; (3) Delaware and Maryland; (4) Georgia and Florida; (5) Alabama and Mississippi; (6) Arkansas, Louisiana, Oklahoma, and Texas; (7) Montana and Idaho; (8) Arizona and Nevada; and (9) Washington and Oregon. Beginning with 1974, individual State distribution data became available. To estimate the 1960 through 1973 State distribution data, the States are disaggregated in proportion to the individual States' shares of each similar State grouping in 1974.

4. The sources used to develop thermal conversion factors for bituminous coal and lignite consumed by the electric power sector—the National Coal Association report and the Federal Power Commission's (FPC) Form 423 and FERC Form 423 published in the *Cost and Quality of Fuels at Electric Utility Plants*—exclude Alaska. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years, 1960 forward. Unpublished FPC heat rates for coal at electric utilities in Alaska were used for 1960 through 1972. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1973 through 1978. According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 through 1997. For 1998 forward, the Alaska factor is calculated using the same methodology as used for other States described on page 15.

Data Sources for Coal

CLACKZZ — Factor for converting coal consumed by the transportation sector from physical units to Btu by State.

- 1960 through 1977: Assumed by EIA to be equal to the Btu conversion factor for bituminous coal and lignite consumption by industrial users other than coke plants:
 - 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average.
 - 1974 through 1977: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.

• 1978 forward: Transportation sector coal is included in the other industrial category. Zero is entered for this variable.

CLACPUS — Coal consumed by the transportation sector in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, chapter "Coal-Bituminous and Lignite," table titled, "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States," column "Bunker, lake vessel and foreign."
- 1976 and 1977: EIA, *Energy Data Reports*, "Coal-Bituminous and Lignite," table titled, "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States," column "Bunker, lake vessel and foreign."
- 1978 forward: Small amounts of bituminous coal and lignite consumed by the transportation sector are included in the other industrial category (see CLOCPUS). Zero is entered for this variable.

CLEIKZZ — Factor for converting coal consumed by the electric power sector from physical units to Btu by State.

• 1960 through 1988: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

- 1960 through 1972: EIA assumed that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and was estimated to have an average heat content of 17.500 million Btu per short ton.
- 1973 through 1988: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. These data are reported on the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms.

Bituminous coal and lignite conversion factors:

- 1960 through 1972: EIA adopted the average thermal conversion factor of the Bureau of Mines, which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from FPC Form 1 and published in *Steam Electric Plant Factors*, an NCA annual report. The specific tables are:
 - 1960 and 1961: Table 1.

- 1962 through 1972: Table 2.
- 1973 through 1982: The average heat content of coal received at steam electric plant 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, Cost and Quality of Fuels for Electric Utility Plants, tables titled "Destination and Origin of Coal 'Delivered to' (1973–1979) 'Receipts to' (1980) 'Received at' (1981–1982) Steam-Electric Plants 25-MW or Greater."
- 1983 through 1988: The average heat content of coal received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published in Btu per pound in the EIA, Cost and Quality of Fuels for Electric Utility Plants. The specific tables are:
 - 1983 and 1984: Table 58.
 - 1985 through 1988: Table 48.

Note: The State conversion factors for 1960 through 1972 are derived from actual consumption data, while the conversion factors for 1973 to 1988 are based on receipts of coal. The factors for 1960 through 1972 also may include some quantities of anthracite. These breaks in the series create some data discrepancies. In instances where a State had no receipts for a particular year but did report consumption, it is assumed that the coal received in one year is consumed during the following year and the Btu value of the previous year's receipts is used. See Additional Note 4 on page 14 for Alaska calculations.

• 1989 forward: Calculated by dividing the total heat content of coal received at electric power plants (including electric utilities, nonutility power plants and combined heat-and-power plants) by the total quantity consumed in physical units collected on Forms EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906-920.html. See Additional Note 4 on page 14 for Alaska factors.

CLEIPZZ — Coal consumed by the electric power sector by State.

• EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906_920.html.

CLHCKZZ — Factor for converting coal consumed by the residential and commercial sectors from physical units to Btu by State.

• 1960 through 1997: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and State-level

bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

— Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous coal and lignite conversion factors:

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960 through 1973 national averages for the sector to its 1974 average.
- 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to the residential and commercial sector in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.
- 1998 through 2000: Calculated by EIA from the average heat content of coal received for the residential and commercial sectors combined as reported on Form EIA-860, "Annual Electric Generator Report." For States that are not represented in data on the Form EIA-860, it is assumed that the heat content of the coal receipts in residential and commercial sectors are equivalent to the heat content of coal received in the other industrial sector as reported on Form EIA-3A, "Annual Coal Quality Report—Manufacturing." For States that are not represented in either Form EIA-3A data or Form EIA-860 data (CT, NH, RI, VT and DC), the heat content of coal receipts in MA is used for CT, NH, RI and VT and the heat content of coal receipts in MD is used for DC, since the origin of the coal receipts are similar.

• 2001 forward: Calculated by EIA from the coal distribution data reported on Form EIA-6A, "Coal Distribution Report - Annual," and the average heat content of coal reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants." Form EIA-6A provides distribution data for the combined residential and commercial sectors by State of origin to the destination State. FERC Form 423 and Form EIA-423 provide the average heat content of coal produced in the State of origin.

CLHCPUS — Coal consumed by the residential and commercial sectors in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, Chapter "Coal-Pennsylvania Anthracite Annual" and Chapter "Coal-Bituminous and Lignite," Table titled, "Consumption of bituminous coal and lignite, by consumer class, with retail deliveries in the United States" column titled "Retail deliveries to other consumers" or "Retail sales."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1990, 1992 through 1995: EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1988 final data are published in the *Quarterly Coal Report, October–December 1989.* The specific tables are:
 - 1988 through 1990: Table 29.
 - 1992 through 1994: Table 51.
 - 1995: Table 43.
- 1991, 1996 through 1999: EIA, Coal Industry Annual 2000, Table 75.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Annual Coal Report*, Table 26, http://www.eia.doe.gov/cneaf/coal/page/acr/table26.html and http://www.eia.doe.gov/cneaf/coal/page/acr/back issues.html. Data are from the report of the following year (e.g. final 2005 data in *Annual Coal Report 2006*), except the most recent year of data.

CLHDPZZ — Coal distributed to the residential and commercial sectors by State.

• 1960 through 1979: No data available. The 1980 State data are used for years 1960 through 1979.

- 1980 forward: The distribution data are published in:
 - 1980 through 1984: EIA, Coal Distribution, January-December 1984, Table 21.
 - 1985 through 1989: EIA, Coal Distribution, January-December 1989, Table 15.
 - 1990 and 1991: EIA, *Coal Distribution, January-December* for each year, Table 16.
 - 1992 through 1994: EIA, *Quarterly Coal Report, October-December* for the following year, Table 10.
 - 1995 through 1997: Unpublished data from Form EIA-6.
 - 1998 through 2000: EIA, *Coal Industry Annual* for each year, Table 64.
 - 2001 forward: EIA, Domestic Distribution of U.S. Coal by Destination State, Consumer, Destination and Method of Transportation, http://www.eia.doe.gov/cneaf/coal/page/coaldistrib/coal_distributions.html.

CLKCKZZ — Factor for converting coal carbonized at coke plants from physical units to Btu by State.

• 1960 through 1997: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

— Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous coal and lignite conversion factors:

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite," sum of columns "Beehive coke plants" and "Oven coke plants."
- 1973 through 1984: EIA, *Weekly Coal Production*, August 9, 1986, Table 8.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 7.
- 1988 through 1997: EIA, Unpublished data from Form EIA-5, "Coke Plant Report, Quarterly."

- 1998 through 2000: Calculated by EIA for 1998 using unpublished data from Form EIA-5, "Coke Plant Report, Quarterly." The 1998 State factors are used for 1999 and 2000.
- 2001 forward: Calculated by EIA from data reported on Form EIA-5, "Quarterly Coal Consumption and Quality Report, Coke Plants." Coke plant data on tons of coal carbonized to create coke, the volatilities of the coal carbonized, and conversion factors based on coal volatility are used to calculate average conversion factors by State.

CLKCPUS — Coal carbonized by coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, chapter "Coal-Pennsylvania Anthracite Annual," and chapter "Coal-Bituminous and Lignite," table titled, "Consumption of Bituminous coal and lignite, by consumer class, and retail deliveries in the United States," sum of columns titled "Beehive coke plants" and "Oven coke plants."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1995: EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1988 final data are published in the *Quarterly Coal Report, October–December 1989. The specific tables are:*
 - 1988 through 1990: Table 27.
 - 1991 through 1994: Table 48.
 - 1995: Table 40.
- 1996 through 1999: EIA, Coal Industry Annual 2000, Table 73.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Annual Coal Report*, Table 26, http://www.eia.doe.gov/cneaf/coal/page/acr/table26.html and http://www.eia.doe.gov/cneaf/coal/page/acr/back issues.html. Data are from the report of the following year (e.g. final 2005 data in *Annual Coal Report 2006*), except the most recent year of data.

CLKDPZZ — Coal distributed to coke plants by State.

• 1960 through 1979: Series is the sum of an anthracite data series and a bituminous coal and lignite data series:

Anthracite:

 No data available. The 1980 State data are used for years 1960 through 1979.

Bituminous coal and lignite:

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coal-Bituminous and Lignite."
- 1977 through 1979: EIA, *Energy Data Reports*, "Coal-Bituminous and Lignite." The specific tables are:
 - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
 - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
 - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
- 1980 forward: Consumption data became available for some States and are used for this distribution series when available. See Additional Note 1 on page 13 for an explanation of the estimation methodology.
 - 1980 through 1995: EIA, *Quarterly Coal Report, October-December* for each year. Data are from the report of the following year, i.e., 1982 final data are published in the *Quarterly Coal Report, October-December 1983*. The specific tables are:
 - 1980: Unpublished data.
 - 1981 through 1983: Table 25.
 - 1984, 1985, and 1987: Table 27.
 - 1986, 1988, and 1989: Unpublished State revisions that are components of the U.S. revisions published in the *Quarterly Coal Report, October-December 1991*, Table 45.
 - 1990: Table 27.
 - 1991 through 1994: Table 48.
 - 1995: Table 40.
 - 1996 through 1999: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Coal Industry Annual 2000*, Table 73.
 - 2000: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Annual Coal Report 2001*, Table 27.

— 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.doe.gov/cneaf/coal/page/acr/table26.html and http://www.eia.doe.gov/cneaf/coal/page/acr/backissues.html. Data are from the report of the following year (e.g. final 2005 data in Annual Coal Report 2006), except the most recent year of data. EIA, Domestic Distribution of U.S. Coal by Destination State, Consumer, Destination and Method of Transportation, http://www.eia.doe.gov/cneaf/coal/page/coaldistrib/coaldistributions.html.

CLOCKZZ — Factor for converting coal consumed by industrial users other than coke plants from physical units to Btu by State.

• 1960 through 1997: Calculated by EIA as the consumption-weighted average of national level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS.

Anthracite conversion factors:

— Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for."

Bituminous coal and lignite conversion factors:

- 1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average.
- 1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted

- average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q.
- 1998 through 2000: Calculated by EIA from unpublished data as the average heat content of coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal reported on Form EIA-3A, "Annual Coal Quality Report—Manufacturing Plants."
- 2001 forward: Calculated by EIA using unpublished data as the average heat content of (1) coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing Plants," and predecessor forms; (2) coal distributed to agricultural, mining, and construction sectors reported on Form EIA-6A, "Coal Distribution Report Annual" with heat contents for the coal producing State reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants;" and (3) coal consumed by coal mining facilities reported on Form EIA-7A, "Coal Production Report," with heat contents for the coal producing State reported on FERC Form 423 and Form EIA-423.

CLOCPUS — Coal consumed by industrial users other than coke plants in the United States.

- 1960 through 1972: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, Chapter "Coal–Pennsylvania Anthracite, Annual" and chapter "Coal–Bituminous and Lignite," table titled "Consumption of bituminous coal and lignite, by consumer class, and retail deliveries in the United States." Sum of columns titled "Steel and rolling mills," "Cement mills," and "Other manufacturing and mining industries."
- 1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 7.
- 1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 6.
- 1988 through 1999: EIA, *Quarterly Coal Report, October–December* for each year. Data are from the report of the following year, i.e., 1988 final data are published in the *Quarterly Coal Report, October–December 1989*. The specific tables are:
 - 1988 through 1990: Table 28.
 - 1991 through 1994: Table 49.

- 1995: Table 41.
- 1996 through 1999: Table 42.
- 2000: EIA, Annual Coal Report 2001, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Annual Coal Report*, Table 26, http://www.eia.doe.gov/cneaf/coal/page/acr/table26.html and http://www.eia.doe.gov/cneaf/coal/page/acr/back issues.html. Data are from the report of the following year (e.g. final 2005 data in *Annual Coal Report 2006*), except the most recent year of data.

CLODPZZ — Coal distributed to industrial plants (other than coke plants) by State.

• 1960 through 1979: Series is the sum of an anthracite data series and a bituminous coal and lignite data series:

Anthracite:

No data available. The 1980 State data are used for years 1960 through 1979.

Bituminous coal and lignite:

- 1960 through 1976: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coal–Bituminous and Lignite."
- 1977 through 1979: EIA, *Energy Data Reports*, "Coal-Bituminous and Lignite." The specific tables are:
 - 1977: "Comparative Summary of Distribution of Bituminous Coal and Lignite Produced in the United States During the First Nine Months of 1977" and "Distribution of Bituminous Coal and Lignite Produced in the United States During October-December 1977, by Geographic Division and State Destination."
 - 1978: "Distribution of Bituminous Coal and Lignite Produced in the United States."
 - 1979: "Overall Summary of Distribution of Bituminous, Subbituminous, and Lignite Coal Produced in the United States."
- 1980 forward: Consumption data became available for some States and are used for this distribution series when available. See Additional Note 1 on page 13 for an explanation of the estimation methodology.
 - 1980 through 1995: EIA, *Quarterly Coal Report, October-December* for each year. Data are from the report of the following year, i.e., 1982 final data are published in the *Quarterly Coal Report, October-December 1983*. The specific tables are:

- 1980: Unpublished data.
- 1981 through 1983: Table 26.
- 1984 through 1990: Table 28.
- 1991 through 1994: Table 49.
- 1995: Table 41.
- 1996 through 1999: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Coal Industry Annual 2000*, Table 71.
- 2000: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, *Annual Coal Report 2001*, Table 27.
- 2001 forward: EIA, unpublished data in short tons as published rounded to thousand short tons in EIA, Annual Coal Report, Table 26, http://www.eia.doe.gov/cneaf/coal/page/acr/table26.html and http://www.eia.doe.gov/cneaf/coal/page/acr/backissues.html. Data are from the report of the following year (e.g. final 2005 data in Annual Coal Report 2006), except the most recent year of data.

CLRCSUS — Residential sector share of coal consumed by the residential and commercial sectors combined.

• 1960 forward: Calculated by EIA. It is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1960, 1970, 1973 through 1981, and subsequent odd-numbered years), residential use of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of housing units heated by oil; the ratio is multiplied by the Btu quantity of distillate fuel oil used by the residential sector to estimate the Btu quantity of coal used by the residential sector; and the residential sector's share of residential and commercial use is calculated. The missing years' shares are interpolated.

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Net Imports of Coal Coke

Physical Units

Net imports of coal coke is a component of total U.S. energy consumption. There is no attempt to estimate State allocations of this energy source and all of it is considered to be used by the industrial sector. Net imports of coal coke are included in the U.S. data but not in the State-level data in all tables of total energy consumption and industrial sector energy consumption. Variables for net imports of coal coke into the United States are:

CCIMPUS = coal coke imported into the United States, in thousand

short tons; and

CCEXPUS = coal coke exported from the United States, in thousand

short tons.

Net imports is calculated:

CCNIPUS = CCIMPUS - CCEXPUS

British Thermal Units (Btu)

The factor for converting coal coke from short tons to Btu is 24.80 million Btu per short ton:

CCIMBUS = CCIMPUS * 24.80 CCEXBUS = CCEXPUS * 24.80 CCNIBUS = CCIMBUS - CCEXBUS

Data Sources for Net Imports of Coal

CCEXPUS — Coal coke exported from the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, *Energy Data Reports*, "Coke and Coal Chemicals Monthly."

- 1980 through 1990: EIA, *Quarterly Coal Report* (October–December of the following year). The specific tables are:
 - 1980: Table 7.
 - 1981 through 1984: Table A10.
 - 1985 through 1990: Table A9.
- 1991 and 1992: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System.
- 1993 through 1997: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System, as published rounded in the EIA, *Quarterly Coal Report October–December 1999*, Table 2.
- 1998 forward: EIA, *Quarterly Coal Report* (October–December of the following year), Table 15 (1998 and 1999), Table 16 (2000), Table 17 (2001 through 2005), and Table 14 (2006 and 2007), http://tonto.eia.doe.gov/FTPROOT/coal/qcrhistory.htm.

CCIMPUS — Coal coke imported into the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals Annual."
- 1976 through 1979: EIA, *Energy Data Reports*, "Coke and Coal Chemicals Monthly."
- 1980 through 1990: EIA, *Quarterly Coal Report* (October–December of the following year). The specific tables are:
 - 1980: Table 8.
 - 1981 through 1984: Table A12.
 - 1985 through 1987: Table A11.
 - 1988 through 1990: Table A10.
- 1991 and 1992: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System.
- 1993 through 1997: Unpublished revisions from the EIA, Office of Energy Markets and End Use, Integrated Modeling Data System, as published rounded in the EIA, *Quarterly Coal Report October–December 1999*, Table 2.
- 1998 forward: EIA, *Quarterly Coal Report* (October–December of the following year), Table 19 (1998 and 1999), Table 20 (2000), Table 21 (2001 through 2005), and Table 18 (2006 and 2007), http://tonto.eia.doe.gov/FTPROOT/coal/qcrhistory.htm.

Section 3. Natural Gas

Physical Units

Eight natural gas data series are used to derive the natural gas consumption estimates in the State Energy Data System (SEDS). Four of these data series are deliveries of natural gas to the end user by State and are used as consumption because actual consumption data at these levels are not available. The sources for the natural gas data are the *Natural Gas Annual* and *Electric Power Annual* published by the Energy Information Administration (EIA) and its predecessors. For 1989 forward these data are available via EIA's Natural Gas Navigator on the Internet. These series, in million cubic feet, for each State are as follows (the two-letter State code is represented by "ZZ" in the following variable names):

NGCCPZZ = natural gas delivered to the commercial sector (includes

gas used by nonmanufacturing organizations, such as hotels, restaurants, retail stores, laundries, and other service enterprises) plus natural gas delivered to other consumers (includes deliveries to municipalities and public authorities for institutional heating and street lighting). Prior to 1996, includes gas used in agriculture, forestry, and fisher-

ies;

NGEIPZZ = natural gas consumed by the electric power sector;

NGINPZZ = a portion of the natural gas delivered to the industrial sec-

tor (includes gas used as fuel and feedstock in chemical plants and to produce carbon black). Beginning in 1996, includes gas used in agriculture, forestry, and fisheries;

NGLEPZZ = natural gas consumed as lease fuel; NGPLPZZ = natural gas consumed as plant fuel;

NGPZPZZ = natural gas consumed as pipeline fuel; NGRCPZZ = natural gas delivered to the residential sector; and

NGVHPZZ = natural gas consumed as vehicle fuel.

The U.S. totals of these independent variables are calculated as the sum of the States' values.

The data are combined into the four major end-use sectors used in SEDS as closely as possible. However, natural gas data are collected using different aggregations of users. The industrial sector in SEDS is intended to contain energy used in agriculture, forestry, and fisheries. For natural gas, these categories are reported with commercial use of natural gas through 1995 and in the industrial sector for 1996 forward. These data cannot be separately identified and no adjustment for this end-use inconsistency is made in SEDS.

The residential sector's consumption of natural gas is represented by the variable for deliveries to the residential sector, NGRCPZZ.

The commercial sector's consumption of natural gas is represented by the variable for deliveries to the commercial sector, NGCCPZZ.

The industrial sector's consumption of natural gas in SEDS, NGICPZZ, is estimated to be the sum of natural gas delivered to the industrial sector, NGINPZZ, natural gas consumed as lease fuel, NGLEPZZ, and natural gas consumed as plant fuel, NGPLPZZ. SEDS contains lease and plant fuel data combined for 1960 through 1982; the combined data series is stored as NGLEPZZ. Beginning in 2001, Federal Offshore natural gas lease fuel for Alabama, Louisiana, and Texas are reported combined. See "Additional Notes" on page 23 for the method of estimating the individual State values.

NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ

The transportation sector's consumption of natural gas, NGACPZZ, is the sum of natural gas consumed in pipeline operations, primarily in compressors, NGPZPZZ, and natural gas consumed as vehicle fuel, NGVHPZZ. Prior to 1990, the small amounts of natural gas consumed as vehicle fuel are included in the commercial sector consumption and cannot be identified separately; therefore, NGVHPZZ is zero prior to 1990.

NGACPZZ = NGPZPZZ + NGVHPZZ

Electric power sector's consumption of natural gas is represented by the data series NGEIPZZ.

The total consumption of natural gas, estimated for each State, is the sum of the consumption by the end-use sectors and for electricity generation:

NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEIPZZ

The U.S. consumption estimates for each of the sectors and the U.S. total are calculated as the sum of the States' values.

British Thermal Units (Btu)

Three factors for each State are used for converting the consumption of natural gas from its physical units of million cubic feet into thousand Btu per cubic foot. Two of these State-level factors are:

NGEIKZZ = The factor for converting natural gas consumed by the

electric power sector from physical units to Btu; and

NGTCKZZ = The factor for converting natural gas consumed by all sectors from physical units to Btu.

These two factors are used to derive a third factor, NGTXKZZ, for converting natural gas used by all sectors other than electric power from physical units to Btu:

NGTCBZZ = NGTCPZZ * NGTCKZZ

NGEIBZZ = NGEIPZZ * NGEIKZZ

NGTXKZZ = (NGTCBZZ – NGEIBZZ) / (NGTCPZZ – NGEIPZZ)

Natural gas consumption in Btu for the residential, commercial, industrial, and transportation sectors in each State is calculated by multiplying the physical unit data by the factor NGTXKZZ, such as:

NGACBZZ = NGACPZZ * NGTXKZZ NGCCBZZ = NGCCPZZ * NGTXKZZ The U.S. consumption estimates in Btu for each of the sectors and the U.S. total are calculated as the sum of the States' Btu values, such as:

 $NGTCBUS = \Sigma NGTCBZZ$ $NGEIBUS = \Sigma NGEIBZZ$ $NGACBUS = \Sigma NGACBZZ$ $NGCCBUS = \Sigma NGCCBZZ$

Prior to 1972, conversion factors for natural gas consumed for electricity generation were not collected; therefore, the factor for all natural gas consumed (NGTCKZZ) is used for electric power (NGEIKZZ) and for the other sectors (NGTXKZZ) for 1963 through 1971. Prior to 1963, State-level conversion factors for natural gas consumption were not collected and a standard factor of 1.035 thousand Btu per cubic foot is used for all sectors in all States.

Supplemental Gaseous Fuels

Natural gas consumption contains a small amount of supplemental gaseous fuels (SGF). These fuels are introduced into or commingled with natural gas, and increase the volume available for disposition. Such fuels include, but are not limited to, synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas. Because SGF are mostly derived from fossil fuels, which are already accounted for, they are removed from total energy consumption in Btu (see Sections 6 and 7) to eliminate any double counting.

Annual data on SGF supplies in physical units are available for each State from 1980 forward in EIA's *Natural Gas Annual*. For all States except North Dakota, this data series is used to approximate SGF contained in the natural gas delivered to users. See "Additional Note 2" on page 23 for the method of assigning North Dakota SGF supplies to North Dakota and other States for consumption. Unknown quantities of SGF are included in the Btu consumption data for 1979 and earlier years.

NGSFPZZ = supplemental gaseous fuels supplies by State in million cubic feet.

It is assumed that SGF are commingled with natural gas consumed by the commercial, other industrial, residential, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel,

pipelines, or vehicle fuel. The estimated consumption of SGF within each sector is calculated using the sector's natural gas consumption share.

NGTZPZZ = NGCCPZZ + NGINPZZ + NGRCPZZ + NGEIPZZ

SFCCPZZ = NGSFPZZ * (NGCCPZZ / NGTZPZZ) SFINPZZ = NGSFPZZ * (NGINPZZ / NGTZPZZ) SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ) SFEIPZZ = NGSFPZZ * (NGEIPZZ / NGTZPZZ)

To convert SGF from physical units to Btu, the appropriate natural gas conversion factors are used:

SFCCBZZ = SFCCPZZ * NGTXKZZ SFINBZZ = SFINPZZ * NGTXKZZ SFRCBZZ = SFRCPZZ * NGTXKZZ SFEIBZZ = SFEIPZZ * NGEIKZZ

Total SGF consumed by State in Btu is equal to the sum of the four sectors with SGF:

SFTCBZZ = SFCCBZZ + SFINBZZ + SFRCBZZ + SFEIBZZ

The U.S. consumption estimates for each of the variables and sectors and the U.S. total are calculated as the sum of the States' values.

Additional Calculations

Although SEDS does not use U.S.-level conversion factors for calculating natural gas consumption, these factors are calculated by SEDS for reference and are shown in the natural gas tables in Appendix B, http://www.eia.doe.gov/emeu/states/ seds tech notes.html:

NGEIKUS = NGEIBUS / NGEIPUS NGTCKUS = NGTCBUS / NGTCPUS NGTXKUS = (NGTCBUS – NGEIBUS) / (NGTCPUS – NGEIPUS)

To produce price and expenditure data, SEDS differentiates between natural gas used in the transportation sector as pipeline fuel, which is not sold and has no price, and natural gas purchased and consumed as vehicle fuel. SEDS also differentiates between natural gas used as lease and plant fuel

by the natural gas industry, which is not costed, and natural gas purchased by industrial consumers. Btu values for the price and expenditure tables are calculated in SEDS as follows:

NGPZBZZ = NGPZPZZ * NGTXKZZ NGVHBZZ = NGVHPZZ * NGTXKZZ NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPBZZ = NGLPPZZ * NGTXKZZ

The U.S. totals for each series are calculated as the sum of the States' values

Additional Notes

- 1. Beginning with 2001 data, Federal Offshore natural gas lease fuel consumption for Alabama, Louisiana, and Texas is reported combined under "Gulf of Mexico" in the source publication. To estimate each State's portion, data from the U.S. Minerals Management Service on natural gas production for the Eastern Gulf, Central Gulf, and Western Gulf areas are totaled. Alabama's share of the Gulf of Mexico lease fuel consumption is calculated in proportion to the Eastern Gulf's share of the production total; Louisiana's share is the same proportion as the Central Gulf share, and the Texas share is in proportion to the Western Gulf share.
- 2. In general, SGF supplies are small relative to total natural gas consumption, and are assumed to be a good measure of SGF consumption. The only exception is North Dakota. Since 1985, North Dakota's volume of SGF supplies is significant and sometimes exceeds its total natural gas consumption. SEDS assumes that 10 percent of SGF produced in North Dakota is consumed in the State and the rest is distributed to Iowa, Illinois, and Indiana through the Northern Border Pipeline, according to the capacity of the pipeline going into each State. The percentage allocations of the supplemental gaseous fuels supplies in North Dakota are as follows:
 - From 1985 through 1998: North Dakota (10%), Iowa (90%).
 - From 1999 forward: North Dakota (10%), Iowa (62%), Illinois (22%), Indiana (6%).

Data Sources

NGCCPZZ — Natural gas delivered to the commercial sector and to other consumers (municipalities and public authorities for institutional heating and street lighting), including natural gas consumed as vehicle fuel through 1989 and natural gas used in agriculture, forestry, and fisheries through 1995, by State.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Commercial."
- 1967 through 1988: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16, http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/historical_natural_gas_annual/hnga_historical.html.
- 1989 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPG0 vcs mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

NGEIKZZ — Factor for converting natural gas consumed by the electric power sector from physical units to Btu by State.

- 1960 through 1971: Assumed by the EIA to be equal to the thermal conversion factor for the consumption of natural gas by all users (NGTCKZZ).
- 1972 through 1982: Calculated annually by EIA by dividing the total heat content of natural gas received at steam electric plants 25 megawatts or greater by the total quantity received at those electric plants. The heat contents and quantities received are from the FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."
- 1983 through 1988: The average heat content of natural gas received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published from 1993 forward in Btu per cubic foot in the EIA, Cost and Quality of Fuels for Electric Utility Plants, Table 14, http://www.eia.doe.gov/cneaf/ electricity/cq/cq sum.html. Note: For States that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by using previous years' factors or the factor for total natural gas consumption in the State.
- 1989 forward: Calculated by dividing the total heat content of natural gas received at electric power plants (including electric utilities,

nonutility power plants and combined heat-and-power plants) by the total quantity consumed in physical units collected by the EIA on Forms EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906 920.html.

NGEIPZZ — Natural gas consumed by the electric power sector by State.

- 1960 through 1975: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data," table titled "Consumption of Fuel by Electric Utilities for Production of Electric Energy by State, Kind of Fuel, and Type of Prime Mover," sum of columns, "steam and gas turbine" and "internal combustion" under column heading "gas."
- 1976 through 1981: EIA, Electric Power Annual (1981), Table 67.
- 1982 through 1986: Unrounded data as published in rounded form in EIA, *Electric Power Annual*, 1986, Table 14.
- 1987: Unrounded data as published in rounded form in EIA, *Electric Power Annual 1988*, Table 13.
- 1988: Unrounded data as published in rounded form in EIA, *Electric Power Annual 1989*, Table 19.
- 1989 forward: EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906-920.html.

NGINPZZ — A portion of the natural gas delivered to the industrial sector, including natural gas used in agriculture, forestry, and fisheries beginning in 1996, by State.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States." Sum of data in columns "Carbon black," "Refinery fuel," and "Other industrial fuel" (which includes electric utility fuel) minus data in column "Fuel used at electric utility plants."
- 1967 through 1992: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16, http://www.eia.doe.gov/oil_gas/natural_gas/data-publications/historical_natural_gas_annual/hnga_historical.html.
- 1993 through 1996: Unpublished data comparable to data contained in the *Natural Gas Annual*, Tables 26 through 76.

• 1997 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPGO vin mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

NGLEPZZ — Natural gas consumed as lease fuel by State (includes natural gas consumed as plant fuel in 1960 through 1990).

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, Natural Gas chapter. State data are not available from 1960 through 1966, although U.S. totals are available. State estimates were calculated by apportioning the U.S. totals to the States on the basis of each State's share of the U.S. total in 1967.
- 1967 through 1982: EIA, *Natural Gas Annual 1994 Volume II*, Table 14.
- 1983 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_a_EPG0_vcl_mmcf_a.htm and published in the EIA, *Natural Gas Annual*, Tables 26 through 76.

NGPLPZZ — Natural gas consumed as plant fuel by State.

- 1960 through 1982: Included with natural gas consumed as lease fuel (see NGLEPZZ).
- 1983 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPG0 VCF mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

NGPZPZZ — Natural gas consumed as pipeline fuel by State.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Used as pipeline fuel."
- 1967 through 1992: EIA, *Natural Gas Annual 1994 Volume II*, Table 14.
- 1993 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 15. This report is available only via the Internet at http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/historical_natural_gas_annual/hnga.html.
- 1997 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPG0 vgp mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

NGRCPZZ — Natural gas delivered to the residential sector, used as consumption, by State.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Natural Gas Production and Consumption," table titled "Number of consumers and volume of natural gas consumed by principal users in the United States," column "Residential."
- 1967 through 1988: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16, http://www.eia.doe.gov/oil_gas/naturalgas_annual/hnga_historical.html.
- 1989 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPGO vrs mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

NGSFPZZ ---- Supplemental gaseous fuels supplies by State.

• 1980 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng_prod_ss_a_EPG0_ovi_mmcf_a.htm and published in the EIA, *Natural Gas Annual*, Table 8.

NGTCKZZ — Factor for converting natural gas consumed by all users from physical units to Btu by State.

- 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.
- 1963 through 1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual.
- 1980 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16, http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/historical_natural_gas_annual/hnga.html.
- 1997 forward: EIA, Natural Gas Annual, Table 16, http://www.eia.doe.gov/oil_gas/natural_gas/data_publications/natural_gas_annual/nga_historical.html and unpublished revisions.

NGVHPZZ — Natural gas delivered for use as vehicle fuel by State.

- 1960 through 1989: Included in natural gas consumed by the commercial sector (See NGCCPZZ).
- 1990 through 1991: EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 16, http://www.eia.doe.gov/oil_gas/natural_gas/data publications/historical natural gas annual/hnga.html.

- 1992 through 2000: EIA, unpublished data from the Office of Coal, Nuclear, Electric and Alternate Fuels (U.S. totals for 1992 forward and State values for 1997 forward) and from the Office of Energy Markets and End Use (State values for 1992 through 1996).
- 2001 forward: EIA, Natural Gas Navigator, http://tonto.eia.doe.gov/dnav/ng/ng cons sum a EPG0 vdv mmcf a.htm and published in the EIA, Natural Gas Annual, Tables 26 through 76.

Section 4. Petroleum

Petroleum Overview

The 25 petroleum products included in the State Energy Data System (SEDS) are explained in this section. For 10 of these products, the means of estimating their individual consumption by State is described in individual sections. The 10 petroleum products are:

- asphalt and road oil (AR)
- aviation gasoline (AV)
- distillate fuel oil (DF)
- jet fuel (JF)
- kerosene (KS)
- liquefied petroleum gases (LG)
- lubricants (LU)
- motor gasoline (MG)
- petroleum coke (PC)
- residual fuel oil (RF)

The remaining 15 products are described in the section "Other Petroleum Products" and include the following:

- crude oil, including lease condensate (CO)
- miscellaneous petroleum products (MS)
- natural gasoline (NA) (including isopentane)
- petroleum feedstocks, naphtha less than 401° F (FN)
- petroleum feedstocks, other oils equal to or greater than 401° F (FO)
- petroleum feedstocks, still gas (FS)
- plant condensate (PL)
- pentanes plus (PP)
- special naphthas (SN)
- still gas (SG)
- unfractionated stream (US)

- waxes (WX)
- unfinished oils (UO)
- motor gasoline blending components (MB)
- aviation gasoline blending components (AB)

The last petroleum documentation section, "Petroleum Summaries," describes how the 25 petroleum products are combined for each major end-use sector's estimated consumption.

Table TN3 summarizes the petroleum products' end-use assignments in SEDS. Shown in this table are the first four letters of the seven-letter variable names used to identify all energy sources. The first two letters identify the petroleum product and the next two letters identify the end-use sector. For example, the table shows that the aviation gasoline estimated to be consumed by the transportation sector is all aviation gasoline consumed, and that there is some estimated consumption of lubricants in the industrial and transportation sectors, while distillate fuel oil is consumed in every sector.

Asphalt and Road Oil

Physical Units

There are no State-level consumption data for asphalt and road oil available. Therefore, the State-level sales data are used to apportion the national consumption numbers to the States.

The asphalt and road oil sales data are in short tons, while the consumption data are in thousand barrels. Because the sales data are used only for apportioning the U.S. consumption data to the States, they do not need to be converted into thousand barrels.

Table TN3. Summary of Petroleum Products in the State Energy Data System

Petroleum Products	Residential Sector Estimated Consumption (RC)		Commercial Sector Estimated Consumption (CC)		Industrial Sector Estimated Consumption (IC)		Transportation Sector Estimated Consumption (AC)		Electric Power Sector Estimated Consumption (EI)		Total Estimated Consumption (TC)
Asphalt and Road Oil (AR)					ARIC					=	ARTC
Assisting Consider (AV)					+		A)/AC			_	+
Aviation Gasoline (AV)							AVAC +			=	AVTC +
Distillate Fuel Oil (DF)	DFRC	+	DFCC	+	DFIC	+	DFAC	+	DFEI	=	DFTC
Jet Fuel (JF)	+		+		+		JFAC		+ JFEU	=	+ JFTC
Kerosene (KS)	KSRC	+	KSCC	+	KSIC		+			=	KSTC
Liquefied Petroleum Gases (LG)	+ LGRC	+	+ LGCC	+	+ LGIC +	+	LGAC +			=	+ LGTC +
Lubricants (LU)			+		LUIC +		LUAC +			=	LUTC +
Motor Gasoline (MG)			MGCC +		MGIC +		MGAC +			=	MGTC +
Residual Fuel Oil (RF)			RFCC		RFIC	+	RFAC	+	RFEI	=	RFTC
Other Petroleum Products (PO)			PCCC ¹	+	POIC ²			+	+ PCEI ¹	=	POTC
Total Petroleum (PA)	PARC	+	PACC	+	PAIC	+	PAAC	+	PAEI	- =	PATC

natural gasoline; petroleum feedstocks (naphtha less than 401° F, other oils equal to or greater than 401° F, and still gas); pentanes plus; special naphthas; still gas; unfractionated stream; waxes; miscellaneous petroleum products; and petroleum coke for industrial use.

 $^{^{1}}$ "Other petroleum products" are consumed in the industrial sector with the exception of petroleum coke consumed by the commercial and electric power sectors.

 $^{^2}$ "Other petroleum products" consumed by the industrial sector comprises crude oil, including lease condensate; unfinished oils; plant condensate; aviation gasoline and motor gasoline blending components;

The four data series that are used to estimate consumption of asphalt and road oil are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

ASINPZZ = asphalt sold for use in the industrial sector of each State, in short tons;

ASTCPUS = asphalt total consumed in the United States, in thousand

RDINPZZ = road oil sold for use in the industrial sector of each State, in short tons; and

RDTCPUS = road oil total consumed in the United States, in thousand barrels.

All asphalt and road oil consumption are assigned to the industrial sector because they are used in construction activity. ASTCPUS represents total U.S. consumption of asphalt, and RDTCPUS represents total U.S. consumption of road oil. Both are the "product supplied" data series in the publication *Petroleum Supply Annual*, published by the Energy Information Administration (EIA). Beginning in 1983, asphalt product supplied includes road oil, and RDTCPUS is entered as zero in SEDS.

ASINPZZ represents all asphalt sold as paving products, as roofing products, and for all other uses. RDINPZZ represents all sales of road oil. These data are collected and published by the Asphalt Institute. Values for RDINPZZ for 1981 and 1982 are estimated as described under "Additional Notes" in this section. Beginning with 1983 data, when road oil is included in asphalt product supplied data in the source publication, RDINPZZ is entered as zero in SEDS.

To calculate State consumption estimates of asphalt, total sales of asphalt and road oil in the United States to the industrial sector are first calculated as the sum of the State data:

ASINPUS = Σ ASINPZZ RDINPUS = Σ RDINPZZ

Each State's consumption of asphalt in the industrial sector (ASICPZZ) is calculated to be in proportion to each State's sales:

ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS

ASICPUS = Σ ASICPZZ

RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUSRDICPUS = $\Sigma RDICPZZ$

Since all consumption of asphalt and road oil are assumed to be in the industrial sector, their total consumption in each State equals the industrial sector consumption:

ASTCPZZ = ASICPZZ RDTCPZZ = RDICPZZ

Asphalt and road oil consumption are added together:

ARICPZZ = ASICPZZ + RDICPZZ

ARICPUS = Σ ARICPZZ

ARTCPZZ = ASTCPZZ + RDTCPZZ

ARTCPUS = $\Sigma ARTCPZZ$

British Thermal Units (Btu)

Asphalt and road oil have a heat content value of approximately 6.636 million Btu per barrel. This factor is applied to convert asphalt and road oil estimated consumption from physical units to Btu:

ARICBZZ = ARICPZZ * 6.636ARICBUS = Σ ARICBZZ

Because all asphalt and road oil are assumed to be used by the industrial sector, total asphalt and road oil consumption in each State and in the United States is assumed to equal the industrial sector consumption:

ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS

Additional Notes on Asphalt and Road Oil

The Federal Government stopped collecting asphalt and road oil sales data in 1980 and the source for these numbers in recent years has been reports published by the Asphalt Institute. When companies do not respond to the voluntary survey, the Asphalt Institute does not estimate quantities to compensate for the nonresponse. This can cause large fluctuation in sales from

year to year for some States. There is an inherent problem in the methodology of using sales to estimate consumption because asphalt and road oil sold by a producer in one State may be easily transported across State lines and consumed in a neighboring State. The Asphalt Institute acknowledges this problem and estimates that, in any one year, about 15 States may have consumption estimates as much as 20 percent too high or too low.

Asphalt and road oil data for Maryland and the District of Columbia are published combined to avoid disclosure of proprietary data. Prior to being entered into SEDS, the combined data are allocated to each State based on their reported sales in 1974 (99.4 percent to Maryland and 0.6 percent to the District of Columbia) and the assumption that their relative proportions do not change significantly over time.

The EIA report series "Sales of Asphalt," and predecessor reports, which are the source for road oil sales by State (RDINPZZ) in SEDS for 1960 through 1980, was discontinued after the 1980 report. For 1981 and 1982, State estimates of road oil sales were created by first converting the annual total U.S. road oil product supplied data into short tons (one short ton contains 5.5 barrels of road oil). Then, the U.S. total road oil product supplied, in short tons, was disaggregated to each State in proportion to the State's share of total U.S. asphalt sales as reported in the Asphalt Institute's *Report on Sales of Asphalt in the U.S.*

Data Sources for Asphalt and Road Oil

ASINPZZ — Asphalt sold to the industrial sector by State.

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Asphalt," the specific tables are:
 - 1960 through 1962: Table 6.
 - 1963 through 1977: Table 5.
- 1978 through 1980: EIA, *Energy Data Reports*, "Sales of Asphalt," Table 2.
- 1981 through 1986: The Asphalt Institute, *Asphalt Usage 1987 United States and Canada*, Table B.
- 1987 and 1988: The Asphalt Institute, Asphalt Usage 1988 United States and Canada, Tables A and B for State data. Asphalt Usage 1989 United States and Canada, page 2 for revised U.S. totals. The Asphalt Institute did not publish corresponding revised State data but did

- advise EIA on an estimation procedure to adjust 19 State values to sum to the revised U.S. totals.
- 1989 through 1997: The Asphalt Institute, *Asphalt Usage United States and Canada*, table titled "U.S. Asphalt Usage."
- 1998 and 1999: The Asphalt Institute, *Asphalt Usage United States and Canada*, table titled "1998 vs. 1999 U.S. Asphalt Usage." 1998 data for Delaware, New Hampshire, Rhode Island, and Vermont are repeated for 1999 because nonresponse to the survey caused those States data for 1999 to be more than 75 percent lower than their 1998 values.
- 2000 forward: The Asphalt Institute, http://www.asphalt institute.org/, Asphalt Usage Survey for the United States and Canada, table titled "U.S. Asphalt Usage."

ASTCPUS — Asphalt total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1_historical.html, column titled "Products Supplied." (Beginning in 1983, this variable includes road oil.) The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

RDINPZZ — Road oil sold to the industrial sector by State.

- 1960 through 1977: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Asphalt." The specific tables are:
 - 1960 through 1962: Table 6.
 - 1963 through 1977: Table 5.
- 1978 through 1980: EIA, *Energy Data Reports*, "Sales of Asphalt," Table 2.
- 1981 and 1982: EIA estimates. (See explanation in "Additional Notes" on page 30.)
- 1983 forward: Road oil is included in asphalt data. Value entered in SEDS as zero.

RDTCPUS — Road oil total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 2.
- 1983 forward: Road Oil is included in asphalt data. Value entered in SEDS as zero.

Aviation Gasoline

Physical Units

The three data series used to estimate consumption of aviation gasoline are:

AVMIPZZ = aviation gasoline issued to the military in each State, in thousand barrels:

AVNMMZZ = aviation gasoline sold to nonmilitary users in each State, in thousand gallons; and

AVTCPUS = aviation gasoline total consumed in the United States, in thousand barrels.

The U.S. Department of Transportation, Federal Highway Administration publishes the nonmilitary aviation gasoline sales data by State (AVNMMZZ) in *Highway Statistics*.

AVMIPZZ is the issues of aviation gasoline to the military in each State and is obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center.

Total U.S. consumption of aviation gasoline (AVTCPUS) is the product supplied data series in the publication *Petroleum Supply Annual*, published by the Energy Information Administration (EIA).

The State-level data series are summed to provide totals for the United States:

AVMIPUS = Σ AVMIPZZ AVNMMUS = Σ AVNMMZZ

The State sales of nonmilitary aviation gasoline data are converted from thousand gallons to thousand barrels (42 gallons = 1 barrel):

AVNMPZZ = AVNMMZZ / 42

The U.S. nonmilitary sales is the sum of the States' sales:

AVNMPUS = Σ AVNMPZZ

The total sales of aviation gasoline is estimated as the sum of nonmilitary sales and military issues:

AVTTPZZ = AVNMPZZ + AVMIPZZ

AVTTPUS = Σ AVTTPZZ

All aviation gasoline is assumed to be used by the transportation sector. An estimate of aviation gasoline consumption by the transportation sector by State (AVACPZZ) is calculated by assuming that each State consumes aviation gasoline in proportion to the amount sold to that State:

AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUSAVACPUS = $\Sigma AVACPZZ$

Total aviation gasoline consumption in each State, AVTCPZZ, equals the transportation sector consumption in each State:

AVTCPZZ = AVACPZZ

British Thermal Units (Btu)

Aviation gasoline has a heat content value of approximately 5.048 million Btu per barrel. This factor is applied to convert aviation gasoline estimated consumption from physical units to Btu:

AVACBZZ = AVACPZZ * 5.048

AVACBUS = Σ AVACBZZ

Because all aviation gasoline is assumed to be used for transportation, aviation gasoline total consumption in each State and in the United States equals the transportation sector consumption:

AVTCBZZ = AVACBZZ AVTCBUS = Σ AVTCBZZ

Data Sources for Aviation Gasoline

AVMIPZZ — Aviation fuel issued to the military in the United States by State.

- 1960 through 1974: No data are available. The 1977 data are used for each year.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1988: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1989 and 1990: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. State data for the fiscal year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia.
- 1991 forward: U.S. Department of Defense, Defense Logistics Agency, Defense Energy Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia. Data for 2004 through 2007 are not available. Data for 2003 are used for those years for all States except Colorado and Texas. For these States, the averages of the 2001 through 2003 data are used instead.

AVNMMZZ — Aviation gasoline sold to nonmilitary users by State.

• 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.

• 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-24 in 1965 and Table MF-24 in 1966 forward.

AVTCPUS — Aviation gasoline total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Distillate Fuel Oil

Physical Units

Since State-level and end-use consumption data for distillate fuel oil (except for that consumed by the electric power sector) are not available, sales of distillate fuel oil into or within each State, published by the Energy Information Administration (EIA) in the *Fuel Oil and Kerosene Sales Report*, are used to estimate distillate fuel oil consumption. The following variable names have been assigned to the sales series, in thousand barrels ("ZZ" in the variable names represents the two-letter State code that differs for each State):

DFBKPZZ = distillate fuel oil sales for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding that sold to the Armed Forces;

DFCMPZZ = distillate fuel oil sales to commercial establishments for space heating, water heating, and cooking;

DFIBPZZ	= distillate fuel oil sales to industrial establishments for
	space heating and for other industrial use (i.e., for all uses
	to mines, smelters, plants engaged in producing manufac-
	tured products, in processing goods, and in assembling),
	including farm use;

DFMIPZZ = distillate fuel oil sales to the Armed Forces, for all uses; DFOCPZZ = distillate fuel oil sales for oil company use, including all

fuel oil, crude oil, or acid sludge used as fuel at refineries, by pipelines, or in field operations;

DFOFPZZ = distillate fuel oil sales as diesel fuel for off-highway use in construction (i.e., earthmoving equipment, cranes, stationary generators, air compressors, etc.) and for off-highway uses other than construction (i.e., logging);

DFONPZZ = distillate fuel oil sales as diesel fuel for on-highway use (i.e., as engine fuel for trucks, buses, and automobiles);

DFOTPZZ = distillate fuel oil sales for all other uses not identified in other sales categories;

DFRRPZZ = distillate fuel oil sales to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations; and

DFRSPZZ = distillate fuel oil sales to the residential sector for space heating, water heating, and cooking, excluding farm houses.

Three additional data series are used in calculating distillate fuel oil consumption estimates:

DKEIPZZ = distillate fuel oil (including kerosene-type jet fuel) consumed by the electric power sector, in thousand barrels;

JKEUPZZ = kerosene-type jet fuel consumed by electric utilities, in thousand barrels; and

DFTCPUS = distillate fuel oil total consumed in the United States, in thousand barrels.

Distillate fuel oil consumed by the electric power sector is collected by EIA on Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. (See Note 4 at the end of this distillate fuel oil section for further information on changes in this series' data definitions.) Before 2001, the data series DKEIPZZ includes kerosene-type jet fuel consumed at electric utilities that is identified as JKEUPZZ. The kerosene-type jet fuel is subtracted from the distillate fuel oil data and accounted for in the jet fuel data described in a following

section of this documentation. Data for kerosene-type jet fuel consumed by electric utilities are available for 1972 through 1982 only. Consumption in all other years is assumed to be zero. From 2001 forward, jet fuel consumed by the electric power sector is grouped under waste/other oil and is not accounted for in SEDS. DKEIPZZ is continued to be used to represent distillate fuel oil consumed by the electric power sector.

Total consumption of distillate fuel oil in the United States, DFTCPUS, is the product supplied series in the EIA publication *Petroleum Supply Annual*.

All of the State-level data series listed above are summed to provide totals for the United States.

Next, the variables are combined as closely as possible into the major end-use sectors used in SEDS. The residential sector sales and the commercial sector sales contain only DFRSPZZ and DFCMPZZ, respectively.

The sales of distillate fuel oil to the industrial sector for each State, DFINPZZ, is the sum of the distillate fuel oil sales for industrial use, including industrial space heating and farm use (DFIBPZZ), for oil company use (DFOCPZZ), for off-highway use (DFOFPZZ), and for all other uses (DFOTPZZ). Data for DFOTPZZ are available through 1994. Starting in 1995, consumption is assumed to be zero:

DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = Σ DFINPZZ

The sales of distillate fuel oil to the transportation sector for each State, DFTRPZZ, is the sum of the distillate fuel oil sales for vessel bunkering, military use, railroad use, and the diesel fuel used on-highway:

DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ DFTRPUS = Σ DFTRPZZ

Sales of distillate fuel oil to the residential, commercial, industrial, and transportation sectors are added to create a subtotal of sales to all sectors other than the electric utility sector, DFNDPZZ:

DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ DFNDPUS = Σ DFNDPZZ

Consumption of distillate fuel oil by the electric power sector (DFEIPZZ) is calculated by subtracting the kerosene-type jet fuel consumed by electric utilities from the input series DKEIPZZ:

DFEIPZZ = DKEIPZZ - JKEUPZZ

DFEIPUS = Σ DFEIPZZ

The estimated U.S. distillate fuel oil consumption by all sectors other than the electric power sector, DFNCPUS, is calculated by subtracting the distillate fuel oil consumption by the electric power sector from the total U.S. distillate fuel oil consumption:

DFNCPUS = DFTCPUS - DFEIPUS

This U.S. subtotal of distillate fuel oil consumption by the four end-use sectors, DFNCPUS, is apportioned to the States by use of the end-use sectors' State-level sales data. The assumption is made that each State consumes distillate fuel oil in proportion to the amount of sales to that State:

DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS

The end-use sectors' subtotal for each State, DFNCPZZ, is further divided into estimates for the four end-use sectors in proportion to each sector's sales. The estimated residential sector consumption in each State, DFRCPZZ, is calculated:

DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ

DFRCPUS = Σ DFRCPZZ

The commercial sector's estimated consumption in each State, DFCCPZZ, is calculated:

DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ

DFCCPUS = Σ DFCCPZZ

The industrial sector's estimated consumption in each State, DFICPZZ, is calculated:

DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ

DFICPUS = Σ DFICPZZ

The transportation sector's estimated consumption in each State, DFACPZZ, is calculated:

DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ

DFACPUS = Σ DFACPZZ

Total State distillate fuel oil consumption is the sum of the end-use sectors' consumption subtotal and the electric power sector consumption:

DFTCPZZ = DFNCPZZ + DFEIPZZ

British Thermal Units (Btu)

Distillate fuel oil has a heat content value of approximately 5.825 million Btu per barrel. This factor is applied to convert distillate fuel oil estimated consumption for the five consuming sectors from physical units to Btu as shown in the following examples:

DFRCBZZ = DFRCPZZ * 5.825

DFCCBZZ = DFCCPZZ * 5.825

DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ +

DFEIBZZ

The U.S. Btu consumption estimates are calculated as the sum of all the States' data.

In the State Energy Data consumption tables, "Estimates of Energy Consumption by the Electric Power Sector," the data used in the column headed "Distillate" is the variable DKEIP (distillate fuel oil plus jet kerosene) in physical units. The Btu variable, DKEIB, is calculated as follows (See page 40 for description of JKEUB):

DKEIBZZ = DFEIBZZ + JKEUBZZ

DKEIBUS = Σ DKEIBZZ

Additional Notes on Distillate Fuel Oil

1. "Deliveries" data are actually called "shipments" in the source document for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1987; and "sales" for 1988 forward.

- 2. State data for the variables DFONPZZ (on-highway use), DFOFPZZ (off-highway use), and DFOTPZZ (other) for 1967 are unavailable from published sources. These three variables compose the miscellaneous use category for distillate fuel oil, which is known for all years by State. State estimates of DFONPZZ and DFOFPZZ for 1967 were developed by dividing the 1966 values for DFONPZZ and DFOFPZZ by the 1966 total miscellaneous use for each State and applying these percentages to the 1967 total miscellaneous use for each State. The 1967 State estimates for DFOTPZZ are the remainder of the 1967 miscellaneous category after DFONPZZ and DFOFPZZ have been subtracted.
- 3. In 1979, EIA implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979.") In this survey form, certain end-use categories were redefined—in many cases to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in the State Energy Data System (SEDS) to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report, but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

For distillate fuel oil deliveries in 1979, the end-use categories called "residential," "commercial," "industrial," and "farm" are available. The pre-1979 deliveries categories are called "heating" and "industrial" (which included farm use). While the pre-1979 categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of residential, commercial, industrial, and farm deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for distillate fuel oil delivered to the residential, commercial, and industrial sectors:

 For each of the pre-1979 years, a subtotal was created for each State by adding each State's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each State's residential, commercial, industrial, and farm deliveries categories.

- Residential, commercial, and industrial (including farm) shares of the subtotal in 1979 were calculated for each State.
- These 1979 end-use shares were then applied to each pre-1979 subtotal of distillate fuel oil deliveries in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 distillate fuel oil deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." EIA did not conduct a fuel oil and kerosene deliveries survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the deliveries data for 1983 forward are reported in thousand gallons. These data are first converted to thousand barrels before being entered into SEDS.)

Some of the No. 2 diesel fuel reported as sold to the commercial and industrial sectors, DFCMPZZ and DFINPZZ, on the EIA forms may also be included in the on-highway data, DFONPZZ, obtained from the Federal Highway Administration. Included in the commercial sector is some diesel fuel consumed by government vehicles and school buses, and included in the industrial sector is some diesel fuel consumed by fleets of trucks. Because the specific quantities involved are unknown, SEDS reflects the diesel fuel consumption as reported in the EIA *Petroleum Marketing Monthly* and no attempt has been made to adjust the end-use reporting.

4. The data on fuel oil consumed by the electric power sector for all years and States are actual fuel oil consumption numbers collected from electric power plants on Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. Due to changes in fuel oil reporting

classifications on the predecessor forms over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately disaggregating fuel oil into distillate fuel oil and residual fuel oil have become available. For 1960 through 1969, only data on total fuel oil consumed at electric utilities by State are available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by State are available. For 1980 through 2000, data on consumption of light fuel oil at all plant types combined and consumption of heavy fuel oil at all plant types combined are available by State. For 2001 forward, data on consumption of distillate fuel oil and residual fuel oil are available. In SEDS, the following assumptions have been made:

- 1960 through 1969 State estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel oil) and internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet kerosene) by State in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
- 1970 through 1979 fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel oil plus jet kerosene consumption.
- 1980 through 2000 total heavy oil consumption at all plant types is assumed to equal residual fuel oil consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel oil plus jet kerosene consumption.

The data series thus derived for SEDS for residual fuel oil and distillate fuel oil plus jet kerosene consumption by the electric power sector is considered to be actual consumption by the electric power for each State and each year.

Data Sources for Distillate Fuel Oil

DFBKPZZ — Distillate fuel oil sales for vessel bunkering use by State, excluding that sold to the Armed Forces.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 17.
 - 1962 and 1963: Table 16.
 - 1964 and 1965: Table 15.
 - 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821dst a EPD0 VVB Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821dst a EPDO VVB Mgal a.htm.

DFCMPZZ — Distillate fuel oil sales to the commercial sector for space heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of distillate fuel oil from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 commercial sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 35.)
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

• 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.

- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821dst a EPD0 VCS Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821dst a EPDO VCS Mgal a.htm.

DFIBPZZ — Distillate fuel oil sales to industrial establishments for space heating and for other industrial use, including farm use by State.

- 1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of distillate fuel oil from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 industrial sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 35.)
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, Petroleum Marketing Monthly, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821dst a EPD0 VFM Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons_821dst_a_EPD0_VFM_Mgal_a.htm.

DFMIPZZ — Distillate fuel oil sales to the Armed Forces for all uses by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 18.
 - 1962 and 1963: Table 17.
 - 1964 and 1965: Table 16.

- 1966 through 1975: Table 12.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons-821dst-a-EPD0-VMI_Mgal_a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons-821dst-a-EPD0-VMI Mgal a.htm.

DFOCPZZ — Distillate fuel oil sales for use by oil companies by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 14.
 - 1962 and 1963: Table 13.
 - 1964 and 1965: Table 12.
 - 1966 through 1975: Table 9.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 9.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VOC Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VOC Mgal a.htm.

DFOFPZZ — Distillate fuel oil sales as diesel fuel for off-highway use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 through 1962: Table 19.
 - 1963 and 1964: Table 18.
 - 1965 through 1967: Table 17.
 - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD2D VHF Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD2D VHF Mgal a.htm.

DFONPZZ — Distillate fuel oil sales as diesel fuel for on-highway use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 through 1962: Table 19.
 - 1963 and 1964: Table 18.
 - 1965 through 1967: Table 17.
 - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD2D VHN Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD2D VHN Mgal a.htm.

DFOTPZZ — Distillate fuel oil sales for all other uses not identified in other sales categories.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 through 1962: Table 19.
 - 1963 and 1964: Table 18.
 - 1965 through 1967: Table 17.
 - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VOE Mgal a.htm.
- 1988 through 1994: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VOE Mgal a.htm.
- 1995 forward: Series discontinued; no data available. Values are assumed to be zero.

DFRRPZZ — Distillate fuel oil sales for use by railroads by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 16.
 - 1962 and 1963: Table 15.
 - 1964 and 1965: Table 14.
 - 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 10.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VRR Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VRR Mgal a.htm.

DFRSPZZ — Distillate fuel oil sales to the residential sector for space heating, water heating, and cooking.

- 1960 through 1978: EIA estimates based on statistics of residential sector deliveries of distillate fuel oil from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 1. State ratios based on 1979 residential sector deliveries were applied to each State's sum of heating plus industrial (including farm use) deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 35.)
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 4.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

• 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A12.

- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VRS Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821dst a EPD0 VRS Mgal a.htm.

DFTCPUS — Distillate fuel oil total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

DKEIPZZ — Distillate fuel oil consumed by the electric power sector, including kerosene-type jet fuel.

- EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. The following assumptions have been made:
 - 1960 through 1969: Only total fuel oil consumed at electric utilities by State is available. State estimates of distillate fuel oil consumption were created for each year by applying the shares of internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet fuel) by State from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
 - 1970 through 1979: Fuel oil consumed by plant type by State is available. Fuel oil consumed by internal combustion and gas turbine plants combined is assumed to equal distillate and jet fuel consumption.
 - 1980 through 2000: Consumption of light fuel oil at all plant types by State is available. This is assumed to equal distillate and jet kerosene consumption.
 - 2001 forward: Consumption of distillate fuel oil is available.

JKEUPZZ — Kerosene-type jet fuel consumed by the electric utility sector. (See data sources for JKEUPZZ under "Jet Fuel" on page 42.)

Jet Fuel

There are two types of jet fuel with different heat contents, kerosene-type jet fuel (JK) and naphtha-type jet fuel (JN), which are added in the State Energy Data System (SEDS) to give total jet fuel (JF). Jet fuel is used primarily for transportation, although small amounts of kerosene-type jet fuel are also used in the electric utility sector.

Kerosene-Type Jet Fuel

Physical Units

Data series used to calculate kerosene-type jet fuel consumption estimates are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

JKTCPUS = kerosene-type jet fuel total consumed, in thousand barrels;

JKEUPZZ = the electric utility sector consumption of kerosene-type jet

fuel in each State, in thousand barrels; and

JKTTPZZ = kerosene-type jet fuel total sold, in thousand gallons.

Total U.S. consumption of kerosene-type jet fuel, JKTCPUS, is the product supplied data series in the publication *Petroleum Supply Annual*, published by the Energy Information Administration (EIA).

Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published by EIA in the *Cost and Quality of Fuels for Electric Utility Plants*. These data are available for 1972 through 1982 only. Consumption in all other years is assumed to be zero in SEDS.

Kerosene-type jet fuel total sold, JKTTPZZ, was collected by the Ethyl Corporation, Petroleum Chemicals Division, for 1960 through 1983, and is collected by the EIA for 1984 forward. The Ethyl Corporation data are sales to commercial users and are used to represent total sales based on the assumption that there is little military use of kerosene-type jet fuel during

1960 through 1983. (See Note 1 in the "Additional Notes" section for the source reference for this assumption.) The EIA data for 1984 forward include commercial and military sales. Data for 1984 through 1993 are taken from the EIA *Petroleum Marketing Annual (PMA)*. Data for 1994 forward are taken from unpublished data in thousand gallons and are available in thousand gallons per day in the EIA *PMA*. Prior to 1994, withheld data are estimated by using averages of published months to fill in withheld months; subtracting published States from published PAD District totals; and assigning values based on previous years' quantities. Beginning in 1994, withheld data are interpolated.

U.S. totals for the two State series are calculated as the sum of the State data.

Most kerosene-type jet fuel is used by the transportation sector. The transportation sector consumption for the United States (JKACPUS) is estimated as the difference between the total kerosene-type jet fuel consumed and the electric utility consumption:

JKACPUS = JKTCPUS – JKEUPUS

It is assumed that kerosene-type jet fuel consumption in each State is in proportion to the amount sold in each State:

JKACPZZ = (JKTTPZZ / JKTTPUS) * JKACPUS

Total kerosene-type jet fuel by State is estimated as:

JKTCPZZ = JKACPZZ + JKEUPZZ

British Thermal Units (Btu)

Kerosene-type jet fuel has a heat content value of approximately 5.670 million Btu per barrel. This factor is applied to convert kerosene-type jet fuel from physical units to Btu:

JKACBZZ = JKACPZZ * 5.670

JKACBUS = Σ JKACBZZ

JKEUBZZ = JKEUPZZ * 5.670

JKEUBUS = Σ JKEUBZZ

JKTCBZZ = JKTCPZZ * 5.670

Additional Notes on Kerosene-Type Jet Fuel

- 1. An assumption is made that kerosene-type jet fuel use by the military in 1960 through 1983 is negligible. This assumption is based on product definitions from the American Petroleum Institute's *Standard Definitions for Petroleum Statistics*, Technical Report No. 1, Third Edition (1981), page 13, which states that kerosene-type jet fuel is used primarily by commercial aircraft engines.
- 2. Ethyl Corporation jet fuel sales to commercial users by State include some sales data that were improperly allocated between the States of Illinois and Indiana for 1960 through 1973. To adjust for this error, the average relative proportions of Illinois and Indiana sales from 1974 through 1978 were applied to the sum of the Illinois and Indiana sales in 1960 through 1973. From 1974 through 1983, sales data were correctly allocated.
- 3. Jet fuel sales in Illinois decreased sharply from 1984 forward, while sales in Indiana increased by about the same amount. It is possible that jet fuel for use at Chicago, Illinois, airports may have been purchased in Indiana. The same anomaly may have happened between New York and New Jersey beginning in 1981, when jet fuel for consumption at New York City airports may have been purchased in New Jersey. This is an inherent problem when using sales data as an

indication of consumption, and no attempt has been made to adjust the numbers.

- 4. Prior to 1964, kerosene-type jet fuel was included in the total kerosene product supplied data in the source, the U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 2, "Salient Statistics of the Major Refined Petroleum Products in the United States." Table TN4 summarizes the derivation of kerosene and jet fuel consumption estimates (columns 4 and 5) from data published in the source (columns 1, 2, and 3) for 1960 through 1963. For 1964 and years following, kerosene and kerosene-type jet fuel are reported separately in the source documents.
- 5. Kerosene-type jet fuel consumed by electric utilities, JKEUPZZ, is published in the EIA *Cost and Quality of Fuels for Electric Utility Plants*. These data are available for 1972 through 1982 only. Consumption in all other years is assumed to be zero. State-level data for 1972 through 1974 are not available. The percentage of each State's consumption of the total U.S. consumption in 1975 was used to apportion the 1972 through 1974 national data to the States.
- 6. For 2001 forward, jet fuel used for power generation is included in waste/other oil. Data for waste/other oil are not processed in SEDS because waste oil is not primary energy. Consumption of the petroleum products that produced the waste oil has been accounted for elsewhere.

Table TN4. Estimate of U.S. Consumption of Kerosene and Jet Fuel for 1960 through 1963 (Thousand barrels)

	(1) Kerosene Demand,	(2)	(3) Sales of	(4) Estimated	(5) Estimated
Year	Including Commercial Jet Fuel	Jet Fuel Demand, Military Use Only	Kerosene for Commercial Jet Fuel Use	Kerosene Consumption (1) – (3)	Total Jet Fuel Consumption (2) + (3)
1960	132,499	102,803	33,159	99,340	135,962
1961	144,435	104,436	47,187	97,248	151,623
1962	164,167	112,401	66,134	98,033	178,535
1963	172,212	115,237	75,236	96,976	190,473

Data Sources for Kerosene-type Jet Fuel

JKEUPZZ — Kerosene-type jet fuel consumed by electric utilities by State.

- 1960 through 1971: No data available. Values are assumed to be zero.
- 1972 through 1974: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Fuel Oil and Kerosene," Table 15 footnote for U.S. value. These data were apportioned to the States by using the 1975 State proportions of the 1975 U.S. total from the source below.
- 1975 through 1979: Office of Electric Power Regulation, Federal Energy Regulatory Commission, *Annual Summary of Cost and Quality of Electric Utility Plant Fuels*, "Fuel Oil Deliveries for Combustion Turbine and Internal Combustion Units."
- 1980 through 1982: EIA, Cost and Quality of Fuel for Electric Utility Plants, Table 30.
- 1983 forward: Data not available. Values are assumed to be zero in SEDS.

JKTTPZZ — Kerosene-type jet fuel total sold by State.

- 1960 through 1983: Ethyl Corporation, Petroleum Chemicals Division, *Yearly Report of Gasoline Sales by States*, "Aviation Turbine Fuel Sales."
- 1984 and 1985: EIA, Petroleum Marketing Annual 1985, Volume 2.
 - 1984: Table A6.
 - 1985: Table 34.
- 1986 through 1988: EIA, Petroleum Marketing Annual, Table 46.
- 1989 through 1993: EIA, Petroleum Marketing Annual, Table 48.
- 1994 forward: Unpublished data in thousand gallons from Form EIA-782C, "Monthly Report of Prime Supplier Sales of Petroleum Products Sold for Local Consumption." Data published in thousand gallons per day in EIA, Petroleum Marketing Annual, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html.
 - 1994 through 2006: Table 49.
 - 2007: Table 46.

JKTCPUS — Kerosene-type jet fuel total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Naphtha-Type Jet Fuel

Physical Units

Two data series are used to estimate naphtha-type jet fuel consumption:

JNTCPUS = naphtha-type jet fuel total consumed, in thousand barrels;

and

JNMIPZZ = naphtha-type jet fuel issued to the military in each State,

in thousand barrels.

Total U.S. consumption of naphtha-type jet fuel, JNTCPUS, is the product supplied data series in the publication *Petroleum Supply Annual*, published by the EIA. Beginning in 2005, it is included in "Miscellaneous Petroleum Products," and is assigned a zero value in SEDS.

It is assumed that all naphtha-type jet fuel is used in military aircraft engines. (See the Additional Notes at the end of this section for the source reference for this assumption.) Data on naphtha-type jet fuel issued to the military in each State, JNMIPZZ, are from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center.

The total U.S. military issues is the sum of the State data:

JNMIPUS = Σ JNMIPZZ

An estimate of naphtha-type jet fuel consumption by State, JNTCPZZ, is calculated by assuming that each State consumes naphtha-type jet fuel in proportion to the amount issued to the military in that State:

JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS

All naphtha-type jet fuel is assumed to be used for transportation purposes so the transportation consumption equals the estimated total consumption for each State and for the United States:

JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS

British Thermal Units (Btu)

Naphtha-type jet fuel has a heat content value of approximately 5.355 million Btu per barrel. This factor is applied to convert naphtha-type jet fuel from physical units to Btu:

JNTCBZZ = JNTCPZZ * 5.355

JNTCBUS = Σ JNTCBZZ JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS

Additional Notes on Naphtha-Type Jet Fuel

- 1. An assumption is made that the naphtha-type jet fuel is for military use only. This assumption is based on product definitions from the American Petroleum Institute's *Standard Definitions for Petroleum Statistics*, Technical Report No. 1, Third Edition (1981), page 13, which states that naphtha-type jet fuel is used primarily by military aircraft engines.
- 2. Data on naphtha-type jet fuel issued to the military for each State (JNMIPZZ) are obtained from the U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center. There are no data available for 1960 through 1974, and the data available for 1975 and 1976 are not consistent; therefore, the 1977 values are used for 1960 through 1976 in SEDS. The data are reported by fiscal year for 1977 through 1988 and are taken from the Defense Energy Information System. For 1989 and 1990, fiscal-year data from two

databases, Defense Fuel Automated Management System and the Into-Plane Database, are summed. For 1991 and 1992, data from the same two databases, reported by calendar year, are used.

3. Since total naphtha-type jet fuel product supplied is assumed to be zero beginning in 2005, naphtha-type jet fuel issued to the military is also assumed to be zero for 2005 forward.

Data Sources for Naphtha-type Jet Fuel

JNMIPZZ — Naphtha-type jet fuel issued to the military in the United States.

- 1960 through 1974: No data are available. The 1977 data are used for each year.
- 1975 and 1976: No consistent data series are available. The 1977 data are used for both years.
- 1977 through 1987: The U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Energy Information System, military retail issues based on fiscal year data. The District of Columbia issues are assumed to be zero; therefore, values reported for the District of Columbia are added to Maryland.
- 1988: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, average of 1987 data (see source above) and 1989 data (see source below).
- 1989 and 1990: U.S. Department of Defense, Defense Logistics Agency, Defense Fuel Supply Center, Defense Fuel Automated Management System, military wholesale issues based on fiscal year data.
- 1991 through 2004: U.S. Department of Defense, Defense Logistics Agency, Defense Energy Supply Center. State data for the calendar year from two databases are summed: Defense Fuel Automated Management System (military wholesale issues) and Into-Plane Database (military purchases from commercial airports). Into-plane values reported for the District of Columbia are added to Virginia. Data for 2003 are repeated for 2004 pending availability of the actual 2004 data.
- 2005 forward: Value entered in SEDS as zero.

JNTCPUS — Naphtha-type jet fuel total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_an_nual/psa_volume1/psa_volume1 historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Data not reported separately. Volumes are included in "Miscellaneous Petroleum Products" in the *Petroleum Supply Annual*, Table 1. Value entered in SEDS as zero.

Jet Fuel Totals

Physical Unit

The following calculations are used to provide total jet fuel consumption estimates by end use in physical units:

JFACPZZ = JKACPZZ + JNACPZZ

JFACPUS = Σ JFACPZZ JFEUPZZ = JKEUPZZ

JFEUPUS = JKEUPUS

JFTCPZZ = JFACPZZ + JFEUPZZ

JFTCPUS = Σ JFTCPZZ

British Thermal Units (Btu)

The following calculations are used to provide total jet fuel consumption estimates by end use in Btu:

JFACBZZ = JKACBZZ + JNACBZZ

JFACBUS = Σ JFACBZZ JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS

JFTCBZZ = JFACBZZ + JFEUBZZ

JFTCBUS = Σ JFTCBZZ

Kerosene

Physical Units

Because State-level and end-use consumption data for kerosene are not available, four data series published by Energy Information Administration (EIA) representing sales of kerosene into or within each State are used to estimate kerosene consumption. The fifth data series, the U.S. total consumption, is the product supplied series from the EIA *Petroleum Supply Annual*. The sales series are used to apportion the known U.S. total consumption into State-level estimates of end-use consumption. The following variable names have been assigned to the five data series ("ZZ" in the variable names represents the two-letter State code that differs for each State):

KSCMPZZ = kerosene sold to the commercial sector for heating, in thousand barrels;

KSIHPZZ = kerosene sold to the industrial sector for heating, in thousand barrels;

KSOTPZZ = kerosene sold for all other uses, including farm use, in thousand barrels;

KSRSPZZ = kerosene sold to the residential sector for heating, in thousand barrels: and

KSTCPUS = kerosene total consumed in the United States, in thousand barrels

U.S. sales totals for each of the four State-level series are created by summing the State values.

The variables are combined as closely as possible into the major end-use sectors used in SEDS. The residential and commercial sectors contain only KSRSPZZ and KSCMPZZ, respectively.

The sales of kerosene to the industrial sector, KSINPZZ, for each State is the sum of kerosene sold for industrial space heating (KSIHPZZ) and kerosene sold for all other uses (KSOTPZZ), including farm use. Sales of kerosene to the industrial sector are calculated:

KSINPZZ = KSOTPZZ + KSIHPZZ

KSINPUS = Σ KSINPZZ

Total sales of kerosene in each State is the sum of these three sectors' sales:

KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ

KSTTPUS = Σ KSTTPZZ

An estimate of each State's total consumption of kerosene is made by disaggregating the U.S. total consumption to the States in proportion to each State's sales share of the U.S. total sales:

KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS

Each State's residential sector sales percentage of total sales is applied to the State's estimated total consumption to create estimated residential sector consumption for the State, KSRCPZZ:

KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ

The commercial sector's estimated consumption in each State, KSCCPZZ, is calculated:

KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ

The industrial sector's estimated consumption in each State, KSICPZZ, is calculated:

KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ

U.S. totals for the three sectors' consumption estimates are the sums of the States' estimated consumption.

British Thermal Units (Btu)

Kerosene has a heat content value of approximately 5.670 million Btu per barrel. This factor is applied to convert kerosene estimated consumption from physical units to Btu:

KSRCBZZ = KSRCPZZ * 5.670 KSCCBZZ = KSCCPZZ * 5.670 KSICBZZ = KSICPZZ * 5.670 Total estimated consumption of kerosene in Btu is the sum of the end-use consumption estimates.

KSTCBZZ = KSRCBZZ + KSCCBZZ + KSICBZZ

The U.S. Btu consumption estimates for the three consuming sectors and the U.S. total are calculated as the sum of the State-level data.

Additional Notes on Kerosene

- 1. See Note 4 at the end of the "Kerosene-Type Jet Fuel" section on page 41 for comments concerning the inclusion of kerosene-type jet fuel with the kerosene total product supplied prior to 1964 in the source documents.
- 2. "Sales" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1983; and "sales" for 1984 forward.
- 3. In 1979, the Energy Information Administration (EIA) implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979.") In this survey form, certain end-use categories were redefined—in many cases, to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 kerosene deliveries classifications. The pre-1979 deliveries estimates are not published in this report but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

For kerosene deliveries in 1979, the end-use categories called "residential," "commercial," and "industrial" are available. The pre-1979 deliveries category called "heating" is related to the sum of "residential," "commercial," and "industrial" in 1979. Therefore, the following method was applied to present a comparable series for kerosene delivered to the residential, commercial, and industrial sectors:

- A 1979 subtotal for heating was created by summing each State's residential, commercial, and industrial deliveries categories, thereby creating a comparable deliveries subtotal for all years.
- Residential, commercial, and industrial shares of the heating subtotal in 1979 were calculated for each State.
- These 1979 end-use shares were then applied to each pre-1979 heating subtotal in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 kerosene deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

- 4. In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." EIA did not conduct a fuel oil and kerosene sales survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years and are described in the July 1985 issue of the EIA, *Petroleum Marketing Monthly*. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the source document, the sales data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)
- 5. In 1975 through 1977, the industrial sector consumption of kerosene includes small quantities of kerosene-type jet fuel that were produced as jet fuel and sold as kerosene.

Data Sources for Kerosene

KSCMPZZ — Kerosene sold to the commercial sector for heating.

• 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of kerosene from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene, in 1979," Table 3. State ratios based on 1979 commercial sector deliveries were applied to each State's heating deliveries category from the fuel oil deliveries reports

- for each year 1960 through 1978. (See explanation in Note 3, on page 45.)
- 1979 and 1980: EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
 - 1983: July 1985 issue, Table A14.
 - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK VCS Mgal a.htm.
 - 1985 and 1986: July 1987 issue, Table A6.
 - 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://tonto.eia.doe.gov/dnav/pet/pet_cons 821ker a EPPK VCS Mgal a.htm, select Excel file labeled "Download Series History."

KSIHPZZ — Kerosene sold to the industrial sector for heating.

- 1960 through 1978: EIA estimates based on statistics of industrial sector deliveries of kerosene from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 industrial sector deliveries were applied to each State's heating deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 45.)
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
 - 1983: July 1985 issue, Table A14.
 - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK vin Mgal a.htm.
 - 1985 and 1986: July 1987 issue, Table A6.
 - 1987: June 1988 issue, Table A6.

• 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK vin Mgal a.htm, select Excel file labeled "Download Series History."

KSOTPZZ — Kerosene sold for all other uses, including farm use.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 10.
 - 1962 and 1963: Table 9.
 - 1964 and 1965: Table 8.
 - 1966 through 1975: Table 5.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 5.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene." Calculated as the sum of kerosene delivered for farm and other use from Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
 - 1983: July 1985 issue, Table A14.
 - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK VFM Mgal a.htm.
 - 1985 and 1986: July 1987 issue, Table A6.
 - 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK VOE Mgal a.htm and http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK VFM Mgal a.htm, select Excel file labeled "Download Series History."

KSRSPZZ — Kerosene sold to the residential sector for heating.

• 1960 through 1978: EIA, *Energy Data Report* "Deliveries of Fuel Oil and Kerosene in 1979," Table 3. State ratios based on 1979 residential sector deliveries were applied to each State's heating

- deliveries category from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 3, on page 45.)
- 1979 and 1980: EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene," Table 3.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 6.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
 - 1983: July 1985 issue, Table A14.
 - 1984: July 1986 issue, Table A4, subsequently revised in the EIA, Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons-821ker-a-EPPK-VRS-Mgal-a.htm.
 - 1985 and 1986: July 1987 issue, Table A6.
 - 1987: June 1988 issue, Table A6.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, http://tonto.eia.doe.gov/dnav/pet/pet cons 821ker a EPPK VRS Mgal a.htm, select Excel file labeled "Download Series History."

KSTCPUS — Kerosene total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1988 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_an_nual/psa_volume1/psa_volume1_historical.html, column titled "Products Supplied." The specific tables are:
 - 1988 through 2004: Table 2.
 - 2005 forward: Table 1.

Liquefied Petroleum Gases

Liquefied petroleum gases (LPG) in the State Energy Data System (SEDS) include: ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane.

Physical Units

The following data series used in SEDS to estimate LPG consumption represent sales or estimated sales by State in thousand gallons.

LGCBMZZ = LPG sold for internal combustion engine fuel use. Included are sales for use in all kinds of highway vehicles, forklifts, industrial tractors, and for use in oil field drilling and production;

LGHCMZZ = LPG sold for residential and commercial use. Included are sales for nonfarm private households for space heating, cooking, water heating, and other household uses, such as clothes drying and incineration. Also included are sales to nonmanufacturing organizations, such as motels, restaurants, retail stores, laundries, and other service enterprises, primarily for use in space heating, water heating, and cooking; and

LGTTPZZ = LPG total sales for all uses.

The U.S. totals for each of these State-level LPG sales data series are calculated as the sum of the State values.

Total U.S. consumption of LPG is the product supplied data series in the *Petroleum Supply Annual*, published by the Energy Information Administration (EIA):

LGTCPUS = LPG total consumed in the United States, in thousand barrels.

Another variable is used in SEDS to estimate LPG consumption by the transportation sector:

LGTRSUS = the transportation sector share of LPG internal combustion engine sales.

Its computation is described in detail in Note 2 on page 49.

Since the LPG sales data are in gallons, they must be converted to barrels (42 U.S. gallons per U.S. barrel) to be comparable to total consumption estimates. The formulas for calculating State sales data are:

LGCBPZZ = LGCBMZZ / 42

LGCBPUS = Σ LGCBPZZ LGHCPZZ = LGHCMZZ / 42 LGHCPUS = Σ LGHCPZZ

An assumption is made that 85 percent of the LPG sold for residential and commercial use (LGHCPZZ) is sold to the residential sector (LGRCPZZ), and 15 percent is sold to the commercial sector (LGCCPZZ) for all States and years. (See Note 3 on page 49.) It is also assumed that LPG sales to the residential and commercial sectors are equal to the consumption in those sectors. The formulas used are:

LGRCPZZ = LGHCPZZ * 0.85 LGCCPZZ = LGHCPZZ * 0.15

LPG consumption by the transportation sector is estimated to be the transportation share of the sales for internal combustion engine fuel:

LGACPZZ = LGCBPZZ * LGTRSUS

An estimate of each State's total LPG consumption (LGTCPZZ) is made by allocating the U.S. total consumption to the States in proportion to each State's share of the U.S. total sales:

LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS

Industrial sector consumption (LGICPZZ) for each State is the difference between the State's total LPG consumption and the sum of its residential, commercial, and transportation sectors' consumption:

LGICPZZ = LGTCPZZ - (LGRCPZZ + LGCCPZZ + LGACPZZ)

U.S. totals for the four end-use sector consumption estimates are calculated as the sums of the State estimates.

British Thermal Units (Btu)

The factor for converting LPG from physical unit values to Btu, LGTCKUS, is calculated annually for 1967 forward by EIA as a consumption-weighted average of the heat contents of the component products (ethane, propane, butane, butane-propane, ethane-propane, and isobutane) as shown in Appendix B. LGTCKUS is shown in Table B1 on page 145 and

the individual product heat contents are listed beginning on page 158. For 1960 through 1966, EIA adopted the Bureau of Mines thermal conversion factor of 4.011 million Btu per barrel.

This factor is used to estimate consumption in Btu for all States and end uses:

LGRCBZZ = LGRCPZZ * LGTCKUS LGCCBZZ = LGCCPZZ * LGTCKUS LGICBZZ = LGICPZZ * LGTCKUS LGACBZZ = LGACPZZ * LGTCKUS

Total estimated consumption of LPG in Btu is the sum of the end-use consumption estimates:

LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ

The U.S. Btu consumption estimates for the four sectors and total LGP are calculated as the sum of the State data.

Additional Notes on Liquefied Petroleum Gases

 Sales data for Maryland and the District of Columbia are combined in the source documents. Sales data are published in six categories. The percentages shown in Table TN5 are applied to disaggregate the State data in each of the sectors for all years.

Table TN5. Percentages Used to Disaggregate Maryland and D.C. Combined LPG Sales Data

Maryland	D.C.
99.9%	0.1%
98.9	1.1
99.4	0.6
100.0	0.0
100.0	0.0
100.0	0.0
	99.9% 98.9 99.4 100.0 100.0

- 2. Sales of LPG for internal combustion engine fuel use are divided between the transportation sector and the industrial sector by using LGTRSUS, the transportation sector's share of internal combustion engine use. LGTRSUS is estimated from data on "special fuels used on highways," a category that includes only LPG and diesel fuel. The special fuels data are published by the U.S. Department of Transportation, Federal Highway Administration (see MGSFPZZ on page 57). The quantity of LPG included in special fuels is estimated each year (the LPG portion ranges from 8.4 percent in 1960 to 0.6 percent in 2007). LGTRSUS is then derived by dividing the quantity of LPG included in special fuels used on highways by the quantity of LPG sold for internal combustion engine use. This U.S. factor is applied to the internal combustion engine use of each State. LGTRSUS values are shown in Table TN6.
- 3. Little information exists for allocating the residential and commercial use of LPG to the individual sectors. SEDS applies an 85 percent residential and 15 percent commercial split for all States and years based on figures published in the Federal Energy Administration Project Independence Blueprint Task Force Report, "Residential and

Table TN6. Transportation Sector Share of LPG Internal Combustion Engine Use, 1960 Forward

Year	LGTRSUS	Year	LGTRSUS	Year	LGTRSUS
1960	0.229	1976	0.440	1992	0.425
1961	0.258	1977	0.478	1993	0.443
1962	0.266	1978	0.594	1994	0.734
1963	0.273	1979	0.536	1995	0.416
1964	0.259	1980	0.380	1996	0.337
1965	0.290	1981	0.671	1997	0.278
1966	0.325	1982	0.579	1998	0.592
1967	0.368	1983	0.578	1999	0.364
1968	0.389	1984	0.631	2000	0.215
1969	0.341	1985	0.440	2001	0.204
1970	0.363	1986	0.456	2002	0.325
1971	0.423	1987	0.375	2003	0.373
1972	0.392	1988	0.437	2004	0.365
1973	0.384	1989	0.428	2005	0.513
1974	0.381	1990	0.471	2006	0.496
1975	0.406	1991	0.426	2007	0.370

Commercial Energy Use Patterns, 1970–1990," November 1974, Table 1.A.1.

LPG sales data by State and end-use categories for 1960 through 1982 are from EIA's "Sales of Liquefied Petroleum Gases and Ethane." In 1979, EIA modified the LPG sales survey, Form EIA-174, and changed the list of respondents. Because of the updated sampling frame, the 1979 through 1982 sales data may not be directly comparable to the pre-1979 sales when a different estimation procedure was used. Explanation of the discontinuities caused by the change in the 1979 sampling frame are provided in EIA's Energy Data Report, "Sales of Liquefied Petroleum Gases and Ethane in 1979."

Because of the change in survey techniques used for measuring LPG sales, many States' data were withheld from publication in the 1979 through 1982 LPG sales reports to avoid disclosure of company-level data. The consumption estimates in SEDS use all data published in the 1979 through 1982 LPG sales reports and estimates prepared by EIA's Office of Oil and Gas for data that were withheld from publication. (See Note 5 following for estimation procedures.)

Some end-use categories changed in 1979 due to redefinition of the classifications. One of these changes, for example, occurred with LPG sold to farms for household heating and cooking. Prior to 1979 these sales were reported as part of the residential and commercial category, while in 1979 they were counted in the farm use category that goes into the industrial sector in SEDS. No attempt has been made to adjust for this type of inconsistency.

The Form EIA-174 was cancelled after collection of 1982 data. The 1983 LPG consumption estimates are based on the assumption that LPG end-use sector demand in 1983 occurred in the same proportion as 1982 sector demand within each State; i.e., the 1983 LPG product supplied figure was allocated to the States by using the distribution of volumes consumed for 1982.

- 5. The following procedures were used to estimate the State end-use sales that were withheld from publication in the 1979-1982 LPG sales reports:
 - For each year, missing State total sales were estimated by allocating the sum of the missing State sales within each Petroleum

Administration for Defense (PAD) District to the individual States, in proportion to the sum of the known end-use sales for those States.

- Missing PAD District end-use totals for 1979 and 1980 were obtained by using the 1980 and 1981 sales reports. Missing PAD District chemical sales were estimated by allocating the total missing volume of chemical sales to the PAD District in proportion to the number of chemical plants in each PAD District. The remaining PAD District end-use totals were obtained by subtraction. For 1981 and 1982, no PAD District estimations were necessary because all PAD District end-use totals are known.
- The published data and the estimated State and PAD District end-use totals were used to estimate missing State end-use sales volumes within a PAD District: missing State end-use sector values were estimated by allocating the missing volume for the State approximately proportional to the PAD District end-use sector totals.
- 6. Prior to 1979, State data for chemical use of LPG were withheld from publication, although they were included in the U.S. total in the tables in EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports. Beginning in 1979, State-level chemical use data were published in the LPG sales reports, but data for several States were withheld. Estimates for the withheld data for chemical use sales for 1979 and 1980 were created by using the estimation procedure described in Note 5 above. Then the published and the estimated State data for 1979 were used to create State shares of the total U.S. chemical use sales. These percentage shares (shown in Table TN7) were applied to the total U.S. LPG chemical use sales in 1960 through 1978 to create State chemical use estimates. The chemical use estimates were added to the States' total LPG sales series, LGTTPZZ.
- 7. Beginning in 1984, the American Petroleum Institute (API), the Gas Processors Association, and the National LP-Gas Association jointly sponsored an LPG sales survey. The results are published in the API's report *Sales of Natural Gas Liquids and Liquefied Refinery Gases*. These data include sales of pentanes plus; the pentanes plus data were removed by EIA prior to use in SEDS.

Table TN7. State Shares of the Total U.S. LPG Sold for Chemical Use, 1960 Through 1978

State	Percent	State	Percent
Alabama	0.000	Montana	0.000
Alaska	0.589	Nebraska	0.000
Arizona	0.000	Nevada	0.000
Arkansas	0.000	New Hampshire	0.000
California	2.667	New Jersey	2.040
Colorado	0.232	New Mexico	0.603
Connecticut	0.053	New York	0.000
Delaware	0.811	North Carolina	0.327
District of Columbia	0.000	North Dakota	0.000
Florida	0.000	Ohio	1.103
Georgia	0.699	Oklahoma	0.309
Hawaii	0.000	Oregon	0.000
Idaho	0.000	Pennsylvania	0.354
Illinois	7.066	Rhode Island	0.000
Indiana	0.243	South Carolina	0.021
Iowa	0.900	South Dakota	0.000
Kansas	0.451	Tennessee	0.000
Kentucky	2.548	Texas	57.425
Louisiana	20.566	Utah	0.000
Maine	0.012	Vermont	0.000
Maryland	0.050	Virginia	0.025
Massachusetts	0.009	Washington	0.000
Michigan	0.151	West Virginia	0.286
Minnesota	0.000	Wisconsin	0.000
Mississippi	0.315	Wyoming	0.091
Missouri	0.054	United States	100.000

Beginning in 1997, API incorporated additional imports and exports data in their estimates. Those trade data are also removed by EIA prior to use in SEDS.

Data Sources for Liquefied Petroleum Gases

LGCBMZZ — LPG sold for internal combustion engine use by State.

Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 49.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
 - 1960 and 1961: Table 5 (data called "Shipments").
 - 1962 through 1966: Table 2 (data called "Consumption").
 - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual*, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Note 7, on page 50.)

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5, 18, and 19.
- 1992 forward: American Petroleum Institute, http://api-ec.api.org, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.

LGHCMZZ — LPG sold for residential and commercial use by State. Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 49.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
 - 1960 and 1961: Table 5 (data called "Shipments").
 - 1962 through 1966: Table 2 (data called "Consumption").
 - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.

- 1981 and 1982: EIA, *Petroleum Supply Annual*, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Note 7, on page 50.)

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5, 18, and 19.
- 1992 forward: American Petroleum Institute, Sales of Natural Gas Liquids and Liquefied Refinery Gases, http://api-ec.api.org, Table 3.

LGTCKUS — Factor for converting LPG from physical units to Btu.

- 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel.
- 1967 forward: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Their heat content conversion factors are listed in Appendix B beginning on page 158. Quantities consumed are from:
 - 1967 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
 - 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/ petroleum supply annual/psa volume1/psa volume1 historica l.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

LGTCPUS — LPG total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.

- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petro_ leum_supply_annual/psa_volume1/psa_volume1_historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

LGTRSUS — The transportation sector share of LPG internal combustion engine sales.

• EIA estimates based on the LPG portion of the special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration (variable MGSFPUS in SEDS), as a percentage of the LPG sold for internal combustion engine use published by the American Petroleum Institute (variable LGCBMUS in SEDS). For an explanation of the estimation method, see Note 2, on page 49.

LGTTPZZ — LPG total sales for all uses by State.

Note: Data for Maryland and the District of Columbia are combined for all years. The method for disaggregating the data is explained in Note 1, on page 49.

- 1960 through 1967: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Liquefied Petroleum Gases and Ethane." The specific tables are:
 - 1960 and 1961: Table 5 (data called "Shipments").
 - 1962 through 1966: Table 2 (data called "Consumption").
 - 1967: Table 2 (data called "Shipments").
- 1968 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1976 through 1980: EIA, *Energy Data Reports*, "Sales of Liquefied Petroleum Gases and Ethane," Table 2.
- 1981 and 1982: EIA, *Petroleum Supply Annual*, "Sales of Liquefied Petroleum Gases and Ethane," Table 3.
- 1983: EIA estimates.

Note: For 1984 forward, some data are adjusted and estimated by EIA. (See explanation in Note 7, on page 50.)

- 1984 through 1988: American Petroleum Institute, 1990 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 24 through 33.
- 1989 through 1991: American Petroleum Institute, 1992 Sales of Natural Gas Liquids and Liquefied Refinery Gases, pages 4, 5, 18, and 19.

• 1992 forward: American Petroleum Institute, http://api-ec.api.org, Sales of Natural Gas Liquids and Liquefied Refinery Gases, Table 3.

Lubricants

Physical Units

Three data series are used to estimate State consumption of lubricants. The two State-level sales data series are used to apportion the U.S. total consumption data to the States and the end-use sectors within the States. "ZZ" in the variable names represents the two-letter State code that differs for each State:

LUINPZZ = lubricants sold to the industrial sector, in thousand barrels:

LUTRPZZ = lubricants sold to the transportation sector, in thousand barrels; and

LUTCPUS = lubricants total consumed in the United States, in thousand barrels.

Data for the first two variables are developed from the Bureau of the Census reports "Sales of Lubricating and Industrial Oils and Greases" in the *Current Industrial Reports* series. These series were discontinued in 1977 and the method of estimation for 1978 forward is explained in Note 1 at the end of this "Lubricants" section. The third variable for lubricants is the product supplied data series in the Energy Information Administration's (EIA) *Petroleum Supply Annual*. The first two variables are used for apportioning the third into State total consumption and State end-use consumption estimates.

Total sales of lubricants for each State, LUTTPZZ, is created by adding the industrial and transportation sales:

LUTTPZZ = LUINPZZ + LUTRPZZ

U.S. sales totals are calculated by summing the State sales data.

Each State's proportion of total U.S. sales is used to calculate each State's estimated consumption of lubricants:

LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS

Each State's estimated total consumption of lubricants is further divided into end-use estimates in proportion to that State's sales by sector as a portion of total sales in the State. Lubricants consumed by State for industrial use, LUICPZZ, and for transportation use, LUACPZZ, are calculated:

LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ

The consumption of lubricants in the United States by these two end-use sectors is created by summing the State estimates.

British Thermal Units (Btu)

Lubricants have a heat content value of approximately 6.065 million Btu per barrel. This factor is applied to convert lubricants estimated consumption from physical units to Btu:

LUICBZZ = LUICPZZ * 6.065 LUACBZZ = LUACPZZ * 6.065

The State total consumption in Btu is the sum of the two sectors' consumption in Btu:

LUTCBZZ = LUICBZZ + LUACBZZ

The U.S. sector and total consumption estimates in Btu are calculated as the sum of the State data.

Additional Notes on Lubricants

- 1. The lubricants sales data (LUINPZZ and LUTRPZZ) were published approximately every other year by the Bureau of the Census until the discontinuation of the series after 1977. Each year's sales data have been used to calculate that year's and at least one other year's consumption estimates. Table TN8 specifies which years of consumption estimates depend on which years of the sales data.
- 2. The sales data from the source document for LUINPZZ and LUTRPZZ are available in incompatible units. The industrial series,

Table TN8. Lubricants Sales Data Used in Consumption Estimates

Year of Sales Data	Year of Consumption Estimates			
1960	1960 and 1961			
1962	1962, 1963, and 1964			
1965	1965 and 1966			
1967	1967 and 1968			
1969	1969 and 1970			
1971	1971 and 1972			
1973	1973 and 1974			
1975	1975 and 1976			
1977	1977 forward			

LUINPZZ, is oils and greases sold for industrial lubricating and other uses measured in thousand gallons. The transportation series, LUTRPZZ, is oils and greases sold for automotive and aviation uses measured in thousand pounds. Prior to use in SEDS, these were converted to thousand barrels by dividing the oil data by 42 gallons per barrel and dividing the greases data by 300 pounds per barrel. In the source document, some State data are not published to avoid disclosing figures for individual companies. The undisclosed data were entered as zero in SEDS.

Data Sources for Lubricants

LUINPZZ — Lubricants sold to the industrial sector by State. Calculated from:

• U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Notes 1 and 2 above.)

LUTCPUS — Lubricants total consumed in the United States.

• 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.

- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, Table 2, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

LUTRPZZ — Lubricants sold to the transportation sector by State. Calculated from:

• U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases," for 1960, 1962, 1965, 1967, 1969, 1971, 1973, 1975, and 1977. (See explanation in Notes 1 and 2 on page 53.)

Motor Gasoline

Physical Units

Nine data series are used to estimate the State end-use consumption of motor gasoline. Eight of the series are from the U.S. Department of Transportation, Federal Highway Administration publication, *Highway Statistics*, and represent sales of motor gasoline. The sales data are categorized as sales for highway and nonhighway use:

- **Highway Use** sales data (MGMFP) are from the *Highway Statistics* Table MF-21; however, they are reduced by the amount of highway "special fuels" (MGSFP) used in each State each year as reported on Table MF-25 (prior to 1994) and Table MF-21 (1994 forward). Special fuels are primarily diesel fuels, not motor gasoline, and are included in the transportation sector of distillate fuel oil.
- Nonhighway Use sales are further subdivided into sales for: (1) public use by States, counties, and municipalities (MGPNP) from Table MF-21, and (2) private and commercial use as reported on MF-24. The private and commercial nonhighway use of motor gasoline has the following components: agricultural use (MGAGP), industrial and commercial use (MGIYP), construction use (MGCUP), marine use

(MGMRP), and miscellaneous and unclassified uses (MGMSP). Another component of the private and commercial nonhighway series is aviation gasoline (AVNMM), which is discussed under the "Aviation Gasoline" section of this documentation.

The ninth motor gasoline data series (MGTCPUS) is the total U.S. consumption of motor gasoline published in the product supplied series in the EIA publication *Petroleum Supply Annual*.

The nine motor gasoline data series are ("ZZ" in the variable names represent the two-letter State code that differs for each State):

MGAGPZZ = motor gasoline sold for agricultural use in each State, in thousand gallons;

MGCUPZZ = motor gasoline sold for construction use in each State, in thousand gallons:

MGIYPZZ = motor gasoline sold for industrial and commercial use in each State, in thousand gallons;

MGMFPZZ = motor fuel sold for highway use in each State, in thousand gallons;

MGMRPZZ = motor gasoline sold for marine use in each State, in thousand gallons;

MGMSPZZ = motor gasoline sold for miscellaneous and unclassified uses in each State, in thousand gallons;

MGPNPZZ = motor fuel sold for public nonhighway use in each State, in thousand gallons;

MGSFPZZ = special fuels (primarily diesel fuel with small amounts of liquefied petroleum gases) sold in each State, in thousand gallons; and

MGTCPUS = motor gasoline total consumed in the United States, in thousand barrels.

U.S. totals for the eight State-level series named above are calculated as the sum of the State data.

The transportation sector accounts for most of the motor gasoline sales. Sales to the transportation sector is estimated to be the sum of motor fuel sales for marine use and for highway use (minus the sales of special fuels, which are primarily diesel fuels and are accounted for in the transportation sector of distillate fuel oil). Sales of motor gasoline to the transportation sector in each State (MGTRPZZ) is calculated:

MGTRPZZ = MGMFPZZ + MGMRPZZ - MGSFPZZ

Two sales data series are added to estimate motor gasoline sales to the commercial sector: miscellaneous (including unclassified) and public nonhighway sales. Sales of motor gasoline to the commercial sector in each State (MGCMPZZ) is calculated:

MGCMPZZ = MGMSPZZ + MGPNPZZ

Sales of motor gasoline for use in the industrial sector in each State (MGINPZZ) is calculated as the sum of the sales for agricultural use, for construction use, and for industrial and commercial use:

MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ

Total sales of motor gasoline in each State (MGTTPZZ) is calculated as the sum of the sales to the major sectors:

MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ

U.S. totals for the three end-use sectors' sales and for total sales are calculated as the sum of the States' sales.

The motor gasoline sales data for the three end-use sectors in each State are used to apportion the U.S. total consumption of motor gasoline to the States and to the major end-use sectors within each State.

The estimated consumption of motor gasoline in each State is calculated according to each State's share of the total sales. Estimated consumption of motor gasoline in each State (MGTCPZZ) is calculated:

MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPUS

The commercial sector estimated consumption of motor gasoline (MGCCPZZ) is calculated:

MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ

The industrial sector estimated consumption (MGICPZZ) is calculated:

MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ

The transportation sector estimated consumption (MGACPZZ) is calculated:

MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ

The consumption of motor gasoline by major end-use sector in the United States is estimated by summing the States' estimated consumption.

British Thermal Units (Btu)

A national factor, MGTCKUS, is used to convert motor gasoline consumption from physical units to British thermal units for each State. A constant heat content of 5.253 million Btu per barrel is used for 1960 through 1993. Beginning in 1994, an annual quantity-weighted average factor for conventional, reformulated, and oxygenated motor gasoline is calculated by EIA. The factors, listed in Table B1 on page 145, are used for each State:

MGCCBZZ = MGCCPZZ * MGTCKUS MGICBZZ = MGICPZZ * MGTCKUS MGACBZZ = MGACPZZ * MGTCKUS

MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ

The U.S. level Btu consumption estimates are calculated by summing the State data.

Data Sources for Motor Gasoline

MGAGPZZ — Motor gasoline sold for agricultural use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-24 in 1965 and Table MF-24 in 1966 forward.

MGCUPZZ — Motor gasoline sold for construction use by State.

• 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.

• 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-24 in 1965 and Table MF-24 in 1966 forward.

MGIYPZZ — Motor gasoline sold for industrial and commercial use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-24 in 1965 and Table MF-24 in 1966 forward.

MGMFPZZ — Motor fuel sold for highway use by State.

- 1960 through 1995: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics Summary to 1995*, Table MF-221 gives revised U.S. totals. State revisions can be calculated by adding data from Tables MF-225 and MF-226.
- 1996 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table MF-21.

MGMRPZZ — Motor gasoline sold for marine use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24.
- 1965 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-24 in 1965 and Table MF-24 in 1966 forward.

MGMSPZZ — Motor gasoline sold for miscellaneous uses by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.
- 1965: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Table G-24. Sum of the "Miscellaneous" column plus the "Unclassified" column minus the "Total Classified" column.

- 1966 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table MF-24. The specific columns are:
 - 1966 through 1981: Sum of the "Miscellaneous" and "Unclassified" columns.
 - 1982 forward: The "Miscellaneous" column.

MGPNPZZ — Motor fuel sold for public nonhighway use by State.

- 1960 through 1964: U.S. Department of Commerce, Bureau of Public Roads, *Highway Statistics*, Table G-21.
- 1985, 1987, and 1992: Unpublished revised State data comparable to the U.S. values published in *Highway Statistics Summary to 1995*, Table 221.
- 1965 through 1984, 1986, 1988 through 1991, and 1993 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table G-21 in 1965 and Table MF-21 in 1966 forward.

MGSFPZZ — Motor gasoline special fuels sales by State (primarily diesel fuel with small amounts of liquefied petroleum gases).

- 1960 through 1995: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, Summary to 1995*, Table MF-225.
- 1996 forward: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, http://www.fhwa.dot.gov/policy/ohpi/hss/hsspubs.htm, Table MF-21.

MGTCKUS — Factor for converting motor gasoline from physical units to Btu.

- 1960 through 1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of Competition and Growth in American Energy Markets 1947-1985, a 1968 release of historical and projected statistics.
- 1994 forward: EIA calculates national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (shown in Appendix B Table B1 on page 145). The factor for conventional motor gasoline is 5.253 million Btu

per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in the Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, *Fuel Economy Impact Analysis of Reformulated Gasoline*, http://www.epa.gov/otaq/rfgecon.htm.

MGTCPUS — Motor gasoline total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
 - For 1960 through 1963, motor gasoline was combined with aviation gasoline and published as "gasoline" in the source table. Table 19 in the "Petroleum Statement, Annual" titled "Salient Statistics of Aviation Gasoline" provided separate data for aviation gasoline for those years. The aviation gasoline data from the second table were subtracted from the gasoline data in the first table to derive the motor gasoline consumption series used in SEDS.
- 1976 through 1980: EIA, *Energy Data Reports*. "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1_historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Petroleum Coke

In the State Energy Data System consumption tables, petroleum coke is included in the category "other petroleum products" (see descriptions beginning on page 67 and summary table on page 28).

Physical Units

Seven data series are used to estimate the consumption of petroleum coke. Five are measures of petroleum coke consumption and two are indicators of industrial activity used to apportion U.S. industrial petroleum coke

consumption to the States. "ZZ" in the variable name represents the two-letter State code that differs for each State:

PCTCPUS	= petroleum coke total consumed in the United States, in
	thousand barrels;
PCEIMZZ	= petroleum coke consumed by the electric power sector in
	each State in thousand short tons:

PCC3MZZ = petroleum coke consumed for combined heat and power in the commercial sector in each State, in thousand short tons;

PCI3MZZ = petroleum coke consumed for combined heat and power in the industrial sector in each State, in thousand short tons:

PCRFPZZ = petroleum coke used at refineries as both catalytic and marketable coke in each State, or group of States, or Petroleum Administration for Defense (PAD) district, in thousand barrels;

CTCAPZZ = catalytic cracking charge capacity of petroleum refineries in each State, in barrels per calendar day (1960 through 1979) and barrels per stream day (1980 forward); and

AICAPZZ = aluminum ingot production capacity in each State, in short tons.

The total consumption of petroleum coke in the United States (PCTCPUS) is the product supplied series from the Energy Information Administration (EIA) *Petroleum Supply Annual*.

Information on the amount of petroleum coke consumed for the purpose of generating electricity is available from the EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. For the electric power sector (PCEIM), these data are available for 1970 forward. Prior to 1970, consumption is assumed to be zero. For 1989 forward, the electric power sector includes petroleum coke consumed by electric utilities and nonutility power producers whose primary business is to sell electricity or electricity and heat. Quantities of petroleum coke used by commercial (PCC3M) and industrial (PCI3M) facilities in combined-heat-and-power units are also available from Form EIA-920, and are included in the commercial and industrial sectors, respectively.

The data for petroleum coke used to generate electricity are in thousand short tons and are converted into thousand barrels in the State Energy Data System (SEDS) by applying a conversion factor of 5 barrels per short ton, and the U.S. value is the sum of the State data:

PCEIPZZ = PCEIMZZ * 5 PCEIPUS = Σ PCEIPZZ

PCCCPZZ = PCC3MZZ * 5 PCCCPUS = Σ PCCCPZZ

PCI3PZZ = PCI3MZZ * 5 PCI3PUS = Σ PCI3PZZ

To estimate U.S. industrial consumption of petroleum coke, U.S. electric power and commercial consumption are subtracted from the total U.S. petroleum coke product supplied:

PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS

In addition to combined-heat-and-power generation, petroleum coke is used in the industrial sector as catalyst coke at refineries in a process for increasing the yield of gasoline from crude oil (catalytic cracking) and for other industrial uses (mainly for conversion into electrodes that are consumed in the production of aluminum).

State-level estimates of the refinery consumption of petroleum coke are calculated by assuming that each State consumes petroleum coke in proportion to the catalytic cracking charge capacity (CTCAPZZ) of the refineries in the State. The U.S. total for the State-level data allocating series is calculated by summing the State data.

CTCAPUS = Σ CTCAPZZ

Petroleum coke consumed by refineries for 1960 through 1980 is available for some States while quantities for other States are grouped (G1 through G7 as indicated by GZ in the following formulas). The group quantities are allocated to the States within each group in proportion to each State's portion of the group's catalytic cracking charge capacity. For 1981 forward, PAD district data (P1 through P5 as indicated by PZ in the following formulas) are allocated in the same way to the States within each district:

PCRFPZZ = PCRFPZZ, or

PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ (1 through 7), or

PCRFPZZ = (CTCAPZZ / CTCAPPZ) * PCRFPPZ (1 through 5)

PCRFPUS = Σ PCRFPZZ

U.S. petroleum coke used at combined-heat-and-power plants (PCI3PUS) and at refineries (PCRFPUS) are subtracted from the U.S. industrial sector consumption to derive U.S. consumption of petroleum coke for all other industrial uses:

PCOCPUS = PCICPUS - PCI3PUS - PCRFPUS

State-level estimates of petroleum coke consumed by other industrial users, mainly aluminum production, are assumed to be in proportion to each State's aluminum ingot production capacity (AICAPZZ). For 1993 forward, State-level aluminum production capacity is adjusted to account for under-utilization of the plants. Although AICAPZZ is measured in short tons, it is not converted to thousand barrels because it is used only as a State-level allocator. The U.S. total is calculated as the sum of the State data and other industrial use of petroleum coke is allocated to the States as follows:

AICAPUS = Σ AICAPZZ

PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS

Industrial sector petroleum coke consumption by State is the sum of combined-heat-and-power industrial use, consumption at refineries, and all other industrial uses:

PCICPZZ = PCI3PZZ + PCRFPZZ + PCOCPZZ

Total petroleum coke consumption by State is the sum of commercial, industrial, and electric power sector use:

PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ

British Thermal Units (Btu)

Petroleum coke has a heat content value of approximately 6.024 million Btu per barrel. This factor is applied to convert estimated petroleum coke consumption from physical units to Btu by State; and the U.S. totals are the sum of the States' values:

PCCCBZZ = PCCCPZZ * 6.024

PCCCBUS = Σ PCCCBZZ

PCICBZZ = PCICPZZ * 6.024

PCICBUS = Σ PCICBZZ

PCEIBZZ = PCEIPZZ * 6.024

PCEIBUS = Σ PCEIBZZ

PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ

PCTCBUS = Σ PCTCBZZ

Additional Calculations

Additional calculations are performed in SEDS to provide petroleum coke consumption estimates for the price and expenditure calculations. The Btu equivalents of petroleum coke used at refineries (PCRFB), consumed for combined-heat-and-power generation (PCI3B), and consumed by all other industrial users (PCOCB) are calculated at the State and U.S. levels:

PCI3BZZ = PCI3PZZ * 6.024

PCI3BUS = Σ PCI3BZZ

PCOCBZZ = PCOCPZZ * 6.024

PCOCBUS = Σ PCOCBZZ

PCRFBZZ = PCRFPZZ * 6.024

PCRFBUS = Σ PCRFBZZ

Additional Notes on Petroleum Coke

The source for petroleum coke used at refineries, PCRFPUS and PCRFPGZ, is the EIA *Petroleum Supply Annual* and predecessor reports. For 1960 through 1980, the data are provided in thousand short tons. For consistency with later years' data, the 1960 through 1980 data are first converted into thousand barrels before being used in SEDS. For 1960 through 1967, the data are published for Texas and New Mexico and for groups of

other States. For 1968 through 1980, the data are given for 19 individual States with the remaining States are combined into 7 groups. The data for 1960 through 1967 are disaggregated into the 19 States and 7 groups used for the later years, prior to being entered into SEDS, by using the proportions of the 1968 data, which was published in both formats. For 1981 forward, the data are published by PAD districts only.

Data Sources for Petroleum Coke

AICAPZZ — Aluminum ingot production capacity in each State.

- 1960 through 1973: American Bureau of Metal Statistics, Year Book.
- 1974 through 1994: American Bureau of Metal Statistics, Non-Ferrous Metal Data, table titled "Aluminum Ingot Production Capacity." Note: Capacities for individual plants owned by one company have been withheld since 1986. The company's total capacity has been apportioned to the individual plants on the basis of their proportional capacities in 1985.
- 1995 forward: U.S. Department of the Interior, U.S. Geological Survey, Minerals Yearbook.

CTCAPZZ — Catalytic cracking charge capacity of petroleum refineries by State.

- 1960: Data are unavailable from published reports. The 1961 values are used for 1960.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Refineries in the United States." The specific tables are:
 - 1961 and 1962: Table 7, under "Cracking Capacity" column heading "Charge."
 - 1963: Table 6, under "Catalytic-Cracking Capacity" column heading "Charge."
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by State.
- 1977: EIA, Energy Data Reports, "Petroleum Refineries in the United States and Puerto Rico," Table 2, all entries next to "Cat. Ck." summed by State.

- 1978: EIA, Energy Data Reports, "Petroleum Refineries in the United States and U.S. Territories," Table 2, all entries next to "Cat. Ck." summed by State.
- 1979 and 1980: EIA, Energy Data Reports, "Petroleum Refineries in the United States and U.S. Territories." The specific tables are:
 - 1979: Table 2, sum of "Catalytic Cracking" columns, "Fresh" and "Recycle."
 - 1980: Table 1, sum of "Catalytic Cracking (fresh)" and "Catalytic Cracking (recycle)" columns.
- 1981 forward: EIA, Petroleum Supply Annual, sum of "Catalytic Cracking (Fresh)" and "Catalytic Cracking (Recycled)" columns in the following tables:
 - 1981 through 1983: Table 1.
 - 1984: Table 30.
 - 1985 through 1989: Table 29.
 - 1989 through 1994: Table 36.
 - 1995: Data series became biannual. 1994 data used for 1995.
 - 1996: Table 36.
 - 1997: 1996 data used for 1997.
 - 1998 through 2004: Table 36, http://www.eia.doe.gov/ oil gas/petroleum/data publications/petroleum supply annual /psa_volume1/psa_volume1_historical.html.
 - 2005 forward: EIA, Refinery Capacity Report, Table 1, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/ refinery capacity data/refcap historical.html.

PCC3MZZ — Petroleum coke consumed for combined heat and power in the commercial sector by State.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

PCEIMZZ — Petroleum coke consumed by the electric power sector by State.

- 1960 through 1969: No data available. Values are assumed to be
- 1970 forward: EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

PCI3MZZ — Petroleum coke consumed for combined heat and power in the industrial sector by State.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

PCRFPZZ, PCRFPGZ, or PCRFPPZ — Petroleum coke consumed at refineries (both catalyst and marketable) by State or groups of States.

- 1960: No data available. The 1961 value is used for 1960.
- 1961 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual." The specific tables are:
 - 1961 and 1962: Table 18.
 - 1962 through 1966: Table 19.
 - 1967: Table 18.
 - 1968: Table 19.
 - 1969 through 1972: Table 18.
 - 1973 and 1974: Table 21.
 - 1975: Table 22.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual." The specific tables are:
 - 1976: Table 22.
 - 1977: Table 21.
 - 1978 through 1980: Table 20.
- 1981 through 2004: EIA, *Petroleum Supply Annual*. The specific tables are:
 - 1981 and 1982: Table 17.
 - 1983: Table 15.
 - 1984: Table 44.
 - 1985: Table 43.
 - 1986 through 1988: Table 38.
 - 1989 through 1992: Table 45.
 - 1995 and 1997: Table 36.
 - 1993 and 1994, 1996, and 1998 through 2004: historical.html, Table 47.
- 2005 forward: EIA, EIA, Refinery Capacity Report, Table 12, http://www.eia.doe.gov/oil gas/petroleum/data publications/refinery capacity data/refcap historical.html. Also available in the

Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/
pet pnp capfuel a (na) 8FPP0 Mbbl a.htm.

PCTCPUS — Petroleum coke total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Report*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Residual Fuel Oil

Physical Units

Since State-level end-use consumption data for residual fuel oil (with the exception of electric power sector data) are not available, sales of residual fuel oil into or within each State, published by the Energy Information Administration (EIA) in the *Fuel Oil and Kerosene Sales Report*, are used to estimate residual fuel oil consumption. The following variable names have been assigned to the sales series, in thousand barrels ("ZZ" in the following variable names represents the two-letter State code that differs for each State):

RFBKPZZ = residual fuel oil sold for vessel bunkering use (i.e., the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies, and fueling for other marine purposes), excluding sales to the Armed Forces:

RFCMPZZ = residual fuel oil sold to the commercial sector for heating; RFIBPZZ = residual fuel oil sold to industrial establishments for space heating and for other industrial use (i.e., for all uses to

mine	s, smelters	, plants	engaged	in prod	ucing	manufac-
tured	products,	in proc	essing goo	ods, and	in ass	embling);

RFMIPZZ = residual fuel oil sold to the Armed Forces, regardless of use;

RFMSPZZ = residual fuel oil sold for all other uses not identified in other sales categories;

RFOCPZZ = residual fuel oil sold for oil company use, including all fuel oil, crude oil, or acid sludge used as fuel at refineries, by pipelines, or in field operations; and

RFRRPZZ = residual fuel oil sold to the railroads for use in fueling trains, operating railroad equipment, space heating of buildings, and other operations.

Two other data series that represent consumption of residual fuel oil are:

RFEIPZZ = residual fuel oil consumed by the electric power sector in each State, in thousand barrels.

RFTCPUS = residual fuel oil total supplied in the United States, in thousand barrels.

Residual fuel oil consumed by the electric power sector (RFEIPZZ) is collected by EIA on Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. (See Note 3 at the end of this residual fuel oil section for further information on changes in this series' data definitions.)

Total U.S. consumption of residual fuel oil, RFTCPUS, is the product supplied series in EIA's publication *Petroleum Supply Annual*.

All State-level data series listed above are summed to provide totals for the United States.

The data series are then combined as closely as possible into the major end-use sectors used in the State Energy Data System (SEDS). No residual fuel oil is sold to the residential sector. residual fuel oil sales to the commercial sector is the RFCMPZZ series.

The sales of residual fuel oil to the industrial sector in each State, RFINPZZ, is the sum of the residual fuel oil sold for industrial use, including industrial space heating (RFIBPZZ), for oil company use (RFOCPZZ), and for all other uses (RFMSPZZ):

RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ RFINPUS = Σ RFINPZZ

The sales of residual fuel oil to the transportation sector in each State, RFTRPZZ, is the sum of the residual fuel oil sales for vessel bunkering (RFBKPZZ), military use (RFMIPZZ), and railroad use (RFRRPZZ):

RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ RFTRPUS = Σ RFTRPZZ

Sales of residual fuel oil to the commercial, industrial, and transportation sectors are added to create a subtotal of sales to all sectors other than the electric power sector (RFNDPZZ):

RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = Σ RFNDPZZ

The estimated residual fuel oil consumption for the United States by all sectors other than the electric power sector (RFNCPUS) is calculated by subtracting the total residual fuel oil consumption for the electric power sector from the total U.S. residual fuel oil consumption:

RFNCPUS = RFTCPUS - RFEIPUS

This U.S. subtotal of residual fuel oil consumption by the end-use sectors combined (RFNCPUS) is apportioned to the States by using the States' end-use sector sales data. The assumption is made that each State consumes residual fuel oil in proportion to the amount sold in that State:

RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS

The end-use sectors' subtotal for each State is further divided into estimates for each sector in proportion to each sector's sales. The estimated commercial sector consumption in each State, RFCCPZZ, is calculated:

RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ

The industrial sector's estimated consumption in each State, RFICPZZ, is calculated:

RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ

The transportation sector's estimated consumption in each State, RFACPZZ, is calculated:

RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ

The consumption of residual fuel oil in the United States by the major end-use sectors is estimated by adding the States' estimated consumption.

Total State residual fuel oil consumption is the sum of the end-use sectors' consumption subtotal and the electric power sector consumption:

RFTCPZZ = RFNCPZZ + RFEIPZZ

British Thermal Units (Btu)

residual fuel oil has a heat content value of approximately 6.287 million Btu per barrel. This factor is applied to convert residual fuel oil estimated consumption from physical units to Btu as shown in the following examples:

RFCCBZZ = RFCCPZZ * 6.287 RFICBZZ = RFICPZZ * 6.287

RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEIBZZ

The U.S. level Btu consumption estimates are calculated as the sum of the States' Btu consumption.

Additional Notes on Residual Fuel Oil

- 1. "Sales" data are actually called "shipments" in the source documents for 1960 and 1961; "consumption" for 1962 through 1966; "shipments" for 1967; "sales" from 1968 through 1978; "deliveries" for 1979 through 1983; and "sales" for 1984 forward.
- 2. In 1979, the EIA implemented a new survey form, EIA-172, to obtain deliveries of fuel oil and kerosene data and updated the list of respondents. (A detailed explanation is published in the *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979.") In the new survey form, certain end-use categories were redefined—in many cases, to collect more disaggregated data. The reclassifications resulted in some end-use categories that were no longer comparable

with those in previous surveys. Where discontinuities occurred, estimates for the pre-1979 years have been made in SEDS to conform with the 1979 fuel oil deliveries classifications. The pre-1979 deliveries estimates are not published in this report but are used in SEDS to disaggregate the known U.S. total product supplied (consumption) into State and major end-use sector consumption estimates.

For residual fuel oil deliveries in 1979, the end-use categories "commercial" and "industrial" are available. The pre-1979 deliveries categories are called "heating" and "industrial." While the pre-1979 categories individually are not continuous with the 1979 categories, their subtotals are related. That is, a general comparison can be made between the sum of commercial and industrial deliveries in 1979 and the sum of heating and industrial deliveries in the pre-1979 years. Therefore, the following method was applied to present a comparable series for residual fuel oil delivered to the commercial and industrial sectors:

- For each of the pre-1979 years, a subtotal was created for each State by adding each State's heating and industrial deliveries categories. A comparable 1979 subtotal was created by adding each State's commercial and industrial deliveries categories.
- Commercial and industrial shares of the subtotal in 1979 were calculated for each State.
- These 1979 end-use shares were then applied to each pre-1979 subtotal of residual fuel oil deliveries in each State to create State estimates of end-use deliveries for 1960 through 1978.

The 1980 through 1982 residual fuel oil deliveries data are based on the same survey as that used for 1979; therefore, the 1980 through 1982 data are directly comparable to 1979 data.

In 1984, EIA again updated the list of respondents for this survey, and the Form EIA-172 became the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report." EIA did not conduct a fuel oil and kerosene sales survey for 1983. The 1983 estimates in SEDS are based on 1984 data obtained from the Form EIA-821. Statistical procedures and methodologies used for the Form EIA-821 differ from those used in previous years. Therefore, the 1983 and forward sales data may not be directly comparable to the pre-1983 data. (In the

- source document, the sales data for 1983 forward are reported in thousand gallons. These data were first converted to thousand barrels before being entered into SEDS.)
- The data on fuel oil consumed by the electric power sector for all years and States are actual fuel oil consumption numbers collected from electric power plants on Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. Due to changes in fuel oil reporting classifications on the predecessor forms over the years, it is not possible to develop a thoroughly consistent series for all years. However, over time, data more accurately disaggregating fuel oil into distillate fuel oil and residual fuel oil have become available. For 1960 through 1969, only data on total fuel oil consumed at electric utilities by State are available. For 1970 through 1979, fuel oil consumed by plant type (internal combustion and gas turbine plants combined and steam plants) by State are available. For 1980 through 2000, data on consumption of light oil at all plant types combined and consumption of heavy oil at all plant types combined are available by State. For 2001 forward, data on consumption of distillate fuel oil and residual fuel oil are available. In SEDS, the following assumptions have been made:
 - 1960 through 1969 State estimates of fuel oil consumption by plant type have been created for each year by applying the shares of steam plants (primarily residual fuel oil) and internal combustion and gas turbine plants (primarily distillate fuel oil plus small amounts of jet kerosene) by State in 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
 - 1970 through 1979 fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption, and fuel oil consumed by internal combustion and gas turbine plants is assumed to equal distillate fuel oil plus jet kerosene consumption.
 - 1980 through 2000 total heavy oil consumption at all plant types is assumed to equal residual fuel oil consumption, and total light oil consumption at all plant types is assumed to equal distillate fuel oil plus jet kerosene consumption.

The data series thus derived for SEDS for residual fuel oil and distillate fuel oil plus jet kerosene consumption by the electric power sector is considered to be actual consumption by the electric power sector for each State and each year.

Data Sources for Residual Fuel Oil

RFBKPZZ — Residual fuel oil sold for vessel bunkering use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 17.
 - 1962 and 1963: Table 16.
 - 1964 and 1965: Table 15.
 - 1966 through 1975: Table 11.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 11.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons-821rsd a EPPR VVB Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821rsd a EPPR VVB Mgal a.htm.

RFCMPZZ — Residual fuel oil sold to the commercial sector for heating.

• 1960 through 1978: EIA estimates based on statistics of commercial sector deliveries of residual fuel oil from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios based on 1979 commercial sector deliveries were applied to each State's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 2, on page 63.)

- 1979 and 1980: EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Notes: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS. Data for Hawaii in 1986 through 1990 reflect unpublished revisions from an EIA internal memorandum from the Office of Oil and Gas to the Office of Energy Markets and End Use, "Revising Historical Petroleum Data," February 26, 1993.

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons-821rsd a EPPR VCS Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821rsd a EPPR VCS Mgal a.htm.

RFEIPZZ — Residual fuel oil consumed by the electric power sector.

- EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. The following assumptions have been made:
 - 1960 through 1969: Only total fuel oil consumed at electric utilities by State is available. State estimates of residual fuel oil consumption were created for each year by applying the shares of steam plants (primarily residual fuel oil) by State from 1970 to each year's total fuel oil consumption at electric utilities for 1960 through 1969.
 - 1970 through 1979: Fuel oil consumed by plant type by State is available. Fuel oil consumed by steam plants is assumed to equal residual fuel oil consumption.
 - 1980 through 2000: Consumption of heavy fuel at all plant types by State is available. This is assumed to equal residual fuel oil consumption.
 - 2001 forward: Consumption of residual fuel oil is available.

RFIBPZZ — Residual fuel oil sold to industrial establishments for heating and for other industrial use.

• 1960 through 1978: EIA, estimates based on statistics of industrial sector deliveries of residual fuel from the EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene in 1979," Table 2. State ratios

based on 1979 industrial sector deliveries were applied to each State's sum of heating plus industrial deliveries categories from the fuel oil deliveries reports for each year 1960 through 1978. (See explanation in Note 2, on page 63.)

- 1979 and 1980: EIA, *Energy Data Report*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821rsd a EPPR vin Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821rsd a EPPR vin Mgal a.htm.

RFMIPZZ — Residual fuel oil sold to the Armed Forces regardless of use by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 18.
 - 1962 and 1963: Table 17.
 - 1964 and 1965: Table 16.
 - 1966 through 1975: Table 12.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 12.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821rsd a EPPR VMI Mgal a.htm.

• 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons-821rsd a EPPR VMI Mgal a.htm.

RFMSPZZ — Residual fuel oil sold for miscellaneous uses by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 through 1962: Table 19.
 - 1963 and 1964: Table 18.
 - 1965 through 1967: Table 17.
 - 1968 through 1975: Table 14.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 14.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2, column "Other."
- 1981 and 1982: EIA, *Petroleum Supply Annual*, Table 5, column "All Other."

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS. The data series is titled "All Other."

- 1983: EIA, *Petroleum Marketing Monthly*, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petroleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons-821rsd a EPPR VOE Mgal a.htm.
- 1988 forward: EIA, *Fuel Oil and Kerosene Sales*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet cons 821rsd a EPPR VOE Mgal a.htm.

RFOCPZZ — Residual fuel oil sold for use by oil companies by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 14.
 - 1962 and 1963: Table 13.
 - 1964 and 1965: Table 12.
 - 1966 through 1975: Table 9.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 9.

- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983: EIA, Petroleum Marketing Monthly, July 1985 issue, Table A13.
- 1984 through 1987: EIA, *Petoleum Marketing Monthly*, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/pet_cons-821rsd a EPPR VOC Mgal a.htm.
- 1988 forward: EIA, Fuel Oil and Kerosene Sales, also available in Petroleum Navigator, http://tonto.eia.doe.gov/dnav/pet/petcons 821rsd a EPPR VOC Mgal a.htm.

RFRRPZZ — Residual fuel oil sold for use by railroads by State.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Shipments of Fuel Oil and Kerosene." The specific tables are:
 - 1960 and 1961: Table 16.
 - 1962 and 1963: Table 15.
 - 1964 and 1965: Table 14.
 - 1966 through 1975: Table 10.
- 1976 through 1978: EIA, *Energy Data Reports*, "Sales of Fuel Oil and Kerosene," Table 10.
- 1979 and 1980: EIA, *Energy Data Reports*, "Deliveries of Fuel Oil and Kerosene," Table 2.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 5.

Note: Data for 1983 forward are published in thousand gallons. They are converted to thousand barrels by dividing by 42 before being entered into SEDS.

- 1983 through 1987: EIA, *Petroleum Marketing Monthly*. The specific tables are:
 - 1983: July 1985 issue, Table A13.
 - 1984 and 1985: July 1986 issue, Table A3.
 - 1986 and 1987: June 1988 issue, Table A5.
- 1988 and 1989: EIA, Fuel Oil and Kerosene Sales 1989, Table 5.
- 1990 forward: Series discontinued. Volumes are included with "All Other" data (in SEDS).

RFTCPUS — Residual fuel oil total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1 historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Other Petroleum Products

There are 16 petroleum products that are summed and called "other petroleum products" in the State Energy Data System (SEDS). These products, in thousand barrels, are:

ABTCPUS	= aviation gasoline blending components total consumed in
	the United States:

COTCPZZ = crude oil (including lease condensate) total consumed in each State;

FNTCPUS = petroleum feedstocks, naphtha less than 401° F, total consumed in the United States;

FOTCPUS = petroleum feedstocks, other oils equal to or greater than 401° F, total consumed in the United States;

FSTCPUS = petroleum feedstocks, still gas, total consumed in the United States;

MBTCPUS = motor gasoline blending components total consumed in the United States;

MSTCPUS = miscellaneous petroleum products total consumed in the United States;

NATCPUS = natural gasoline (including isopentane) total consumed in the United States;

PCTCPUS = petroleum coke total consumed in the United States; PLTCPUS = plant condensate total consumed in the United States;

PPTCPUS = pentanes plus total consumed in the United States;

SGTCPUS = still gas total consumed in the United States;

SNTCPUS = special naphthas total consumed in the United States; UOTCPUS = unfinished oils total consumed in the United States; USTCPUS = unfractionated stream total consumed in the United States; and

WXTCPUS = waxes total consumed in the United States.

The methods used to create State estimates for each of these products (except petroleum coke, which is described earlier in the petroleum coke section beginning on page 57) are explained in the following sections. It is assumed that all of these products are used by the industrial sector, except for the small portion of petroleum coke consumed by the electric power and commercial sectors. State estimates are created for other petroleum products by using the following four variables to allocate the products to the States:

COCAPZZ = crude oil operating capacity at refineries in each State, in barrels per calendar day;

OCVAVZZ = value added in the manufacture of industrial organic chemicals in each State, in million dollars;

PIVAVZZ = value added in the manufacture of paints and allied products in each State, in million dollars; and

CGVAVZZ = value added in the manufacture of corrugated and solid fiber boxes, in million dollars.

Value added by manufacture is a measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-process between the beginning and end-of-year inventories. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas. The value added data are from the Department of Commerce *Economic Census* (previously, *Census of Manufactures*) reports.

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Crude Oil

Physical Units

State estimates for crude oil consumed in petroleum industry operations are the data series COTCPZZ. The U.S. total for this data series is summed:

COTCPUS = Σ COTCPZZ

Industrial consumption equals total consumption of crude oil:

COICPZZ = COTCPZZ COICPUS = COTCPUS

British Thermal Units (Btu)

Crude oil has a heat content value of approximately 5.800 million Btu per barrel. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

COTCBZZ = COTCPZZ * 5.800 COTCBUS = Σ COTCBZZ COICBZZ = COTCBZZ COICBUS = COTCBUS

Data Source

COTCPZZ — Crude oil consumed in petroleum industry operations by State.

- 1960 through 1982: Crude oil used directly was included in distillate and residual fuel oil product supplied when reported to EIA. Zeros are entered for all years.
- 1983 forward: Data are available for Petroleum Administration for Defense (PAD) districts, not by State. State estimates are calculated by allocating all crude oil consumption to the six States (Alaska, California, Colorado, Louisiana, Texas, and Utah) that reported distillate and residual fuel oils consumed by pipeline and leases in 1982. (Data on pipeline and lease consumption of fuels are not available after 1982.) Each State's 1982 ratio of distillate and residual

fuel oils consumed by pipeline and leases to its respective 1982 PAD District total consumption of those fuels is calculated. This ratio is then applied to the 1983 forward PAD district totals of crude oil product supplied. The 1982 ratios are taken from the Form EIA-90, "Crude Oil Stocks Report," and the crude oil product supplied data are taken from the EIA *Petroleum Supply Annual*, historical.html. The specific tables are:

- 1983 through 1988: Tables 2 and 4 through 8.
- 1989 through 2004: Tables 2, 4, 6, 8, 10, and 12.
- 2005 forward: Tables 1, 3, 5, 7, 9, and 11.

Aviation Gasoline Blending Components; Petroleum Feedstocks, Still Gas; Motor Gasoline Blending Components; Still Gas; and Unfinished Oils

Physical Units

The five petroleum products in this category are consumed as refinery fuels. Beginning in 1986, still gas for petrochemical feedstocks and still gas for other uses are reported together in the source document. State consumption estimates of these products are created in proportion to each State's crude oil operating capacity at refineries (COCAPZZ). The U.S. total for this variable is summed:

COCAPUS = Σ COCAPZZ

Aviation gasoline blending components State and U.S. consumption are estimated:

ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS

ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS

Petroleum feedstocks, still gas, State and U.S. consumption are estimated:

FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS

FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS Motor gasoline blending components State and U.S. consumption are estimated:

MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS

MBICPZZ = MBTCPZZ MBICPUS = MBTCPUS

Still gas State and U.S. consumption are estimated:

SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS

SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS

Unfinished oils State and U.S. consumption are estimated:

UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS

UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS

British Thermal Units (Btu)

Btu estimates for the five products in this group are developed by multiplying the estimated consumption of each individual product in physical units by its respective heat content conversion factor. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

ABTCBZZ = ABTCPZZ * 5.048

ABTCBUS = Σ ABTCBZZ ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS

FSTCBZZ = FSTCPZZ * 6.000

FSTCBUS = Σ FSTCBZZ FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS

MBTCBZZ = MBTCPZZ * 5.253

 $\begin{array}{ll} \text{MBTCBUS} &= \Sigma \text{MBTCBZZ} \\ \text{MBICBZZ} &= \text{MBTCBZZ} \\ \text{MBICBUS} &= \text{MBTCBUS} \end{array}$

SGTCBZZ = SGTCPZZ * 6.000

 $SGTCBUS = \Sigma SGTCBZZ$ SGICBZZ = SGTCBZZSGICBUS = SGTCBUS

UOTCBZZ = UOTCPZZ * 5.825

UOTCBUS = Σ UOTCBZZ UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS

Data Sources

ABTCPUS — Aviation gasoline blending components total consumed in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_an_nual/psa_volume1/psa_volume1_historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

COCAPZZ — Crude oil operating capacity at refineries by State.

- 1960: U.S. Department of the Interior, Bureau of Mines, *Petroleum Refineries, Including Cracking Plants, in the United States*, Table 3.
- 1961 through 1963: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Refineries in the United States." The specific tables are:
 - 1961 and 1962: Table 3.
 - 1963: Table 1.
- 1964 through 1976: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Refineries in the United States and Puerto Rico," Table 1.
- 1977: EIA, *Energy Data Reports*, "Petroleum Refineries in the United States and Puerto Rico." Table 1.
- 1978 through 1980: EIA, *Energy Data Reports*, "Petroleum Refineries in the United States and U.S. Territories," Table 1.

- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1_historical.html. The specific tables are:
 - 1981 through 1983: Table 1.
 - 1984: Table 30.
 - 1985 through 1988: Table 29.
 - 1989 through 1994: Table 36.
 - 1995: Unpublished data based on Form EIA-810.
 - 1996 through 2004: Table 36.
- 2005 forward: EIA, Refinery Capacity Report, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/refinery_capacity_data/refcap_historical.html, Table 1, column titled "Barrels Per Day, Operating".

FSTCPUS — Petrochemical feedstocks, still gas, total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 14.
- 1983 through 1985: EIA, Petroleum Supply Annual, Table 12.
- 1986 forward: Included in still gas (SGTCPUS).

MBTCPUS — Motor gasoline blending components total consumed in the United States.

- 1960 through 1980: No data available. Values are assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

SGTCPUS — Still gas total consumed in the United States.

• 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.

- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 and 1982: EIA, Petroleum Supply Annual, Table 14.
- 1983 through 1985: EIA, Petroleum Supply Annual, Table 12.
- 1986 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1986 through 2004: Table 2.
 - 2005 forward: Table 1.

UOTCPUS — Unfinished oils total consumed in the United States.

- 1960 through 1980: No data available. Values assumed to be zero.
- 1981 forward: EIA, *Petroleum Supply Annual*, historical.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Petroleum Feedstocks, Naphtha Less Than 401° F; Petroleum Feedstocks, Other Oils Equal to or Greater Than 401° F; Miscellaneous Petroleum Products; Natural Gasoline (Including Isopentane); Plant Condensate; Pentanes Plus; and Unfractionated Stream.

Physical Units

The seven petroleum products in this category are allocated to the States in proportion to the value added in the manufacture of industrial organic chemicals in each State (OCVAVZZ).

The two petroleum feedstocks are consumed by the chemical industry in producing petrochemical "building blocks" that, in turn, are converted to such products as synthetic fibers, synthetic rubber, and plastics.

Miscellaneous products include such products as petrolatum, synthetic natural gas feedstocks, and specialty oils (e.g., hydraulic oils, insulating oils, medicinal oils, rust preventatives, and spray oils). Finished petrochemicals usually constitute the largest volume of miscellaneous product, and it is

assumed that the chief consuming industry for this product line is the chemical industry.

Natural gasoline (including isopentane), plant condensate, pentanes plus, and unfractionated stream are included in this group because the chemical industry is the only one that could readily utilize these lighter liquid hydrocarbons (as petrochemical feedstocks). Beginning in 1984, in the source document, natural gasoline (including isopentane) and plant condensate are reported together as a new product, pentanes plus. At the same time, unfractionated stream was dropped because its components were reported separately as liquefied petroleum gases.

The U.S. total for the data series used to apportion these products to the States is summed:

 $OCVAVUS = \Sigma OCVAVZZ$

Total petroleum feedstocks, naphtha less than 401° F, State and U.S. consumption are estimated:

FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS

FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS

Petroleum feedstocks, other oils equal to or greater than 401° F, State and U.S. consumption are estimated:

FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS

FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS

Miscellaneous petroleum products State and U.S. consumption are estimated:

MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS

MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS

Natural gasoline (including isopentane) State and U.S. consumption are estimated:

NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS

NAICPZZ = NATCPZZ NAICPUS = NATCPUS

Plant condensate State and U.S. consumption are estimated:

PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS

PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS

Pentane plus State and U.S. consumption are estimated:

PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS

PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS

Unfractionated stream State and U.S. consumption are estimated:

USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS

USICPZZ = USTCPZZ USICPUS = USTCPUS

British Thermal Units (Btu)

Btu estimates for the seven petroleum products in this group are developed by multiplying each individual product's estimated consumption in physical units by its respective approximate heat content conversion factor. The calculations performed to estimate total Btu consumption and industrial use Btu consumption by State and for the United States are:

FNTCBZZ = FNTCPZZ * 5.248

FNTCBUS = Σ FNTCBZZ FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS

FOTCBZZ = FOTCPZZ * 5.825

FOTCBUS = Σ FOTCBZZ FOICBUS = FOTCBUS MSTCBZZ = MSTCPZZ * 5.796 $MSTCBUS = \Sigma MSTCBZZ$ MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS NATCBZZ = NATCPZZ * 4.620NATCBUS = Σ NATCBZZ NAICBZZ = NATCBZZ NAICBUS = NATCBUS PLTCBZZ = PLTCPZZ * 5.418**PLTCBUS** $= \Sigma PLTCBZZ$ PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS PPTCBZZ = PPTCPZZ * 4.620**PPTCBUS** $= \Sigma PPTCBZZ$ PPICBZZ = PPTCBZZ= PPTCBUS PPICBUS USTCBZZ = USTCPZZ * 5.418 $= \Sigma USTCBZZ$ USTCBUS USICBZZ = USTCBZZ **USICBUS** = USTCBUS

Data Sources

FNTCPUS — Petrochemical feedstocks, naphtha, less than 401° F, total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual." Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia.doe. gov/oil gas/petroleum/data publications/petroleum supply annual /psa volume1/psa volume1.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

FOTCPUS — Petrochemical feedstocks, other oils, equal to or greater than 401° F, total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia.doe. gov/oil gas/petroleum/data publications/petroleum supply annual /psa volume1/psa volume1.html, column titled "Products Supplied." The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

MSTCPUS — Miscellaneous petroleum products consumed in the United States

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Petroleum Statement, Annual,"
- 1976 through 1980: EIA, Energy Data Reports. "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, Petroleum Supply Annual, http://www.eia.doe. gov/oil gas/petroleum/data publications/petroleum supply annual /psa volume1/psa volume1.html. The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1. Naphtha-type jet fuel volumes (JNTCPUS) are included in "Miscellaneous Products" in the Petroleum Supply Annual, Table 1.

NATCPUS — Natural gasoline total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, Energy Data Reports. "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, Petroleum Supply Annual, Table 2.
- 1984 forward: Included in pentanes plus (PPTCPUS).

OCVAVZZ — Value added by the manufacture of industrial organic chemicals by State.

- 1960 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, Standard Industrial Classification (SIC) 2818. The 1963 State data are used for the years 1960 through 1965, and the 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2869. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 through 1985: U.S. Department of Commerce, 1987 Census of Manufactures (Final Report), Industry Series, SIC 2869. The 1982 State data are used for 1981 through 1985.
- 1986 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2869. The 1987 State data are used for 1986 through 1990, and the 1992 State data are used for 1991 through 1995.
- 1996 through 2000: U.S. Department of Commerce, 1997 Economic Census, Manufacturing, Industry Series, EC97M-3251A for North American Industry Classification System (NAICS) 325110 "Petrochemical Manufacturing" and EC97M-3251G for NAICS 325119 "All Other Basic Inorganic Chemical Manufacturing." The value added by manufacture for both categories are summed to create a data series generally comparable to the SIC 2869 used previously. http://www.census.gov/prod/www/abs/97ecmani.html
- 2001 forward: U.S. Department of Commerce, 2002 Economic Census, Manufacturing, Industry Series, Table 2, column titled "Value added" data for NAICS series 325110, 325120, and 325199 shown in the reports at http://www.census.gov/econ/census02/guide/INDRPT31.HTM. See Additional Note 2 on page 76 for the methodology used to estimate withheld values.

PLTCPUS — Plant condensate total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*. "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, Petroleum Supply Annual, Table 2.
- 1984 forward: Included in pentanes plus (PPTCPUS).

PPTCPUS — Pentanes plus total consumed in the United States.

- 1960 through 1983: Data were reported separately as natural gasoline, isopentane, and plant condensate.
- 1984 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/psa_volume1.html, column titled "Products Supplied." The specific tables are:
 - 1984 through 2004: Table 2.
 - 2005 forward: Table 1.

USTCPUS — Unfractionated stream total consumed in the United States.

- 1960 through 1978: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1, included in "Plant Condensate."
- 1979 and 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 through 1983: EIA, *Petroleum Supply Annual*, Table 2, column titled "Products Supplied."
- 1984 forward: Included in liquefied petroleum gases (LGTCPUS).

Special Naphthas

Physical Units

Special naphthas are used as paint and varnish thinners and dry cleaning liquids or solvents. This petroleum product is allocated to the States in proportion to the value added in the manufacture of paints and allied products in each State (PIVAVZZ).

The U.S. total for the apportioning data series is calculated:

 $PIVAVUS = \Sigma PIVAVZZ$

Special naphthas State and U.S. consumption are estimated:

SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS

SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS

British Thermal Units (Btu)

Special naphthas have a heat content value of approximately 5.248 million Btu per barrel. This factor is applied to convert special naphthas estimated consumption from physical units to Btu by State and the United States is the sum of the States:

SNTCBZZ = SNTCPZZ * 5.248

 $SNTCBUS = \Sigma SNTCBZZ$ SNICBZZ = SNTCBZZSNICBUS = SNTCBUS

Data Sources

PIVAVZZ — Value added by the manufacture of paints and allied products by State.

- 1960 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, SIC 2851. The 1963 State data are used for the years 1960 through 1965, and the 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2851. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 through 1985: U.S. Department of Commerce, 1987 Census of Manufactures (Final Report), Industry Series, SIC 2851. The 1982 State data are used for the years 1981 through 1985.
- 1986 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2851. The 1987 State data are used for the years 1986 through 1990, and the 1992 State data are used for 1991 through 1995.
- 1996 through 2000: U.S. Department of Commerce, 1997 Economic Census, Manufacturing, Industry Series, EC97M-3255A for NAICS 325510 "Paint and Coating Manufacturing." http://www.census.gov/prod/www/abs/97ecmani.html.
- 2001 forward: U.S. Department of Commerce, 2002 Economic Census, Manufacturing, Industry Series, Table 2, column titled "Value added" data for NAICS series 325510 shown in the reports at http://www.census.gov/econ/census02/guide/INDRPT31.HTM. See Additional Note 2 on page 76 for the methodology used to estimate withheld values.

SNTCPUS — Special naphthas total consumed in the United States.

- 1960 through 1963: Data included in motor gasoline.
- 1964 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data-publications/petroleum supply annual/psa volume1/psa volume1.html. The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Waxes

Physical Units

Because petroleum waxes are very cost-effective moisture and gas barriers, food packaging is the largest market for petroleum waxes in the United States, accounting for more than 50 percent of petroleum wax consumption. Therefore, waxes are allocated to the States in proportion to the value added in the manufacture of corrugated and solid fiber boxes (CGVAVZZ).

The U.S. total for this variable is summed:

 $CGVAVUS = \Sigma CGVAVZZ$

State and U.S. consumption are estimated:

WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS

WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS

British Thermal Units (Btu)

Waxes have a heat content value of approximately 5.537 million Btu per barrel. This factor is applied to convert the estimated consumption of

0

D U C T

waxes from physical units to Btu by State and the United States is the sum of the States:

WXTCBZZ = WXTCPZZ * 5.537

WXTCBUS = Σ WXTCBZZ WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS

Data Sources

CGVAVZZ — Value added by the manufacture of sanitary food containers by State. Beginning with 1992 data, this series became value added by the manufacture of corrugated and solid fiber boards by State.

- 1960 through 1965: U.S. Department of Commerce, 1963 Census of Manufactures, Volume II, Part 1, SIC 2654. The 1963 State data are used for the years 1960 through 1965.
- 1966 through 1970: U.S. Department of Commerce, 1967 Census of Manufactures, Volume II, Part 2, SIC 2654. The 1967 State data are used for 1966 through 1970.
- 1971 through 1980: U.S. Department of Commerce, 1977 Census of Manufactures, Industry Series, SIC 2654. The 1972 State data are used for 1971 through 1975, and the 1977 State data are used for 1976 through 1980.
- 1981 through 1990: U.S. Department of Commerce, 1982 Census of Manufactures (Final Report), Industry Series, SIC 2654. The 1982 State data are used for 1981 through 1990.
- 1991 through 1995: U.S. Department of Commerce, 1992 Census of Manufactures (Final Report), Industry Series, SIC 2653. The 1992 State data are used for 1991 through 1995.
- 1996 forward: U.S. Department of Commerce, 1997 Economic Census, Manufacturing, Industry Series, EC97M-3222A for NAICS 322211 "Corrugated and Solid Fiber Box Manufacturing." http://www.census.gov/prod/www/abs/97ecmani.html.
- 2001 forward: U.S. Department of Commerce, 2002 Economic Census, Manufacturing, Industry Series, Table 2, column titled "Value added" data for NAICS series 322211 shown in the reports at http://www.census.gov/econ/census02/guide/INDRPT31.HTM. See Additional Note 2 on page 76 for the methodology used to estimate withheld values.

WXTCPUS — Waxes total consumed in the United States.

- 1960 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual," Table 1.
- 1976 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1.
- 1981 forward: EIA, *Petroleum Supply Annual*, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum supply annual/psa_volume1/psa_volume1.html. The specific tables are:
 - 1981 through 2004: Table 2.
 - 2005 forward: Table 1.

Total Other Petroleum Products

Physical Units

Total other petroleum products is the sum of the 16 "other petroleum products." All of these products are consumed by the industrial sector except for some petroleum coke consumed by the electric power sector (PCEIP), which is calculated in SEDS with electric power fuel consumption, and the commercial sector (PCCCP), which is included with commercial consumption. State and U.S. industrial use of these other petroleum products are calculated:

```
POICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + NAICPZZ + PCICPZZ + PLICPZZ + PPICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + USICPZZ + WXICPZZ POICPUS = \SigmaPOICPZZ
```

Total consumption of these products (including petroleum coke consumption in the commercial and electric power sectors) is calculated:

```
POTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + NATCPZZ + PCTCPZZ + PLTCPZZ + PPTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + USTCPZZ + WXTCPZZ POTCPUS = \SigmaPOTCPZZ
```

British Thermal Units (Btu)

Estimated consumption of all 16 "other petroleum products" in Btu is the sum of the Btu consumption of each product by the industrial sector. The State and U.S. totals are calculated:

```
POICB77
         = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ +
            FSICBZZ + MBICBZZ + MSICBZZ + NAICBZZ +
            PCICBZZ + PLICBZZ + PPICBZZ + SGICBZZ +
            SNICBZZ + UOICBZZ + USICBZZ + WXICBZZ
POICBUS
         = \Sigma POICBZZ
```

State and U.S. total consumption of these products, which includes petroleum coke consumption in the commercial and electric power sectors, is calculated:

```
POTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ +
           FSTCBZZ + MBTCBZZ + MSTCBZZ + NATCBZZ +
           PCTCBZZ + PLTCBZZ + PPTCBZZ + SGTCBZZ +
           SNTCBZZ + UOTCBZZ + USTCBZZ + WXTCBZZ
POTCBUS = \SigmaPOTCBZZ
```

Additional Notes on Other Petroleum Products

- In the "Energy Consumption Estimates by Source" tables in this report, a petroleum column called "Other" comprises the other products, including petroleum coke consumed by the commercial and electric power sectors (POTCB and POTCP). In the "Industrial Energy Consumption Estimates" tables, the petroleum "Other" column is the other petroleum products consumption total for industrial use (POICB and POICP).
- The data for "value added by manufacture" that are used to allocate many of the other petroleum products are from the Department of Commerce, Bureau of the Census, Census of Manufactures or Economic Census reports. For all years, several States' data were withheld from publication to avoid disclosing operations of individual companies. The total withheld data was apportioned to the withheld States on the basis of those States' proportional values in the previous census. Beginning with the 1992 Census, the total withheld value was apportioned to States with withheld data in proportion to the number of

employees in that industry in each State. Beginning with the 1997 Census, the published report tables do not list any States that have withheld data. Detail data tables from "American FactFinder" on the Bureau of the Census website, http://factfinder.census .gov/servlet/EconSectorServlet? lang=en&ds name=EC0200A1& SectorId=31, are used to obtain the list of States with data withheld and the number of employees.

In 1982, all respondents to the Census of Manufactures survey were requested to report their inventories at cost or market prior to accounting adjustments for "last in, first out" cost. This is a change from prior years in which respondents were permitted to value their inventories by using any generally accepted accounting valuation method. Consequently, data for value added by manufacture after 1982 are not comparable to the prior years' data.

Petroleum Summaries

This section describes the method of estimating consumption by the major end-use sectors within the States for all petroleum data series. Table TN3 on page 28 of this section indicates which petroleum products are consumed in each of the five major end-use sectors. In the preceding portions of this section, end-use consumption estimates have been derived for each petroleum product. These petroleum product subtotals are now summed, in physical units of thousand barrels and in Btu, to create estimated end-use consumption for all petroleum products.

Residential Sector

Petroleum products consumed by the residential sector are: distillate fuel oil (DF), kerosene (KS), and liquefied petroleum gases (LG). For the residential sector, the State and U.S. totals in physical units are:

```
PARCPZZ = DFRCPZZ + KSRCPZZ + LGRCPZZ
PARCPUS = \SigmaPARCPZZ
```

State and U.S. totals in Btu are:

PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ

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PARCBUS = $\Sigma PARCBZZ$

Commercial Sector

The commercial sector's use of petroleum products includes: distillate fuel oil (DF), kerosene (KS), liquefied petroleum gases (LG), motor gasoline (MG), and residual fuel oil (RF). In physical units, the State and the U.S. totals for the commercial sector are calculated:

PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + RFCCPZZ + PCCCPZZ

PACCPUS = Σ PACCPZZ

State and U.S. totals in Btu are:

PACCBZZ = DFCCBZZ + KSCCBZZ + LGCCBZZ + MGCCBZZ +

RFCCBZZ + PCCCBZZ

PACCBUS = Σ PACCBZZ

Industrial Sector

Petroleum used in the industrial sector includes: asphalt and road oil (AR); distillate fuel oil (DF); kerosene (KS); liquefied petroleum gases (LG); lubricants (LU); motor gasoline (MG); residual fuel oil (RF); and the 16 products that are already summed in the "other petroleum products" (PO) subtotal. The State and U.S. total estimates in physical units are:

PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ +

LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ

PAICPUS = Σ PAICPZZ

State and U.S. totals in Btu are:

PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ +

LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ

PAICBUS = Σ PAICBZZ

Transportation Sector

Petroleum products used in the transportation sector are: aviation gasoline (AV), distillate fuel oil (DF), jet fuel (JF), liquefied petroleum gases (LG), lubricants (LU), motor gasoline (MG), and residual fuel oil (RF). The State and U.S. totals in physical units are:

PAACPZZ = AVACPZZ + DFACPZZ + JFACPZZ + LGACPZZ +

LUACPZZ + MGACPZZ + RFACPZZ $PAACPUS = \Sigma PAACPZZ$

State and U.S. totals in Btu are:

PAACBZZ = AVACBZZ + DFACBZZ + JFACBZZ + LGACBZZ +

LUACBZZ + MGACBZZ + RFACBZZ

PAACBUS = Σ PAACBZZ

Electric Power Sector

Petroleum products consumed by the electric power sector are: distillate fuel oil (DF), jet fuel (JF), petroleum coke (PC), and residual fuel oil (RF). In physical units, the State and U.S. totals are:

PAEIPZZ = DFEIPZZ + JFEUPZZ + PCEIPZZ + RFEIPZZ

PAEIPUS = Σ PAEIPZZ

State and U.S. totals in Btu are:

PAEIBZZ = DFEIBZZ + JFEUBZZ + PCEIBZZ + RFEIBZZ

PAEIBUS = Σ PAEIBZZ

Total Consumption of Petroleum Products

Total consumption of all petroleum products is the sum of all of the individual product totals. The State and U.S. physical unit totals are:

PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JFTCPZZ +

KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ +

RFTCPZZ + POTCPZZ

PATCPUS = Σ PATCPZZ

State and U.S. totals in Btu are:

PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JFTCBZZ +

KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ +

RFTCBZZ + POTCBZZ

PATCBUS = Σ PATCBZZ

Additional Calculations

A few petroleum products are combined for display in the "Other Petroleum" column in tables on total energy consumption and industrial sector energy consumption. They include asphalt and road oil, aviation gasoline (total energy only), kerosene, lubricants, and the 16 petroleum products described in the "other petroleum products" section of the Technical Notes. The variables are calculated in physical unit and Btu, for each State and the United States:

P1ICP = ARICP + KSICP + LUICP + POICP P1ICB = ARICB + KSICB + LUICB + POICB

Conversion factors for all petroleum products consumed by each sector, as well as data for the residential and commercial sectors combined, are calculated for use in EIA's *Annual Energy Review* and *Monthly Energy Review*.

PARCKUS = PARCBUS / PARCPUS
PACCKUS = PACCBUS / PACCPUS
PAICKUS = PAICBUS / PAICPUS
PAACKUS = PAACBUS / PAACPUS
PAEIKUS = PAEIBUS / PAEIPUS
PATCKUS = PATCBUS / PATCPUS

Consumption of all petroleum products by the residential and commercial sectors combined, in physical units, in Btu, and the average conversion factor, are calculated:

PAHCPUS = PARCPUS + PACCPUS PAHCBUS = PARCBUS + PACCBUS PAHCKUS = PAHCBUS / PAHCPUS

Section 5. Renewable Energy

Renewable energy sources included in the State Energy Data System (SEDS) comprise fuel ethanol, wood, waste, hydroelectric, geothermal, wind, photovoltaic, and solar thermal energy.

Fuel Ethanol

Fuel ethanol is used as a gasoline octane enhancer and oxygenate (blended up to 10 percent concentration). A small amount of fuel ethanol is used as an alternative fuel, such as E85. It is typically produced chemically from ethylene, or biologically from fermentation of various sugars from carbohydrates found in agricultural crops and cellulosic residues from crops or wood. For 1981 forward, fuel ethanol estimates are maintained separately from motor gasoline in SEDS and shown in the State energy consumption data tables to illustrate renewable energy use.

The U.S. total fuel ethanol consumption in SEDS is a series developed by the Energy Information Administration (EIA) from annual reports of field production of oxygenated gasoline (prior to 2005), finished motor gasoline and motor gasoline blending components adjustments (2005 forward), and refinery and blender net inputs of fuel ethanol (all years). Through 2004, the State data series, used to allocate the U.S. total to the States, is from the U.S. Department of Transportation Federal Highway Administration (FHWA) data series on gasohol or fuel ethanol.

Beginning in 2005, the State data series is based on several EIA data series and estimates:

- prime supplier sales of conventional (including oxygenated) gasoline and reformulated gasoline by State;
- production of conventional and reformulated gasoline, total and blended with alcohol, by Petroleum Administration for Defense (PAD) District and Refining District;

- a standard ethanol-to-motor gasoline "blend ratio" of 10 percent for all States except California (5.7 percent) and Minnesota (12 percent); and
- estimated fuel ethanol "product supplied" by PAD District and Refining District.

First, a set of preliminary estimates for fuel ethanol blended into motor gasoline is calculated by multiplying the prime supplier sales for the two types of gasoline with the corresponding percent of gasoline blended with alcohol and the "blend ratio", and summing them together for each State. Next, total fuel ethanol "product supplied" by PAD District and Refining District is estimated by adding motor gasoline blending components and finished motor gasoline adjustments (disaggregated to the districts by applying the district shares derived from the fuel ethanol refinery and blending net inputs. Finally, the preliminary fuel ethanol estimates are scaled to the fuel ethanol "product supplied" values by district.

The fuel ethanol data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

ENTCPUS = fuel ethanol total consumed in the United States, in thousand barrels.

ENTRPZZ = fuel ethanol blended into motor gasoline (1993 forward) or total gasohol sales (1981 through 1992) by State, in thousand gallons.

The U.S. total of the State series, ENTRPZZ, is calculated as the sum of the State data. The U.S. value, ENTCPUS, is allocated to the States in proportion the State estimates, ENTRPZZ:

ENTRPUS = Σ ENTRPZZ

ENTCPZZ = (ENTRPZZ / ENTRPUS) * ENTCPUS

FUEL ETHANOL

Fuel ethanol total consumed by State, ENTCPZZ, is allocated to the commercial, industrial, and transportation sectors according to the motor gasoline consumption share for each sector:

```
ENACPZZ = (MGACPZZ / MGTCPZZ) * ENTCPZZ
ENCCPZZ = (MGCCPZZ / MGTCPZZ) * ENTCPZZ
ENICPZZ = (MGICPZZ / MGTCPZZ) * ENTCPZZ
```

The U.S. consumption estimates for the three sectors are calculated as the sum of the States' values:

```
ENACPUS = \SigmaENACPZZ
ENCCPUS = \SigmaENCCPZZ
ENICPUS = \SigmaENICPZZ
```

Fuel ethanol is converted to equivalent British thermal units (Btu) by using a conversion factor of 3.539 million Btu per barrel.

```
ENACBZZ = ENACPZZ * 3.539

ENCCBZZ = ENCCPZZ * 3.539

ENICBZZ = ENICPZZ * 3.539

ENACBUS = \SigmaENACBZZ

ENCCBUS = \SigmaENCCBZZ

ENICBUS = \SigmaENICBZZ
```

Total U.S. consumption in Btu is the sum of the sectors' consumption:

```
ENTCBUS = ENACBUS + ENCCBUS + ENICBUS
```

Beginning in 1981, energy losses and co-products from the production of fuel ethanol are incorporated into the U.S. industrial sector energy consumption. Individual State estimates are not available because reliable State allocators have not been identified.

ENLCBUS = energy losses and co-products from the production of fuel ethanol for the United States, in billion Btu.

Additional Notes

Fuel ethanol data blended into motor gasoline (ENTRPZZ) are published in FHWA *Highway Statistics* from 1993 through 2001, 2003, and 2004.

In 2002, fuel ethanol blended into motor gasoline is not available from *Highway Statistics*. The ratio of each State's fuel ethanol in gasohol to total gasohol consumption is calculated for 2001 and 2003. The two ratios for each State are averaged and the average is applied to each State's 2002 total gasohol consumption to derive the amount of fuel ethanol consumed in gasohol in 2002. Fuel ethanol and gasohol data for Florida, Massachusetts, and Rhode Island are available for only 2001 or 2003; in these instances, the ratio of only the available year is used.

Data Sources

ENLCBUS — Energy losses and co-products from the production of fuel ethanol for the United States.

• 1981 forward: EIA, Annual Energy Review 2007, Table 10.3.

ENTCPUS — Fuel ethanol consumed total in the United States.

- 1960 through 1980: No data are available. Values are assumed to be zero.
- 1981 through 1992:
 - 1981, 1984, 1987, and 1989: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.
 - 1982 and 1983: EIA, Office of Coal, Nuclear, Electric, and Alternate Fuels estimates.
 - 1985, 1986, 1988, and 1991: Values interpolated.
 - 1990 and 1992: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.
- 1993 through 2004: EIA estimates based on data in the EIA *Petroleum Supply Annual, (PSA)* Tables 2 and 16. Ten percent of the "Field Production" of "Oxygenated Finished Motor Gasoline" from the *PSA* Table 2 is added to the "Refinery Input of Fuel Ethanol" from the *PSA* Table 16.
- 2005 forward: EIA estimates based on data in the EIA *PSA*, Tables 1 and 15. Motor gasoline blending components adjustments and finished motor gasoline adjustments from *PSA*, Table 1, are added to fuel ethanol refinery and blender net inputs from *PSA*, Table 15.

ENTRPZZ — Fuel ethanol blended into motor gasoline by State.

• 1960 through 1980: Values are set to be zero.

- 1981 through 1992: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, Summary to 1995*, Table MF-233GLA.
- 1993 through 1995: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, Summary to 1995*, Table MF-233E, column titled "Total Ethanol Used in Gasohol."
- 1996 through 2001, 2003, and 2004: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Table MF-33E, column titled "Total Ethanol Used in Gasohol."
- 2002: EIA estimates based on the 2001 and 2003 data from *Highway Statistics*. For an explanation of the estimation methodology, see the "Additional Notes" on page 80.
- 2005 forward: EIA estimates based on sales of motor gasoline from the *Prime Supplier Report*, production of motor gasoline (with and without alcohol) and estimated ethanol "product supplied" from *PSA*, and State-level ethanol-to-motor-gasoline "blend ratios." See explanation of the estimation methodology on page 79.

Geothermal Energy

Geothermal energy used as direct heat or from heat pumps in the residential, commercial, and industrial sectors is included in the State Energy Data System (SEDS) for 1989 forward. Electric power sector consumption in SEDS includes geothermal energy input at electric utilities for all years, 1960 forward, and includes geothermal energy used to generate electricity by nonutility power producers for 1989 forward. These data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

GECCBZZ = direct use of geothermal energy and geothermal heat pumps in the commercial sector by State, in billion British thermal units (Btu);

GEEGPZZ = electricity produced from geothermal energy by the electric power sector by State, in million kilowatthours;

GEICBZZ = direct use of geothermal energy and geothermal heat pumps in the industrial sector by State, in billion Btu; and

GERCBZZ = direct use of geothermal energy and geothermal heat pumps in the residential sector by State, in billion Btu.

The U.S. totals for the State-level series are calculated by summing the State data:

GECCBUS = Σ GECCBZZ GEICBUS = Σ GEICBZZ GEEGPUS = Σ GEEGPZZ GERCBUS = Σ GERCBZZ

To convert electricity produced from geothermal energy from kilowatthours into comparable Btu, a U.S. average factor that varies by year is used. The values for the factor, GEETKUS, are shown in Appendix B, Table B1, http://www.eia.doe.gov/emeu/states/seds tech notes.html.

GEETKUS = factor for converting electricity produced from geothermal energy from kilowatthours to Btu.

The values for the electric power sector in each State are converted to Btu and the U.S. total is the sum of the State data:

GEEGBZZ = GEEGPZZ * GEETKUS

GEEGBUS = Σ GEEGBZZ

The State totals for geothermal energy are the sum of the residential, commercial, and industrial sectors' use and the electric power sector's geothermal-based generation. The U.S. total is the sum of the State data.

GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ GETCBUS = Σ GETCBZZ

Additional Notes

Consumption estimates of geothermal energy from direct use and heat pumps in the residential, commercial, and industrial sectors are from the Oregon Institute of Technology Geo-Heat Center. State data for 1989 and 1994 are based on surveys of geothermal equipment producers, distributors, and installers and State energy offices. State estimates from 1998 forward are developed by the Geo-Heat Center from discussions with industry sources.

The State data for 1989, 1994, and 1998 are used by the Energy Information Administration (EIA) to estimate the State values for intervening years. States with the same value in two survey years are assigned that

value for each intervening year. For States with increases or decreases in the survey data, the difference is allocated evenly over the intervening years. If a State went from zero to a value or from a value to zero, it was given zero in the intervening years. The State data for each intervening year are summed and States with increasing or decreasing values are adjusted until the U.S. total equals the U.S. total estimated by the Oregon Institute of Technology Geo-Heat Center.

Data Sources

GECCBZZ — Direct use and heat pump geothermal energy in the commercial sector.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.
- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1994 and 1998 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.
- 1998 forward: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.

GEETKUS — Factor for converting electricity produced from geothermal energy from physical units to Btu.

- 1960 through 1981: Calculated by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Federal Power Commission Form 12.
- 1982 forward: Estimated annually by the EIA on the basis of an informal survey of relevant plants.

GEEGPZZ — Electricity produced from geothermal energy by the electric power sector for each State.

• 1960 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

GEICBZZ — Direct use and heat pump geothermal energy in the industrial sector.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.
- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables, (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1994 and 1998 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.
- 1998 forward: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.

GERCBZZ — Direct use and heat pump geothermal energy in the residential sector.

- 1960 through 1988: No data available. Values assumed to be zero.
- 1989: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1990 through 1993: U.S. totals are estimates from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1989 and 1994 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.
- 1994: Oregon Institute of Technology Geo-Heat Center, unpublished tables (April 1999) based on a survey.
- 1995 through 1997: U.S. totals are from the Oregon Institute of Technology Geo-Heat Center, unpublished tables. State data for 1994

and 1998 are used to estimate State values for the intervening years. For an the explanation of the estimation methodology, see the "Additional Note" on page 81.

• 1998 forward: Oregon Institute of Technology Geo-Heat Center, unpublished tables based on informal surveys and estimations.

Hydroelectric Power

Electricity produced from hydropower is included in the State Energy Data System (SEDS) in the industrial and electric power sectors for all years, 1960 forward, and in the commercial sector for 1989 forward. In the electric power sector, there are two types of hydroelectric power: conventional hydroelectric power and pumped storage hydroelectricity. Conventional hydroelectric power uses falling water to drive turbines to produce electricity. Pumped storage hydroelectricity is generated by releasing water that has been pumped into an elevated storage reservoir during off-peak periods to drive the turbines during times of peak demand. Electricity produced from pumped storage, when it can be identified separately, is not included in energy consumption estimates because the energy that was used to pump the water is already accounted for. The hydroelectric power data series included in SEDS are identified by the following names ("ZZ" in the name represents the two-letter State code that differs for each State):

HVEGPZZ = electricity produced by conventional hydroelectric power in the electric power sector by State, in million kilowatthours:

HVC5PZZ = electricity produced by conventional hydroelectric power at commercial facilities by State, in million kilowatthours;

HVI5PZZ = electricity produced by conventional hydroelectric power at industrial facilities by State, in million kilowatthours;

The U.S. value for each of the series is the sum of the State data.

Total use of hydroelectric power in the commercial, industrial, and electric power sectors is assumed to be the electricity produced by conventional hydroelectric power. The U.S. total for each sector is the sum of the State values:

HYCCPZZ = HVC5PZZ $HYCCPUS = \Sigma HYCCPZZ$

HYICPZZ = HVI5PZZ $HYICPUS = \Sigma HYICPZZ$

HYEGPZZ = HVEGPZZ $HYEGPUS = \Sigma HYEGPZZ$

Electricity produced from hydroelectric power is converted from kilowatthours to British thermal units (Btu) by using the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFETKUS, as a conversion factor. The annual values for this factor are shown in the Consumption Technical Notes, Appendix B, Table B1, http://www.eia.doe.gov/emeu/states/_seds_tech_notes.html.

FFETKUS = factor for converting hydroelectric power from kilowatthours to Btu.

HYCCBZZ = HYCCPZZ * FFETKUS HYICBZZ = HYICPZZ * FFETKUS HYEGBZZ = HYEGPZZ * FFETKUS

The U.S. value for each of the series is the sum of the State data.

Total hydroelectricity consumption for each State is the sum of the commercial, industrial, and electric power sectors' generation.

HYTCPZZ = HYCCPZZ + HYICPZZ + HYEGPZZ

HYTCPUS = Σ HYTCPZZ

HYTCBZZ = HYCCBZZ + HYICBZZ + HYEGBZZ

HYTCBUS = Σ HYTCBZZ

Data Sources

FFETKUS — Fossil-fueled steam-electric power plant conversion factor.

• 1960 through 1988: Estimated by EIA as the weighted annual average heat rate for fossil-fueled steam-electric plants in the United States as published in the EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9.

- 1989 through 2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels.
- 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-906, "Power Plant Report." The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

HVC5PZZ — Electricity produced from conventional hydroelectric power at the commercial facilities by State.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

HVI5PZZ — Electricity produced from conventional hydroelectric power at industrial facilities by State.

- 1960 through 1978: Federal Power Commission, Form 4, "Monthly Power Plant Report."
- 1979 and 1980: EIA estimates based on previous years' data.
- 1981 through 1988: No data available. The 1980 data are repeated for each year.
- 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

HVEGPZZ — Electricity produced from conventional hydroelectric power by the electric power sector (includes pumped storage hydroelectric power through 1989) by State.

- 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data."
- 1978 through 1980: EIA, *Energy Data Reports*, "Power Production, Fuel Consumption and Installed Capacity Data."
- 1981 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. The data rounded to gigawatthours are published in the following reports:
 - 1981 through 1985: EIA, Electric Power Annual 1985, Table 6.

- 1986 and 1987: EIA, Electric Power Annual 1987, Table 18.
- 1988: EIA, Electric Power Annual 1989, Table 14.
- 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

Solar Energy

Estimates of solar energy use for the residential and commercial sectors combined and the industrial sector are included in the State Energy Data System (SEDS) for 1989 forward. Generation of electricity by the electric power sector from solar energy sources is included in SEDS for 1984 forward.

Residential/Commercial Sector

Solar thermal energy use in the residential and commercial sectors combined in the United States is estimated by the Energy Information Administration (EIA) in billion British thermal units (Btu) and published in the EIA *Annual Energy Review* for 1989 forward. A State-level series for allocating the U.S. total to the States is developed by EIA from accumulated data on shipments of solar thermal collectors to States, measured in square feet, as collected on the EIA Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and predecessor forms. The data are published for recent years in the EIA *Renewable Energy Annual*. The assumption is made that the retirement/replacement period for solar thermal collectors is 20 years. See "Additional Notes on Solar Energy" on page 85 for more details. The data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

SOHCBUS = solar thermal direct use energy, and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), in the residential and commercial sectors combined in the United States, in billion Btu; and

SOTTPZZ = rolling 20-year accumulation of shipments of solar thermal energy collectors by State, in square feet.

The U.S. total of shipments of solar thermal energy collectors is calculated as the sum of the State data, and the U.S. residential/commercial solar energy use is allocated to the States as follows:

SOTTPUS = Σ SOTTPZZ

SOHCBZZ = (SOTTPZZ / SOTTPUS) * SOHCBUS

Electric Power Sector

The electric power sector includes estimates of electricity produced from photovoltaic and solar thermal energy sources by electric utilities for 1984 forward, and by both electric utilities and nonutility power producers for 1989 forward. The data series is identified in SEDS by the following name ("ZZ" in the variable name represents the two-letter State code that differs for each State):

SOEGPZZ = electricity produced from photovoltaic and solar thermal energy sources by the electric power sector, for each State, in million kilowatthours.

The U.S. total for this series is calculated as the sum of the State data:

SOEGPUS = Σ SOEGPZZ

Electricity produced from photovoltaic and solar thermal energy in the electric power sector is converted from kilowatthours to Btu by using a conversion factor that is the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFETKUS. The annual values for this factor are shown in Appendix B, Table B1, http://www.eia.doe.gov/emeu/states/seds-tech-notes.html.

FFETKUS = factor for converting electricity produced from solar energy sources from kilowatthours to Btu.

The values for the electric power sector in each State are converted to Btu and the U.S. total is the sum of the State data:

SOEGBZZ = SOEGPZZ * FFETKUS

SOEGBUS = Σ SOEGBZZ

Each State's total use of photovoltaic and solar thermal energy sources is the sum of the sectors' values, and the U.S. total is the sum of the States' totals:

SOTCBZZ = SOHCBZZ + SOEGBZZ

SOTCBUS = Σ SOTCBZZ

Additional Notes on Solar Energy

Shipments of solar thermal collectors in the United States, in thousand square feet, for 1974 forward are collected on the EIA Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," (and predecessor forms) and used to develop this series for 1989 forward. The data are accumulated year to year on the assumption that the replacement/retirement period for solar thermal collectors is 20 years. Data for 1974 through 1985 are available for the U.S. total only and are allocated to the States by using an allocating series that is the average of the 1986 and 1987 shipments (the first years State-level data were collected). The ratios of the average 1986 and 1987 State values to the average 1986 and 1987 U.S. value are applied to the national annual values for each year, 1974 through 1985. Beginning in 1986, the U.S. data are adjusted to remove Puerto Rico and the Virgin Islands.

California data for 1986 through 2004, Arizona data for 2005, and Nevada data for 2006, are reduced by the number of high-temperature solar thermal collectors used in the electric power sector as shown in the *Renewable Energy Annual*. See SOTTPZZ Data Sources on page 86 for source table details.

Data Sources

FFETKUS — Fossil-fueled steam-electric power plant conversion factor.

- 1960 through 1988: Estimated by EIA as the weighted annual average heat rate for fossil-fueled steam-electric plants in the United States as published in the EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9.
- 1989 through 2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form

- EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels.
- 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-906, "Power Plant Report." The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

SOEGPZZ — Electricity produced from photovoltaic and solar thermal energy sources by the electric power sector by State.

- 1960 through 1983: No data available. Values are assumed to be zero.
- 1984 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report."
- 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

SOHCBUS — Solar thermal direct use energy, and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), in the residential and commercial sectors combined in the United States.

- 1960 through 1988: No data available. Values are zero.
- 1989 forward: EIA, Annual Energy Review 2008, Table 10.2a.

SOTTPZZ — Rolling 20-year accumulation of shipments of solar thermal energy collectors by State.

- 1960 through 1988: Values are set to zero in SEDS for consistency with SOHCBUS.
- 1989 forward: Shipments of solar thermal collectors in the United States, in thousand square feet, for 1974 forward are collected on the EIA Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," (and predecessor forms) and used to develop this series for 1989 forward. The sources for these data series are:
 - 1986 through 1993: EIA, *Solar Collector Manufacturing Activity* for each year. The specific table numbers are:
 - 1986 through 1988, 1990: Table 5.
 - 1989: Table 4.
 - 1991 and 1992: Table 13.
 - 1993: Table 12.
 - 1994 forward: EIA, *Renewable Energy Annual*. Data are from the report of the following year (i.e., 1994 data are published in the

Renewable Energy Annual 1995) for 1994 through 2000. Beginning in 2001, data are from the report of the same year. The specific tables are:

- 1994: Table 13.
- 1995: Table F9.
- 1996: Table 16.
- 1997: Table 15.
- 1998 and 1999: Table 12.
- 2000: Unpublished data.
- 2001 through 2003: Table 14.
- 2004 and 2005: Table 34.
- 2006: Table 2.6.

Note: California data for 1986 through 2004, Arizona data for 2005, and Nevada data for 2006, are reduced by the number of high-temperature solar thermal collectors used in the electric power sector, as shown in the following tables:

- 1986 through 1993: EIA, Renewable Energy Annual 1995, Table 13.
- 1994 forward: EIA, *Renewable Energy Annual*. Data are from the report of the following year (i.e., 1994 data are published in the *Renewable Energy Annual 1995*) for 1994 through 2000. Beginning in 2001, data are from the report of the same year. The specific tables are:
 - 1994: Table H3.
 - 1995: Table F10.
 - 1996: Table 17.
 - 1997: Table 19.
 - 1998 and 1999: Table 16.
 - 2000: Unpublished data.
 - 2001 through 2003: Table 18.
 - 2004 and 2005: Table 38.
 - 2006: Table 2.10.

Wind Energy

Wind energy used to produce electricity by the electric power sector is included in the State Energy Data System (SEDS) for 1983 forward. The data are identified in SEDS by the following name ("ZZ" in the variable name represents the two-letter State code that differs for each State):

WYEGPZZ = electricity produced from wind energy by the electric power sector, by State, in million kilowatthours; and

The U.S. total is calculated as the sum of the State data:

WYEGPUS $=\Sigma$ WYEGPZZ

Electricity produced from wind energy by the electric power sector is converted from kilowatthours to British thermal units (Btu) by using a conversion factor that is the U.S. average heat content of fossil fuels consumed at steam-electric power plants, FFETKUS. The annual values for this factor are shown in Appendix B, Table B1, http://www.eia.doe.gov/emeu/states/ seds tech notes.html.

FFETKUS = factor for converting electricity produced from wind energy from kilowatthours to Btu.

The values for the electric power sector in each State are converted to Btu and the U.S. total is the sum of the State data:

WYEGBZZ = WYEGPZZ * FFETKUS

WYEGBUS = Σ WYEGBZZ

The State and U.S. totals for wind energy are calculated:

WYTCBZZ = WYEGBZZ $WYTCBUS = \Sigma WYTCBZZ$

Data Sources

 $FFETKUS \ -- \ Fossil-fueled \ steam-electric \ power \ plant \ conversion \ factor.$

- 1960 through 1988: Estimated by EIA as the weighted annual average heat rate for fossil-fueled steam-electric plants in the United States as published in the EIA, *Electric Plant Cost and Power Production Expenses 1991*, Table 9.
- 1989 through 2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels.

• 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-906, "Power Plant Report." The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

WYEGPZZ — Electricity produced from wind energy by the electric power sector by State.

- 1960 through 1982: No data available. Values are assumed to be zero.
- 1983 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report."
- 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and EIA-906, "Power Plant Report," and predecessor forms.

Wood and Waste

Different forms of wood and waste are used by each consuming sector. The residential sector burns wood for space heating. The commercial sector uses wood for space heating, and wood, municipal waste and land fill gas for steam heat and electricity generation. The industrial sector uses combustible industrial by-products and wood chips for electricity generation and process steam. The electric power sector uses wood, industrial wood waste and waste gas, and municipal waste as cofiring or primary fuels to produce electricity. Consumption of wood and waste in all sectors is included in the State Energy Data System (SEDS) for 1960 forward. Wood includes wood and wood-derived fuels. Prior to 2001, waste also includes non-biomass waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

Residential Sector

Physical Units

Estimates of wood consumed in the residential sector by State for 1960 through 1979 are from the Energy Information Administration (EIA) *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. For 1980 forward, State estimates are developed from U.S. totals published in the EIA *Annual*

Energy Review (AER), from Census division data collected on the EIA triennial survey, Residential Energy Consumption Survey (RECS) for 1981, 1984, 1987, 1990, 1993, 1997, 2001, and 2005 and from U.S. Department of Commerce, Bureau of the Census, annual estimates of number of housing units per State. The 1981 RECS provides wood consumption data for the national total and Census Regions. For all other years, RECS provides data for the national total and Census divisions. In addition, the survey sample size of the 1993, 1997, and 2001RECS were large enough to provide data for California, Florida, New York, and Texas. For 2005, RECS only provides data for California, New York, and Texas. An estimate for Florida is derived from the 2005 RECS microdata. Estimates for the other States in 1993, 1997, 2001, and 2005, and for all States in the other years are developed by allocating the U.S. total from the AER to the Census divisions or regions in proportion to RECS data. The regional values are then allocated to the States within the regions in proportion to the Census Bureau housing units per State. Estimates for the years intervening the RECS surveys are based on the annual U.S. totals from the AER and the State proportions of the preceding available RECS, i.e., 1982 and 1983 estimates are based on the State proportions of the 1981 data. On the basis of RECS data, the assumption is made that no wood is consumed in the residential sector in Hawaii.

The State data derived above are used in SEDS as wood consumption in the residential sector, identified in the system as WDRCPZZ. "ZZ" in the following variable name represents the two-letter State code that differs for each State.

WDRCPZZ = wood consumed in the residential sector of each State, in thousand cords.

The State-level data are summed to a U.S. total:

 $WDRCPUS = \Sigma WDRCPZZ$

British Thermal Units (Btu)

The residential sector data in cords are converted to Btu by using the conversion factor of 20 million Btu per cord:

WDRCBZZ = WDRCPZZ * 20 WDRCBUS = Σ WDRCBZZ

Data Sources

WDRCPZZ — Wood energy consumed by the residential sector by State.

- 1960 through 1979: EIA, Estimates of U.S. Wood Consumption from 1949 to 1981, Table A4. Data published in thousand short tons are converted to thousand cords by using the factors of one short ton equals 17.2 million Btu (as published in the footnote of Table A4) and 20 million Btu equal one cord of wood, (as published in EIA, Household Energy Consumption and Expenditures 1993, page 314.
- 1980 forward: U.S. totals published in the EIA *Annual Energy Review 2008*, Table 10.2a are converted from trillion Btu to thousand cords (by using the factor of 20 million Btu per cord) and allocated to the States as described below. Hawaii residential wood consumption is assumed to be zero for all years.
 - 1980 through 1983: U.S. Census Region wood consumption in thousand cords from Form EIA-457, "1981 Residential Energy Consumption Survey" is allocated to the States within each Region in proportion to the U.S. Department of Commerce, Bureau of the Census, *American Housing Survey*, "Total Housing Units for States, July 1, 1981." This derived 1981 State series is used to allocate the *AER* annual U.S. residential wood consumption to the States for 1980 through 1983.
 - 1984 through 1986: U.S. Census division wood consumption in thousand cords from Form EIA-457, "1984 Residential Energy Consumption Survey" is allocated to the States within each Division in proportion to the U.S. Department of Commerce, Bureau of the Census, *American Housing Survey*, "Total Housing Units for States, July 1, 1984." This derived 1984 State series is used to allocate the *AER* annual U.S. residential wood consumption to the States for 1984 through 1986.
 - 1987 through 1989: U.S. Census division wood consumption in thousand cords from Form EIA-457, "1987 Residential Energy Consumption Survey" is allocated to the States within each Division in proportion to the U.S. Department of Commerce, Bureau of the Census, *American Housing Survey*, "Total Housing Units for States, July 1, 1987." This derived 1987 series is used to allocate the *AER* annual U.S. residential wood consumption to the States for 1987 through 1989.
 - 1990 through 1992: U.S. Census division wood consumption in thousand cords are from Form EIA-457, "1990 Residential Energy Consumption Survey." State-level estimates are available

- for 1993 for California, Florida, New York, and Texas from the Form EIA-457, "1993 Residential Energy Consumption Survey." Those four States' percentages of their respective Division totals in the 1993 survey are applied to the 1990 Census division data to derive their 1990 values. Wood consumption by the other States in each Division is estimated by allocating the remaining Division data to the States in proportion to the U.S. Department of Commerce, Bureau of the Census, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series,...(includes revised April 1, 1990 census housing...)" column titled "4/1/90 Census" at http://www.census.gov/population/estimates/housing/sthuhh6.txt. This derived 1990 State series is used to allocate the AER annual U.S. residential wood consumption to the States for 1990 through 1992.
- 1993 through 1996: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "1993 Residential Energy Consumption Survey." Data for the other States in each Division are estimated by allocating the remaining Division data to the States in proportion to the U.S. Department of Commerce, Bureau of the Census, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series, July 1, 1991 to July 1, 1998...," column titled "7/1/93" at http://www.census.gov/population/estimates/housing/sthuhh6.txt. This derived 1993 State series is used to allocate the AER annual U.S. residential wood consumption to the States for 1993 through 1996.
- 1997 through 2000: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "1997 Residential Energy Consumption Survey." Data for the other States in each Division are estimated by allocating the remaining Division data to the States in proportion to the U.S. Department of Commerce, Bureau of the Census, Internet file (ST-98-51) "Estimates of Housing Units,...Annual Time Series, July 1, 1991 to July 1, 1998...," column titled "7/1/97" at http://www.census.gov/population/estimates/housing/sthuhh6.txt. This derived 1997 State series is used to allocate the AER annual U.S. residential wood consumption to the States for 1997 through 2000.
- 2001 through 2004: Residential wood consumption data for U.S.
 Census divisions and for California, Florida, New York, and
 Texas are from Form EIA-457, "2001 Residential Energy

- Consumption Survey." Data for the other States in each Division are estimated by allocating the remaining Division data to the States in proportion to the U.S. Department of Commerce, Bureau of the Census, Internet file "Table 1. Annual Estimates of Housing Units for the United States and States: April 1, 2000 to July 1, 2007," column titled "July 1, 2001" at http://www.census.gov/popest/housing/tables/HU-EST2007-01.xls. This derived 2001 State series is used to allocate the *AER* annual U.S. residential wood consumption to the States for 2001 through 2004.
- 2005 forward: Residential wood consumption data for U.S. Census divisions and for California, Florida, New York, and Texas are from Form EIA-457, "2005 Residential Energy Consumption Survey." Data for the other States in each Division are estimated by allocating the remaining Division data to the States in proportion to the U.S. Department of Commerce, Bureau of the Census, Internet file "Table 1. Annual Estimates of Housing Units for the United States and States: April 1, 2000 to July 1, 2007," column titled "July 1, 2005" at http://www.census.gov/popest/housing/tables/HU-EST2007-01.xls. This derived 2005 State series is used to allocate the AER annual U.S. residential wood consumption to the States for 2005 forward.

Commercial Sector

Estimates of wood consumed in the commercial sector by State for 1960 through 1979 are from the EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. The data published in thousand short tons are converted to billion Btu by using the conversion factor of one short ton equals 17.2 million Btu. The assumption was made in that report that wood is consumed in the commercial sector in proportion to consumption in the residential sector each year. For 1980 through 1988, national level commercial wood consumption estimates in trillion Btu are from the EIA, *Annual Energy Review*. Using the same methodology as for previous years, the national data are allocated to the States in proportion to residential sector wood use each year.

For 1989 forward, State-level data on wood and waste consumption by commercial combined heat and power (CHP) plants are available from the Form EIA-920, "Combined Heat and Power Plant Report," and

predecessor forms. All commercial consumption of waste occurs at CHP plants; however, some wood consumption occurs at other types of commercial establishments. The U.S. total wood consumption in the commercial sector is published in the AER. The U.S. total of the State commercial CHP plant wood consumption is subtracted from the AER national commercial sector total, and the remainder is allocated to the States in proportion to each State's residential sector wood use each year from 1989 forward.

The data series described above, used to estimate SEDS wood and waste consumption in the commercial sector, are identified as follows ("ZZ" in the variable names represents the two-letter State code that differs for each State):

WDRCPZZ = wood consumed in the residential sector of each State, in thousand cords:

WDCCBUS = wood consumed by the commercial sector in the United States, in billion Btu:

WDC3BZZ = wood consumed by CHP facilities in the commercial sec-

tor of each State, in billion Btu; and

WSC3BZZ = waste consumed by CHP facilities in the commercial sector of each State, in billion Btu.

The U.S. totals for the State-level series are calculated as the sum of the State data:

WDRCPUS = Σ WDRCPZZ WDC3BUS = Σ WDC3BZZ WSC3BUS = Σ WSC3BZZ

The national total wood consumed by commercial entities other than CHP facilities are calculated as shown below, and those volumes are allocated to the States in proportion to the residential wood consumption series as follows:

WDC4BUS = WDCCBUS - WDC3BUS WDC4BZZ = (WDRCPZZ / WDRCPUS) * WDC4BUS

State totals of commercial wood consumption is calculated as the sum of consumption by CHP facilities and the remaining commercial sector:

WDCCBZZ = WDC3BZZ + WDC4BZZ

Total commercial consumption of waste is set equal to the commercial consumption of waste by CHP facilities, which are the only commercial facilities with waste consumption, and the U.S. total is calculated as the sum of the State values.

WSCCBZZ = WSC3BZZ $WSCCBUS = \Sigma WSCCBZZ$

The total wood and waste consumption in the commercial sector is calculated as the sum of wood consumption and waste consumption, and the U.S. total is calculated as the sum of the State data:

WWCCBZZ = WDCCBZZ + WSCCBZZ WWCCBUS = Σ WWCCBZZ

Data Sources

WDC3BZZ — Wood energy consumed by CHP facilities in the commercial sector of each State.

• 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

WDCCBUS — Wood consumed by the commercial sector in the United States.

- 1960 through 1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A7. Data published in thousand short tons are converted to Btu using the factor of one short ton equals 17.2 million Btu (as stated in the footnote of Table A7).
- 1980 forward: EIA, data in billion Btu shown in trillion Btu in the *Annual Energy Review 2008*, Table 10.2a.

WSC3BZZ — Waste energy consumed by CHP facilities in the commercial sector of each State.

• 1989 forward: EIA, Forms EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

WDRCPZZ — Wood energy consumed by the residential sector by State. See sources on page 88.

Industrial Sector

Industrial sector wood and waste consumption estimates by State for 1960 through 1979 are from the EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*. The data, published in thousand short tons, are converted to billion Btu using the factor 1 short ton equals 17.2 million Btu.

Estimates for 1980 through 1995 are based on a national-level data series published for 1949 forward in the EIA Annual Energy Review (AER). National wood and waste consumption by type is collected by Standard Industrial Classification (SIC) on the EIA triennial survey Form EIA-846, "Manufacturing Energy Consumption Survey" (MECS) for 1985, 1988, 1991, and 1994. The assumption is made that wood and waste use in the manufacturing sector occurs primarily in the industries included in SIC series 2421 (sawmills and planing mills), 2511 (wood household furniture), 2621 (paper mills), 2046 (wet corn milling), and 2061 (raw cane sugar). The amount of wood and waste consumed by each of the SIC groups of industries is estimated from the MECS data, and the MECS proportions are used to allocate the U.S. totals from the AER to SIC groups for each year. The SIC annual subtotals are allocated to the States using State-level data on the value added in manufacturing processes for each of the SIC series listed above, as published in the U.S. Department of Commerce, Bureau of the Census, Census of Manufacturers, Industry Series, for 1982, 1987, and 1992.

Estimates for 1996 forward use the same methodology used for 1980 through 1995 with the exception that the Bureau of the Census *Economic Census* for 1997 and 2002 use North American Industry Classification System (NAICS) instead of Standard Industrial Classifications. Some categories used in the two classification systems are directly comparable (NAICS 311221 to SIC 2046, NAICS 311311 to SIC 2061, and NAICS 322130 to SIC 2631), some are closely (over 97 percent) comparable (NAICS 337122 to SIC 2511 and the sum of NAICS 321113 and 321912 to SIC 2421), and one is roughly (74 percent) comparable (NAICS 322121 to SIC 2621). The EIA survey Form EIA-846, MECS, also uses NAICS codes in the surveys for 1998 and 2002. The discontinuity in these State allocating series caused by the change from SIC to NAICS categories is not significant in light of the broad assumptions of the estimation methodology.

For 1989 forward, State-level data on wood and waste consumption by industrial combined heat and power (CHP) facilities are available from the

Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms. These data are used with the manufacturing data to estimate total industrial sector wood and waste consumption for each State.

Industrial wood and waste consumption is expressed in Btu because its components are physically measured in a variety of units (e.g., tons, cubic feet, and kilowatthours). Industrial wood and waste data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

WDI3BZZ = wood consumed by CHP facilities in the industrial sector in each State, in billion Btu;

WDI4BZZ = wood consumed by the manufacturing portion of the industrial sector of each State, in billion Btu;

WSI3BZZ = waste consumed by CHP facilities in the industrial sector in each State, in billion Btu; and

WSI4BZZ = waste consumed by the manufacturing portion of the industrial sector of each State, in billion Btu.

The U.S. totals of the State series are calculated as the sum of the State data:

WDI3BUS = Σ WDI3BZZ WDI4BUS = Σ WDI4BZZ WSI3BUS = Σ WSI3BZZ WSI4BUS = Σ WSI4BZZ

The U.S. total for wood consumed by the industrial sector is calculated as the sum of consumption by CHP facilities and the manufacturing sector, and the U.S. total is calculated as the sum of the State data:

WDICBZZ = WDI3BZZ + WDI4BZZ

WDICBUS = Σ WDICBZZ

The U.S. total for waste consumed by the industrial sector is calculated as the sum of consumption by CHP facilities and the manufacturing sector, and the U.S. total is calculated as the sum of the State data:

WSICBZZ = WSI3BZZ + WSI4BZZ

WSICBUS = Σ WSICBZZ

The total manufacturing sector is calculated as the sum of wood consumption and the sum of waste consumption, and the U.S. total is calculated as the sum of the State data:

WWI4BZZ = WDI4BZZ + WSI4BZZ

WWI4BUS = Σ WWI4BZZ

The total industrial sector is calculated as the sum of wood consumption and the sum of waste consumption, and the U.S. total is calculated as the sum of the State data:

WWICBZZ = WDICBZZ + WSICBZZ

WWICBUS = Σ WWICBZZ

Data Sources

WDI3BZZ — Wood consumed by CHP facilities in the industrial sector by State.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

WDI4BZZ — Wood consumed by the manufacturing sector by State.

- 1960 through 1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A10. Data published in thousand short tons are converted to Btu by using the factor of one short ton equals 17.2 million Btu (as published in the footnote of Table A10).
- 1980 forward: EIA estimates developed by using three data sources. U.S. totals for each year are as published for selected years in the EIA, *Annual Energy Review 2008 (AER)*, Table 10.2b.
 - 1980 through 1985: U.S. totals from the AER are allocated to Standard Industrial Classification (SIC) groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1985," Table 3, Columns "Major Byproducts" and "Other." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1982 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills,

- Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The State values for each of the four SIC groups are summed to derive State total wood and waste industrial consumption estimates.
- 1986 through 1989: U.S. totals from the AER are allocated to SIC groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1988," Tables 2 and 18, columns "Pulping Liquor," "Roundwood," and "Wood Chips." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1987 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The State values for each of the four SIC groups are summed to derive State total industrial wood consumption estimates.
 - For 1989 only, State-level data on wood consumption by combined heat and power (CHP) facilities are available from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu. These CHP State data are summed and subtracted from the *AER* U.S. total. The remaining value is assumed to be the manufacturing sector and is allocated to the States using the method above. The State values for each of the four SIC groups and the CHP facilities are summed to derive State total industrial wood consumption estimates.
- 1990 through 1993: State-level data on wood consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, and 26 based on unpublished data on pulping liquor, roundwood, and wood chips from the Form EIA-846, "Manufacturing Energy Consumption Survey 1991 (MECS)." SIC groups 20 and 26 are grouped as "Other" in MECS. The proportions of those two groups in the 1988 and 1994 MECS are averaged and used to estimate the breakout for 1991. These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1992 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for

- Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2541 Wood Partitions and Fixtures, and Industry 2621 Paper Mills. The State values for each of the four SIC groups and the CHP facilities are summed to derive State total industrial wood consumption estimates.
- 1994 and 1995: State-level data on wood consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1992 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The State values for each of the five SIC groups and the CHP facilities are summed to derive State total industrial wood consumption estimates.
- 1996 and 1997: State-level data on wood consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report," in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1997 Economic Census. In the Economic Census the SIC groupings for the State data are replaced by North American Industry Classification System (NAICS) industry groups. The two industry classification systems are not identical, but NAICS groups are chosen that compare with SIC categories as closely as possible. The State series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311221 Wet

- corn milling (for SIC 20 Food), Industry 321113 Sawmills and Industry 3212 Engineered wood product manufacturing (for SIC 24 Wood), Industry 3372 Office furniture manufacturing (for SIC 25 Furniture), Industry 322121 Paper mills, and Industry 322130 Paperboard mills (for SIC 26 Paper), and Industry 313 Textile mills (for Other SIC). The State values for each of the five NAICS group subtotals and the CHP facilities are summed to derive State total industrial wood consumption estimates.
- 1998 forward: State-level data on wood consumption by CHP facilities from the Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms, in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to NAICS industry groups 311, 321, 322, 337, and "Other" based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey," 1998 (for 1998-2001) and 2002 (for 2002 forward), table entitled "Selected Wood and Wood-Related Products in Fuel Consumption," columns "Pulping or Black Liquor," "Wood from Trees," and "Wood from Mills." These NAICS subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, Economic Census for 1997 (1998–2000) and 2002 (2001 forward). The State series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311221 Wet corn milling (for NAICS 311 Food), Industry 321113 Sawmills and Industry 3212 Engineered wood product manufacturing (for NAICS 321 Wood products), Industry 3372 Office furniture manufacturing (for NAICS 337 Furniture), Industry 322121 Paper mills, and Industry 322130 Paperboard mills (for NAICS 322 Paper), and Industry 313 Textile mills (for Other NAICS). The State values for each of the five NAICS group subtotals and the CHP facilities are summed to derive State total industrial wood consumption estimates.

WSI3BZZ — Waste consumed by CHP facilities in the industrial sector by State.

- 1960 through 1988: No data available. Values are assumed to be zero.
- 1989 forward: EIA, Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

WSI4BZZ — Waste consumed by the manufacturing sector by State.

- 1960 through 1980: No data available. Values assumed to be zero.
- 1981 forward: EIA estimates developed by using three data sources. U.S. totals for each year are as published for selected years in the EIA, *Annual Energy Review 2008 (AER)*, Table 10.2b.
 - 1981 through 1985: U.S. totals from the AER are allocated to Standard Industrial Classifications (SIC) groups 20, 24, 25, and 26 based on data from the EIA "Manufacturing Energy Consumption Survey 1985 (MECS)," Table 3, columns "Major Byproducts" and "Other." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1982 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The State values for each of the four SIC groups are summed to derive State total industrial waste consumption estimates.
 - 1986 through 1989: U.S. totals from the AER are allocated to SIC groups 20, 24, 25, and 26 based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey 1988," Tables 2 and 18, columns "Waste," and "Biomass." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1987 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paper-board Mills. The State values for each of the four SIC groups are summed to derive State total industrial waste consumption estimates.

For 1989 only, State-level data on waste consumption by CHP facilities are available from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu. These CHP State data are summed and subtracted from the *AER* U.S. total. The remaining value is assumed to be the manufacturing sector and is allocated to the States using the method above. The State values for each of the four SIC groups and the CHP facilities are summed to derive State total industrial waste consumption estimates.

- 1990 through 1993: State-level data on waste consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, and 26 based on unpublished data on waste and biomass from the Form EIA-846, "Manufacturing Energy Consumption Survey 1991 (MECS)." SIC groups 20 and 26 are grouped as "Other" in MECS 1991. The proportions of those two groups in the 1988 and 1994 MECS are averaged and used to estimate the breakout for 1991. These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1992 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2541 Wood Partitions and Fixtures, and Industry 2621 Paper Mills. The State values for each of the four SIC groups and the CHP facilities are summed to derive State total industrial waste consumption estimates.
- 1994 and 1995: State-level data on waste consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Agricultural Waste" and "Wood and Paper Refuse." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1992 Census of Manufacturers, Table 2, column titled "Value Added by Manufacturer," from the publications for Industry 2061 Raw Cane Sugar, Industry 2046 Wet Corn Milling, Industry 2421 Sawmills and Planing Mills, Industry 2511 Wood Household Furniture, Industry 2621 Paper Mills, and Industry 2631 Paperboard Mills. The State values for each of the five SIC groups and the CHP facilities are summed to derive State total industrial waste consumption estimates.
- 1996 and 1997: State-level data on waste consumption by CHP facilities from the Form EIA-867, "Annual Nonutility Power Producer Report" or Form EIA-860, "Annual Electric Generator Report" in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to SIC

groups 20, 24, 25, 26, and "Other" based on data from the Form EIA-846, "1994 Manufacturing Energy Consumption Survey," Table A7, columns "Agricultural Waste" and "Wood and Paper Refuse." These SIC subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, 1997 Economic Census. In the Economic Census the SIC groupings for the State data are replaced by North American Industry Classification System (NAICS) industry groups. The two industry classification systems are not identical, but NAICS groups are chosen that compare with SIC categories as closely as possible. The State series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311311 Sugar cane mills, and Industry 311221 Wet corn milling (for SIC 20 Food), Industry 321912 Cut stock, resawing lumber, and planing (for SIC 24 Wood), Industry 3372 Office furniture manufacturing (for SIC 25 Furniture), Industry 322122 Newsprint mills, and Industry 322130 Paperboard mills (for SIC 26 Paper), and Industry 313 Textile mills (for Other SIC). The State values for each of the five NAICS group subtotals and the CHP facilities are summed to derive State total industrial waste consumption estimates.

— 1998 forward: State-level data on waste consumption by CHP facilities from the Form EIA-920, "Combined Heat and Power Plant Report," and predecessor forms, in billion Btu are summed and subtracted from the AER U.S. total. The remaining national value is allocated to NAICS industry groups 311, 321, 337, and 322, and "Other" based on data from the Form EIA-846, "Manufacturing Energy Consumption Survey," 1998 (for 1998–2001) and 2002 (for 2002 forward), Table A7, columns "Agricultural Waste" and "Wood and Paper Refuse." These NAICS subtotals are allocated to the States using State-level series from the U.S. Department of Commerce, Bureau of the Census, Economic Census for 1997 (1998-2000) and 2002 (2001 forward). The State series are from Table 2, column titled "Value Added by Manufacturer," from the publications for NAICS Industry 311311 Sugar cane mills, and Industry 311221 Wet corn milling (for SIC 20 Food), Industry 321912 Cut stock, resawing lumber, and planing (for SIC 24 Wood), Industry 3372 Office furniture manufacturing (for SIC 25 Furniture), Industry 322122 Newsprint mills, and Industry 322130 Paperboard mills (for SIC 26 Paper), and Industry 313 Textile mills (for Other SIC). The State values for each of the five NAICS group subtotals and the CHP facilities are summed to derive State total industrial waste consumption estimates.

Electric Power Sector

Electric power sector use of wood and waste to generate electricity is based on data series from EIA Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms and is estimated in SEDS using two methods. From 1989 forward, the Btu content of the wood and waste consumed by electric power plants is reported on the data collection forms and used in SEDS. Prior to 1989. Btu data were not collected by the source data forms and data on electricity generation from wood and waste are used instead. Net generation of electricity is converted to equivalent Btu using the fossil-fueled steam-electric plant conversion factor, and the resulting Btu values are entered into SEDS. Rarely, power plants can use more electricity than they generate from wood and waste energy sources and a negative net generation (and, therefore, Btu consumption) value can be seen in SEDS. From 1960 through 1981, electricity generation from wood and waste are reported combined and from 1982 forward generation or Btu values from each source are reported separately.

The data series are identified in SEDS by the following names ("ZZ" in the variable name represents the two-letter State code that differs for each State):

WDEIBZZ = wood consumed by the electric power sector in each State (included in waste energy for 1960 through 1981), in mil-

lion Btu; and

WSEIBZZ = waste consumed by the electric power sector in each State (includes wood energy for 1960 through 1981), in million

Btu.

The U.S. totals are calculated as the sum of the State data, and wood and waste are summed to provide a total (WW) value:

WDEIBUS = Σ WDEIBZZ WSEIBUS = Σ WSEIBZZ WWEIBZZ = WDEIBZZ + WSEIBZZ WWEIBUS = Σ WWEIBZZ

Data Sources

WDEIBZZ — Wood consumed by the electric power sector by State.

- 1960 through 1981: Data included in waste energy sources, see WSEIBZZ.
- 1982 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report," electricity generation from wood converted to Btu using the fossil-fueled steam-electric power plant conversion factor shown in Table B1 (http://www.eia.doe.gov/emeu/states/ seds tech notes.html).
- 1989 forward: EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

WSEIBZZ — Waste consumed by the electric power sector by State.

- 1960 through 1988: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms, electricity generation from waste (includes wood energy sources from 1960 through 1981) converted to Btu using the fossil-fueled steam-electric power plant conversion factor shown in Table B1 (http://www.eia.doe.gov/emeu/states/seds-tech-notes.html).
- 1989 forward: EIA, Forms EIA-906, "Power Plant Report," and EIA-920, "Combined Heat and Power Plant Report," and predecessor forms.

Totals

State total consumption of wood and waste is calculated as the sum of the consumption in the residential, commercial, and industrial sectors as well as consumption by the electric power sector. The U.S. total is the sum of the State data:

WDTCBZZ = WDRCBZZ + WDCCBZZ + WDICBZZ + WDEIBZZ WDTCBUS = Σ WDTCBZZ

WSTCBZZ = WSCCBZZ + WSICBZZ + WSEIBZZ

WSTCBUS = Σ WSTCBZZ

WWTCBZZ = WDTCBZZ + WSTCBZZ

WWTCBUS = Σ WWTCBZZ

Additional Calculations

Additional calculations are made in SEDS to aggregate some data series to be shown in the tables of this report. Geothermal, wind, photovoltaic, and solar thermal energy sources are combined to be shown in the tables titled "Energy Consumption Estimates by Source." The variables are calculated for each State and the United States in billion Btu as follows:

G1TCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ

G1TCBUS = Σ G1TCBZZ

Renewable Energy Total

Renewable energy subtotals for each consuming sector in billion Btu are calculated for 1990 forward for each State and the U.S. totals.

In addition, the industrial sector includes energy losses and co-products from the production of fuel ethanol (ENLCB) for the U.S.

REACB = ENACB

RECCB = GECCB + HYCCB + WWCCB + ENCCB

REEIB = HYEGB + GEEGB + SOEGB + WWEIB + WYEGB

RERCB = WDRCB + GERCB + SOHCB

For the industrial sector:

REICBZZ = GEICBZZ + HYICBZZ + WWICBZZ + ENICBZZ

REICBUS = GEICBUS + HYICBUS + WWICBUS + ENICBUS +

ENLCBUS

RETCB = RERCB + RECCB + REICB + REACB + REEIB

Section 6. Electricity

This section describes electrical energy sources; electricity consumed by end users (i.e., electricity sold to end users); estimates of the electrical system energy losses incurred in the generation, transmission, and distribution of electricity; and estimates of net interstate sales of electricity.

Electrical Energy Sources

Physical Units

Electricity is produced from a number of energy sources. In the State Energy Data System (SEDS), coal, natural gas, and petroleum are measured in physical units of thousand short tons, million cubic feet, and thousand barrels, respectively, as they are consumed by the electric power sector. Since wood and waste are measured in a variety of physical units, they are converted to the equivalent heat content and entered into SEDS measured in British thermal units. Because comparable measures in physical units for nuclear power, hydroelectric, wood, waste, geothermal, wind, photovoltaic, and solar thermal energy sources are not available, energy output in the form of electricity produced from t/*hese energy sources, in million kilowatthours, is used instead. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter State code that differs for each State):

CLEIPZZ	= coal consumed by the electric power sector (described in
	Section 2 of this report), in thousand short tons;
DI DIDO	1

ELEXPZZ = electricity exported from the United States, in million kilowatthours;

ELIMPZZ = electricity imported into the United States, in million kilowatthours;

GEEGPZZ	= electricity produced from geothermal energy by the elec-
	tric power sector (described in Section 5), in million
	kilowatthours:

HYEGPZZ = electricity produced from hydroelectric power in the electric power sector (described in Section 5), in million kilowatthours:

NGEIPZZ = natural gas consumed by the electric power sector (described in Section 3), in million cubic feet;

NUEGPZZ = electricity produced from nuclear power in the electric power sector, in million kilowatthours;

PAEIPZZ = petroleum consumed by the electric power sector (described in Section 4), in thousand barrels;

SOEGPZZ = electricity produced from photovoltaic and solar thermal energy sources in the electric power sector (described in Section 5), in million kilwatthours;

WDEIBZZ = wood energy sources consumed by the electric power sector (described in Section 5), in billion Btu;

WSEIBZZ = waste energy sources consumed by the electric power sector (described in Section 5), in billion Btu; and

WYEGPZZ = electricity produced from wind energy by the electric power sector (described in Section 5), in million kilowatthours.

The U.S. totals for these series are calculated as the sum of the State data.

British Thermal Units (Btu)

In order to total all the energy that is used to produce electricity, the energy sources are converted to the common unit of Btu. The methods for calculating the Btu content of coal, natural gas, petroleum, and renewable energy sources consumed for generating electric power are explained in their respective sections of this documentation. Nuclear electric power is described in the following section.

Total energy consumed by the electric power sector is the sum of all primary energy used to generate electricity, including net imports of electricity across U.S. borders (ELNIBZZ, see page 99). To eliminate the double counting of supplemental gaseous fuels, which are accounted for in the fossil fuels from which they are derived, and in natural gas, they are removed from the total:

TEEIBZZ = PAEIBZZ + NGEIBZZ + CLEIBZZ + HYEGBZZ +

NUEGBZZ + GEEGBZZ + WWEIBZZ + WNEGBZZ

+ ELNIBZZ - SFEIBZZ

TEEIBUS = Σ TEEIBZZ

Nuclear Electric Power

Electricity generated from nuclear power, in million kilowatthours, by both regulated electric utilities and nonutility power producers are included in the State Energy Data System (SEDS) electric power sector. In the following formulas, "ZZ" in the variable name represents the two-letter State code that differs for each State:

NUEGPZZ = electricity produced from nuclear power in the electric power sector, in million kilowatthours.

The U.S. total is calculated as the sum of the State data:

NUEGPUS = Σ NUEGPZZ

Nuclear power used for generating electricity is the total nuclear energy, NUETP, included in EIA consumption data:

NUETPZZ = NUEGPZZ NUETPUS = NUEGPUS

The factor for converting electricity produced from nuclear energy (NUETKUS) is developed from data collected from nuclear steam-electric power plants. These U.S. average factors, which vary from year to year, can be found in Appendix B, Table B1, http://www.eia.doe.gov/emeu/states/seds-tech-notes.html.

NUETKUS = factor for converting nuclear electricity from kilowatthours to Btu.

The formulas for applying the nuclear factor are:

NUEGBZZ = NUEGPZZ * NUETKUS

NUEGBUS = Σ NUEGBZZ

NUETBZZ = NUEGBZZ NUETBUS = NUEGBUS

Data Sources

NUEGPZZ — Electricity produced from nuclear power in the electric power sector by State.

- 1960 through 1977: Federal Power Commission, News Release, "Power Production, Fuel Consumption, and Installed Capacity Data," table titled "Net Generation of Electric Utilities by State and Source."
- 1978 through 1980: Energy Information Administration (EIA), Energy Data Reports, "Power Production, Fuel Consumption and Installed Capacity Data," table titled "Net Generation of Electric Utilities by State and Source" (1978) and Table 36 (1979 and 1980).
- 1981 through 1985: EIA, Form EIA-759, "Monthly Power Plant Report," and predecessor forms. Data are published in the EIA, *Electric Power Annual 1985*, Table 6.
- 1986 forward: EIA, Form EIA-906, "Power Plant Report," and predecessor forms, http://www.eia.doe.gov/cneaf/electricity/page/data.html.

NUETKUS — Factor for converting electricity produced from nuclear power from physical units to Btu.

• 1960 through 1984: Calculated annually by the EIA by dividing the total heat content consumed in reactors at nuclear plants by the total (net) electricity generated by nuclear plants. The heat content and electricity generation are reported on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others" and Form EIA-412, "Annual Report of Public Electric Utilities," and predecessor forms. The factors for 1982 through 1984 are published in the following:

- 1982: EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215.
- 1983 and 1984: EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13.
- 1985 forward: Calculated annually by EIA using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-906, "Power Plant Report" (and predecessor forms).

Electricity Imports and Exports

Electricity transmitted across U.S. borders with Canada and Mexico are included in the State Energy Data System (SEDS) electric power sector.

ELEXPZZ = electricity exported from the United States by State, in

million kilowatthours;

ELIMPZZ = electricity imported into the United States by State, in

million kilowatthours;

U.S. totals are calculated as the sum of the State data:

ELIMPUS = Σ ELIMPZZ ELEXPUS = Σ ELEXPZZ

Net imports are derived by subtracting exports of electricity from imports:

ELNIPZZ = ELIMPZZ - ELEXPZZ

ELNIPUS = Σ ELNIPZZ

Imports and exports of electricity in million kilowatthours are converted to billion Btu by multiplying the physical unit data by the conversion factor of 3.412 thousand Btu per kilowatthour.

ELIMBZZ = ELIMPZZ * 3.412

ELIMBUS = Σ ELIMBZZ

ELEXBZZ = ELEXPZZ * 3.412

ELEXBUS = Σ ELEXBZZ

ELNIBZZ = ELIMBZZ - ELEXBZZ

ELNIBUS = Σ ELNIBZZ

Data Sources

ELEXPZZ — Electricity exported from the United States (assumed to be produced by hydroelectric power through 1988) by State.

- 1960 through 1981: Economic Regulatory Administration, *Staff Reports*, "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each State.
- 1982 and 1983: Energy Information Administration (EIA) State estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, *Electricity Exchanges Across International Borders*.
- 1984 through 1987: EIA State estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the Federal Energy Regulatory Commission Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, Electricity Transactions Across International Borders.
- 1988 forward: EIA State estimates are based on data from DOE, Office of Electricity Delivery and Energy Reliability, OE-781R, "Annual Report of International Electric Export/Import Data," and predecessor forms, and the Canada National Energy Board report, "Electricity Exports and Imports, Monthly Statistics for December...."

ELIMPZZ — Electricity imported into the United States (assumed to be produced by hydroelectric power through 1988) by State.

• 1960 through 1981: Economic Regulatory Administration, *Staff Reports*, "Report on Electric Energy Exchanges with Canada and Mexico." Source data are arranged by the Regional Reliability Council Areas and then by the electric utility. State data were tabulated by aggregating the data of all electric utilities within each State.

- 1982 and 1983: EIA State estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data." State estimates are consistent with national and regional totals published in the ERA, Electricity Exchanges Across International Borders.
- 1984 through 1987: EIA State estimates are based on data from Economic Regulatory Administration Form ERA-781R, "Annual Report of Electrical Export/Import Data," the Federal Energy Regulatory Commission Form 1, and the Bonneville Power Administration Annual Report. State estimates are consistent with national and regional totals published in the ERA, Electricity Transactions Across International Borders.
- 1988 forward: EIA State estimates are based on data from DOE, Office of Electricity Delivery and Energy Reliability, OE-781R, "Annual Report of International Electric Export/Import Data," and predecessor forms, and the Canada National Energy Board report, "Electricity Exports and Imports, Monthly Statistics for December...."

Electricity Consumed by the End User

Physical Units

The amount of electricity sold to end users is considered to be the amount of electricity consumed by the end-use sectors. Six electricity sales data series, in physical units of million kilowatthours, are used to estimate consumption of electricity by end-use sector. The variable names for these data are as follows ("ZZ" in the variable name represents the two-letter State code that differs for each State):

ESRCPZZ = electricity sold to the residential sector;

ESCMPZZ = a portion of the electricity sold to the commercial sector;

ESICPZZ = electricity sold to the industrial sector;

ESACPZZ = electricity sold to the transportation sector (2003 forward);

ESOTPZZ = electricity sold to "Other" users (i.e., public street and highway lighting, other public authorities, railroads and railways, and interdepartmental sales) (1960 through

2002); and

ESTRPZZ =

electricity consumed by transit systems (1960 through 2002).

U.S. totals for the six State-level series are calculated as the sum of the State data.

Sales of electricity to the residential and industrial sectors contained in the Energy Information Administration (EIA) *Electric Sales and Revenues* database are used directly as consumption of electricity by these sectors.

Beginning in 2003, sales of electricity to the commercial sector contained in the *Electric Sales and Revenues* database are used directly as consumption of electricity by this sector. Prior to 2003, commercial electricity consumption is estimated as the sum of sales to the commercial sector and the portion of sales to the "Other" sector that is not used for transportation:

ESCCPZZ = ESCMPZZ + ESOTPZZ - ESTRPZZ

ESCCPUS = Σ ESCCPZZ

From 2003 forward, transportation electricity sales data are taken directly from the *Electric Sales and Revenues* database. From 1960 through 2002, consumption of electricity for transportation, ESACPZZ, is equal to the electricity consumed by transit systems, ESTRPZZ, from the U.S. Department of Transportation, Federal Transit Administration.

Total electricity consumed is represented by ESTCPZZ and is calculated by adding the four end-use sector estimates:

ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ

ESTCPUS = Σ ESTCPZZ

British Thermal Units (Btu)

Electricity consumption estimates are converted into Btu by applying a constant factor of 3.412 thousand Btu per kilowatthour as illustrated in the formulas:

ESRCBZZ = ESRCPZZ * 3.412

ESTCBZZ = ESTCPZZ * 3.412

U.S. totals for the Btu series are calculated as the sum of the State data.

Additional Calculations

Beginning in 2003, electricity sold for transportation use is available from the EIA *Electric Sales and Revenues* database. For years prior to 2003, additional calculations are performed in the State Energy Data System (SEDS) to provide data for the EIA *Monthly Energy Review* and *Annual Energy Review* to use in estimating transportation electricity use. The share of electricity sold to the "Other" category of consumers that is used for transportation is calculated:

ESTRSUS = ESTRPUS / ESOTPUS

Additional Notes on Electricity Sales

- 1. Beginning in 2003, the source for electricity consumed by the transportation sector is the EIA Form EIA-861, "Annual Electric Power Industry Report." This is the first year that electricity sales data are collected separately for the transportation sector (previously these volumes were included in Commercial and "Other"). Information from the National Transit Data (NTD) System is used to supplement the EIA data for States with missing or incomplete volumes. Specifically, the following States did not report electricity consumed by the transportation sector in the EIA survey but data are available in the NTD System: Alabama, Arkansas (2004-2007), Iowa (2003-2005), Maine (2003-2006), Mississippi, Missouri (2003), Tennessee (2003), and Wisconsin. Transportation electricity used was under-reported in Ohio in 2003 and Oregon. The missing transit system data for these two States are obtained from the NTD System.
- 2. The source for the electricity sales data for 1960 through 1983 is the EIA Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Electricity sales data for 1984 forward are from Form EIA-861, "Annual Electric Utility Report." At the national level, data from both forms correspond closely (within 3 percent) for all end-use sectors. However, differences in the number of survey respondents and the reporting of commercial and industrial sales caused inconsistencies between 1983 and 1984 data in those end-use sectors for some States. See EIA *Electric Power Annual*, 1991, DOE/EIA-0348(91), p. 130, and *An Assessment of the Quality of Selected EIA Data Series, Electric Power Data*, DOE/EIA-0292(87), pp. 17–28, for detailed discussions of the reporting differences.

3. For 1960 through 1983, electricity sales data for the District of Columbia and Maryland are combined on the survey forms. Estimates of separate sales for the District of Columbia and Maryland were created by using electricity sales data by end-use sector by communities from the FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," filed by the Potomac Electric Power Company (PEPCO). PEPCO sales to the District of Columbia were assumed to be total electricity sales in the District of Columbia. Electricity sales to the District of Columbia reported by PEPCO on the FERC Form 1 were subtracted from the EIA-826 District of Columbia and Maryland aggregate figures to obtain estimates of Maryland electricity sales by sector. Beginning with 1981 data, electric utilities were no longer required to report sales to specific communities. Sales data for the District of Columbia for 1981 through 1983 were obtained directly from PEPCO's accounting department.

Data Sources

ESACPZZ — Electricity consumed by the transportation sector by State.

- 1960 through 2002: Equal to ESTRPZZ.
- 2003 forward: EIA, "Historical EPA Electric Sales and Revenue Spreadsheets", http://www.eia.doe.gov/cneaf/electricity/epa/sales_state.xls, sector name "Total Electric Industry", column "Transportation Sales." Data from the U.S. Department of Transportation, National Transit Database, http://www.ntdprogram.gov/ntdprogram/data.htm, (click on "Data Tables") are used for the following States: Alabama, Arkansas, Iowa, Maine, Mississispi, Missouri, Ohio, Oregon, Tennessee, and Wisconsin. See Additional Note 1 on page 101.

ESCMPZZ — A portion of the electricity sold to the commercial sector by State.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 101.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics*, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, Electric Power Annual (November 1982), Table 125.

- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual 1988*, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 forward: EIA, "Historical EPA Electric Sales and Revenue Spreadsheets", http://www.eia.doe.gov/cneaf/electricity/epa/sales_state.xls, sector name "Total Electric Industry," column "Commercial Sales."

ESICPZZ — Electricity consumed by the industrial sector by State.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 101.

- 1960 through 1975: Federal Power Commission, Electric Power Statistics, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 126.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual 1988*, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 forward: EIA, "Historical EPA Electric Sales and Revenue Spreadsheets", http://www.eia.doe.gov/cneaf/electricity/epa/sales_state.xls, sector name "Total Electric Industry," column "Industrial Sales."

ESOTPZZ — Electricity sold to the "Other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales) by State.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 101.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics*, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 127.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual 1988*, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.
- 1990 through 2002: EIA, "Historical EPA Electric Sales and Revenue Spreadsheets", http://www.eia.doe.gov/cneaf/electricity/epa/sales_state.xls, sector name "Total Electric Industry," column "Other Sales."
- 2003 forward: Series discontinued. Values are zero.

ESRCPZZ — Electricity consumed by the residential sector by State.

Note: Data for Maryland and the District of Columbia were combined for 1960 through 1983. The method for disaggregating the data is explained in Additional Note 3 on page 101.

- 1960 through 1975: Federal Power Commission, *Electric Power Statistics*, "Sales of Electric Energy to Ultimate Consumers."
- 1976 through 1980: EIA, *Electric Power Annual* (November 1982), Table 124.
- 1981 through 1983: EIA, Form EIA-826, "Electric Utility Company Monthly Statement," and predecessor forms. Published data rounded to gigawatthours in EIA, *Electric Power Annual 1983*, Table 51.
- 1984 through 1986: EIA, Form EIA-861, "Annual Electric Utility Report." Unpublished data.
- 1987: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual 1988*, Table 19.
- 1988 and 1989: EIA, Form EIA-861, "Annual Electric Utility Report." Published in the EIA, *Electric Power Annual*, Table 27.

• 1990 forward: EIA, "Historical EPA Electric Sales and Revenue Spreadsheets", http://www.eia.doe.gov/cneaf/electricity/epa/sales_state.xls, sector name "Total Electric Industry," column "Residential Sales."

ESTRPZZ — Electricity consumed by transit systems by State.

Notes: The transit system data include electricity used to operate commuter rail, rapid rail, streetcars or light rail, cable cars, trolley-buses, motorbuses, automated guideways, inclined plane railways, and aerial tramways. These data do not include electricity used by Amtrak. These data are available on a fiscal year basis (July 1 through June 30) for 1979 through 1982 and for calendar years 1983 forward. Some data for 1979 through 1983 were adjusted by EIA on the basis of an analysis of historical trends. Electricity consumption for the District of Columbia for 1976 through 2002 is partially apportioned to Maryland and Virginia on the basis of electricity consumption data from the Washington Metropolitan Area Transit Authority.

- 1960 through 1978: EIA estimates are based on data from:
 - The American Public Transit Association (formerly the American Transit Association) annual operating reports.
 - Pushkarev, Boris S. and others, *Urban Rail in America*. (Bloomington, IN: Indiana University Press, 1982.)
 - U.S. Department of Transportation, A Directory of Regularly Scheduled, Fixed Route, Local Public Transportation Service in Urbanized Areas Over 50,000 Population, 1980 and 1981.
- 1979 through 1989: U.S. Department of Transportation, Urban Mass Transportation Administration, *National Urban Mass Transportation Statistics, Section 15 Annual Report*, table titled "Energy Consumption: Details by Transit System."
 - 1979 and 1980: Table 2.13.1.
 - 1981 and 1982: Table 3.13.1.
 - 1983 through 1989: Table 3.12.
- 1990 through 2002: U.S. Department of Transportation, Federal Transit Administration, *Data Tables for the Section 15 Report Year*, http://www.ntdprogram.gov/ntdprogram, (click on "Access NTD Data" and then "Data Tables."):
 - 1990: Table 2.12.
 - 1991: Table 13.
 - 1992 through 1997: Table 15.
 - 1998: Table 16.
 - 1999 through 2002: Table 17.

• 2003 forward: Series replaced by ESACPZZ. Values are zero.

Estimates of Electrical System Energy Losses

British Thermal Units (Btu)

Electrical system energy losses, identified by "LO," include all losses incurred in the generation, transmission, and distribution of electricity, including plant use and unaccounted for quantities. Total losses for the United States, LOTCBUS, is assumed to be the difference between the total of all energy consumed by the electric power sector (TEEIBUS) and the total electricity sold to end users (ESTCBUS). Total losses for the United States is calculated in billion Btu as follows:

LOTCBUS = TEEIBUS - ESTCBUS

Because Alaska and Hawaii have no exchanges of electricity with other States, their electrical system energy losses are estimated as the difference between the sum of all energy consumed by the State's electric power sector and the electricity sold within the State:

LOTCBAK = TEEIBAK – ESTCBAK LOTCBHI = TEEIBHI – ESTCBHI

Individual State electrical system energy losses for the remaining States are estimated by a different method. The difference between each of the contiguous 48 States' (including the District of Columbia) TEEIB series and ESTCB is not only the losses but also any net interstate flow of electricity that may occur between States. In some cases these net interstate flows are substantial. Therefore, an effort is made to estimate separately each State's losses and net interstate flow. The methodology is to calculate the contiguous-48-State subtotal of losses and subtotal of sales; to create annual losses-to-sales ratios for the aggregate of the 48 States; and to apply the annual losses-to-sales ratios from the total 48 States to the individual 48 States' sales to estimate their losses.

The following steps are performed to complete the losses estimates. A subtotal of losses in the contiguous 48 States, LOTCB48, is created by subtracting the Alaska and Hawaii losses from the total United States' losses:

LOTCB48 = LOTCBUS - (LOTCBAK + LOTCBHI)

A similar subtotal of electricity sales in the 48 States only, ESTCB48, is calculated:

ESTCB48 = ESTCBUS – (ESTCBAK + ESTCBHI)

The losses-to-sales ratio for the contiguous 48 States only, ELLSS48, is calculated:

ELLSS48 = LOTCB48 / ESTCB48

Over the period covered in the State Energy Data System (SEDS), the ratio is fairly constant, with a slight downward trend. For 1960, the losses-to-sales ratio is 2.5; for 1961 through 1983 the ratio is around 2.4; for 1984 through the 1990s it fluctuates between 2.2 and 2.3; and for recent years the losses-to-sales ratio gradually move downward from 2.27 in 2000 to 2.16 in 2006.

The U.S. ratios are applied to each State's sales to the major end-use sectors and total sales (temporarily including Alaska, Hawaii, and the 48-State subtotal for processing convenience):

LORCBZZ = ESRCBZZ * ELLSS48 LOCCBZZ = ESCCBZZ * ELLSS48 LOICBZZ = ESICBZZ * ELLSS48 LOACBZZ = ESACBZZ * ELLSS48 LOTCBZZ = ESTCBZZ * ELLSS48

Alaska, Hawaii, and the contiguous 48-State subtotal are recalculated to their original estimates. The end-use losses for Alaska and Hawaii are created in proportion to each sector's share of the State's total electricity sales:

LOTCBAK = TEEIBAK – ESTCBAK LOTCBHI = TEEIBHI – ESTCBHI LOTCB48 = LOTCBUS – (LOTCBAK + LOTCBHI) LORCBAK(HI) = (ESRCBAK(HI) / ESTCBAK(HI)) *
LOTCBAK(HI)

LOCCBAK(HI) = (ESCCBAK(HI) / ESTCBAK(HI)) *
LOTCBAK(HI)

LOICBAK(HI) = (ESICBAK(HI) / ESTCBAK(HI)) *
LOTCBAK(HI)

LOACBAK(HI) = (ESACBAK(HI) / ESTCBAK(HI)) *
LOTCBAK(HI)

Losses for the United States, including Alaska and Hawaii, are the sums of all the States' losses.

Net Interstate Flow of Electricity

British Thermal Units (Btu)

An estimate of the net interstate flow of electricity is calculated as the difference between the total electricity sales and attributed losses and the total energy consumption by the electric power sector within each State. The estimated net interstate flow of electricity (ELISB) for each State and the United States is calculated:

ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZELISBUS = $\Sigma ELISBZZ$

Positive net interstate flow for a State means that the amount consumed within the State (including attributed losses) is greater than the amount of energy consumed by the electric power sector in the State. That is, the State is using more electricity than it generates and, therefore, is a net buyer from other States.

A negative number indicates that the State's consumption by the electric power sector is greater than the requirements for electricity within its own borders, and, therefore, it is a net seller of electricity to other States.

Section 7. Total Energy

Total Energy

The preceding sections of this documentation describe how State end-use consumption estimates are made by individual energy source in the State Energy Data System (SEDS). This section describes how all energy sources are added in Btu to create end-use sector and total energy consumption estimates.

In general, total energy consumed by the four end-use sectors by State and the U.S. total include the following energy sources:

- coal (CL)
- natural gas (NG)
- all petroleum products (PA), which includes fuel ethanol blended into motor gasoline for 1993 forward
- fuel ethanol (EN) for 1960 through 1992
- electricity from conventional hydroelectric power (HY)
- wood (WD)
- waste (WS), which includes non-biomass waste prior to 2001
- geothermal direct use energy and geothermal heat pumps (GE)
- solar thermal direct use energy, and photovoltaic electricity net generation (SO)
- electricity sales (ES)

In addition, electrical system energy losses (LO) are included in the total energy consumption of the end-use sectors.

To prevent double counting of supplemental gaseous fuels (SF), which are accounted for in the fossil fuels from which they are derived, and in natural gas, they are removed from total energy for the residential, commercial, and industrial sectors.

Specific details for each of the end-use sectors are described below.

Residential Sector

Solar thermal direct use energy, and photovoltaic electricity net generation for the residential and commercial sectors combined (SOHCB) is included in the residential sector only because the individual sector use cannot be identified:

```
TERCB = CLRCB + NGRCB + PARCB + WDRCB + GERCB + SOHCB + ESRCB + LORCB - SFRCB
```

Commercial Sector

From 1960 through 1992:

```
TECCB = CLCCB + NGCCB + PACCB + ENCCB + HYCCB + WDCCB + WSCCB + GECCB + ESCCB + LOCCB - SFCCB
```

From 1993 forward:

```
TECCB = CLCCB + NGCCB + PACCB + HYCCB + WDCCB + WSCCB + GECCB + ESCCB + LOCCB - SFCCB
```

Industrial Sector

For the industrial sector, the U.S. calculations in SEDS are slightly different from the State calculations. The industrial sector includes net imports of coal coke (CCNIBUS) in the U.S. total but not in the individual State estimates ("ZZ" in the variable name represents the two-letter State code that differs for each State) because no reliable means of allocating the U.S. amount to the States has been developed. In addition, the industrial sector

includes energy losses and co-products from the production of fuel ethanol (ENLCB) in the U.S. total. Individual State estimates are not available because reliable State allocators have not been identified.

From 1960 through 1992:

TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS +
ENICBUS + HYICBUS + WDICBUS + WSICBUS +
GEICBUS + ESICBUS + LOICBUS + ENLCBUS SFINBUS

TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + ENICBZZ + HYICBZZ + WDICBZZ + WSICBZZ + GEICBZZ + ESICBZZ + LOICBZZ - SFINBZZ

From 1993 forward:

TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + HYICBUS + WDICBUS + WSICBUS + GEICBUS + ESICBUS + LOICBUS + ENLCBUS - SFINBUS

TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYICBZZ + WDICBZZ + WSICBZZ + GEICBZZ + ESICBZZ + LOICBZZ - SFINBZZ

Transportation Sector

From 1960 through 1992:

TEACB = CLACB + NGACB + PAACB + ENACB + ESACB + LOACB

From 1993 forward:

TEACB = CLACB + NGACB + PAACB + ESACB + LOACB

Total Energy Consumption

Total energy consumption by State is defined in SEDS as the sum of all energy sources consumed by the energy-use sectors. This includes all primary energy sources consumed by the four end-use sectors and the electric power sector, as well as net interstate sales of electricity (ELISBZZ) and net imports of electricity (ELNIBZZ).

The U.S. total energy calculations in SEDS are slightly different from the State calculations. They do not include net interstate flow of electricity (which is zero for the U.S. total), and include net imports of coal coke.

From 1960 through 1992:

TETCBUS = CLTCBUS + CCNIBUS + NGTCBUS + PATCBUS +
ENTCBUS + NUETBUS + HYTCBUS + WDTCBUS +
WSTCBUS + GETCBUS + SOTCBUS + WYTCBUS +
ELNIBUS + ENLCBUS - SFTCBUS

TETCBZZ = CLTCBZZ + NGTCBZZ + PATCBZZ + ENTCBZZ +
NUETBZZ + HYTCBZZ + WDTCBZZ + WSTCBZZ +
GETCBZZ + SOTCBZZ + WYTCBZZ + ELNIBZZ +
ELISBZZ - SFTCBZZ

From 1993 forward:

TETCBUS = CLTCBUS + CCNIBUS + NGTCBUS + PATCBUS +
NUETBUS + HYTCBUS + WDTCBUS + WSTCBUS +
GETCBUS + SOTCBUS + WYTCBUS + ELNIBUS +
ENLCBUS - SFTCBUS

TETCBZZ = CLTCBZZ + NGTCBZZ + PATCBZZ + NUETBZZ +
HYTCBZZ + WDTCBZZ + WSTCBZZ + GETCBZZ +
SOTCBZZ + WYTCBZZ + ELNIBZZ + ELISBZZ SFTCBZZ

As a cross-check that is not used in the report tables, total energy consumed is also calculated in SEDS as the sum of the consumption by the four end-use sectors for each State and U.S. total:

TESSB = TERCB + TECCB + TEICB + TEACB

The slight discrepancies between TESSB and TETCB are caused by independent rounding of the components.

Additional Calculations

A few data series are combined for display in the "Other" column in tables titled "Energy Consumption Estimates by Source." They include net electricity imports, fuel ethanol estimates not covered in the motor gasoline data (before 1993), losses and co-products from the production of fuel ethanol (U.S. only), and an adjustment to remove double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total. The variables are calculated for each State and the United States in billion Btu as follows:

From 1960 through 1992:

OTTCBUS = ELNIBUS + ENTCBUS + ENLCBUS - SFTCBUS

OTTCBZZ = ELNIBZZ + ENTCBZZ - SFTCBZZ

From 1993 forward:

OTTCBUS = ELNIBUS + ENLCBUS - SFTCBUS

OTTCBZZ = ELNIBZZ - SFTCBZZ

Total Net Energy

A set of totals is calculated to estimate consumption in the four major end use sectors excluding each sector's share of all electrical system energy losses that are incurred in the generation, transmission, and distribution of electricity. This series is total net energy consumed and is represented by "TN."

Total net energy consumed by the residential, commercial, industrial, and transportation sectors are calculated:

TNRCB = TERCB - LORCB TNICB = TEICB - LOICB TNCCB = TECCB - LOCCB TNACB = TEACB - LOACB

Total Energy Consumed per Capita

The energy consumed per person residing in each State and in the United States is estimated by dividing the total energy series ("TE") by the resident population as published by the U.S. Department of Commerce, Bureau of the Census. The U.S. total population may be revised more frequently than the State population estimates, so the sum of the available States' population data may not equal the U.S. totals. Therefore, the U.S. total population is input into SEDS instead of being calculated as the sum of the States' values. The variable names for the series are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

TPOPPZZ = resident population of each State; and TPOPPUS = resident population of the United States.

Estimated energy consumption per capita for each State and the United States, in million Btu, is represented by "TETPB" and is calculated:

TETPB = TETCB / TPOPP

The residential, commercial, industrial, and transportation sectors' energy consumption per capita are estimated:

TERPB = TERCB / TPOPP TECPB = TECCB / TPOPP TEIPB = TEICB / TPOPP TEAPB = TEACB / TPOPP

Data Sources

TPOPPUS — Resident population of the United States. July 1 estimates for all years.

• 1960 through 1989: U.S. Department of Commerce, Bureau of the Census http://www.census.gov/popest/archives/1990s/popelockest.txt.

- 1990 through 1999: U.S. Department of Commerce, Bureau of the Census, Internet Release http://www.census.gov/popest/archives/2000s/vintage_2001/CO-EST2001-12/.
- 2000 forward: http://www.census.gov/popest/states/NST-ann-est.html.

TPOPPZZ — Resident population by State. July 1 estimates for all years.

- 1960 and 1970: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States, 1980, Section 1 Population, "No. 10. Resident Population--States: 1950 to 1979".*
- 1980: U.S. Department of Commerce, Bureau of the Census, http://www.census.gov/popest/archives/1980s/s5yr8090.txt.
- 1960 through 1989: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, "Population Estimates and Projections," Series P-25. Specific publication numbers and table numbers:
 - 1961 through 1969: Number 460, Table 1.
 - 1971 through 1979: Number 957, Table 4.
 - 1981 through 1989: Number 1058, Table 3.
- 1990 through 1999: U.S. Department of Commerce, Bureau of the Census, Internet Release http://www.census.gov/popest/archives/2000s/vintage 2001/CO-EST2001-12/index.html.
- 2000 forward: http://www.census.gov/popest/states/NST-ann-est.html.

Total Energy Consumed per Real Dollar of Gross Domestic Product

Total energy consumed per chained (2000) dollar of output by State and the United States is estimated by dividing the total energy series ("TE") by real gross domestic product (GDP) as published by the U.S. Department of Commerce, Bureau of Economic Analysis, beginning in 1977. The U.S real GDP is extracted from the same data source as the State data. This series does not match the national account GDP series. For details, see BEA Regional Economic Accounts: Methodologies, http://www.bea.gov/regional/methods.cfm.

For 1977 through 1989, BEA does not provide the real GDP by State estimates. However, BEA's quantity indexes for real GDP by State (2000=100.000) are used to calculate real GDP from 1977 to 1989. For 1990 through 1996, BEA reports real GDP by State based on the Standard Industrial Classification (SIC). For 1997 forward, BEA reports real GDP by State based on the North American Industry Classification System (NAICS). Given this discontinuity in the GDP by States series at 1997, users of these data are strongly cautioned against appending the two data series in an attempt to construct a single time series of GDP by State estimates.

The variable names for the series are ("ZZ" in the variable name represents the two-letter State code that differs for each State):

GDPRXUS = real gross domestic product of the United States in million chained (2000) dollars.; and

GDPRXZZ = real gross domestic product by State in million chained (2000) dollars.

Estimated energy consumption per real chained (2000) dollar for each State and the United States, in thousand Btu per chained (2000) dollar, is represented by "TETGR" and is calculated:

TETGR = TETCB / GDPRX

Data Sources

GDPRXUS — Real gross domestic product of the United States in million chained (2000) dollars.

- 1977 through 1996: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm?series=SIC.
- 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=NAICS.

GDPRXZZ — Real gross domestic product by State in million chained (2000) dollars.

- 11977 through 1996: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm?series=SIC.
- 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=NAICS.

Appendix A

State Energy Data System Variables

This is an alphabetical listing of all the variable names used in the State Energy Data System (SEDS). Provided for each variable on the system are: a brief description of the variable; units of the variable as found in SEDS; and the formulas used in SEDS to create the variable. If a variable is not one created by SEDS but is entered into the system, it is described as an independent variable. Formulas are provided for the State calculations ("ZZ" in the variable name would be replaced by the two-letter code for each State) and for the U.S. calculation (wherever appropriate).

Variables in SEDS have seven-letter names that consist of the following components:

Character Positions:	1 and 2	3 and 4	5	6 and 7
Identify:	Type of energy	Energy activity or consumption end-use sector	Type of data	Geographic area

Characters 1 through 4 are explained in the description of each variable.

Character 5 is always one of the following:

B = Data in British thermal units (Btu)

K = Factor for converting data from physical units to Btu

M = Data in alternative physical units
 P = Data in standardized physical units
 S = Share or ratio expressed as a fraction

V = Value added in manufacture.

Characters 6 and 7 are two-letter U.S. Postal Service codes for the 50 States and the District of Columbia (represented by "ZZ" in the following variable names) and the United States ("US"). In this system, the United States means the 50 States and the District of Columbia. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia. The variables used in those calculations are identified by "48" as characters 6 and 7 in the variable names.

A P	ABICB	Aviation gasoline blending components total consumed by the industrial sector.	Billion Btu	ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS
P E	ABICP	Aviation gasoline blending components total consumed by the industrial sector.	Thousand barrels	ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS
N D	ABTCB	Aviation gasoline blending components total consumed.	Billion Btu	ABTCBZZ = ABTCPZZ * 5.048 ABTCBUS = Σ ABTCBZZ
X	ABTCP	Aviation gasoline blending components total consumed.	Thousand barrels	ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS ABTCPUS is independent.
A	AICAP	Aluminum ingot production capacity.	Short tons	AICAPZZ is independent. AICAPUS = Σ AICAPZZ
	ARICB	Asphalt and road oil consumed by the industrial sector.	Billion Btu	ARICBZZ = ARICPZZ * 6.636 ARICBUS = Σ ARICBZZ
	ARICP	Asphalt and road oil consumed by the industrial sector.	Thousand barrels	ARICPZZ = ASICPZZ + RDICPZZ ARICPUS = Σ ARICPZZ
	ARTCB	Asphalt and road oil total consumed.	Billion Btu	ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS
	ARTCP	Asphalt and road oil total consumed.	Thousand barrels	$ARTCPZZ = ASTCPZZ + RDTCPZZ$ $ARTCPUS = \Sigma ARTCPZZ$
	ASICP	Asphalt consumed by the industrial sector.	Thousand barrels	ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS ASICPUS = Σ ASICPZZ
	ASINP	Asphalt sold to the industrial sector.	Short tons	ASINPZZ is independent. ASINPUS = Σ ASINPZZ
	ASTCP	Asphalt total consumed.	Thousand barrels	ASTCPZZ = ASICPZZ ASTCPUS is independent.
	AVACB	Aviation gasoline consumed by the transportation sector.	Billion Btu	AVACBZZ = AVACPZZ * 5.048 AVACBUS = Σ AVACBZZ
	AVACP	Aviation gasoline consumed by the transportation sector.	Thousand barrels	AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS AVACPUS = Σ AVACPZZ
	AVMIP	Aviation gasoline issued to the military.	Thousand barrels	AVMIPZZ is independent. AVMIPUS = Σ AVMIPZZ

AVNMM	Aviation gasoline sold to nonmilitary users.	Thousand gallons	AVNMMZZ is independent. $AVNMMUS = \Sigma AVNMMZZ$
AVNMP	Aviation gasoline sold to nonmilitary users.	Thousand barrels	AVNMPZZ = AVNMMZZ / 42 AVNMPUS = Σ AVNMPZZ
AVTCB	Aviation gasoline total consumed.	Billion Btu	$AVTCBZZ = AVACBZZ$ $AVTCBUS = \Sigma AVTCBZZ$
AVTCP	Aviation gasoline total consumed.	Thousand barrels	AVTCPZZ = AVACPZZ AVTCPUS is independent.
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	AVTTPZZ = AVNMPZZ + AVMIPZZ $AVTTPUS = \Sigma AVTTPZZ$
CCEXBUS	Coal coke exported from the United States.	Billion Btu	CCEXBUS = CCEXPUS * 24.80
CCEXPUS	Coal coke exported from the United States.	Thousand short tons	CCEXPUS is independent.
CCIMBUS	Coal coke imported into the United States.	Billion Btu	CCIMBUS = CCIMPUS * 24.80
CCIMPUS	Coal coke imported into the United States.	Thousand short tons	CCIMPUS is independent.
CCNIBUS	Coal coke net imports into the United States.	Billion Btu	CCNIBUS = CCIMBUS - CCEXBUS
CCNIPUS	Coal coke net imports into the United States.	Thousand short tons	CCNIPUS = CCIMPUS - CCEXPUS
CGVAV	Value added in the manufacture of corrugated and solid fiber boxes.	Million dollars	CGVAVZZ is independent. CGVAVUS = Σ CGVAVZZ
CLACB	Coal consumed by the transportation sector.	Billion Btu	CLACBZZ = CLACPZZ * CLACKZZ CLACBUS = Σ CLACBZZ
CLACK	Factor for converting coal consumed by the transportation sector from physical units to Btu.	Million Btu per short ton	CLACKZZ is independent. CLACKUS = CLACBUS / CLACPUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS CLACPUS is independent.
CLCCB	Coal consumed by the commercial sector.	Billion Btu	CLCCBZZ = CLCCPZZ * CLHCKZZ CLCCBUS = Σ CLCCBZZ
CLCCP	Coal consumed by the commercial sector.	Thousand short tons	CLCCP = CLHCPZZ - CLRCPZZ $CLCCPUS = \Sigma CLCCPZZ$

CLEIB	Coal consumed by the electric power sector.	Billion Btu	CLEIBZZ = CLEIPZZ * CLEIKZZ CLEIBUS = Σ CLEIBZZ
CLEIK	Factor for converting coal consumed by the electric power sector from physical units to Btu.	Million Btu per short ton	CLEIKZZ is independent. CLEIKUS = CLEIBUS / CLEIPUS
CLEIP	Coal consumed by the electric power sector.	Thousand short tons	CLEIPZZ is independent CLEIPUS = Σ CLEIPZZ
CLHCK	The factor for converting coal consumed by the residential and commercial sectors from physical units to Btu.	Million Btu per short ton	CLHCKZZ is independent. CLHCKUS = CLHCBUS / CLHCPUS
CLHCP	Coal consumed by the residential and commercial sectors.	Thousand short tons	CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLHCPUS is independent.
CLHDP	Coal distributed to the residential and commercial sectors.	Thousand short tons	CLHDPZZ is independent. CLHDPUS = Σ CLHDPZZ
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = CLKCBZZ + CLOCBZZ CLICBUS = Σ CLICBZZ
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = CLKCPZZ + CLOCPZZ CLICPUS = Σ CLICPZZ
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = CLKCPZZ * CLKCKZZ $CLKCBUS = \Sigma CLKCBZZ$
CLKCK	The factor for converting coal consumed at at coke plants from physical units to Btu.	Million Btu per short ton	CLKCKZZ is independent. CLKCKUS = CLKCBUS / CLKCPUS
CLKCP	Coal consumed by coke plants (coking coal).	Thousand short tons	CLKCPZZ = (CLKDPZZ / CLKDPUS) * CLKCPUS CLKCPUS is independent.
CLKDP	Coal distributed to coke plants (coking coal).	Thousand short tons	CLKDPZZ is independent. CLKDPUS = Σ CLKDPZZ
CLOCB	Coal consumed by other industrial users.	Billion Btu	CLOCBZZ = CLOCPZZ * CLOCKZZ CLOCBUS = Σ CLOCBZZ
CLOCK	The factor for converting coal consumed by other industrial users from physical units to Btu.	Million Btu per short ton	CLOCKZZ is independent. CLOCKUS = CLOCBUS / CLOCPUS
CLOCP	Coal consumed by other industrial users.	Thousand short tons	CLOCPZZ = (CLODPZZ / CLODPUS) * CLOCPUS CLOCPUS is independent.

CLODP	Coal distributed to other industrial users.	Thousand short tons	CLODPZZ is independent. CLODPUS = Σ CLODPZZ
CLRCB	Coal consumed by the residential sector.	Billion Btu	CLRCBZZ = CLRCPZZ * CLHCKZZ CLRCBUS = Σ CLRCBZZ
CLRCP	Coal consumed by the residential sector.	Thousand short tons	CLRCPZZ = CLHCPZZ * CLRCSUS CLRCPUS = Σ CLRCPZZ
CLRCSUS	The share of residential and commercial coal consumed by the residential sector.	Percent	CLRCSUS is independent.
CLTCB	Coal total consumed.	Billion Btu	CLTCBZZ = CLRCBZZ + CLCCBZZ + CLICBZZ + CLACBZZ + CLEIBZZ CLTCBUS = Σ CLTCBZZ
CLTCP	Coal total consumed.	Thousand short tons	CLTCPZZ = CLRCPZZ + CLCCPZZ + CLICPZZ + CLACPZZ + CLEIPZZ CLTCPUS = Σ CLTCPZZ
COCAP	Crude oil operating capacity at refineries.	Barrels per calendar day	COCAPZZ is independent. COCAPUS = Σ COCAPZZ
COICB	Crude oil consumed by the industrial sector.	Billion Btu	COICBZZ = COTCBZZ COICBUS = COTCBUS
COICP	Crude oil consumed by the industrial sector.	Thousand barrels	COICPZZ = COTCPZZ COICPUS = COTCPUS
СОТСВ	Crude oil consumed in petroleum industry operations.	Billion Btu	COTCBZZ = COTCPZZ * 5.800 COTCBUS = Σ COTCBZZ
СОТСР	Crude oil consumed in petroleum industry operations.	Thousand barrels	COTCPZZ is independent. $COTCPUS = \Sigma COTCPZZ$
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960 through 1979: Barrels per calendar day 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = Σ CTCAPZZ
DFACB	Distillate fuel oil consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * 5.825 DFACBUS = Σ DFACBZZ
DFACP	Distillate fuel oil consumed by the transportation sector.	Thousand barrels	$ \begin{aligned} DFACPZZ &= (DFTRPZZ \ / \ DFNDPZZ) * DFNCPZZ \\ DFACPUS &= \Sigma DFACPZZ \end{aligned} $

A P	DFBKP	Distillate fuel oil sales for vessel bunkering use, excluding that sold to the Armed Forces.	Thousand barrels	DFBKPZZ is independent. DFBKPUS = Σ DFBKPZZ
P E N	DFCCB	Distillate fuel oil consumed by the commercial sector.	Billion Btu	DFCCBZZ = DFCCPZZ * 5.825 DFCCBUS = Σ DFCCBZZ
N D I	DFCCP	Distillate fuel oil consumed by the commercial sector.	Thousand barrels	DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ DFCCPUS = Σ DFCCPZZ
X	DFCMP	Distillate fuel oil sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = Σ DFCMPZZ
Α	DFEIB	Distillate fuel oil consumed by the electric power sector.	Billion Btu	DFEIBZZ = DFEIPZZ * 5.825 DFEIBUS = Σ DFEIBZZ
	DFEIP	Distillate fuel oil (excluding kerosene-type jet fuel) consumed by the electric power sector.	Thousand barrels	DFEIPZZ = DKEIPZZ $-$ JKEUPZZ DFEIPUS = Σ DFEIPZZ
	DFIBP	Distillate fuel oil sales for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. DFIBPUS = Σ DFIBPZZ
	DFICB	Distillate fuel oil consumed by the industrial sector.	Billion Btu	DFICBZZ = DFICPZZ * 5.825 DFICBUS = Σ DFICBZZ
	DFICP	Distillate fuel oil consumed by the industrial sector.	Thousand barrels	$ \begin{array}{l} {\rm DFICPZZ} = ({\rm DFINPZZ} \; / \; {\rm DFNDPZZ}) \; * \; {\rm DFNCPZZ} \\ {\rm DFICPUS} = \; \Sigma {\rm DFICPZZ} \\ \end{array} $
	DFINP	Distillate fuel oil sales to the industrial sector.	Thousand barrels	DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ DFINPUS = ΣDFINPZZ
	DFMIP	Distillate fuel oil sales to the Armed Forces, regardless of use.	Thousand barrels	DFMIPZZ is independent. DFMIPUS = Σ DFMIPZZ
	DFNCP	Distillate fuel oil consumption by all sectors other than the electric power sector.	Thousand barrels	DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS DFNCPUS = DFTCPUS - DFEIPUS
	DFNDP	Distillate fuel oil sales to all sectors other than the electric power sector.	Thousand barrels	$\begin{array}{l} \text{DFNDPZZ} = \text{DFRSPZZ} + \text{DFCMPZZ} + \\ \text{DFINPZZ} + \text{DFTRPZZ} \\ \text{DFNDPUS} = \Sigma \text{DFNDPZZ} \end{array}$
	DFOCP	Distillate fuel oil sales for use by oil companies.	Thousand barrels	DFOCPZZ is independent. DFOCPUS = Σ DFOCPZZ

DFOFP	Distillate fuel oil sales as diesel fuel for off-highway use.	Thousand barrels	DFOFPZZ is independent. DFOFPUS = Σ DFOFPZZ
DFONP	Distillate fuel oil sales as diesel fuel for on-highway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = Σ DFONPZZ
DFOTP	Distillate fuel oil sales for all other uses not identified in other sales categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = Σ DFOTPZZ
DFRCB	Distillate fuel oil consumed by the residential sector.	Billion Btu	DFRCBZZ = DFRCPZZ * 5.825 DFRCBUS = Σ DFRCBZZ
DFRCP	Distillate fuel oil consumed by the residential sector.	Thousand barrels	$ \begin{aligned} $
DFRRP	Distillate fuel oil sales for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = Σ DFRRPZZ
DFRSP	Distillate fuel oil sales to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = Σ DFRSPZZ
DFTCB	Distillate fuel oil total consumed.	Billion Btu	$\begin{array}{l} \text{DFTCBZZ} = \text{DFRCBZZ} + \text{DFCCBZZ} + \\ $
DFTCP	Distillate fuel oil total consumed.	Thousand barrels	DFTCPZZ = DFNCPZZ + DFEIPZZ DFTCPUS is independent.
DFTRP	Distillate fuel oil sales to the transportation sector.	Thousand barrels	$\begin{array}{l} \text{DFTRPZZ} = \text{DFBKPZZ} + \text{DFMIPZZ} + \\ \text{DFRRPZZ} + \text{DFONPZZ} \\ \text{DFTRPUS} = \Sigma \text{DFTRPZZ} \end{array}$
DKEIB	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Billion Btu	DKEIBZZ = DFEIBZZ + JKEUBZZ DKEIBUS = Σ DKEIBZZ
DKEIP	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Thousand barrels	DKEIPZZ is independent. $DKEIPUS = \Sigma DKEIPZZ$
ELEXB	Electricity exported from the United States.	Billion Btu	ELEXBZZ = ELEXPZZ * 3.412 ELEXBUS = Σ ELEXBZZ
ELEXP	Electricity exported from the United States.	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = Σ ELEXPZZ

ELIMB	Electricity imported into the United States	Billion Btu	ELIMBZZ = ELIMPZZ * 3.412 ELIMBUS = Σ ELIMBZZ
ELIMP	Electricity imported into the United States	Million kilowatthours	ELIMPZZ is independent. ELIMPUS = Σ ELIMPZZ
ELISB	Net interstate flow of electricity. (Negative indicates flow out of State; positive indicates flow into State.)	Billion Btu	ELISBZZ = (ESTCBZZ + LOTCBZZ) – TEEIBZZ ELISBUS = Σ ELISBZZ
ELLSS48	The ratio of electrical system energy losses to electricity sold in the contiguous 48 States and the District of Columbia.	Fraction	ELLSS48 = LOTCB48 / ESTCB48
ELNIB	Net imports of electricity into the United States.	Billion Btu	ELNIBZZ = ELIMBZZ - ELEXBZZ ELNIBUS = Σ ELNIBZZ
ELNIP	Net imports of electricity into the United States.	Million kilowatthours	ELNIPZZ = ELIMPZZ - ELEXPZZ ELNIPUS = Σ ELNIPZZ
ENACB	Fuel ethanol consumed by the transportation sector.	Billion Btu	ENACBZZ = ENACPZZ * 3.539 ENACBUS = Σ ENACBZZ
ENACP	Fuel ethanol consumed by the transportation sector.	Thousand barrels	ENACPZZ = (MGACPZZ / MGTCPZZ) * ENTCPZZ ENACPUS = Σ ENACPZZ
ENCCB	Fuel ethanol consumed by the commercial sector.	Billion Btu	ENCCBZZ = (ENCCPZZ * 3.539) ENCCBUS = Σ ENCCBZZ
ENCCP	Fuel ethanol consumed by the commercial sector.	Thousand barrels	ENCCPZZ = (MGCCPZZ / MGTCPZZ) * ENTCPZZ ENCCPUS = Σ ENCCPZZ
ENICB	Fuel ethanol consumed by the industrial sector.	Billion Btu	ENICBZZ = (ENICPZZ * 3.539) ENICBUS = Σ ENICBZZ
ENICP	Fuel ethanol consumed by the industrial sector.	Thousand barrels	ENICPZZ = (MGICPZZ / MGTCPZZ) * ENTCPZZ ENICPUS = Σ ENICPZZ
ENLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	ENLCBUS is independent.
ENTCB	Fuel ethanol total consumed.	Billion Btu	ENTCBZZ = ENACBZZ + ENCCBZZ + ENICBZZ ENTCBUS = Σ ENTCBZZ
ENTCP	Fuel ethanol total consumed.	Thousand gallons	ENTCPZZ = (ENTRPZZ / ENTRPUS) * ENTCPUS ENTCPUS is independent.

ENTRP	Fuel ethanol blended into motor gasoline.	Thousand gallons	ENTRPZZ is independent. ENTRPUS = Σ ENTRPZZ
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	Billion Btu	ESACBZZ = ESACPZZ * 3.412 ESACBUS = Σ ESACBZZ
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	Million kilowatthours	$ESACPZZ = ESTRPZZ$ $ESACPUS = \Sigma ESACPZZ$
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	Billion Btu	ESCCBZZ = ESCCPZZ * 3.412 ESCCBUS = Σ ESCCBZZ
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	Million kilowatthours	$\begin{aligned} & \text{ESCCPZZ} = \text{ESCMPZZ} + \text{ESOTPZZ} - \text{ESACPZZ} \\ & \text{ESCCPUS} = \Sigma \text{ESCCPZZ} \end{aligned}$
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. ESCMPUS = Σ ESCMPZZ
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	Billion Btu	ESICBZZ = ESICPZZ * 3.412 ESICBUS = Σ ESICBZZ
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	Million kilowatthours	ESICPZZ is independent. ESICPUS = Σ ESICPZZ
ESOTP	Electricity sold to the "Other" sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = Σ ESOTPZZ
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = Σ ESRCBZZ
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = Σ ESRCPZZ
ESTCB	Electricity total consumed (i.e., sold).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = Σ ESTCBZZ ESTCB48 = ESTCBUS - (ESTCBAK + ESTCBHI)
ESTCP	Electricity total consumed (i.e., sold).	Million kilowatthours	$\begin{aligned} \text{ESTCPZZ} &= \text{ESRCPZZ} + \text{ESCCPZZ} + \\ & \text{ESICPZZ} + \text{ESACPZZ} \\ \text{ESTCPUS} &= \Sigma \text{ESTCPZZ} \end{aligned}$
ESTRP	Electricity consumed by transit systems.	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = Σ ESTRPZZ

٨	ESTRSUS	The share of electricity sold to the "Other"	Fraction	ESTRSUS = ESACPUS / ESOTPUS
A P	ESTRSOS	sector (ESOTP) that is used for transportation.	Praction	ESTROUS - ESACTUS / ESUTTUS
P E	FFETKUS	Fossil-fueled steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFETKUS is independent.
N D	FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
X	FNICP	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
Α	FNTCB	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Billion Btu	FNTCBZZ = FNTCPZZ * 5.248 FNTCBUS = Σ FNTCBZZ
	FNTCP	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Thousand barrels	FNTCPZZ = (OCVAVZZ / OCVAVUS) * FNTCPUS FNTCPUS is independent.
	FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS
	FOICP	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
	FOTCB	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Billion Btu	FOTCBZZ = FOTCPZZ * 5.825 FOTCBUS = Σ FOTCBZZ
	FOTCP	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Thousand barrels	FOTCPZZ = (OCVAVZZ / OCVAVUS) * FOTCPUS FOTCPUS is independent.
	FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
	FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS
	FSTCB	Petrochemical feedstocks, still gas, total consumed.	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = Σ FSTCBZZ
	FSTCP	Petrochemical feedstocks, still gas, total consumed.	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
	G1TCB	Electricity produced from geothermal, solar thermal, photovoltaic, and wind energy sources.	Billion Btu	G1TCBZZ = GETCBZZ + SOTCBZZ + WYTCBZZ G1TCBUS = Σ G1TCBZZ

GDPRX	Real gross domestic product.	Billion chained (2000) dollars	GDPRXZZ is independent. GDPRXUS is independent.
GECCB	Direct use of geothermal energy and heat pumps in the commercial sector.	Billion Btu	GECCBZZ is independent. $GECCBUS = \Sigma GECCBZZ$
GEEGB	Electricity produced from geothermal energy by the electric power sector.	Billion Btu	GEEGBZZ = GEEGPZZ * GEETKUS GEEGBUS = Σ GEEGBZZ
GEEGP	Electricity produced from geothermal energy by the electric power sector.	Million kilowatthours	GEEGPZZ is independent. $GEEGPUS = \Sigma GEEGPZZ$
GEETKUS	Factor for converting electricity produced from geothermal energy from physical units to Btu.	Thousand Btu per kilowatthour	GEETKUS is independent.
GEICB	Direct use of geothermal energy and heat pumps in the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = ΣGEICBZZ
GERCB	Direct use of geothermal energy and heat pumps in the residential sector.	Billion Btu	GERCBZZ is independent. $GERCBUS = \Sigma GERCBZZ$
GETCB	Geothermal total energy consumed.	Billion Btu	GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ GETCBUS = Σ GETCBZZ
HVC5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVC5PZZ is independent. HVC5PUS = Σ HVC5PZZ
HVEGP	Electricity produced from conventional hydropower by the electric power sector.	Million kilowatthours	HVEGPZZ is independent. HVEGPUS = Σ HVEGPZZ
HVI5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVI5PZZ is independent. HVI5PUS = Σ HVI5PZZ
НҮССВ	Electricity produced from conventional hydropower in the commercial sector.	Billion Btu	HYCCBZZ = HYCCPZZ * FFETKUS HYCCBUS = Σ HYCCBZZ
НҮССР	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HYCCPZZ = HVC5PZZ $HYCCPUS = \Sigma HYCCPZZ$
HYEGB	Electricity produced from all types of hydropower by the electric power sector.	Billion Btu	HYEGBZZ = HYEGPZZ * FFETKUS HYEGBUS = Σ HYEGBZZ
HYEGP	Electricity produced from all types of hydropower by the electric power sector.	Million kilowatthours	$\begin{aligned} & \text{HYEGPZZ} = \text{HVEGPZZ} \\ & \text{HYEGPUS} = \Sigma \\ & \text{HYEGPZZ} \end{aligned}$

HYICB	701		
111102	Electricity produced from conventional hydropower in the industrial sector.	Billion Btu	HYICBZZ = HYICPZZ * FFETKUS HYICBUS = Σ HYICBZZ
HYICP	Electricity produced from conventional hydropower in the industrial sector.	Million kilowatthours	HYICPZZ = HVI5PZZ $HYICPUS = \Sigma HYICPZZ$
НҮТСВ	Electricity produced from hydropower; total production.	Billion Btu	$\begin{aligned} & \text{HYTCBZZ} = \text{HYCCBZZ} + \text{HYEGBZZ} + \text{HYICBZZ} \\ & \text{HYTCBUS} = \Sigma \text{HYTCBZZ} \end{aligned}$
НҮТСР	Electricity produced from hydropower; total production.	Million kilowatthours	$\begin{aligned} & \text{HYTCPZZ} = \text{HYCCPZZ} + \text{HYEGPZZ} + \text{HYICPZZ} \\ & \text{HYTCPUS} = \Sigma \text{HYTCPZZ} \end{aligned}$
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	JFACBZZ = JKACBZZ + JNACBZZ JFACBUS = Σ JFACBZZ
JFACP	Jet fuel consumed by the transportation sector.	Thousand barrels	JFACPZZ = JKACPZZ + JNACPZZ JFACPUS = Σ JFACPZZ
JFEUB	Jet fuel consumed by electric power sector.	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by electric power sector.	Thousand barrels	JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS
JFTCB	Jet fuel total consumed.	Billion Btu	JFTCBZZ = JFACBZZ + JFEUBZZ JFTCBUS = Σ JFTCBZZ
JFTCP	Jet fuel total consumed.	Thousand barrels	JFTCPZZ = JFACPZZ + JFEUPZZ JFTCPUS = Σ JFTCPZZ
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	Billion Btu	JKACBZZ = JKACPZZ * 5.670 JKACBUS = Σ JKACBZZ
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	Thousand barrels	JKACPZZ = (JKTTPZZ / JKTTPUS) * JKACPUS JKACPUS = JKTCPUS – JKEUPUS
JKEUB	Kerosene-type jet fuel consumed by electric power sector.	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = Σ JKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by electric power sector.	Thousand barrels	JKEUPZZ is independent. JKEUPUS = Σ JKEUPZZ
JKTCB	Kerosene-type jet fuel total consumed.	Billion Btu	JKTCBZZ = JKTCPZZ * 5.670 JKTCBUS = Σ JKTCBZZ
	HYICP HYTCB HYTCP JFACB JFACP JFEUB JFEUP JFTCB JKACB JKACP JKACB JKACP JKACP	hydropower in the industrial sector. HYICP Electricity produced from conventional hydropower in the industrial sector. HYTCB Electricity produced from hydropower; total production. HYTCP Electricity produced from hydropower; total production. JFACB Jet fuel consumed by the transportation sector. JFACP Jet fuel consumed by electric power sector. JFEUB Jet fuel consumed by electric power sector. JFEUP Jet fuel total consumed. JFTCB Jet fuel total consumed. JFTCP Jet fuel total consumed. JKACB Kerosene-type jet fuel consumed by the transportation sector. JKACP Kerosene-type jet fuel consumed by the transportation sector. JKEUB Kerosene-type jet fuel consumed by electric power sector. JKEUB Kerosene-type jet fuel consumed by electric power sector.	hydropower in the industrial sector. HYICP Electricity produced from conventional hydropower in the industrial sector. HYTCB Electricity produced from hydropower; Billion Btu Electricity produced from hydropower; Million kilowatthours total production. HYTCP Electricity produced from hydropower; Million kilowatthours total production. JFACB Jet fuel consumed by the transportation sector. Billion Btu JFACP Jet fuel consumed by electric power sector. Billion Btu JFEUB Jet fuel consumed by electric power sector. Billion Btu JFEUP Jet fuel consumed by electric power sector. Thousand barrels JFTCB Jet fuel total consumed. Billion Btu JFTCP Jet fuel total consumed. Billion Btu JFTCP Jet fuel total consumed by the transportation sector. JKACB Kerosene-type jet fuel consumed by the transportation sector. JKACP Kerosene-type jet fuel consumed by the transportation sector. JKEUB Kerosene-type jet fuel consumed by electric power sector. Billion Btu Thousand barrels Thousand barrels Thousand barrels Thousand barrels Thousand barrels Thousand barrels

JKTCP	Kerosene-type jet fuel total consumed.	Thousand barrels	JKTCPZZ = JKACPZZ + JKEUPZZ JKTCPUS is independent.
JKTTP	Kerosene-type jet fuel total sold.	Thousand gallons	JKTTPZZ is independent. JKTTPUS = Σ JKTTPZZ
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	Billion Btu	JNACBZZ = JNTCBZZ JNACBUS = JNTCBUS
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	Thousand barrels	JNACPZZ = JNTCPZZ JNACPUS = JNTCPUS
JNMIP	Naphtha-type jet fuel issued to the military.	Thousand barrels	JNMIPZZ is independent. JNMIPUS = Σ JNMIPZZ
JNTCB	Naphtha-type jet fuel total consumed.	Billion Btu	JNTCBZZ = JNTCPZZ * 5.355 JNTCBUS = Σ JNTCBZZ
JNTCP	Naphtha-type jet fuel total consumed.	Thousand barrels	JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS JNTCPUS is independent.
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	KSCCBZZ = KSCCPZZ * 5.670 $KSCCBUS = \Sigma KSCCBZZ$
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	$\begin{split} & \text{KSCCPZZ} = (\text{KSCMPZZ} \ / \ \text{KSTTPZZ}) * \text{KSTCPZZ} \\ & \text{KSCCPUS} = \Sigma \text{KSCCPZZ} \end{split}$
KSCMP	Kerosene sold to the commercial sector.	Thousand barrels	KSCMPZZ is independent. KSCMPUS = Σ KSCMPZZ
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	KSICBZZ = KSICPZZ * 5.670 KSICBUS = Σ KSICBZZ
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	$\begin{aligned} & \text{KSICPZZ} = (\text{KSINPZZ} \ / \ \text{KSTTPZZ}) * \text{KSTCPZZ} \\ & \text{KSICPUS} = \Sigma \text{KSICPZZ} \end{aligned}$
KSIHP	Kerosene sold for industrial heating.	Thousand barrels	KSIHPZZ is independent. KSIHPUS = Σ KSIHPZZ
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	KSINPZZ = KSOTPZZ + KSIHPZZ $KSINPUS = \Sigma KSINPZZ$
KSOTP	Kerosene sold for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. KSOTPUS = Σ KSOTPZZ

A P	KSRCB	Kerosene consumed by the residential sector.	Billion Btu	$KSRCBZZ = KSRCPZZ * 5.670$ $KSRCBUS = \Sigma KSRCBZZ$
P E	KSRCP	Kerosene consumed by the residential sector.	Thousand barrels	$\begin{aligned} & \text{KSRCPZZ} = (\text{KSRSPZZ} \ / \ \text{KSTTPZZ}) * \text{KSTCPZZ} \\ & \text{KSRCPUS} = \Sigma \text{KSRCPZZ} \end{aligned}$
N D I	KSRSP	Kerosene sold to the residential sector.	Thousand barrels	KSRSPZZ is independent. KSRSPUS = Σ KSRSPZZ
X	KSTCB	Kerosene total consumed.	Billion Btu	$\begin{aligned} & \text{KSTCBZZ} = \text{KSRCBZZ} + \text{KSICBZZ} + \text{KSCCBZZ} \\ & \text{KSTCBUS} = \Sigma \text{KSTCBZZ} \end{aligned}$
Α	KSTCP	Kerosene total consumed.	Thousand barrels	KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS KSTCPUS is independent.
	KSTTP	Kerosene total sold.	Thousand barrels	$\begin{aligned} & \text{KSTTPZZ} = \text{KSRSPZZ} + \text{KSCMPZZ} + \text{KSINPZZ} \\ & \text{KSTTPUS} = \Sigma \text{KSTTPZZ} \end{aligned}$
	LGACB	LPG consumed by the transportation sector.	Billion Btu	$LGACBZZ = LGACPZZ * LGTCKUS$ $LGACBUS = \Sigma LGACBZZ$
	LGACP	LPG consumed by the transportation sector.	Thousand barrels	LGACPZZ = LGCBPZZ * LGTRSUS LGACPUS = Σ LGACPZZ
	LGCBM	LPG sales for internal combustion engine use.	Thousand gallons	LGCBMZZ is independent. LGCBMUS = Σ LGCBMZZ
	LGCBP	LPG consumed for internal combustion engine use.	Thousand barrels	LGCBPZZ = LGCBMZZ / 42 LGCBPUS = Σ LGCBPZZ
	LGCCB	LPG consumed by the commercial sector.	Billion Btu	LGCCBZZ = LGCCPZZ * LGTCKUS LGCCBUS = Σ LGCCBZZ
	LGCCP	LPG consumed by the commercial sector.	Thousand barrels	LGCCPZZ = LGHCPZZ * 0.15 LGCCPUS = Σ LGCCPZZ
	LGHCM	LPG sold for residential and commercial use.	Thousand gallons	LGHCMZZ is independent. LGHCMUS = Σ LGHCMZZ
	LGHCP	LPG consumed by the residential and commercial sectors.	Thousand barrels	LGHCPZZ = LGHCMZZ / 42 LGHCPUS = Σ LGHCPZZ
	LGICB	LPG consumed by the industrial sector.	Billion Btu	LGICBZZ = LGICPZZ * LGTCKUS LGICBUS = Σ LGICBZZ

LGICP	LPG consumed by the industrial sector.	Thousand barrels	$ \begin{array}{l} LGICPZZ = LGTCPZZ - (LGRCPZZ + \\ LGCCPZZ + LGACPZZ) \\ LGICPUS = \Sigma LGICPZZ \end{array} $
LGRCB	LPG consumed by the residential sector.	Billion Btu	LGRCBZZ = LGRCPZZ * LGTCKUS LGRCBUS = Σ LGRCBZZ
LGRCP	LPG consumed by the residential sector.	Thousand barrels	LGRCPZZ = LGHCPZZ * 0.85 LGRCPUS = Σ LGRCPZZ
LGTCB	LPG total consumed.	Billion Btu	
LGTCKUS	Factor for converting LPG from physical units to Btu.	Million Btu per barrel	LGTCKUS is independent.
LGTCP	LPG total consumed.	Thousand barrels	LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS LGTCPUS is independent.
LGTRSUS	The transportation sector's share of LPG internal combustion engine sales.	Fraction	LGTRSUS is independent.
LGTTP	LPG total sold.	Thousand gallons	LGTTPZZ is independent. LGTTPUS = Σ LGTTPZZ
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	LOACBZZ = ESACBZZ * ELLSS48 Exceptions: LOACBAK = (ESACBAK / ESTCBAK) * LOTCBAK LOACBHI = (ESACBHI / ESTCBHI) * LOTCBHI LOACBUS = ΣLOACBZZ
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	LOCCBZZ = ESCCBZZ * ELLSS48 Exceptions: LOCCBAK = (ESCCBAK / ESTCBAK) * LOTCBAK LOCCBHI = (ESCCBHI / ESTCBHI) * LOTCBHI LOCCBUS = ΣLOCCBZZ
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	LOICBZZ = ESICBZZ * ELLSS48 Exceptions: LOICBAK = (ESICBAK / ESTCBAK) * LOTCBAK LOICBHI = (ESICBHI / ESTCBHI) * LOTCBHI LOICBUS = ΣLOICBZZ

A P P E	LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	LORCBZZ = ESRCBZZ * ELLSS48 Exceptions: LORCBAK = (ESRCBAK / ESTCBAK) * LOTCBAK LORCBHI = (ESRCBHI / ESTCBHI) * LOTCBHI LORCBUS = ΣLORCBZZ
N D I X A	LOTCB	Total electrical system energy losses.	Billion Btu	LOTCBZZ = ESTCBZZ * ELLSS48 Exceptions: LOTCBAK = TEEIBAK - ESTCBAK LOTCBHI = TEEIBHI - ESTCBHI LOTCBUS = TEEIBUS - ESTCBUS LOTCB48 = LOTCBUS - (LOTCBAK + LOTCBHI)
A	LUACB	Lubricants consumed by the transportation sector.	Billion Btu	LUACBZZ = LUACPZZ * 6.065 LUACBUS = Σ LUACBZZ
	LUACP	Lubricants consumed by the transportation sector.	Thousand barrels	LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ LUACPUS = Σ LUACPZZ
	LUICB	Lubricants consumed by the industrial sector.	Billion Btu	LUICBZZ = LUICPZZ * 6.065 LUICBUS = Σ LUICBZZ
	LUICP	Lubricants consumed by the industrial sector.	Thousand barrels	LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ LUICPUS = Σ LUICPZZ
	LUINP	Lubricants sold to the industrial sector.	Thousand barrels	LUINPZZ is independent. LUINPUS = Σ LUINPZZ
	LUTCB	Lubricants total consumed.	Billion Btu	LUTCBZZ = LUICBZZ + LUACBZZ LUTCBUS = Σ LUTCBZZ
	LUTCP	Lubricants total consumed.	Thousand barrels	LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS LUTCPUS is independent.
	LUTRP	Lubricants sold to the transportation sector.	Thousand barrels	LUTRPZZ is independent. LUTRPUS = Σ LUTRPZZ
	LUTTP	Lubricants total sold.	Thousand barrels	LUTTPZZ = LUINPZZ + LUTRPZZ LUTTPUS = Σ LUTTPZZ
	MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu	MBICBZZ = MBTCBZZ MBICBUS = MBTCBUS
	MBICP	Motor gasoline blending components consumed by the industrial sector.	Thousand barrels	MBICPZZ = MBTCPZZ MBICPUS = MBTCPUS

МВТСВ	Motor gasoline blending components total consumed.	Billion Btu	MBTCBZZ = MBTCPZZ * 5.253 MBTCBUS = Σ MBTCBZZ
MBTCP	Motor gasoline blending components total consumed.	Thousand barrels	MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS MBTCPUS is independent.
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	MGACBZZ = MGACPZZ * MGTCKUS $MGACBUS = \Sigma MGACBZZ$
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	$\begin{aligned} & \text{MGACPZZ} = (\text{MGTRPZZ} \ / \ \text{MGTTPZZ}) * \text{MGTCPZZ} \\ & \text{MGACPUS} = \Sigma \text{MGACPZZ} \end{aligned}$
MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. MGAGPUS = Σ MGAGPZZ
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	MGCCBZZ = MGCCPZZ * MGTCKUS $MGCCBUS = \Sigma MGCCBZZ$
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	$ \begin{array}{l} \text{MGCCPZZ} = (\text{MGCMPZZ} \; / \; \text{MGTTPZZ}) \; * \; \text{MGTCPZZ} \\ \text{MGCCPUS} = \Sigma \text{MGCCPZZ} \end{array} $
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	MGCMPZZ = MGMSPZZ + MGPNPZZ $MGCMPUS = \Sigma MGCMPZZ$
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCUPZZ is independent. MGCUPUS = Σ MGCUPZZ
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	MGICBZZ = MGICPZZ * MGTCKUS MGICBUS = Σ MGICBZZ
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	$\begin{aligned} & \text{MGICPZZ} = (\text{MGINPZZ} \ / \ \text{MGTTPZZ}) * \text{MGTCPZZ} \\ & \text{MGICPUS} = \Sigma \text{MGICPZZ} \end{aligned}$
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	$\begin{aligned} & \text{MGINPZZ} = \text{MGAGPZZ} + \text{MGCUPZZ} + \text{MGIYPZZ} \\ & \text{MGINPUS} = \Sigma \text{MGINPZZ} \end{aligned}$
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent $MGIYPUS = \Sigma MGIYPZZ$
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = Σ MGMFPZZ
MGMRP	Motor gasoline sold for marine use.	Thousand gallons	MGMRPZZ is independent. MGMRPUS = Σ MGMRPZZ

A

MGMSP

Motor gasoline sold for miscellaneous and

Thousand gallons

MGMSPZZ is independent.

NATCP	Natural gasoline total consumed.	Thousand barrels	NATCPZZ = (OCVAVZZ / OCVAVUS) * NATCPUS NATCPUS is independent.
NGACB	Natural gas consumed by the transportation sector.	Billion Btu	NGACBZZ = NGACPZZ * NGTXKZZ $NGACBUS = \Sigma NGACBZZ$
NGACP	Natural gas consumed by the transportation sector.	Million cubic feet	NGACPZZ = NGPZPZZ + NGVHPZZ $NGACPUS = \Sigma NGACPZZ$
NGCCB	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGCCBZZ = NGCCPZZ * NGTXKZZ $NGCCBUS = \Sigma NGCCBZZ$
NGCCP	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGCCPZZ is independent. NGCCPUS = Σ NGCCPZZ
NGEIB	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Billion Btu	NGEIBZZ = NGEIPZZ * NGEIKZZ NGEIBUS = Σ NGEIBZZ
NGEIK	Factor for converting natural gas consumed by the electric power sector from physical units to Btu.	Thousand Btu per cubic foot	NGEIKZZ is independent. NGEIKUS = NGEIBUS / NGEIPUS
NGEIP	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Million cubic feet	NGEIPZZ is independent. NGEIPUS = Σ NGEIPZZ
NGICB	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Billion Btu	NGICBZZ = NGICPZZ * NGTXKZZ NGICBUS = Σ NGICBZZ
NGICP	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Million cubic feet	NGICPZZ = NGINPZZ + NGLEPZZ + NGPLPZZ $NGICPUS = \Sigma NGICPZZ$
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = Σ NGINPZZ
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = Σ NGLEPZZ
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	NGLPBZZ = NGLPPZZ * NGTXKZZ $NGLPBUS = \Sigma NGLPBZZ$
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ = NGLEPZZ + NGPLPZZ $NGLPPUS = \Sigma NGLPPZZ$
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = Σ NGPLPZZ

A P	NGPZB	Natural gas consumed as pipeline fuel.	Billion Btu	NGPZBZZ = NGPZPZZ * NGTXKZZ $NGPZBUS = \Sigma NGPZBZZ$
P E N	NGPZP	Natural gas consumed as pipeline fuel.	Million cubic feet	NGPZPZZ is independent. NGPZPUS = Σ NGPZPZZ
D I	NGRCB	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGRCBZZ = NGRCPZZ * NGTXKZZ $NGRCBUS = \Sigma NGRCBZZ$
X A	NGRCP	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGRCPZZ is independent. NGRCPUS = Σ NGRCPZZ
	NGSFP	Supplemental gaseous fuels supplies.	Million cubic feet	NGSFPZZ is independent. NGSFPUS = Σ NGSFPZZ
	NGTCB	Natural gas total consumed (including supplemental gaseous fuels).	Billion Btu	NGTCBZZ = NGTCPZZ * NGTCKZZ NGTCBUS = Σ NGTCBZZ
	NGTCK	Factor for converting natural gas total consumed from physical units to Btu.	Thousand Btu per cubic foot	NGTCKZZ is independent. NGTCKUS = NGTCBUS / NGTCPUS
	NGTCP	Natural gas total consumed (including supplemental gaseous fuels).	Million cubic feet	$\begin{aligned} \text{NGTCPZZ} &= \text{NGRCPZZ} + \text{NGCCPZZ} + \\ & \text{NGICPZZ} + \text{NGACPZZ} + \text{NGEIPZZ} \\ \text{NGTCPUS} &= \Sigma \text{NGTCPZZ} \end{aligned}$
	NGTXK	Factor for converting natural gas consumed by all sectors other than the electric utility sector from physical units to Btu.	Thousand Btu per cubic foot	NGTXKZZ = (NGTCBZZ - NGEIBZZ) /
	NGTZP	Natural gas consumed in sectors that have supplemental gaseous fuels commingled with natural gas.	Million cubic feet	$ \begin{aligned} & \text{NGTZPZZ} = \text{NGCCPZZ} + \text{NGRCPZZ} + \text{NGINPZZ} + \\ & \text{NGEIPZZ} \\ & \text{NGTZPUS} = \Sigma \text{NGTZPZZ} \end{aligned} $
	NGVHB	Natural gas consumed as vehicle fuel.	Billion Btu	NGVHBZZ = NGVHPZZ * NGTXKZZ $NGVHBUS = \Sigma NGVHBZZ$
	NGVHP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVHPZZ is independent. NGVHPUS = Σ NGVHPZZ
	NNACB	Natural gas consumed by the transportation sector.	Billion Btu	NNACBZZ = NGACBZZ $NNACBUS = \Sigma NNACBZZ$

NNCCB	Natural gas consumed by the commercial sector (excluding supplemental gaseous fuels).	Billion Btu	NNCCBZZ = NGCCBZZ - SFCCBZZ NNCCBUS = Σ NNCCBZZ
NNEIB	Natural gas consumed by the electric power sector (excluding supplemental gaseous fuels).	Billion Btu	NNEIBZZ = NGEIBZZ - SFEIBZZ NNEIBUS = Σ NNEIBZZ
NNICB	Natural gas consumed by the industrial sector (excluding supplemental gaseous fuels).	Billion Btu	NNICBZZ = NGICBZZ - SFINBZZ NNICBUS = Σ NNICBZZ
NNRCB	Natural gas consumed by the residential sector (excluding supplemental gaseous fuels).	Billion Btu	NNRCBZZ = NGRCBZZ - SFRCBZZ NNRCBUS = Σ NNRCBZZ
NNTCB	Natural gas total consumed (excluding supplemental gaseous fuels).	Billion Btu	NNTCBZZ = NGTCBZZ - SFTCBZZ NNTCBUS = Σ NNTCBZZ
NUEGB	Electricity produced from nuclear power in the electric power sector.	Billion Btu	NUEGBZZ = NUEGPZZ * NUETKUS NUEGBUS = Σ NUEGBZZ
NUEGP	Electricity produced from nuclear power in the electric power sector.	Million kilowatthours	NUEGPZZ is independent. NUEGPUS = Σ NUEGPZZ
NUETB	Electricity total produced from nuclear power.	Billion Btu	NUETBZZ = NUEGBZZ $NUETBUS = \Sigma NUETBZZ$
NUETKUS	Factor for converting electricity produced from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUETKUS is independent.
NUETP	Electricity total produced from nuclear power.	Million kilowatthours	NUETPZZ = NUEGPZZ $NUETPUS = \Sigma NUETPZZ$
OCVAV	Value added in manufacture of industrial organic chemicals.	Million dollars	OCVAVZZ is independent. OCVAVUS = Σ OCVAVZZ
ОТТСВ	"Other" consumption for tables on Energy Consumption Estimates by Source	Billion Btu	OTTCBZZ = ELNIBZZ - SFTCBZZ OTTCBUS = ELNIBUS + ENLCBUS - SFTCBUS
P1ICB	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the industrial sector.	Billion Btu	P1ICBZZ = ARICBZZ + KSICBZZ + LUICBZZ + P0ICBZZ P1ICBUS = Σ P1ICBZZ
P1ICP	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the industrial sector.	Thousand barrels	P1ICPZZ = $ARICPZZ + KSICPZZ + LUICPZZ + POICPZZ$ P1ICPUS = Σ P1ICPZZ

A P P	P1TCB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total consumed.	Billion Btu	P1TCBZZ = ARTCBZZ + AVTCBZZ + KSTCBZZ + LUTCBZZ + POTCBZZ P1TCBUS = Σ P1TCBZZ
E N D	P1TCP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total consumed.	Thousand barrels	P1TCPZZ = ARTCPZZ + AVTCPZZ + KSTCPZZ + LUTCPZZ + POTCPZZ P1TCPUS = Σ P1TCPZZ
Ī X	PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ PAACBUS = ΣPAACBZZ
Α	PAACKUS	Factor for converting all petroleum products consumed by the transportation sector from physical units to Btu.	Million Btu per barrel	PAACKUS = PAACBUS / PAACPUS
	PAACP	All petroleum products consumed by the transportation sector.	Thousand barrels	PAACPZZ = AVACPZZ + DFACPZZ + JKACPZZ + JNACPZZ + LGACPZZ + LUACPZZ + MGACPZZ + RFACPZZ PAACPUS = ΣPAACPZZ
	PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	$\begin{aligned} \text{PACCBZZ} &= \text{DFCCBZZ} + \text{KSCCBZZ} + \text{LGCCBZZ} + \\ & \text{MGCCBZZ} + \text{PCCCBZZ} + \text{RFCCBZZ} \\ \text{PACCBUS} &= \text{\SigmaPACCBZZ} \end{aligned}$
	PACCKUS	Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu.	Million Btu per barrel	PACCKUS = PACCBUS / PACCPUS
	PACCP	All petroleum products consumed by the commercial sector.	Thousand barrels	PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + PCCCPZZ + RFCCPZZ PACCPUS = Σ PACCPZZ
	PAEIB	All petroleum products consumed by the electric power sector.	Billion Btu	PAEIBZZ = DFEIBZZ + JKEUBZZ + PCEIBZZ + RFEIBZZ PAEIBUS = ΣPAEIBZZ
	PAEIKUS	Factor for converting all petroleum products consumed by the electric power sector from physical units to Btu.	Million Btu per barrel	PAEIKUS = PAEIBUS / PAEIPUS
	PAEIP	All petroleum products consumed by the electric power sector.	Thousand barrels	PAEIPZZ = DFEIPZZ + JKEUPZZ + PCEIPZZ + RFEIPZZ PAEIPUS = ΣPAEIPZZ

PAHCBUS	All petroleum products consumed by the residential and commercial sectors combined.	Billion Btu	PAHCBUS = PARCBUS + PACCBUS
PAHCKUS	Factor for converting all petroleum products consumed by the residential and commercial sectors combined from physical units to Btu.	Million Btu per barrel	PAHCKUS = PAHCBUS / PAHCPUS
PAHCPUS	All petroleum products consumed by the residential and commercial sectors combined.	Thousand barrels	PAHCPUS = PARCPUS + PACCPUS
PAICB	All petroleum products consumed by the industrial sector.	Billion Btu	PAICBZZ = ARICBZZ + DFICBZZ + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ PAICBUS = Σ PAICBZZ
PAICKUS	Factor for converting all petroleum products consumed by the industrial sector from physical units to Btu.	Million Btu per barrel	PAICKUS = PAICBUS / PAICPUS
PAICP	All petroleum products consumed by the industrial sector.	Thousand barrels	PAICPZZ = ARICPZZ + DFICPZZ + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ PAICPUS = Σ PAICPZZ
PARCB	All petroleum products consumed by the residential sector.	Billion Btu	PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ PARCBUS = Σ PARCBZZ
PARCKUS	Factor for converting all petroleum products consumed by the residential sector from physical units to Btu.	Million Btu per barrel	PARCKUS = PARCBUS / PARCPUS
PARCP	All petroleum products consumed by the residential sector.	Thousand barrels	PARCPZZ = DFRCPZZ + KSRCPZZ + LGRCPZZ PARCPUS = Σ PARCPZZ
PATCB	All petroleum products consumed by all sectors.	Billion Btu	PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ PATCBUS = ΣPATCBZZ
PATCKUS	Factor for converting all petroleum products consumed by all sectors from physical units to Btu.	Million Btu per barrel	PATCKUS = PATCBUS / PATCPUS

A P P E	PATCP	All petroleum products consumed by all sectors.	Thousand barrels	PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JKTCPZZ + JNTCPZZ + KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ + RFTCPZZ + POTCPZZ PATCPUS = ΣPATCPZZ
N D	PCC3M	Petroleum coke consumed for combined heat and power in the commercial sector.	Thousand tons	PCC3MZZ is independent. PCC3MUS = Σ PCC3MZZ
X	РСССВ	Petroleum coke consumed for combined heat and power in the commercial sector.	Billion Btu	PCCCBZZ = PCCCPZZ * 6.024 PCCCBUS = Σ PCCCBZZ
A	PCCCP	Petroleum coke consumed for combined heat and power in the commercial sector.	Thousand barrels	PCCCPZZ = PCC3MZZ * 5 PCCCPUS = Σ PCCCPZZ
	PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	PCEIBZZ = PCEIPZZ * 6.024 PCEIBUS = Σ PCEIBZZ
	PCEIM	Petroleum coke consumed by the electric power sector.	Thousand tons	PCEIMZZ is independent. PCEIMUS = Σ PCEIMZZ
	PCEIP	Petroleum coke consumed by the electric power sector.	Thousand barrels	PCEIPZZ = PCEIMZZ * 5 PCEIPUS = Σ PCEIPZZ
	PCI3B	Petroleum coke consumed for combined heat and power in the industrial sector.	Billion Btu	PCI3BZZ = PCI3PZZ * 6.024 PCI3BUS = Σ PCI3BZZ
	PCI3M	Petroleum coke consumed for combined heat and power in the industrial sector.	Thousand tons	PCI3MZZ is independent. PCI3MUS = Σ PCI3MZZ
	PCI3P	Petroleum coke consumed for combined heat and power in the industrial sector.	Thousand barrels	PCI3PZZ = PCI3MZZ * 5 PCI3PUS = Σ PCI3PZZ
	PCICB	Petroleum coke consumed in the industrial sector.	Billion Btu	PCICBZZ = PCICPZZ * 6.024 PCICBUS = Σ PCICBZZ
	PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	PCICPZZ = PCI3PZZ + PCRFPZZ + PCOCPZZ PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS
	РСОСВ	Petroleum coke consumed in the industrial sector other than for refinery use and combined heat and power.	Billion Btu	PCOCBZZ = PCOCPZZ * 6.024 PCOCBUS = Σ PCOCBZZ
	PCOCP	Petroleum coke consumed in the industrial sector other than for refinery use and combined heat and power.	Thousand barrels	PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS PCOCPUS = PCICPUS – PCI3PUS – PCRFPUS

PCRFB	Petroleum coke used at refineries as both catalytic and marketable coke.	Billion Btu	PCRFBZZ = PCRFPZZ * 6.024 PCRFBUS = Σ PCRFBZZ
PCRFP	Petroleum coke used at refineries as both catalytic and marketable coke.	Thousand barrels	PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ or (CTCAPZZ / CTCAPPZ) * PCRFPPZ or is independent. PCRFPUS is independent.
РСТСВ	Petroleum coke total consumed.	Billion Btu	PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ PCTCBUS = Σ PCTCBZZ
PCTCP	Petroleum coke total consumed.	Thousand barrels	PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ PCTCPUS is independent.
PIVAV	Value added in the manufacture of paints and allied products.	Million dollars	PIVAVZZ is independent. PIVAVUS = Σ PIVAVZZ
PLICB	Plant condensate consumed by the industrial sector.	Billion Btu	PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS
PLICP	Plant condensate consumed by the industrial sector.	Thousand barrels	PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS
PLTCB	Plant condensate total consumed.	Billion Btu	PLTCBZZ = PLTCPZZ * 5.418 PLTCBUS = Σ PLTCBZZ
PLTCP	Plant condensate total consumed.	Thousand barrels	PLTCPZZ = (OCVAVZZ / OCVAVUS) * PLTCPUS PLTCPUS is independent.
POICB	Other petroleum products consumed by the industrial sector.	Billion Btu	POICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + NAICBZZ + PCICBZZ + PLICBZZ + PPICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + USICBZZ + WXICBZZ POICBUS = \$\text{POICBZZ}\$
POICP	Other petroleum products consumed by the industrial sector.	Thousand barrels	POICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + NAICPZZ + PCICPZZ + PLICPZZ + PPICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + USICPZZ + WXICPZZ POICPUS = \$\text{SPOICPZZ}\$

РОТСВ	Other petroleum products total consumed.	Billion Btu	POTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + NATCBZZ + PCTCBZZ + PLTCBZZ + PPTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + USTCBZZ + WXTCBZZ POTCBUS = \$\text{POTCBZZ}\$
РОТСР	Other petroleum products total consumed.	Thousand barrels	POTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + NATCPZZ + PCTCPZZ + PLTCPZZ + PPTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + USTCPZZ + WXTCPZZ POTCPUS = \$\text{POTCPZZ}\$
PPICB	Pentanes plus consumed by the industrial sector.	Billion Btu	PPICBZZ = PPTCBZZ PPICBUS = PPTCBUS
PPICP	Pentanes plus consumed by the industrial sector.	Thousand barrels	PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS
РРТСВ	Pentanes plus total consumed.	Billion Btu	PPTCBZZ = PPTCPZZ * 4.620 PPTCBUS = Σ PPTCBZZ
PPTCP	Pentanes plus total consumed.	Thousand barrels	PPTCPZZ = (OCVAVZZ / OCVAVUS) * PPTCPUS PPTCPUS is independent.
RDICP	Road oil consumed by the industrial sector.	Thousand barrels	RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS RDICPUS = Σ RDICPZZ
RDINP	Road oil sold to the industrial sector.	Short tons	RDINPZZ is independent. RDINPUS = Σ RDINPZZ
RDTCP	Road oil total consumed.	Thousand barrels	RDTCPZZ = RDICPZZ RDTCPUS is independent.
REACB	Renewable energy sources consumed by the transportation sector.	Billion Btu	REACBZZ = ENACBZZ REACBUS = ENACBUS
RECCB	Renewable energy sources consumed by the commercial sector.	Billion Btu	RECCBZZ = GECCBZZ + HYCCBZZ + WWCCBZZ RECCBUS = GECCBUS + HYCCBUS + WWCCBUS
REEIB	Renewable energy sources consumed by the electric power sector.	Billion Btu	REEIBZZ = HVEGBZZ + GEEGBZZ + SOEGBZZ+ WWEIBZZ + WYEGBZZ REEIBUS = HVENGBUS + GEEGBUS + SOEGBUS+ WWEIBUS + WNEGBUS

REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	REICBZZ = GEICBZZ + HVICBZZ + WWICBZZ REICBUS = GEICBUS + HVICBUS + WWICBUS
RERCB	Renewable energy sources consumed by the residential sector.	Billion Btu	RERCBZZ = WDRCBZZ + GERCBZZ + SOHCBZZ RERCBUS = WDRCBUS + GERCBUS + SOHCBUS
RETCB	Renewable energy sources total consumed.	Billion Btu	RETCBZZ = RERCBZZ + RECCBZZ + REICBZZ + REACBZZ + REEIBZZ RETCBUS = RERCBUS + RECCBUS + REICBUS + REACBUS + REEIBUS
RFACB	Residual fuel oil consumed by the transportation sector.	Billion Btu	RFACBZZ = RFACPZZ * 6.287 RFACBUS = Σ RFACBZZ
RFACP	Residual fuel oil consumed by the transportation sector.	Thousand barrels	RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ RFACPUS = Σ RFACPZZ
RFBKP	Residual fuel oil sold for vessel bunkering use, excluding deliveries to the Armed Forces.	Thousand barrels	RFBKPZZ is independent. RFBKPUS = Σ RFBKPZZ
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	RFCCBZZ = RFCCPZZ * 6.287 RFCCBUS = Σ RFCCBZZ
RFCCP	Residual fuel oil consumed by the commercial sector.	Thousand barrels	RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ RFCCPUS = Σ RFCCPZZ
RFCMP	Residual fuel oil sold to the commercial sector.	Thousand barrels	RFCMPZZ is independent. RFCMPUS = Σ RFCMPZZ
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	RFEIBZZ = RFEIPZZ * 6.287 RFEIBUS = Σ RFEIBZZ
RFEIP	Residual fuel oil consumed by the electric power sector.	Thousand barrels	RFEIPZZ is independent. RFEIPUS = Σ RFEIPZZ
RFIBP	A portion of residual fuel oil sold for industrial use, including industrial space heating.	Thousand barrels	RFIBPZZ is independent. RFIBPUS = Σ RFIBPZZ
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	RFICBZZ = RFICPZZ * 6.287 RFICBUS = Σ RFICBZZ
RFICP	Residual fuel oil consumed by the industrial sector.	Thousand barrels	RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ RFICPUS = Σ RFICPZZ
RFINP	Residual fuel oil sold to the industrial sector.	Thousand barrels	RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ RFINPUS = Σ RFINPZZ

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A P	RFMIP	Residual fuel oil sold to the Armed Forces, regardless of use.	Thousand barrels	RFMIPZZ is independent. RFMIPUS = Σ RFMIPZZ
P E	RFMSP	Residual fuel oil sold for miscellaneous uses.	Thousand barrels	RFMSPZZ is independent. RFMSPUS = Σ RFMSPZZ
N D I	RFNCP	Residual fuel oil consumption by all sectors other than the electric utility sector.	Thousand barrels	RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS RFNCPUS = RFTCPUS - RFEIPUS
X	RFNDP	Residual fuel oil sold to all sectors other than the electric utility sector.	Thousand barrels	RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = Σ RFNDPZZ
Α	RFOCP	Residual fuel oil sold for use by oil companies.	Thousand barrels	RFOCPZZ is independent. RFOCPUS = Σ RFOCPZZ
	RFRRP	Residual fuel oil sold for use by railroads.	Thousand barrels	RFRRPZZ is independent. RFRRPUS = Σ RFRRPZZ
	RFTCB	Residual fuel oil total consumed.	Billion Btu	RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEIBZZ RFTCBUS = Σ RFTCBZZ
	RFTCP	Residual fuel oil total consumed.	Thousand barrels	RFTCPZZ = RFNCPZZ + RFEIPZZ RFTCPUS is independent.
	RFTRP	Residual fuel oil sold to the transportation sector.	Thousand barrels	RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ RFTRPUS = Σ RFTRPZZ
	SFCCB	Supplemental gaseous fuels consumed by the commercial sector.	Billion Btu	SFCCBZZ = SFCCPZZ * NGTXKZZ SFCCBUS = Σ SFCCBZZ
	SFCCP	Supplemental gasesous fuels consumed by the commercial sector.	Million cubic feet	$ \begin{array}{l} {\sf SFCCPZZ} = {\sf NGSFPZZ} \ * \ ({\sf NGCCPZZ} \ / \ {\sf NGTZPZZ}) \\ {\sf SFCCPUS} = \Sigma {\sf SFCCPZZ} \\ \end{array} $
	SFEIB	Supplemental gaseous fuels consumed by the electric power sector.	Billion Btu	SFEIBZZ = SFEIPZZ * NGEIKZZ SFEIBUS = Σ SFEIBZZ
	SFEIP	Supplemental gaseous fuels consumed by the electric power sector.	Million cubic feet	SFEIPZZ = NGSFPZZ * (NGEIPZZ / NGTZPZZ) SFEIPUS = Σ SFEIPZZ
	SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	SFINBZZ = SFINPZZ * NGTXKZZ SFINBUS = Σ SFINBZZ
	SFINP	Supplemental gaseous fuels consumed by the industrial sector.	Million cubic feet	$ \begin{array}{l} {\sf SFINPZZ} = {\sf NGSFPZZ} * ({\sf NGINPZZ} \ / \ {\sf NGTZPZZ}) \\ {\sf SFINPUS} = {\sf \SigmaSFINPZZ} \end{array} $

SFRCB	Supplemental gaseous fuels consumed by the residential sector.	Billion Btu	$SFRCBZZ = SFRCPZZ * NGTXKZZ$ $SFRCBUS = \Sigma SFRCBZZ$
SFRCP	Supplemental gaseous fuels consumed by the residential sector.	Million cubic feet	$SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ)$ $SFRCPUS = \Sigma SFRCPZZ$
SFTCB	Supplemental gaseous fuels total consumed.	Billion Btu	$ \begin{array}{l} {\rm SFTCBZZ} = {\rm SFCCBZZ} + {\rm SFINBZZ} + {\rm SFRCBZZ} + \\ {\rm SFEIBZZ} \\ {\rm SFTCBUS} = {\rm \Sigma SFTCBZZ} \end{array} $
SFTCP	Supplemental gaseous fuels total consumed.	Million cubic feet	$ \begin{array}{l} {\rm SFTCPZZ = SFCCPZZ + SFINPZZ + SFRCPZZ + } \\ {\rm SFEIPZZ} \\ {\rm SFTCPUS = \Sigma SFTCPZZ} \end{array} $
SGICB	Still gas consumed by the industrial sector.	Billion Btu	SGICBZZ = SGTCBZZ SGICBUS = SGTCBUS
SGICP	Still gas consumed by the industrial sector.	Thousand barrels	SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS
SGTCB	Still gas total consumed.	Billion Btu	SGTCBZZ = SGTCPZZ * 6.000 SGTCBUS = Σ SGTCBZZ
SGTCP	Still gas total consumed.	Thousand barrels	SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS SGTCPUS is independent.
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	SNICBZZ = SNTCBZZ SNICBUS = SNTCBUS
SNICP	Special naphthas consumed by the industrial sector.	Thousand barrels	SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS
SNTCB	Special naphthas total consumed.	Billion Btu	SNTCBZZ = SNTCPZZ * 5.248 SNTCBUS = Σ SNTCBZZ
SNTCP	Special naphthas total consumed.	Thousand barrels	SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS SNTCPUS is independent.
SOEGB	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Billion Btu	SOEGBZZ = SOEGPZZ * FFETKUS SOEGBUS = Σ SOEGBZZ
SOEGP	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Million kilowatthours	SOEGPZZ is independent. SOEGPUS = Σ SOEGPZZ
SOHCB	Solar thermal energy consumed by the residential and commercial sectors.	Billion Btu	SOHCBZZ = (SOTTPZZ / SOTTPUS) * SOHCBUS SOHCBUS is independent.

A P	SOTCB	Photovoltaic and solar thermal energy sources total consumed.	Billion Btu	SOTCBZZ = SOHCBZZ + SOEGBZZ SOTCBUS = Σ SOTCBZZ
P E	SOTTP	Shipments of solar thermal collectors.	Square feet	SOTTPZZ is independent. SOTTPUS = Σ SOTTPZZ
N D I X	TEACB	Total energy consumed by the transportation sector.	Billion Btu	TEACBZZ = CLACBZZ + NGACBZZ + PAACBZZ + ESACBZZ + LOACBZZ TEACBUS = CLACBUS + NGACBUS + PAACBUS + ESACBUS + LOACBUS
A	TEAPB	The transportation sector's energy consumption per capita.	Million Btu	TEAPBZZ = TEACBZZ / TPOPPZZ TEAPBUS = TEACBUS / TPOPPUS
	TECCB	Total energy consumed by the commercial sector.	Billion Btu	TECCBZZ = CLCCBZZ + NGCCBZZ + PACCBZZ + HYCCBZZ + WWCCBZZ + GECCBZZ + ESCCBZZ + LOCCBZZ - SFCCBZZ TECCBUS = CLCCBUS + NGCCBUS + PACCBUS + HYCCBUS + WWCCBUS + GECCBUS + ESCCBUS + LOCCBUS - SFCCBUS
	ТЕСРВ	The commercial sector's energy consumption per capita.	Million Btu	TECPBZZ = TECCBZZ / TPOPPZZ TECPBUS = TECCBUS / TPOPPUS
	TEEIB	Total energy consumed by the electric power sector plus net imports of electricity into the United States.	Billion Btu	TEEIBZZ = CLEIBZZ + NGEIBZZ + PAEIBZZ + HYEGBZZ + NUEGBZZ + GEEGBZZ + WWEIBZZ + WNEGBZZ + ELNIBZZ - SFEIBZZ TEEIBUS = STEEIBZZ
	TEICB	Total energy consumed by the industrial sector.	Billion Btu	TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYICBZZ + WDICBZZ + WSICBZZ + GEICBZZ + ESICBZZ + LOICBZZ - SFINBZZ TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + HYICBUS + WDICBUS + WSICBUS + GEICBUS + ESICBUS + LOICBUS + ENLCBUS - SFINBUS
	TEIPB	The industrial sector's energy consumption per capita.	Million Btu	TEIPBZZ = TEICBZZ / TPOPPZZ TEIPBUS = TEICBUS / TPOPPUS

TERCB	Total energy consumed by the residential sector.	Billion Btu	TERCBZZ = CLRCBZZ + NGRCBZZ + PARCBZZ + WDRCBZZ + GERCBZZ + SOHCBZZ + ESRCBZZ + LORCBZZ - SFRCBZZ TERCBUS = CLRCBUS + NGRCBUS + PARCBUS + WDRCBUS + GERCBUS + SOHCBUS + ESRCBUS + LORCBUS - SFRCBUS
TERPB	The residential sector's energy consumption per capita.	Million Btu	TERPBZZ = TERCBZZ / TPOPPZZ TERPBUS = TERCBUS / TPOPPUS
TESSB	Total energy consumed (sum of the four end-use sectors). Cross-check not used in SEDS.	Billion Btu	TESSBZZ = TERCBZZ + TECCBZZ + TEICBZZ + TEACBZZ TESSBUS = TERCBUS + TECCBUS + TEICBUS + TEACBUS
TETCB	Total energy consumed (sum of all	Billion Btu	TETCBZZ = CLTCBZZ + NGTCBZZ + PATCBZZ + NUETBZZ + HYTCBZZ + WDTCBZZ + WSTCBZZ + GETCBZZ + SOTCBZZ + WYTCBZZ + ELNIBZZ + ELISBZZ - SFTCBZZ TETCBUS = CLTCBUS + CCNIBUS + NGTCBUS + PATCBUS + NUETBUS + HYTCBUS + WDTCBUS + WSTCBUS + GETCBUS + SOTCBUS + WYTCBUS + ELNIBUS + ENLCBUS - SFTCBUS
TETGR	Total energy consumed per dollar of real gross domestic product.	Thousand Btu per chained (2000) dollar	TETGRZZ = TETCBZZ / GDPRXZZ TETGRUS = TETCBUS / GDPRXUS
ТЕТРВ	Total energy consumption per capita.	Million Btu	TETPBZZ = TETCBZZ / TPOPPZZ TETPBUS = TETCBUS / TPOPPUS
TNACB	Total net energy consumed by the transporta- tion sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNACBZZ = TEACBZZ - LOACBZZ TNACBUS = TEACBUS - LOACBUS
TNCCB	Total net energy consumed by the commercial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNCCBZZ = TECCBZZ - LOCCBZZ TNCCBUS = TECCBUS - LOCCBUS
TNICB	Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNICBZZ = TEICBZZ - LOICBZZ TNICBUS = TEICBUS - LOICBUS

TNRCB	Total net energy consumed by the residential sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNRCBZZ = TERCBZZ - LORCBZZ TNRCBUS = TERCBUS - LORCBUS
TPOPP	The resident population including the Armed Forces residing in each State.	Thousand	TPOPPZZ is independent. TPOPPUS is independent.
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS
UOICP	Unfinished oils consumed by the industrial sector.	Thousand barrels	UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS
UOTCB	Unfinished oils total consumed.	Billion Btu	UOTCBZZ = UOTCPZZ * 5.825 UOTCBUS = Σ UOTCBZZ
UOTCP	Unfinished oils total consumed.	Thousand barrels	UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS UOTCPUS is independent.
USICB	Unfractionated stream consumed by the industrial sector.	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated stream consumed by the industrial sector.	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS
USTCB	Unfractionated stream total consumed.	Billion Btu	USTCBZZ = USTCPZZ * 5.418 USTCBUS = Σ USTCBZZ
USTCP	Unfractionated stream total consumed.	Thousand barrels	USTCPZZ = (OCVAVZZ / OCVAVUS) * USTCPUS USTCPUS is independent.
WDC3B	Wood consumed for combined heat and power in the commercial sector.	Billion Btu	WDC3BZZ is independent. WDC3BUS = Σ WDC3BZZ
WDC4B	Wood energy consumed for other uses in the commercial sector.	Billion Btu	WDC4BZZ = (WDRCPZZ / WDRCPUS) * WDC4BUS WDC4BUS = WDCCBUS - WDC3BUS
WDCCB	Wood energy consumed by the commercial sector, total.	Billion Btu	WDCCBZZ = WDC3BZZ + WDC4BZZ WDCCBUS is independent.
WDEIB	Wood consumed by the electric power sector.	Billion Btu	WDEIBZZ is independent. WDEIBUS = Σ WDEIBZZ
WDI3B	Wood consumed for combined heat and power in the industrial sector.	Billion Btu	WDI3BZZ is independent. WDI3BUS = Σ WDI3BZZ

WDI4B	Wood energy consumed for other uses in the industrial sector.	Billion Btu	WDI4BZZ is independent. WDI4BUS = Σ WDI4BZZ
WDICB	Wood energy consumed by the industrial sector, total.	Billion Btu	WDICBZZ = WDI3BZZ + WDI4BZZ WDICBUS = Σ WDICBZZ
WDRCB	Wood energy consumed by the residential sector.	Billion Btu	WDRCBZZ = WDRCPZZ * 20 WDRCBUS = Σ WDRCBZZ
WDRCP	Wood energy consumed by the residential sector.	Thousand cords	WDRCPZZ is independent. WDRCPUS = Σ WDRCPZZ
WDTCB	Wood energy, total consumed.	Billion Btu	$\begin{aligned} \text{WDTCBZZ} &= \text{WDRCBZZ} + \text{WDCCBZZ} + \\ & \text{WDICBZZ} + \text{WDEIBZZ} \\ \text{WDTCBUS} &= \text{\SigmaWDTCBZZ} \end{aligned}$
WSC3B	Waste consumed for combined heat and power in the commercial sector.	Billion Btu	WSC3BZZ is independent. WSC3BUS = Σ WSC3BZZ
WSCCB	Waste consumed in the commercial sector, total.	Billion Btu	WSCCBZZ = WSC3BZZ WSCCBUS = Σ WSCCBZZ
WSEIB	Waste consumed by the electric power sector.	Billion Btu	WSEIBZZ is independent. WSEIBUS = Σ WSEIBZZ
WSI3B	Waste consumed for combined heat and power in the industrial sector.	Billion Btu	WSI3BZZ is independent. WSI3BUS = Σ WSI3BZZ
WSI4B	Waste energy consumed for other uses in the industrial sector.	Billion Btu	WSI4BZZ is independent. WSI4BUS = Σ WSI4BZZ
WSICB	Waste energy consumed by the industrial sector, total.	Billion Btu	WSICBZZ = WSI3BZZ + WSI4BZZ WSICBUS = Σ WSICBZZ
WSTCB	Waste energy, total consumed.	Billion Btu	WSTCBZZ = WSCCBZZ + WSICBZZ + WSEIBZZ WSTCBUS = Σ WSTCBZZ
WWCCB	Wood and waste consumed in the commercial sector.	Billion Btu	$WWCCBZZ = WDCCBZZ + WSCCBZZ$ $WWCCBUS = \Sigma WWCCBZZ$
WWEIB	Wood and waste consumed by the electric power sector.	Billion Btu	WWEIBZZ = WDEIBZZ + WSEIBZZ WWEIBUS = Σ WWEIBZZ
WWI4B	Wood and waste consumed in manufacturing processes in the industrial sector.	Billion Btu	$WWI4BZZ = WDI4BZZ + WSI4BZZ$ $WWI4BUS = \Sigma WWI4BZZ$

A P	WWICB	Wood and waste consumed in the industrial sector, total.	Billion Btu	$WWICBZZ = WDICBZZ + WSICBZZ$ $WWICBUS = \Sigma WWICBZZ$
P E N	WWTCB	Wood and waste total consumed.	Billion Btu	$\begin{aligned} & \text{WWTCBZZ} = \text{WDTCBZZ} + \text{WSTCBZZ} \\ & \text{WWTCBUS} = \text{\SigmaWWTCBZZ} \end{aligned}$
N D I	WXICB	Waxes consumed by the industrial sector.	Billion Btu	WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS
X	WXICP	Waxes consumed by the industrial sector.	Thousand barrels	WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS
A	WXTCB	Waxes total consumed.	Billion Btu	WXTCBZZ = WXTCPZZ * 5.537 WXTCBUS = Σ WXTCBZZ
	WXTCP	Waxes total consumed.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.
	WYEGB	Electricity produced from wind energy at electric power sector.	Billion Btu	WYEGBZZ = WYEGPZZ * FFETKUS WYEGBUS = Σ WYEGBZZ
	WYEGP	Electricity produced from wind energy at electric power sector.	Million kilowatthours	WYEGPZZ is independent. WYEGPUS = Σ WYEGPZZ
	WYTCB	Electricity produced from wind energy total produced.	Billion Btu	WYTCBZZ = WYEGBZZ WYTCBUS = Σ WYTCBZZ

Appendix B

Thermal Conversion Factors

Table B1. Approximate Heat Content of Petroleum and Heat Rates for Electricity, Selected Years, 1960-2007

		Petroleum Consumption		Electricity Net Generation					
	Liquefied Petroleum Motor Gases Gasolin (LGTCKUS) (MGTCKU		Total Petroleum Products ^a (PATCKUS)	Fossil-Fueled Steam-Electric Plants ^b (FFETKUS)	Nuclear Steam-Electric Plants (NUETKUS)	Geothermal Energy Plants (GEETKUS)			
Year		Million Btu per Barrel			Btu per Kilowatthour				
1960	4.011	5.253	5.55503	10,760	11,629	23,200			
1965	4.011	5.253	5.53200	10,453	11,804	22,182			
1970	3.779	5.253	5.50317	10,494	10,977	21,606			
1975	3.715	5.253	5.49427	10,406	11,013	21,611			
1976	3.711	5.253	5.50448	10,373	11,047	21,611			
1977	3.677	5.253	5.51825	10,435	10,769	21,611			
1978	3.669	5.253	5.51865	10,435 10,361	10,941	21,611			
1979	3.680	5.253	5.49383	10,353	10,879	21,545			
1980	3.674	5.253	5.47933	10,388	10,908	21,639			
1981	3.643	5.253	5.44818	10,453	11,030	21,639			
1982	3.615	5.253	5.41514	10,454	11,073	21,629			
1983	3.614	5.253	5.40567	10,520	10,905	21,290			
1984	3.599	5.253	5.39530	10.440	10,843	21,303			
1985	3.603	5.253	5.38744	10,447	10.622	21,263			
1986	3.640	5.253	5.41832	10,447 10,446	10,579	21,263			
1987	3.659	5.253	5.40281	10,419	10,442	21,263			
1988	3.652	5.253	5.41017	10,324	10,602	21,096			
1989	3.683	5.253	5.40967	10,432	10,583	21,096			
1990	3.625	5.253	5.41084	10,402	10,582	21,096			
1991	3.614	5.253	5.38408	10,436	10,484	20,997			
1992	3.624	5.253	5.37773	10.342	10,471	20,914			
1993	3.606	5.253	5.37911	10.309	10,504	20,914			
1994	3.635	^c 5.230	5.36097	10,316	10.452	20,914			
1995	3.623	5.215	5.34138	10,309 10,316 10,312	10,507	20,914 20,914			
1996	3.613	5.216	5.33638	10,340	10,503	20,960			
1997	3.616	5.213	5.33598	10,213	10,494	20,960			
1998	3.614	5.212	5.34899	10,197	10,491	21,017			
1999	3.616	5.211	5.32807	10,226	10,450	21,017			
2000	3.607	5.210	5.32576	10,201	10,429	21,017			
2001	3.614	5.210	5.34502	10,333	10,448	21,017			
2002	3.613	5.208	5.32382	10,173	10,439	21,017			
2003	3.629	5.207	5.34050	10,241	10,421	21,017			
2004	3.618	5.215	5.34989	10,241 10,022	10,427	21,017			
2005	3.620	5.218	5.36466	9,999	10,435	21,017			
2006	3.605	5.218	5.35306	9,919	10,434	21,017			
2007	3.591	5.219	5.34661	9,884	10,488	21,017			

^a This factor is not actually applied in SEDS but is displayed here for information.

b This factor is not actually applied in SEDS but is displayed here for information.

b This factor is the average for electricity generated at U.S. fossil-fueled steam-electric plants. In SEDS, it is applied to convert hydroelectricity, electricity generated for distribution from wind, photovoltaic, and solar thermal energy. Through 2000, it is also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste consumed by the electric power sector are available

^c There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a factor that is a quantity-weighted average of motor gasoline's major components. Where shown, R = Revised data, NA = Not available, - - = Not applicable.

Table B2. Approximate Heat Content of Natural Gas Consumed by the Electric Power Sector, Selected Years, 1960-1994 (Thousand Btu per Cubic Foot)

			1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabama	1.03500	1.03400	1.03100	1.03300	1.13300	1.09900	1.02904	1.02401	1.02367	1.02220	1.01855
Alaska		1.01000	1.00500	1.00600	1.00600	1.00600	1.02703	1.00314	1.00154	1.00051	1.00080
Arizona	1.03500	1.07600	1.05900	1.07100	1.05700	1.05900	1.03061	1.02707	1.03026	1.02705	1.02266
Arkansas		1.00100	1.00400	1.01100	1.02600	1.05500	1.01765	1.01980	1.02501	1.02825	1.02389
	1.03500	1.07300	1.05400	1.06300	1.05200	1.05100	1.03205	1.02858	1.03368	1.03145	1.0238
California				0.99600							
Colorado		0.91200	0.97400		0.98100	0.98900	1.04148	1.02137	1.09800	1.05610	1.0729
Connecticut	1.03500	1.02200	1.01600	1.00500		1.03100	1.03057	1.03089	1.03009	1.02709	1.0226
Delaware	1.03500	1.04300	1.02000	1.07300	1.04200	1.03800	1.07008	1.08692	1.02704	1.03261	1.03656
District of Columbia											
Florida	1.03500	1.03700	1.04100	1.00900	1.01500	1.01100	1.01308	1.01400	1.01153	1.01167	1.01669
Georgia	1.03500	1.04000	1.03100	1.02900	1.03500	1.02400	1.02421	1.02496	1.02395	1.02307	1.02780
Hawaii											
daho				1.05300	1.03700	1.04900					
llinois	1.03500	1.02900	1.02500	1.02900	1.02400	1.02700	1.02323	1.02077	1.02082	1.01819	1.02230
ndiana	1.03500	0.99900	1.00600	1.00000	1.00400	1.00500	1.00251	1.00168	1.00174	1.01316	1.02306
owa	1.03500	1.01000	1.00900	1.00800	1.00800	1.02100	1.01396	1.01812	1.00646	1.01116	1.01292
Kansas	1.03500	0.99500	0.99800	0.99100	0.96000	0.96800	0.99773	0.97745	0.98360	0.98439	0.98966
		1.02800	1.01700	1.01700	1.02400	1.02400	1.02300	1.02144	1.01818	1.02029	1.01916
Kentucky											
_ouisiana	1.03500	1.04200	1.02900	1.05900	1.04100	1.04700	1.04485	1.04112	1.04249	1.04221	1.04565
Maine							1.00771	1.02811	1.01226	1.01124	1.00826
Maryland	1.03500	1.02500	1.02200	0.94300	1.02300	1.02500	1.03390	1.04181	1.04019	1.03675	1.04017
Massachusetts	1.03500	1.01300	1.01200	1.00200	1.00000	1.03900	1.04723	1.03680	1.02940	1.02939	1.03084
Michigan	1.03500	1.01400	1.01500	0.83400	0.73700	0.46000	0.81306	0.87079	0.88192	0.90370	0.90726
Minnesota	1.03500	0.99800	1.00200	0.98400	0.99400	1.00200	1.01509	1.01457	1.01438	1.01402	1.01272
Mississippi	1.03500	1.02900	1.02500	1.03000	1.01700	1.03900	1.03399	1.02498	1.02742	1.02249	1.03729
Missouri	1.03500	1.02000	1.00700	0.97700	0.97900	0.99200	1.01841	1.01457	1.01298	1.01096	1.00418
Montana		1.00100	1.03200	1.14900	1.04900	1.20400	1.15891	1.07579	1.11863	1.08149	1.04877
Nebraska	1.03500	0.99100	1.00800	0.98200	0.95000	0.95700	0.95929	0.95337	0.97870	0.99290	0.99452
Nevada		1.06200	1.08200	1.06700	1.07100	1.06500	1.03100	1.02404	1.02846	1.04035	1.04119
New Hampshire	1.03300	1.00200	1.00200	1.00000	1.07100	1.00500	1.03100		1.01754	1.01781	1.01521
		1.04500	1.02600	1.02800	1.03400	1.04600	1.03553	1.03037	1.02742	1.02276	1.02665
New Jersey											
New Mexico	1.03500	1.10800	1.08300	1.03300	1.02900	1.01300	1.03374	1.01695	1.01687	1.01627	1.02221
New York	1.03500	1.02600	1.02100	1.02500	1.03600	1.03500	1.03195	1.03041	1.02817	1.02833	1.02728
North Carolina		1.03300	1.02400	1.03100	1.03400	1.03300	1.02675	1.03144	1.03321	1.03025	1.03058
North Dakota	1.03500	1.00000	1.03100	1.05400	1.05400	1.05400	R 1.03798	R 1.00492	R 1.03642	R 1.07952	R 1.09442
Ohio	1.03500	1.03300	1.02300	0.86400	1.00400	1.01400	1.01125	1.00952	1.03102	1.02644	1.02464
Oklahoma	1.03500	1.02600	1.03200	1.03800	1.04800	1.04400	1.04175	1.03901	1.03817	1.03920	1.03351
Oregon	1.03500	1.07000	1.04500	1.03700	0.99800		1.02708	1.01222	1.01166	1.01224	1.01144
Pennsylvania	1.03500	1.03800	1.03300	1.00000	1.02000	1.00000	0.93491	1.02864	1.02943	1.03544	1.03458
Rhode Island	1.03500	1.04200	1.02100	1.04200	1.02200	1.03400	1.03210	1.03020	1.02074	1.02904	1.02013
South Carolina	1.03500	1.04200	1.02800	1.02800	1.03000	1.02900	1.02381	1.02506	1.02253	1.02231	1.02324
South Dakota	1.03500	0.99700	1.02800	1.00000	0.98800	1.01000	1.02803	1.01033	R 1.01880	1.02286	1.0232
	1.03500	1.04600	1.02200	1.00000	1.01600	1.01000	1.02723	1.02281	1.02530	1.02331	1.0237
ennessee											
exas	1.03500	1.03700	1.02700	1.01900	1.03700	1.03600	1.03509	1.03015	1.02694	1.02718	1.02459
Jtah		0.92500	0.93800	0.94100	0.95500	1.07500	1.02690	1.05562	1.06077	1.05143	1.0404
/ermont				1.00000	1.00000	1.00000	1.02734	0.98778	0.98754	0.99999	0.99713
/irginia	1.03500	1.03100	1.02600	1.09800	1.10400	1.04000	1.03021	1.03652	1.03666	1.03109	1.03058
Vashington					1.03000	1.03300	1.02854	1.02967	1.03216	1.02850	1.0314
Vest Virginia	1.03500	1.07100	1.02900	0.57500	1.00000	1.00000	0.99670	1.00675	1.03604	1.03009	1.04130
Visconsin	1.03500	1.01800	1.01900	1.01600	1.00700	1.00000	1.01645	1.01499	1.01224	1.01329	1.0163
Wyoming	1.03500	0.92600	1.02300	0.84300	0.84700	1.04800	R 1.03513	R 1.05115	R 1.03892	R 1.04450	1.0364
U.S. Average	1.03500	1.03765	1.02944	1.02341	1.03313	1.03706	1.02725	1.02509	1.02520	1.02488	1.02488

⁻⁻⁼ Not applicable.

Where shown, R = Revised data.

Table B3. Approximate Heat Content of Natural Gas Consumed by the Electric Power Sector, 1995-2007 (Thousand Btu per Cubic Foot)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	1.02310	1.02760	1.02950	1.03302	1.02466	1.02720	1.03999	1.02482	1.02736	R 1.02472	1.02715	1.02886	1.0328
laska		1.00233	1.00242	1.00268	1.00220	1.00287	1.00407	1.00932	1.00443	1.00662	1.00565	1.00657	1.0066
rizona		1.01496	1.01378	1.01415	1.01305	1.01636	1.02258	1.01840	1.00837	R 1.01956	1.02431	1.02054	1.0219
rkansas		1.02344	1.02498	1.01929	1.02477	1.01993	1.03734	1.01635	1.03201	R 1.02958	1.02893	1.02800	1.0255
alifornia		1.02584	1.02032	1.02304	1.02214	1.02000	1.02692	1.02158	1.02340	R 1.02909	1.02923	1.03244	1.0313
olorado		1.12266	1.04229	1.06423	1.05450	1.05607	1.04663	1.01720	1.03365	R 1.04051	1.03495	1.03880	1.037
Connecticut		1.02345	1.02248	1.02601	1.02436	1.01244	1.01368	1.02097	1.00752	R 1.01538	1.01130	1.00951	1.0373
elaware		1.03419	1.03450	0.97091	0.98134	1.01673	1.03674	1.01707	1.04245	R 1.03029	1.03715	1.03675	1.035
District of Columbia		1.03419	1.03430	0.97091	0.90134	1.01073	1.03074		1.04243	1.03029	1.03713	1.03073	1.0336
		1.01127	1.04256	1.04912	1.04135	1.03646	1.04178	1.02549	1.03436	R 1.03045	1.03436	1.02849	1.027
lorida										R 1.03045			
eorgia		1.02431	1.00946	1.02606	1.02673	1.01594	1.01916	1.02188	1.02438	1.03019	1.04566	1.04015	1.040
awaii										P 4 00700			
daho		1.03307	1.03481	1.03002	1.05025	1.03984	1.02873	0.97878	1.00230	R 1.02786	1.02118	1.02677	1.0249
linois		1.01965	1.01557	1.01928	1.02158	1.01971	1.02217	1.01163	1.01480	R 1.02463	1.02019	1.02249	1.0226
idiana		1.01995	1.02040	1.01648	1.01879	1.01671	1.01952	1.02556	1.02146	R 1.01509	1.01773	R 1.01513	1.014
owa		1.00500	1.00831	1.01268	1.00841	1.00859	1.01359	1.00659	1.01041	R 0.99871	1.00334	1.00438	1.008
ansas		0.98351	0.98586	1.00521	1.01066	1.01145	1.01026	1.00056	1.00340	R 1.00452	1.00872	1.01478	1.019
entucky		1.01867	1.02012	1.02181	1.01939	1.01993	1.02461	1.02361	1.02331	R 1.02445	1.03241	1.02800	1.026
ouisiana	1.04248	1.04232	1.03456	1.04232	1.03837	1.03444	1.04067	1.02701	1.03237	R 1.02811	1.02964	1.03741	1.032
laine	1.00503	R 1.00798	R 1.00656	R 1.03733	1.00100	1.02127	1.03355	1.03812	1.03671	R 1.03921	1.05201	1.05568	1.057
laryland	1.03470	1.02970	1.03684	1.03865	1.03691	1.04123	1.03292	1.04258	1.03769	R 1.04035	1.04852	1.04652	1.044
assachusetts	1.02632	1.02968	1.02836	1.04262	1.01500	1.03492	1.03677	1.01676	1.02782	R 1.03290	1.03287	1.03225	1.036
lichigan	0.85452	0.87193	0.87129	0.88699	0.89247	0.93402	0.98983	1.00796	1.01273	R 1.01714	1.01550	1.01063	1.014
linnesota	1.01111	1.00989	1.01220	1.05067	1.01762	1.01789	1.02240	1.00546	1.00425	R 1.00624	1.00874	1.00680	1.0080
lississippi		1.03141	1.02934	1.03307	1.02502	1.02791	1.02876	1.02548	1.03318	1.03101	1.03170	1.03232	1.0309
lissouri	1.00814	1.01468	1.01471	1.01668	1.01323	1.01404	1.09900	1.00873	1.01641	R 1.02157	1.02147	1.02477	1.023
Iontana		1.03955	1.02892	1.03493	1.03116	1.01796	1.01456	1.00955	0.95902	R 1.01564	1.01286	R 1.01072	1.0448
lebraska		1.01050	1.00967	1.00763	1.00966	1.01493	1.02174	0.97662	0.99673	R 0.98659	0.99775	1.00548	1.0159
levada		1.03316	1.02715	1.03558	1.04377	1.02377	1.02606	1.01984	1.02357	R 1.03072	1.03657	1.02932	1.0298
lew Hampshire		R 1.02436	1.01786	1.02281	1.02137	1.06899	1.07385	1.04750	1.04564	1.04510	1.04446	1.04314	1.0552
lew Jersey		1.03056	1.03482	1.04144	1.03534	1.03151	1.03223	1.03139	1.03536	R 1.03755	1.03463	1.03521	1.0345
lew Mexico		0.99824	1.00067	0.99571	0.99600	0.99198	0.98219	1.00213	1.00031	R 1.02145	1.00549	1.00779	1.0178
lew York		1.02327	1.02371	1.02447	1.02417	1.01798	1.01882	1.01869	1.02450	R 1.02132	1.02147	1.01924	1.0211
lorth Carolina		1.02327	1.02622	1.02605	1.02230	1.01722	1.02407	1.00973	1.00655	R 1.00928	1.01375	1.01299	1.0132
		R 1.05874	R 1.06653	1.02003	1.02230	1.01722	R 1.02795	R 1.00955	R 1.02473	R 1.04392	R 1.11556	R 1.08016	1.0820
Iorth Dakota Dhio		1.02085			1.02092			1.02439	1.03352	R 1.02727	1.02907	1.03092	
			1.02017	1.02219		1.01937	1.01881			R 4 00000			1.0323
Oklahoma		1.02824	1.03153	1.02999	1.02781	1.02916	1.03073	1.02546	1.02943	R 1.03036	1.03020	1.03032	1.0285
regon		1.01909	1.01602	1.01970	1.01631	1.01753	1.02082	1.01680	1.02118	R 1.02007	1.02003	1.02464	1.0332
ennsylvania		1.03198	1.02662	1.02931	1.03645	1.03405	1.03347	1.02807	1.03903	R 1.03657	1.03585	1.03422	1.0302
hode Island		1.02322	1.01327	1.02253	1.01450	1.03065	1.03204	1.01847	1.02214	R 1.02152	1.02128	1.01687	1.025
outh Carolina		1.02027	1.01971	1.03096	1.06091	1.03751	1.03684	1.02817	1.02770	R 1.03388	1.03487	1.04906	1.0383
outh Dakota		1.01705	1.01916	1.02159	1.01887	1.01954	1.02653	0.98041	0.96009	R 0.98320	1.00858	1.00539	1.009
ennessee		1.01661	1.01905	1.02160	1.02350	1.03286	1.03970	1.02290	1.03185	R 1.02572	1.02331	1.02767	1.026
exas		1.02413	1.02310	1.02420	1.02190	1.02101	1.03022	1.01876	1.02061	R 1.02280	1.02805	1.02568	1.023
tah		_B 1.01896	1.02582	1.03583	1.03557	1.04434	1.04644	1.00539	1.00428	1.00032	1.04427	1.04983	1.040
ermont		R 1.01462	R 1.01156	1.01633	1.01335	1.01229	1.00817	R 1.01839	R 1.01936	R 1.02000	0.88972	R 1.01596	1.018
irginia	1.03249	1.03700	1.04719	1.03817	1.03962	1.03747	1.02995	1.02430	1.02763	R 1.02684	1.03214	1.02936	1.0296
/ashington	1.02840	1.02830	1.02308	1.03466	1.03892	1.02537	1.02829	1.02600	1.02062	R 1.02427	1.02332	1.02568	1.023
/est Virginia		1.01379	1.03654	1.00391	1.00545	1.00560	1.02595	1.03635	1.05680	R 1.06199	1.03941	1.04647	1.040
/isconsin		1.01525	1.01687	1.01313	1.01690	1.01176	1.01630	0.97482	0.98645	R 0.99724	1.01029	1.01153	1.016
Vyoming		R 1.03950	R 1.04120	1.04321	1.04270	1.02728	1.03073	0.92332	0.93429	R 0.94599	0.92542	0.99055	0.976
	1.02126	1.01968	1.02011	1.02380	1.02158	1.02139	1.02874	1.02070	1.02414	R 1.02625	1.02840	1.02760	1.0273

--- = Not applicable.

Where shown, R = Revised data.

Sources: See source listing at the end of this appendix.

Table B4. Approximate Heat Content of Natural Gas Consumed by All Sectors Except Electric Power, Selected Years, 1960-1994 (Thousand Btu per Cubic Foot)

State	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabama	1.03500	1.03400	1.03100	1.02891	1.03349	1.03770	1.02900	1.02706	1.02808	1.03017	1.03022
Alaska		1.01000	1.00500	1.00470	1.00231	1.00600	0.94586	1.00189	1.00204	0.99348	1.00102
Arizona		1.07600	1.05900	1.04957	1.04558	1.04578	1.03233	1.02453	1.03123	1.02821	1.02803
Arkansas		1.00100	1.00400	0.99503	0.99415	1.04576	1.00761	1.01657	1.00681	1.01255	1.02003
		1.07300	1.05400	1.05594	1.04358	1.03848	1.03198	1.02635	1.02657	1.03809	1.02176
California								1.02940			
Colorado		0.91200	0.97400	0.89576	0.99471	0.99923	1.00299		1.01930	1.00902	1.00003
Connecticut		1.02200	1.01600	1.00500	1.02200	1.02998	1.03333	1.03102	1.02774	1.02699	1.03121
Delaware		1.04300	1.02000	1.01468	1.03285	1.02197	1.00925	1.00647	1.03714	1.03563	1.03569
District of Columbia		1.02400	1.01600	1.01200	1.00300	1.01500	1.00800	1.00600	1.00700	1.00700	1.01100
Florida		1.03700	1.04100	1.07754	1.06968	1.10911	1.08380	1.09835	1.09963	1.09898	1.12842
Georgia	1.03500	1.04000	1.03100	1.02672	1.03196	1.02801	1.02702	1.02701	1.02500	1.02703	1.03001
Hawaii					0.96300	1.08200	1.07000	1.08000	1.07300	1.06200	1.05100
daho		1.06500	1.06100	1.05500	1.05301	1.04900	1.02800	1.03300	1.03000	1.03800	1.03800
Ilinois		1.02900	1.02500	1.02590	1.02196	1.04008	1.02199	1.01898	1.01797	1.02104	1.02095
ndiana		0.99900	1.00600	0.98976	0.98894	1.00801	1.01823	1.01428	1.01115	1.01300	1.01282
owa		1.01000	1.00900	1.00800	1.00287	1.01091	1.00687	1.00780	1.00397	1.00285	1.00793
Kansas		0.99500	0.99800	0.98159	0.99404	0.99990	0.99911	1.01019	0.98714	0.98715	0.99858
		1.02800	1.01700	1.00799		1.03004	1.04003	1.04703	1.05806	1.04804	1.06207
Kentucky					1.00886						
_ouisiana		1.04200	1.02900	1.03153	1.03707	1.03819	1.04137	1.04827	1.04430	1.03604	1.03879
Maine			1.01200	1.02400	1.02400	1.03500	1.00488	1.00517	1.01302	1.01408	1.01415
Maryland	1.03500	1.02500	1.02200	1.01323	1.01990	1.03408	1.02720	1.02500	1.02691	1.02749	1.03018
Massachusetts	1.03500	1.01300	1.01200	1.00402	1.01646	1.02388	1.03523	1.03963	1.03924	1.04058	1.02421
/lichigan	1.03500	1.01400	1.01500	1.02420	1.01961	1.02304	1.04436	1.03551	1.03493	1.03493	1.03530
/linnesota	1.03500	0.99800	1.00200	1.00225	0.99709	1.00401	1.00379	1.01195	1.01095	1.01096	1.01097
/lississippi		1.02900	1.02500	1.02189	1.03421	1.02459	1.03266	1.03034	1.05273	1.02311	1.03098
/lissouri		1.02000	1.00700	1.00822	1.01577	1.01714	1.01089	1.00871	1.00189	1.00388	1.00603
Montana		1.00100	1.03200	1.01927	1.00926	0.99897	1.02672	1.02872	1.02254	1.01768	1.02370
Nebraska		0.99100	1.00800	0.99650	0.98019	0.98226	0.98383	0.98501	0.97901	0.97473	0.98476
		1.06200	1.08200	1.06700	1.05209	1.06122	1.03100	1.03623	1.03300	1.02847	1.02775
Nevada											
New Hampshire		1.01200	1.01000	1.01024	1.02000	1.02700	1.01400	1.00700	1.00867	1.00994	1.01285
New Jersey		1.04500	1.02600	1.03111	1.03269	1.02214	1.02434	1.02496	1.02567	1.03927	1.04231
New Mexico		1.10800	1.08300	1.07555	1.04776	1.08795	1.05642	1.04226	1.04289	1.04235	0.99971
New York		1.02600	1.02100	1.01476	1.02277	1.02724	1.02930	1.02717	1.02928	1.02921	1.02827
North Carolina	1.03500	1.03300	1.02400	1.01799	1.01175	1.03400	1.03209	1.03201	1.03402	1.03509	1.03604
North Dakota	1.03500	1.00000	1.03100	1.00077	1.05200	1.06200	R 1.03200	R 1.04600	R 1.04500	1.06000	1.05800
Ohio		1.03300	1.02300	1.02403	1.01606	1.04403	1.04005	1.04415	1.03602	1.03804	1.03704
Oklahoma		1.02600	1.03200	0.99619	1.00198	1.01970	1.02103	1.01318	1.02118	1.02104	1.02589
Oregon		1.07000	1.04500	1.03900	1.04620	1.03000	1.02100	1.03073	1.03819	1.04058	1.04635
Pennsylvania		1.03800	1.03300	1.02505	1.02201	1.03409	1.03938	1.03507	1.03612	1.03705	1.03606
		1.04200	1.02100	1.01399	1.02094	1.03291	1.02678	1.02703	1.01664	1.02896	1.03000
Rhode Island											
South Carolina		1.04200	1.02800	1.02346	1.03312	1.02800	1.02824	1.02715	1.02706	1.02909	1.03116
South Dakota		0.99700	1.00400	1.00000	0.99811	1.01000	1.01589	1.01805	1.01499	1.01294	1.00998
ennessee		1.04600	1.02200	1.03100	1.01600	1.03400	1.03502	1.03301	1.03101	1.03507	1.03203
exas		1.03700	1.02700	1.02966	1.03085	1.03909	1.04215	1.04004	1.05007	1.02838	1.04276
Itah	1.03500	0.92500	0.93800	0.95023	1.09212	1.07500	1.08848	1.07371	1.07898	1.08137	1.06884
ermont			1.00600	1.00930	0.98936	0.99185	0.98245	0.98804	0.99588	0.99792	0.99597
/irginia		1.03100	1.02600	1.01868	1.01471	1.03899	1.04266	1.04253	1.03929	1.04662	1.03943
Vashington		1.07500	1.05500	1.04200	1.05216	1.04000	1.03000	1.03101	1.03306	1.03823	1.04294
Vest Virginia		1.07100	1.02900	1.03805	1.03210	1.06707	1.07109	1.07310	1.06513	1.06509	1.06408
		1.01800	1.01900	1.02023	1.00804	1.01004	1.00591	1.00693	1.00897	1.01098	1.01195
Visconsin		0.92600	1.02300	0.93453	1.06069	1.051004	1.09905	1.06001	R 1.05801	R 1.05601	1.05602
Nyoming	1.05500	0.92000			1.00009	1.03100			1.00001	1.00001	1.00002
J.S. Average	1.03500	1.03182	1.02543	1.02232	1.02375	1.03156	1.03079	1.03093	1.03150	1.02888	1.03032

⁻⁻⁼ Not applicable.

Where shown, R = Revised data.

Table B5. Approximate Heat Content of Natural Gas Consumed by All Sectors Except Electric Power, 1995-2007 (Thousand Btu per Cubic Foot)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	1.02917	1.03313	1.04144	1.03955	1.03584	1.04401	1.03244	1.06486	0.99110	R 1.04673	1.03262	1.02908	1.02112
Alaska		0.98908	0.99979	0.99874	0.99983	0.76085	1.01051	1.01438	1.01487	1.01475	1.00164	R 1.00027	1.00480
Arizona		1.01012	1.02278	1.01667	1.01596	1.01006	1.00624	1.03410	1.00208	R 0.98578	1.00791	1 01227	1.02568
ırkansas		1.02637	1.01395	1.02485	1.01791	1.01885	1.01324	1.05351	1.05143	R 1.04485	1.00566	R 1.03518	0.99976
alifornia		1.03426	1.01711	1.05636	1.01470	0.95633	1.01548	0.98692	1.02137	R 1.01719	1.01880	R 1.00930	1.01242
Colorado		1.01517	1.00918	1.00627	1.00036	0.99802	1.00535	1.00250	0.99877	R 0.98314	1.02630	1.03275	1.01694
Connecticut		1.02869	1.02792	1.02600	1.02391	1.02845	1.02306	1.03522	1.00542	R 0.99598	1.03018	1.04433	1.02901
elaware		1.03562	1.03526	1.06180	1.06762	1.04124	1.03282	1.05002	1.04319	R 1.04225	1.03694	1.03579	1.03891
istrict of Columbia		1.00900	1.02100	1.02700	1.02100	1.02700	1.02600	1.02400	1.02700	1.02700	1.05200	1.02500	1.02700
Torida		1.11625	1.05806	1.05438	1.04611	1.10825	1.06501	1.01936	1.07730	R 1.02327	1.09565	1.02557	1.08009
eorgia		1.02298	1.02784	1.02709	1.02703	1.01823	1.03452	1.02437	1.04473	1.04469	1.02910	1.02831	1.00008
		1.05700	1.03000	1.05600	1.05500	1.04700	1.03432	1.06000	1.04473	1.04409	1.03700	1.04700	1.02477
lawaii		1.02999	1.03090	1.03821	1.03769	1.02464	1.03600	1.02059	1.02514	R 1.02446	1.05404	R 1.04651	1.03700
daho													
linois		1.01898	1.02124	1.02217	1.02202	1.02211	1.01989	1.03155	0.99951	0.99918 R 1 02069	1.01467	1.01567	1.01340
ndiana		1.01093	1.01092	1.01701	1.01798	1.02522	1.02416	0.94474	1.02835	R 1.03068	1.01802	1.01711	1.02366
owa		1.00601	1.00901	1.01096	1.01925	1.00493	1.00375	1.00803	1.00897	1.00835	1.00626	1.01486 R 4.02040	1.01018
ansas		0.99685	1.00225	0.99370	0.99516	1.00759	1.00451	0.99781	1.04199	1.04151	1.01431	R 1.02049	1.01782
entucky		1.04924	1.05029	1.03435	1.03234	1.04038	1.03727	1.03147	1.03215	1.02808	1.02873	1.02906	1.02702
ouisiana		1.04431	1.13486	1.07709	1.04300	1.06383	1.02388	1.08262	1.04168	R 1.04265	1.04799	R 1.03811	1.03308
laine		R 1.01607	R 1.01405	R 1.01681	1.01945	1.15289	1.17664	1.26332	1.19899	R 1.13100	1.07713	1.15914	1.12898
laryland		1.02895	1.03378	1.03679	1.03362	1.03286	1.03744	1.02613	1.02955	1.02932	1.04794	1.03457	1.03601
assachusetts		1.02600	1.01939	1.01524	1.06021	1.04444	1.04537	1.05133	1.04878	R 1.04519	1.00963	R 1.00055	1.00837
ichigan		1.03412	1.04030	1.04705	1.04155	1.03633	1.03105	0.99858	0.99840	R 0.99943	1.01608	^R 1.01916	1.0244
linnesota		1.01812	1.01810	1.01875	1.01905	1.01492	1.01167	1.00913	1.01027	1.01014	1.01225	1.01778	1.02118
lississippi		1.02937	1.03587	1.05199	1.04182	1.04308	1.02193	1.07990	0.98122	1.04715	1.02861	1.01521	1.02900
lissouri		1.01093	1.00987	1.01062	1.01298	1.01512	1.00628	1.00455	1.01705	1.01653	1.01980	1.02044	1.01827
lontana		1.02993	1.03101	1.02592	1.02397	1.02402	1.02202	0.99097	0.98911	0.99795	1.04008	_ 1.01705	1.01560
ebraska	0.97938	1.00694	0.99776	1.00281	0.99858	1.00455	1.01683	1.00100	1.00013	_ 0.99628	1.01089	R 1.01348	1.01817
evada	1.03329	1.03993	1.02680	1.04807	1.02043	1.02996	1.02332	1.06771	1.01939	R 1.00394	1.05496	R 1.05551	1.04862
ew Hampshire	1.01007	R 1.01900	1.01081	1.01091	1.00864	1.05764	1.06173	1.06267	0.94880	1.07094	1.02018	1.02208	1.01423
ew Jersey	1.03463	1.03722	1.03504	1.03715	1.03990	1.03601	1.03840	1.04315	1.04506	R 1.03942	1.04141	1.03756	1.03516
ew Mexico	1.02024	1.03464	1.02240	0.97888	0.97522	0.96773	0.97338	1.01149	1.01200	1.03137	1.03440	R 1.02935	1.03023
lew York	1.03108	1.02699	1.02704	1.02956	1.02845	1.03229	1.03347	0.98173	1.04481	R 1.01959	1.02777	R 1.02660	1.02549
lorth Carolina	1.03319	1.03615	1.03628	1.04095	1.03577	1.03075	1.04244	1.04474	1.04449	R 1.03771	1.04123	1.03821	1.03703
orth Dakota	1.05000	R 1.05100	R 1.05000	1.03800	1.04500	1.03500	R 1.02900	0.97200	0.97000	R 1.00600	1.03600	1.04400	1.04700
Phio	1.03812	1.03805	1.04510	1.04018	1.03722	1.04226	1.04231	1.02605	1.02788	1.02495	1.04452	1.03926	1.03723
klahoma		1.02259	1.00586	1.00666	1.02064	1.00814	1.02651	1.03120	1.03662	1.03456	1.04526	R 1.09836	1.06474
regon		1.04356	1.05050	1.04997	1.06029	1.03123	1.02891	1.03504	1.03629	R 1.04406	1.04411	1.03424	1.01946
ennsylvania		1.03407	1.03525	1.03633	1.03598	1.03503	1.05476	1.05392	1.05282	R 1.05390	1.04055	1.03986	1.04106
hode Island		1.09977	1.03523	1.02711	1.03037	1.04690	1.02937	1.05098	1.03045	R 1.03238	1.05354	R 1.05557	1.04104
outh Carolina		1.03008	1.03120	1.03418	1.02895	1.02852	1.03810	0.99302	0.99720	R 0.99201	1.03911	1.03360	1.03646
outh Dakota		1.01394	1.01794	1.00890	1.00502	1.02832	0.99520	1.02124	1.02326	R 1.02154	1.00686	1.00279	1.00242
ennessee		1.03203	1.03107	1.03019	1.02708	1.03708	1.03697	1.08059	1.03507	1.03509	1.03529	1.03832	1.03944
		1.03666	1.03009	1.03019	1.03769	1.03708	1.02371	1.13132	R 1.15960	R 0.98748	1.03329	1.02623	1.03944
exas tah		1.04260	1.04241	1.04637	1.05582	1.05145	1.05258	1.06349	1.06357	1.06171	1.05480	1.05831	1.06255
tah ermont		R 1.01500	R 1.01200	1.04637	1.05582	1.05145	1.05258	R 1.00394	R 1.00595	R 1.00391	1.00444	1.00094	1.00255
		1.03928	1.04374	1.04382	1.03772	1.03461	1.01206	1.03667	1.03614	R 1.02703	1.00444	R 1.03915	1.00093
irginia													
/ashington		1.03856	1.04878	1.04667	1.05368	1.04243	1.03480	1.01757	1.02242	R 1.02257	1.03221	1.03253	1.02666
/est Virginia		1.06110	1.06811	1.06321	1.05518	1.06822	1.06778	1.00662	1.04887	1.17429	1.06959	1.13486	1.07413
/isconsin		1.01296	1.01076	1.01085	1.01171	1.00990	1.00852	1.00564	1.00834	R 1.00440	1.01345	1.01093	1.01354
Vyoming	1.06303	1.06102	R 1.06903	1.06706	1.05101	1.04635	1.05569	1.04816	1.05050	1.04248	1.04363	1.04240	1.03911
.S. Average	1.02981	1.03076	1.03524	1.03740	1.02937	1.01978	1.02624	1.03933	1.04595	R 1.01932	1.02897	1.02807	1.02736

⁻⁻⁼ Not applicable.

Where shown, R = Revised data.
Sources: See source listing at the end of this appendix.

Table B6. Approximate Heat Content of Natural Gas Total Consumption, Selected Years, 1960-1994 (Thousand Btu per Cubic Foot)

State	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabama	1.03500	1.03400	1.03100	1.02900	1.03400	1.03800	1.02900	1.02700	1.02800	1.03000	1.03000
Alaska		1.01000	1.00500	1.00500	1.00300	1.00600	0.95400	1.00200	1.00200	0.99400	1.00100
Arizona		1.07600	1.05900	1.05200	1.04900	1.05000	1.03200	1.02500	1.03100	1.02800	1.02700
rkansas		1.00100	1.00400	0.99700	1.00100	1.01900	1.00900	1.01700	1.00900	1.01400	1.02200
alifornia		1.07300	1.05400	1.05700	1.04600	1.04300	1.03200	1.02700	1.02900	1.03600	1.02300
Colorado		0.91200	0.97400	0.91300	0.99300	0.99900	1.00500	1.02900	1.02300	1.01100	1.00500
Connecticut		1.02200	1.01600	1.00500	1.02200	1.03000	1.03300	1.03100	1.02800	1.02700	1.03000
Delaware	1.03500	1.04300	1.02000	1.02000	1.03500	1.02500	1.02600	1.03400	1.03500	1.03500	1.03600
District of Columbia		1.02400	1.01600	1.01200	1.00300	1.01500	1.00800	1.00600	1.00700	1.00700	1.01100
lorida		1.03700	1.04100	1.04300	1.04100	1.05300	1.04300	1.04900	1.04900	1.05200	1.06800
Seorgia		1.04000	1.03100	1.02700	1.03200	1.02800	1.02700	1.02700	1.02500	1.02700	1.03000
lawaii			0.96200	0.94700	0.96300	1.08200	1.07000	1.08000	1.07300	1.06200	1.05100
laho		1.06500	1.06100	1.05500	1.05300	1.04900	1.02800	1.03300	1.03000	1.03800	1.03800
inois		1.02900	1.02500	1.02600	1.02200	1.04000	1.02200	1.01900	1.01800	1.02100	1.02100
ndiana		0.99900	1.00600	0.99000	0.98900	1.00800	1.01800	1.01400	1.01100	1.01300	1.01300
owa	1.03500	1.01000	1.00900	1.00800	1.00300	1.01100	1.00700	1.00800	1.00400	1.00300	1.00800
ansas	1.03500	0.99500	0.99800	0.98400	0.98700	0.99800	0.99900	1.00700	0.98700	0.98700	0.99800
entucky	1.03500	1.02800	1.01700	1.00800	1.00900	1.03000	1.04000	1.04700	1.05800	1.04800	1.06200
ouisiana	1.03500	1.04200	1.02900	1.03700	1.03800	1.04000	1.04200	1.04700	1.04400	1.03700	1.04000
laine			1.01200	1.02400	1.02400	1.03500	1.00500	1.00600	1.01300	1.01400	1.01400
laryland		1.02500	1.02200	1.01300	1.02000	1.03400	1.02800	1.02700	1.02800	1.02800	1.03100
assachusetts		1.01300	1.01200	1.00400	1.01600	1.02700	1.03800	1.03900	1.03700	1.03800	1.02600
lichigan		1.01400	1.01500	1.01200	1.01100	1.01500	1.02200	1.02000	1.02000	1.02100	1.02100
innesota		0.99800	1.00200	1.00100	0.99700	1.00400	1.00400	1.01200	1.01100	1.01100	1.01100
lississippi		1.02900	1.02500	1.02300	1.02800	1.02800	1.03300	1.02900	1.04700	1.02300	1.03300
lissouri	1.03500	1.02000	1.00700	1.00600	1.01400	1.01700	1.01100	1.00900	1.00200	1.00400	1.00600
lontana		1.00100	1.03200	1.02100	1.01200	1.00100	1.02800	1.02900	1.02300	1.01800	1.02400
ebraska		0.99100	1.00800	0.99400	0.97800	0.98200	0.98300	0.98400	0.97900	0.97500	0.98500
levada		1.06200	1.08200	1.06700	1.06100	1.06200	1.03100	1.03200	1.03100	1.03400	1.03500
ew Hampshire		1.01200	1.01000	1.01000	1.02000	1.02700	1.01400	1.00700	1.00900	1.01000	1.01300
ew Jersey		1.04500	1.02600	1.03100	1.03300	1.02600	1.02600	1.02600	1.02600	1.03600	1.03900
lew Mexico	1.03500	1.10800	1.08300	1.06400	1.04300	1.07400	1.05400	1.03900	1.04000	1.03900	1.00300
lew York		1.02600	1.02100	1.01500	1.02500	1.02900	1.03000	1.02800	1.02900	1.02900	1.02800
lorth Carolina		1.03300	1.02400	1.01800	1.01200	1.03400	1.03200	1.03200	1.03400	1.03500	1.03600
orth Dakota		1.00000	1.03100	1.00100	1.05200	1.06200	1.03200	1.04600	1.04500	1.06000	1.05800
Phio		1.03300	1.02300	1.02300	1.01600	1.04400	1.04000	1.04400	1.03600	1.03800	1.03700
klahoma	1.03500	1.02600	1.03200	1.01500	1.02300	1.02800	1.02700	1.02100	1.02600	1.02600	1.02800
regon		1.07000	1.04500	1.03900	1.04600	1.03000	1.02300	1.02900	1.03500	1.03700	1.04000
ennsylvania		1.03800	1.03300	1.02500	1.02200	1.03400	1.03700	1.03500	1.03600	1.03700	1.03600
hode Island	1.03500	1.04200	1.02100	1.01400	1.02100	1.03300	1.02800	1.02800	1.01800	1.02900	1.02900
outh Carolina	1.03500	1.04200	1.02800	1.02400	1.03300	1.02800	1.02800	1.02700	1.02700	1.02900	1.03100
outh Dakota	1.03500	0.99700	1.00400	1.00000	0.99800	1.01000	1.01600	1.01800	1.01500	1.01300	1.01000
ennessee		1.04600	1.02200	1.03100	1.01600	1.03400	1.03500	1.03300	1.03100	1.03500	1.03200
exas	1.03500	1.03700	1.02700	1.02600	1.03300	1.03800	1.04000	1.03700	1.04300	1.02800	1.03700
tah		0.92500	0.93800	0.95000	1.08600	1.07500	1.08800	1.07300	1.07800	1.08000	1.06700
ermont	1.03500		1.00600	1.00800	0.99000	0.99200	0.98700	0.98800	0.99500	0.99800	0.99600
irginia		1.03100	1.02600	1.01900	1.01600	1.03900	1.04200	1.04200	1.03900	1.04400	1.03800
/ashington		1.07500	1.05500	1.04200	1.05200	1.04000	1.03000	1.03100	1.03300	1.03700	1.04100
/est Virginia		1.07100	1.02900	1.03700	1.03200	1.06700	1.07100	1.07300	1.06500	1.06500	1.06400
/isconsin		1.01800	1.01900	1.02000	1.00800	1.01000	1.00600	1.00700	1.00900	1.01100	1.01200
Vyoming		0.92600	1.02300	0.93400	1.06000	1.05100	1.09900	1.06000	1.05800	1.05600	1.05600
J.S. Average	1.03500	1.03271	1.02618	1.02249	1.02549	1.03253	1.03019	1.02994	1.03042	1.02821	1.02932

--= Not applicable. Where shown, R = Revised data.

Table B7. Approximate Heat Content of Natural Gas Total Consumption, 1995-2007 (Thousand Btu per Cubic Foot)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	1.02900	1.03300	1.04100	1.03900	1.03500	1.04200	1.03400	1.05300	1.00000	1.04000	1.03100	1.02900	1.02600
laska		0.99000	1.00000	0.99900	1.00000	0.78100	1.01000	1.01400	1.01400	1.01400	1.00200	1.00100	1.0050
rizona		1.01100	1.02100	1.01600	1.01500	1.01300	1.01500	1.02500	1.00600	1.00900	1.01900	1.01800	1.0230
rkansas		1.02600	1.01500	1.02400	1.01900	1.01900	1.01600	1.04700	1.04700	1.04200	1.01100	1.03300	1.0070
alifornia		1.03200	1.01800	1.04700	1.01700	0.97900	1.02000	0.99800	1.02200	1.02100	1.02200	1.01700	1.0190
olorado		1.02400	1.01200	1.01200	1.00700	1.00800	1.01300	1.00500	1.00500	0.99400	1.02800	1.03400	1.0220
Connecticut		1.02400	1.02700	1.02600	1.02400	1.02500	1.02100	1.03000	1.00600	1.00300	1.02300	1.02900	1.0220
elaware		1.03500	1.03500	1.03700	1.03700	1.03700	1.03400	1.03900	1.04300	1.03900	1.03700	1.03600	1.0220
District of Columbia		1.00900	1.02100	1.02700	1.02100	1.02700	1.02600	1.02400	1.02700	1.02700	1.05200	1.02500	1.0360
					1.04300				1.04400				
lorida		1.05000	1.04800	1.05100		1.06000	1.04900	1.02400	1.04400	1.02900 1.04300	1.04600	1.02800	1.0360
Georgia		1.02300	1.02700	1.02700	1.02700	1.01800	1.03300	1.02400			1.03200	1.03100	1.0290
lawaii		1.05700	1.03000	1.05600	1.05500	1.04700	1.03600	1.06000	1.04700	1.04800	1.03700	1.04700	1.0370
laho		1.03000	1.03100	1.03800	1.03800	1.02500	1.01900	1.01900	1.02200	1.02500	1.04900	1.04400	1.0240
linois		1.01900	1.02100	1.02200	1.02200	1.02200	1.02000	1.03000	1.00000	1.00000	1.01500	1.01600	1.0140
ndiana		1.01100	1.01100	1.01700	1.01800	1.02500	1.02400	0.95000	1.02800	1.03000	1.01800	1.01700	1.0230
owa		1.00600	1.00900	1.01100	1.01900	1.00500	1.00400	1.00800	1.00900	1.00800	1.00600	1.01400	1.0100
ansas		0.99600	1.00100	0.99500	0.99700	1.00800	1.00500	0.99800	1.04000	1.04000	1.01400	1.02000	1.0180
entucky		1.04900	1.05000	1.03400	1.03200	1.04000	1.03700	1.03100	1.03200	1.02800	1.02900	1.02900	1.0270
ouisiana	1.03500	1.04400	1.11800	1.07000	1.04200	1.05800	1.02700	1.07000	1.04000	1.04000	1.04400	1.03800	1.0330
laine		1.01600	1.01400	1.01700	1.01800	1.07300	1.05700	1.06200	1.06000	1.05100	1.05600	1.07500	1.0750
laryland		1.02900	1.03400	1.03700	1.03400	1.03400	1.03700	1.02800	1.03000	1.03000	1.04800	1.03600	1.0370
lassachusetts	1.02600	1.02700	1.02200	1.02300	1.04800	1.04200	1.04300	1.04000	1.04000	1.04000	1.01900	1.01500	1.0210
lichigan		1.01200	1.01600	1.02000	1.01800	1.02200	1.02500	1.00000	1.00000	1.00200	1.01600	1.01800	1.0230
linnesota		1.01800	1.01800	1.02000	1.01900	1.01500	1.01200	1.00900	1.01000	1.01000	1.01200	1.01700	1.0200
lississippi		1.03000	1.03400	1.04600	1.03600	1.03800	1.02500	1.05400	1.00000	1.04100	1.03000	1.02300	1.0300
lissouri		1.01100	1.01000	1.01100	1.01300	1.01500	1.01700	1.00500	1.01700	1.01700	1.02000	1.02100	1.0190
Montana		1.03000	1.03100	1.02600	1.02400	1.02400	1.02200	0.99100	0.98900	0.99800	1.04000	1.01700	1.0160
lebraska		1.00700	0.99800	1.00300	0.99900	1.00500	1.01700	1.00000	1.00000	0.99600	1.01000	1.01300	1.0180
levada		1.03600	1.02700	1.04100	1.03400	1.02600	1.02500	1.03800	1.02200	1.02100	1.04300	1.03800	1.0360
		1.01900	1.01100	1.01100	1.00900	1.05800	1.06200	1.06200	1.00000	1.05500	1.03600	1.03600	1.0400
lew Hampshire													
lew Jersey		1.03600	1.03500	1.03800	1.03900	1.03500	1.03700	1.04000	1.04300	1.03900	1.04000	1.03700	1.0350
lew Mexico		1.02900	1.01900	0.98200	0.97900	0.97200	0.97500	1.01000	1.01000	1.03000	1.02900	1.02400	1.0270
lew York		1.02600	1.02600	1.02800	1.02700	1.02800	1.02900	0.99300	1.04000	1.02000	1.02600	1.02400	1.0240
lorth Carolina	1.03300	1.03600	1.03600	1.04000	1.03500	1.03000	1.04100	1.04000	1.04200	1.03500	1.03800	1.03500	1.0330
lorth Dakota	1.05000	1.05100	1.05000	1.03800	1.04500	1.03500	1.02900	0.97200	0.97000	1.00600	1.03600	1.04400	1.0470
Ohio		1.03800	1.04500	1.04000	1.03700	1.04200	1.04200	1.02600	1.02800	1.02500	1.04400	1.03900	1.0370
Oklahoma		1.02400	1.01200	1.01400	1.02300	1.01500	1.02800	1.02900	1.03400	1.03300	1.03900	1.06800	1.0490
regon		1.04000	1.04600	1.04300	1.05100	1.02700	1.02600	1.03000	1.03100	1.03500	1.03500	1.03100	1.0250
ennsylvania		1.03400	1.03500	1.03600	1.03600	1.03500	1.05400	1.05200	1.05200	1.05200	1.04000	1.03900	1.0390
hode Island	1.02600	1.06000	1.02400	1.02500	1.02300	1.03800	1.03100	1.03100	1.02600	1.02700	1.03600	1.03400	1.0320
outh Carolina	1.02700	1.03000	1.03100	1.03400	1.03100	1.02900	1.03800	1.00000	1.00000	1.00000	1.03800	1.03800	1.0370
outh Dakota	1.01400	1.01400	1.01800	1.01000	1.00600	1.00500	0.99900	1.02000	1.02000	1.02000	1.00700	1.00300	1.0030
ennessee	1.03100	1.03200	1.03100	1.03000	1.02700	1.03700	1.03700	1.08000	1.03500	1.03500	1.03500	1.03800	1.0390
exas		1.03300	1.02800	1.04100	1.03200	1.02900	1.02600	1.09100	1.11000	1.00000	1.02800	1.02600	1.0280
tah		1.04200	1.04200	1.04600	1.05500	1.05100	1.05200	1.05800	1.05800	1.05800	1.05400	1.05700	1.0570
ermont		1.01500	1.01200	1.01200	1.01200	1.01200	1.01200	1.00400	1.00600	1.00400	1.00400	1.00100	1.0010
irginia		1.03900	1.04400	1.04300	1.03800	1.03500	1.03700	1.03500	1.03500	1.02700	1.04200	1.03700	1.0400
ashington		1.03700	1.04600	1.04500	1.05200	1.03800	1.03300	1.01900	1.02200	1.02300	1.03000	1.03100	1.0260
Vest Virginia		1.06100	1.06800	1.06300	1.05500	1.06800	1.06700	1.00700	1.04900	1.17300	1.06900	1.13200	1.0200
/isconsin		1.01300	1.01100	1.01100	1.01200	1.01000	1.00700	1.00400	1.00700	1.00400	1.01300	1.01100	1.0730
		1.06100	1.06900	1.06700	1.05100	1.04600	1.05500	1.04400	1.04800	1.04200	1.04300	1.04200	1.0380
Vyoming				1.00700		1.04000	1.05500						1.0380
.S. Average	1.02818	1.02890	1.03254	1.03460	1.02770	1.02014	1.02684	1.03474	1.04092	1.02101	1.02881	1.02794	1.0273

--- = Not applicable.

Where shown, R = Revised data.

Sources: See source listing at the end of this appendix.

Table B8. Approximate Heat Content of Coal Consumed by the Residential and Commercial Sector, Selected Years, 1960-1994 (Million Btu per Short Ton)

State	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabama	24.90955	24.77905	23.93285	23.51979	24.04242	24.40711	24.62888	24.64742	24.20442	24.24951	24.45597
Alaska		18.80731	18.16504	17.68304	24.04242	15.80000	15.80000	15.80000	15.80000	15.80000	15.80000
Arizona			10.10004			19.78800	18.69794	20.99769	21.90138	21.38908	25.03703
Arkansas					23.89952	22.99046	24.83396	25.96800	24.68871	23.97978	26.10174
		22.89238	22.11061		23.10930	23.55520	23.18400	23.14011	23.07808	23.20120	23.2401
California		22.83264									
Colorado			22.05291	20.82582	21.46057	21.21743	21.43489	21.57494	20.93156	21.83245	22.1445
Connecticut		24.40178	23.47600	22.27200	22.71900	23.03100	25.19900	25.26800	24.79498	24.09600	25.0535
Delaware		24.31600	23.47600	22.27200	23.14289	24.11686	24.85615	25.02730	24.71273	23.83238	23.8557
District of Columbia		24.97707	24.12411	23.24075	24.54122	24.88768	24.96081	25.04028	24.93794	24.98614	24.9571
Florida					24.28341	24.88200	24.86125	25.26805	23.34733	24.96116	24.9475
Georgia		24.61262	23.77210	23.49417	24.32123	24.83223	25.14330	25.18826	25.19263	24.99917	25.3432
Hawaii											
daho	24.83140	24.70130	23.85776	22.66294	22.29152	22.83215	22.47778	22.57314	22.43044	22.43248	22.47832
Ilinois	24.04164	23.91539	23.09871	22.52260	22.06925	22.26944	22.45162	22.59360	22.82204	22.61287	22.44937
ndiana		23.93847	23.12085	22.13233	21.88129	22.25860	22.46054	22.45911	22.45790	22.60689	22.6437
owa		21.20956	20.48526	18.27722	20.22308	21.40188	23.96001	24.08672	23.73387	23.46034	23.6224
Kansas		21.67400	20.93384		21.18218	21.14600	24.27951	24.51147	24.41040	22.71888	24.5134
Kentucky		24.28447	23.45391	23.17784	23.83696	24.34440	24.45011	24.71246	24.79925	24.87005	24.8633
ouisiana					21.36502			25.26800		24.09600	
Naine		24.70177	23.61235	22.51890	23.54561	24.27817	24.93701	25.24114	24.95461	24.67605	25.0370
Maryland		24.87495	23.94377	22.93823	24.04282	24.74887	25.06708	25.16569	25.13399	24.95297	25.2564
Massachusetts		24.49344	23.55718	22.43028	23.41739	23.77832	25.07028	25.21557	24.84729	24.43131	25.0290
Aichigan		24.62836	23.78687	23.46574	24.35257	24.46038	24.81175	24.88677	24.91422	24.72948	24.4807
/linnesota		21.85576	21.10939	19.25676	20.82860	19.14210	17.89230	17.73444	17.80440	18.36730	19.6052
Aississippi					22.99343	24.54115	24.85200	25.26800	24.61700	24.09667	
Aissouri		22.82147	22.04212	21.40447	21.80697	22.80191	21.93585	21.94880	22.01651	22.44298	22.86902
Montana		21.22380	20.49901	20.38911	22.04235	17.68025	18.78135	18.01546	18.17794	18.88756	18.05498
Nebraska		20.80366	20.09322	18.40616	18.03826	21.52621	21.37396	22.63244	21.59428	21.70581	21.88812
Nevada		25.04926	24.21082	23.32668	22.43015	23.56200	24.01028	23.14800	23.09600	23.20000	23.23600
New Hampshire	24.72100	24.31600	23.47600	22.27200	22.71900	23.03100	25.17092	25.26800	24.77167	24.09600	25.03700
New Jersey	24.72427	24.35398	23.48102	22.26344	22.71900	23.21834	25.17308	25.26177	24.71277	24.09600	25.03700
New Mexico		22.87255	22.09147		19.78553	19.81693	18.69800	18.63858	19.82432	19.35042	19.54379
New York		24.36019	23.49620	22.57414	23.33679	23.81886	24.85588	25.01257	24.73886	24.38320	25.04668
North Carolina		24.63240	23.79120	23.49258	24.42236	24.85944	25.18700	25.26828	25.03861	25.01550	24.99588
North Dakota	15.55018	15.46871	14.94046	13.75718	13.24298	13.13815	13.90962	13.90692	14.54945	14.76482	14.92006
Ohio		23.73246	22.92073	22.32478	23.20690	23.83693	24.14408	24.17839	24.36654	24.32312	24.33250
Oklahoma		22.60811	21.83605	20.67259	23.29143	23.39403	24.83400	25.96800	24.88048	23.89800	26.02613
Oregon		24.47612	23.64027	22.38275	22.72195	22.60723	23.18400	23.14800	23.09600	23.70388	23.86580
Pennsylvania		24.36478	23.54189	22.48706	23.15028	23.72419	25.11754	25.17103	24.87198	24.45001	25.05420
Rhode Island		24.31600	23.47600	22.27200	22.71900	23.03100	25.19900	25.26800	24.61700	24.09600	25.03700
South Carolina		24.63199	23.79081	23.49264	24.41433	24.85378	24.87489	25.13865	24.98263	24.88256	24.9498
South Dakota		19.30984	18.65041	16.85997	18.42630	19.36902	18.37453	17.50120	19.09582	17.29400	20.6170
ennessee		24.58404	23.74488	23.48019	23.96977	24.38903	24.74124	25.11263	24.27714	25.11816	25.1626
exas		14.87344	14.36552		15.20049	22.51056	25.89608	25.71797	21.70100	18.41093	26.1017
Jtah		25.75633	24.87676	23.74007	23.17910	23.56200	23.14974	23.14850	23.09571	23.20000	23.2420
ermont		24.31600	23.47600	22.27200	22.71900	24.39899	25.19900	25.26800	24.61700	24.09600	24.8320
/irginia		24.65237	23.81029	23.46220	24.41436	24.86362	25.08712	25.12517	25.13025	24.99384	24.9840
Vashington	22.90924	22.78922	22.01097	19.96772	22.77100	23.45190	21.73662	22.33357	22.18710	22.50221	22.4289
Vest Virginia		24.86595	24.01679	23.70919	24.05881	24.85990	25.01748	25.01572	24.94682	24.82827	24.9540
Visconsin		21.80607	21.06114	18.98021	24.26544	24.56793	24.97777	25.06509	25.03715	24.96032	24.9441
Vyoming		20.51732	19.81665	18.57163	17.80856	17.26200	19.93489	23.14964	18.91636	18.55083	18.4566
			00 00005	00.40046			00 00050	00 00044			00.0450
J.S. Average	23.94283	23.77600	22.98985	22.12012	22.89233	22.68213	23.02050	23.09941	23.14212	22.83810	22.9156

⁻⁻⁼ Not applicable.

Where shown, R = Revised data.

Table B9. Approximate Heat Content of Coal Consumed by the Residential and Commercial Sector, 1995-2007 (Million Btu per Short Ton)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Mahama	24.64589	24.63827	24.64215	25.47588	25.88280	25.45000	18.84468	24.23196	24.22414	24.22414	25.12953	24.29513	25.19517
Alabama Alaska		15.80000	15.84800	15.71000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000
Arizona		19.28500	19.10306	21.69872	21.95554	21.95554	18.81885	18.96261	18.65717	18.77970	18.95945	18.91365	19.70261
rkansas		13.20000	24.49708	25.08934	25.46394			25.20226		25.20226		25.20226	22.93197
California		23.28200	23.10055	23.62691	23.74003	23.79000	23.54564	25.20226	24.57779	22.39951	22.69029	23.54564	
Colorado		22.10652	18.71008	22.43624	22.48006	21.70600	22.42877	22.40126	22.49956	22.46007	22.38331	22.32441	22.41875
Connecticut		24.63800	24.49700	27.35000	27.53000	24.84184	25.19040	25.20226	25.17420	25.20226	25.20226	25.20226	25.20226
Delaware		24.93390	25.05444	26.90254	26.15092	26.11800	25.20226					R 25.20226	25.20226
District of Columbia		24.74271	24.57946	25.31000	25.30000	25.30000	24.69356	24.69356	24.69356	24.69356	24.69356		24.69356
Florida		25.04400		26.04235	25.97502	25.75000	23.49457	24.35506	24.70354		25.20226	25.20226	25.20226
Seorgia		25.04400	25.69800	25.65432	25.84901	25.64200	25.71566	25.71566		25.71415	24.87197		24.33092
Hawaii													
daho		21.72486	22.68311	19.71901	21.04956	22.06000	22.34782	22.07382	21.64352	18.44441	21.28274	21.54563	23.00660
Ilinois		22.68127	22.80243	21.96000	21.96000	21.95496	23.09564	23.07288	22.94355	22.88660	22.90367	22.93419	22.91509
ndiana		22.23182	22.19420	22.75000	25.00000	23.51901	22.30349	22.27207	22.38880	22.34328	22.45479	22.37152	22.35171
owa		24.52912	23.56166	24.41000	25.97000	26.10085	23.86811	24.17926	24.05462	23.39265	23.53537	23.40740	23.40796
(ansas	23.94481	24.10800	22.52800	24.68789	24.70725	24.15600	24.17185	24.02541	23.54564			23.54564	
Centucky		24.35637	23.26395	25.46950	26.23869	26.40800	24.90121	24.70391	24.37750	24.09277	24.06740	23.66777	23.69848
.ouisiana	25.07800		24.53000			23.48200							24.35479
faine		24.63800	24.49700	26.34731	26.08147	25.92200	25.19811	25.19627	25.20226	25.20226	25.20226	25.20226	25.20226
Maryland		25.08097	25.13840	25.31044	25.29975	25.07200	24.92243	24.61596	24.79575	24.69992	24.70913	24.73325	24.74548
Massachusetts		24.79549	24.70762	27.34861	27.53458	27.07000	25.39455	24.64837	24.99683	24.46855	24.96940	24.77280	24.63665
Michigan		24.84902	24.59315	24.80000	25.10000	25.09987	24.08681	23.59538	23.70301	24.50332	24.35677	24.37527	24.46919
/linnesota		17.54796	18.40880	19.25179	19.31135	19.29400	24.33092	17.38221	18.74383	20.36034	19.42854	17.78220	19.32423
Mississippi			24.49708										
Aissouri '	22.63423	22.66103	22.82574	22.00000	22.43000	22.01372	22.98069	23.14705	23.25095	23.19464	23.21647	23.19520	23.07965
Montana	21.22785	18.18800	17.85986	23.37560	17.09403	16.01600	18.22272	18.51422	18.41265	18.11776	18.12135	18.11776	18.11776
lebraska		24.63800	17.33200	20.74919			22.34669	22.39411	22.43902	22.39620	22.37023	22.29536	22.34906
Nevada		23.28200	23.09600	22.98804	23.10820	23.10820	19.61653	18.11776	18.11776	18.11776	18.11776	18.11776	22.34906
New Hampshire		24.84196	24.55195	27.35000	27.53000	25.92200	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226
New Jersey		24.63800	24.49700	25.22885	25.31653	25.50000	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226
New Mexico		19.32888	18.92150	24.76400	25.11200	25.21200	18.81885	18.78502	19.00920	19.24556	18.81298	18.92875	18.58149
lew York		24.82789	24.83757	25.45000	25.51000	25.31147	24.84639	25.09365	25.20226	24.99169	25.01044	24.85989	24.91799
North Carolina		24.83876	24.99447	26.70000	27.00000	27.00000	25.07997	24.82548	25.32901	24.77161	25.37342	25.11335	25.31826
lorth Dakota	15.53547	14.92702	14.93796	14.27578	14.26426	14.22800	16.00252	16.22776	16.37937	16.98175	18.09798	17.84725	15.91616
Ohio	24.43882	23.79691	23.89197	25.25000	24.14000	24.01316	24.11117	24.20238	24.14877	21.33540	23.98104	24.19434	24.12152
Oklahoma		26.12800	17.35345	19.93863	19.77893		24.21484	24.21484	24.21484		24.27606	24.55713	24.69356
Oregon			23.09600	22.00000	23.30868	23.30868							
Pennsylvania		24.70349	24.64969	25.26545	25.44396	26.38599	25.13691	25.10969	25.12376	25.10462	25.13163	25.12478	25.12626
Rhode Island		24.63800	24.49700	27.35000	27.53000	25.92200	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226
South Carolina		24.71660	24.97200	26.21051	26.34668			25.20226				24.33114	25.20226
outh Dakota	19.07166	21.61937	17.33200	19.76699	20.36609	20.86800	23.50629	17.38116	17.38116	17.38116	17.38116	17.38116	17.38116
ennessee		25.04338	25.02904	26.04000	26.04000	26.04538	24.45667	24.55328	23.83116	23.49719	24.70386	24.38566	24.53965
exas			25.51014	24.81832	16.25125	16.28000	25.62310	18.68536	19.22769	25.68290	25.71566	25.20226	25.20226
Jtah		23.28200	23.09345	23.54893	23.36625	23.21000	23.54375	23.54578	23.54700	23.54652	23.55080	23.54245	23.53943
ermont		24.63800	24.61419	27.35000	27.53000	25.92200	25.20226	25.20226	25.20226	25.20226	25.20226	25.20226	25.36313
/irginia		25.10405	24.92831	26.40706	26.45535	26.17391	25.04189	25.04500	24.92450	25.00427	24.85854	24.74545	24.77679
Vashington		23.09783	22.87154	26.60000	25.98000	25.96100	23.48820	23.50574	23.51911	23.51009		R 17.38116	17.38116
Vest Virginia	24.82246	24.68019	24.73754	25.76982	25.70998	25.74200	24.76458	24.74624	24.76538	24.71213	24.69710	24.71636	24.70421
Visconsin		25.05235	24.92021	27.45000	26.79000	27.65942	24.44771	24.30858	24.71652	24.32607	18.94545	24.35425	24.33542
Nyoming		18.19276	18.03000	20.31540	20.19004	20.11600	17.74573	17.83742	17.86023	17.87893	17.86891	17.89542	17.90731
· , · · · · · · · · · · · · · · · · · ·	10.2 1007	10.10210	10.00000	20.01010	20.10004	20.11000	11.1 1010	17.007 12	11.00020	17.07000	17.00001	_	17.00701
.S. Average	23.02709	22.71809	22.37879	23.27631	23.66758	23.36355	22.70619	22.44931	22.48756	22.31421	22.05262	R 21.91488	22.17880

--- = Not applicable.

Where shown, R = Revised data.

Sources: See source listing at the end of this appendix.

Table B10. Approximate Heat Content of Coal Consumed by Other Industrial Users, Selected Years, 1960-1994 (Million Btu per Short Ton)

State	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabama	25.17776	24.96027	23.54166	22.98960	24.10560	24.38311	24.67898	24.58103	24.64283	24.53557	24.6561
		19.25707	18.14004	17.68383	24.10300	24.30311	24.07090	24.36103	24.04203	15.80000	16.4647
\laska						20.25740	20.07050	19.94197	20.31671		20.1581
Arizona		21.42376	20.18105	19.77788	20.37305					19.99527	
Arkansas		25.20422		21.33575	21.40613	21.30956	22.80790	24.19421	24.00205	23.45115	24.8281
California		25.82250	24.32464	22.98540	22.17313	23.29909	22.52224	22.73094	22.97040	23.20026	23.2296
Colorado		23.35054	21.99607	21.39183	21.81821	21.56832	21.10513	21.08138	20.10740	20.93740	21.5687
Connecticut		25.55285	24.07063	23.62736		24.41914	25.19900	24.84324	24.93613	24.79454	25.2756
Delaware		25.12886	23.74325	23.44148	24.47242	24.71973	24.93784	25.07321	25.25103	25.20759	25.2445
District of Columbia	25.88358	25.65536	24.16719	23.78591	24.35746						
Torida				23.54145	22.89184	24.77766	25.00471	25.13081	25.00174	24.88237	24.9279
Seorgia	25.42319	25.19903	23.73733	23.50777	24.33122	24.81778	25.14819	25.13954	25.14655	25.10235	25.0726
ławaii						24.68800	24.81000	24.85000	24.83000	24.83000	21.5000
daho		22.34486	21.04872	19.93455	17.68403	17.76163	17.85823	17.75592	17.52799	18.16523	17.7436
llinois		23.63069	22.26726	21.69430	22.35658	22.79936	22.55646	21.86486	22.75432	22.86151	22.6543
ndiana		23.79938	22.41888	21.82415	22.25323	22.43118	22.71236	22.92005	22.95050	22.85609	22.6357
owa		23.33520	21.98253	21.31980	21.51657	22.61050	22.58587	22.19280	20.56822	20.16583	20.1105
Kansas		22.47098	21.16753	20.47974	21.56793	21.50635	24.22372	24.42437	24.48944	23.55304	23.9614
		24.49683	23.11929	22.90395	24.05911	24.51775	24.63342	24.90217	24.89135	24.83788	24.7579
Centucky		24.49003	23.11929	22.90393							18.4100
ouisiana					22.15263	24.05362	19.97897	18.36116	18.56416	18.41604	
Maine		25.62632	24.13365	23.97519	24.43949	24.86127	24.92375	25.01017	25.06970	24.97451	24.9612
Maryland		25.67570	24.18970	23.65802	24.48487	24.72752	25.11792	25.14601	25.20668	25.26143	25.4021
Massachusetts		25.90591	24.40195	23.79824	24.60203	24.84959	24.87740	24.92877	24.89677	24.90752	24.9645
lichigan		24.61006	23.18747	22.89244	24.04413	24.74112	24.45063	24.52149	24.40010	24.20802	24.2242
/linnesota		19.34921	18.22684	18.91730	17.08375	20.69045	18.56250	19.36088	18.52981	18.14535	18.5043
/lississippi	25.68109	25.45466	23.97813	23.21260	23.44243	23.39939	23.25386	23.26526	23.34142	24.01959	23.8945
Aissouri	23.60136	23.39246	22.03613	21.43028	22.00267	22.32881	22.98843	23.26695	23.43390	23.57812	23.0063
/lontana	22.82715	22.62588	21.31344	20.87854	19.03489	18.06841	18.37578	18.47768	18.78661	18.55546	18.3376
lebraska	21.97456	21.78080	20.51738	19.28537	19.19380	18.59708	19.05305	18.91741	18.44837	18.77025	19.1034
levada		26.14446	24.78307	23.42175	23.16143	23.56200	23.18400	23.14800	23.09600	23.20000	23.2360
lew Hampshire		24.23285	22.94496	23.36408	24.11207	24.62418	24.93865	25.26108	25.31936	24.98000	
lew Jersey		25.15576	23.71203	23.37734	23.52635	24.45329	25.23639	25.26680	25.33154	25.26040	25.0685
lew Mexico		22.83438	21.50984		21.86701	21.62540	21.38800	21.54400	20.39800	21.70600	21.9260
New York		25.48611	24.05437	23.63516	24.45387	24.85826	25.10824	25.19174	25.15526	25.14915	25.2062
North Carolina		25.22177	23.75876	23.49028	24.41869	24.88021	24.93830	25.10847	25.08579		25.1047
		14.68148	13.82987	13.03850	13.12013					25.14470 13.32920	13.4501
lorth Dakota						13.16040	13.48903	13.41305	13.32713		
Ohio		24.56848	23.14857	22.67582	23.33942	24.17814	24.30376	24.44410	24.42144	24.55123	24.5506
Oklahoma		25.15967		23.43863	21.21166	21.43419	22.80216	23.80519	22.75512	22.42776	21.0903
Oregon		22.47724	21.17342	20.34784	17.69347	17.86804	17.35230	17.33432	17.88959	19.00958	19.6975
ennsylvania		25.24913	23.88921	23.42998	24.11035	24.67778	24.92015	25.06594	25.08790	25.07589	25.1196
Rhode Island		24.31600	23.47600	22.96321	24.09889	24.41914	25.19900				
South Carolina		25.19405	23.75586	23.47287	24.39898	24.86134	25.11786	25.22595	25.19592	25.17487	25.0747
outh Dakota	19.90924	19.73370	18.58902	18.76511	19.21967	17.26200	17.33800	17.46595	17.29575	17.29400	17.2680
ennessee	25.05567	24.83269	23.41284	23.12927	24.14518	24.57948	25.13269	25.12446	25.25216	25.15832	25.0562
exas	16.85433	16.90156	17.88528	18.82484	16.29553	15.57653	14.78967	15.05322	14.31012	15.18809	15.4836
tah		25.96747	24.46120	23.64361	22.33114	22.27355	23.18867	23.12437	23.09600	23.49359	22.9216
ermont		26.29132	24.76626	24.05572	24.88781	24.26487	25.07890	25.74698	25.70000		
irginia		25.23740	23.77727	23.47269	24.44795	24.90014	25.06954	25.16480	25.19517	25.09637	25.0507
/ashington		25.72596	24.23369	23.54643	21.36337	21.63429	22.70686	21.74506	20.69363	20.21833	19.2753
Vest Virginia		25.29299	23.83024	23.52175	24.34671	24.84946	24.88832	24.99430	24.94736	24.93580	24.9782
Visconsin		24.37976	22.96605	21.95744	22.73534	23.32295	24.15041	24.30622	24.27108	23.95843	24.1616
Vyoming	20.53852	20.35742	19.17657	18.35566	17.95474	17.55529	22.17752	22.05079	21.11792	21.28174	21.7563
.S. Average	24.65746	24.46031	23.06438	22.29033	22.69605	22.24945	22.42959	22.45443	22.20892	22.16755	22.0282

--= Not applicable. Where shown, R = Revised data.

Table B11. Approximate Heat Content of Coal Consumed by Other Industrial Users, 1995-2007 (Million Btu per Short Ton)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alahama	24.84808	24.78508	24.67890	24.87433	24.87429	25.45000	25.56317	25.61134	25.60454	25.33626	24.56787	24.70862	24.93387
Alabama Alaska		15.80000	15.84800	15.71000	15.71000	15.71000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000	15.60000
Arizona		19.79709	19.54036	19.25030	19.23730	22.16400	21.90688	22.34502	22.40728	21.93836	22.16263	22.04758	21.48787
Arkansas		23.98664	23.58123	24.43193	24.43179	25.15400	24.92946	24.79729	24.30495	24.40426	25.22954	24.90428	24.60889
California		23.28200	23.05519	22.99659	22.99659	23.79000	24.12823	23.88255	24.16352	24.12961	23.65788	24.09150	23.72794
Colorado		21.57372	21.57222	21.26260	21.25734	21.70600	21.76792	23.37126	23.21756	22.77619	23.14017	22.74847	22.94668
Connecticut								20.07120	20.21700		24.69356		
Delaware		25.14560	25.21542	25.16859	25.16618	26.15092	26.08942	25.91692	25.68903	26.08198	26.36905	26.40967	26.37436
District of Columbia													
Florida		25.11598	25.05234	25.00217	25.00308	25.75000	25.72868	25.61772	25.50327	25.85017	25.82357	25.40963	25.43144
Georgia		25.13735	25.08994	25.07925	25.07909	25.64200	25.71929	25.89083	25.86071	25.66513	25.58213	25.67680	25.72364
Hawaii		21.50000	22.49862	23.04000	23.04000	19.51800	18.13971	13.21369	26.40000	23.76000	23.87597	27.96538	24.96357
daho		18.16585	17.33200	18.15972	18.15972	22.06000	20.56167	20.87305	20.27673	20.34949	20.57427	20.35847	20.11580
Illinois		22.84938	23.17145	23.04887	23.05062	22.55200	22.27503	22.00140	21.63749	21.35039	21.60585	21.65652	21.59127
ndiana		22.71535	23.18017	23.25752	23.26278	23.86600	24.72806	24.56617	24.09312	24.36426	23.44946	23.48307	23.72260
owa		21.30743	20.93210	21.17668	21.17762	20.98000	20.98995	20.46674	20.79014	20.23722	20.18304	19.83169	20.21639
Kansas		25.47579	24.52305	24.79541	24.79543	24.15600	23.38449	24.01263	24.28579	24.85503	24.51132	24.00164	23.95535
Kentucky		24.74520	24.48063	24.69544	24.69546	26.40800	26.07951	26.73192	26.18923	26.29921	26.08980	26.10292	25.46282
ouisiana	18.13611	25.01815	24.85731	25.18061	25.18061	24.50200	24.79641	24.38702	24.23213	24.62068	24.26804	24.09402	24.34344
Maine		25.02589	24.98213	24.50979	24.50979	25.92200	25.87095	25.85521	26.13598	25.57684	25.26999	25.43767	26.22635
Maryland		25.13270	25.11468	25.02943	24.99151	25.07200	26.15043	25.73619	25.39493	25.12167	24.44112	24.17387	24.46496
Massachusetts		24.90749	25.03547	24.47621	24.47621	27.07000	26.97528	27.05517	27.05441	27.23207	27.44733	26.26734	26.11529
Michigan		24.34533	24.35386	23.73938	23.73938	24.91200	25.09757	25.51789	25.63669	25.18729	25.02474	24.87818	25.23345
Minnesota		19.14046	18.86921	18.61519	18.61053	19.29400	19.46505	19.33533	18.93818	18.99910	18.99020	18.93201	19.04910
Mississippi	24.07263	23.90664	23.67600	24.07408	24.07408	23.92200	24.17841	24.36851	24.14262	23.32565	23.65026	24.16007	23.87344
Missouri	23.17545	23.13412	22.82012	22.90858	22.91315	23.12800	22.97924	23.15466	23.06086	23.00128	22.79619	22.73549	22.46448
Montana	18.09956	18.21032	18.24449	17.91315	18.02330	16.01600	16.45749	14.69448	14.62430	14.87796	14.69438	14.46974	14.78685
Nebraska	19.35912	18.82313	19.13176	19.07469	19.04352	20.50800	19.55943	20.50057	20.26782	20.10598	19.89831	19.42767	18.91903
Nevada	22.66808	22.61981	22.98074	23.13890	23.13890	23.28000	23.37973	23.05508	23.27639	23.02476	22.61537	22.65562	22.86834
New Hampshire	25.21628												
New Jersey		24.63800	24.49700	23.78144	23.53789	25.50000	24.80000	25.20000	25.24380	25.23317	25.20163	25.06377	
New Mexico	22.00800	21.97600	21.78800	21.98800	21.98800	25.21200	25.06600	24.75071	25.19525	24.67538	24.58808	24.56943	24.64852
New York		25.02823	25.16298	25.04125	25.04584	26.29400	25.53551	25.97046	26.07853	26.15033	26.37665	25.92775	26.25368
North Carolina	25.26890	25.14978	25.06093	25.06861	25.06878	26.49200	26.75042	26.39726	26.46086	26.32947	26.21123	26.25415	26.22276
North Dakota	13.35266	13.38232	13.28668	13.34170	13.34170	14.22800	14.17729	13.98412	14.31013	14.34435	14.27845	14.29338	14.28961
Ohio	24.51161	24.46949	24.43845	24.36431	24.36436	24.81600	25.03997	25.14220	25.08606	25.23022	25.10471	25.03739	25.19506
Oklahoma		22.23193	20.88353	23.32931	23.32931	19.88200	19.97336	20.14169	20.43344	21.17481	21.15552	20.51318	20.64326
Oregon		21.29915	20.52349	20.16974				22.26898	23.08909	21.85459	23.53227	24.54067	24.53553
Pennsylvania		25.06116	25.16267	24.90182	24.90660	24.47600	24.31768	24.11592	24.04275	23.71597	23.08512	22.68587	22.34064
Rhode Island													
South Carolina		25.06364	25.08769	25.03090	25.03144	26.27000	26.07798	26.33401	26.19595	25.98648	25.82668	25.74241	25.91484
South Dakota		17.30000	17.41854	17.51564	17.51564	20.86800	16.86083	16.85455	16.76268	16.61502	16.63025	16.64773	16.91576
Tennessee		25.02032	25.00384	25.02139	25.02261	26.08800	25.74152	26.03713	26.00196	25.99079	25.90898	25.92540	25.93565
Гехаs		15.34020	15.55204	14.23099	14.22843	16.28000	17.00044	17.70065	17.54537	17.09972	17.16594	17.29000	21.64758
Utah		23.28200	23.48885	23.05627	23.05627	23.21000	23.45310	23.01697	23.15785	21.02872	23.05499	23.16044	22.79889
/ermont			24.49700	24.44600	24.44600								
Virginia		25.09830	24.94586	24.86104	24.86104	26.38600	26.21774	25.65424	26.31620	26.25933	26.11264	26.05355	26.07739
Washington		19.65817	20.64702	23.00664	23.00664	22.33200	22.65849	22.06989	23.17996	21.86739	20.75241	21.28815	23.38872
West Virginia		24.93964	24.96660	24.78222	24.78182	25.74200	25.53245	25.44492	25.17669	24.56337	24.80656	24.95200	24.97023
Visconsin		23.89132	24.13111	24.27928	24.27942	23.69800	23.54541	23.45084	23.18524	23.15207	23.09987	22.71690	22.77891
Wyoming	21.94055	21.89685	21.58115	21.93124	21.93124	20.11600	19.98672	20.14835	19.84803	19.91358	19.75331	19.82848	19.84741
J.S. Average	22.11162	22.15728	22.18651	21.96645	21.88346	22.47646	22.65178	22.57467	22.51083	22.46391	22.17371	R 22.03646	22.37084

--- Not applicable.

Where shown, R = Revised data.

Sources: See source listing at the end of this appendix.

Table B12. Approximate Heat Content of Coal Consumed by the Electric Power Sector, Selected Years, 1960-1994 (Million Btu per Short Ton)

State	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994
Alabarra	24.12600	23.70400	23.31400	23.16350	00.04400	04.44440	24.29927	24.30955	24.25124	24.27176	24.21300
Alabama		17.85800	17.08000	17.40000	23.91189 15.80000	24.11116 15.80000	15.80000	15.80000	15.80000	15.80000	15.80000
Alaska		20.85000	21.23800	21.08957	21.24312	20.98564	20.95147	20.69528	20.65065	20.54730	20.56591
Arkanaa		20.65000	21.23000	21.06957	17.00887	17.20748	17.47750	17.45691	17.44748	17.33422	17.43423
Arkansas						17.20746	20.70330	21.48931	21.51984	20.36472	22.05471
California Colorado	•	21.32200	21.53000	19.80780	19.99201	19.49701	19.65952	19.84719	19.87082	19.84346	20.02006
		25.90800	23.54800	23.90400	19.99201	26.31651	25.80757	25.74956	25.73142	25.33500	25.53117
Connecticut		26.39200	24.18600	24.53412	24.92212	25.92406	26.06306	26.11092	26.12684	26.05616	25.90977
Delaware		26.94800	25.92000	25.61888	24.92212	25.92406	20.00300	20.11092	20.12004	26.03010	25.90977
District of Columbia		23.76200	22.74800	23.09252	23.68622	24.45038	24.81791	24.77806	24.30273	24.39829	24.22274
Florida		24.93200	23.75600	23.75121	23.80495	24.24094	23.63792	23.75845	23.97928	24.13074	23.32369
Georgia					23.00493		17.56757	17.30769	21.77202	22.25097	22.48571
Hawaii										22.25097	
Idaho		21.44800	21.00200	 20.25912	20.59267	20.96903	 21.58672	 21.43711	21.57668	20.73708	 20.56048
Illinois		22.46600	22.03000	21.22923	21.63186	21.31356	21.12450	21.11605	21.14148	21.10610	21.03393
Indiana		21.21800	20.88800	20.38486	18.63318	18.19661		17.77717	17.72343	17.42828	17.55983
lowa		24.19200	24.10000	19.95680	18.36976	17.53691	17.82578 17.84113	17.77717		17.34725	17.55983
Kansas		22.89200	21.85200		22.91705	22.76930		23.04490	17.72963	23.35765	23.33411
Kentucky		16.03793		21.48102		16.90673	23.09104 16.42027	16.44092	23.21940 16.24591	16.24590	16.27974
Louisiana						16.90673	28.00000	26.19913	25.50211	25.50000	25.50211
Maine		26.37200	24.61200	24.32290	24.75727	25.32555		25.59031	25.50211	25.50000	25.64576
Maryland							25.47905				
Massachusetts		26.07200	23.26000	24.34726	26.75129	26.56066	26.12189	26.27022	26.14894	25.90039	25.64677
Michigan		24.80400	24.20200	23.66213	24.02458	23.39292	22.24344	22.09388	22.00826	21.78981	21.91547
Minnesota		22.17600	20.27400	17.94022	17.55670	17.45075	17.64386	17.66237	17.72078	17.75298	17.68430
Mississippi		24.89000	24.09800	23.16389	23.99361	24.25244	25.11539	25.11886	25.02120	24.68746	22.61120
Missouri		21.55000	21.51800	21.49363	21.30576	21.28922	20.75755	20.57265	20.60369	19.78479	19.34971
Montana		13.14000	15.47400	15.95909	17.00328	17.30703	17.10463	17.03682	17.13824	16.98078	16.98694
Nebraska		24.56800	23.91400	20.95357	18.80879	17.29876	17.12467	17.08491	17.10644	17.13093	17.16925
Nevada		25.48800	25.65400	22.38788	22.07779	22.76835	22.19062	22.25653	22.08991	22.05208	22.60884
New Hampshire		27.90400	27.43200	26.70098	26.81635	26.90451	26.64473	26.52078	26.52041	26.34608	26.10531
New Jersey		26.45784	24.94400	25.40124	26.18199	26.47525	26.83090	26.76530	26.88122	26.86979	26.58017
New Mexico		18.00400	17.96600	17.84874	17.69514	18.37577	18.23374	18.21130	18.02430	17.98831	18.08926
New York		26.67800	24.66400	24.05032	24.63519	25.20035	25.71847	25.85121	25.90782	25.79884	25.90120
North Carolina	26.24200	25.81400	24.11400	23.78836	24.53799	24.97487	25.19066	25.12432	25.03817	25.03573	24.96001
North Dakota		13.91800	13.66600	13.34445	13.23368	13.15028	13.26794	13.20103	13.12054	13.14975	13.18614
Ohio		23.56400	22.50000	21.91934	22.88041	23.62539	23.77469	23.89863	23.92793	24.08432	23.90231
Oklahoma		24.00000	25.07600	25.07607	17.39280	17.16768 16.58400	17.79161	17.88450	17.73038	17.57122	17.54149 17.87420
Oregon					16.39258		16.69555	16.85837	19.28304	17.60130	
Pennsylvania	23.43570	24.09503 27.46800	23.34132	23.49794	24.17625	24.44508	23.35218	23.46570	23.01454	22.94278	22.58965
Rhode Island					04.04005					25.59571	
South Carolina		25.82200	24.27400	24.16051	24.84295	25.13214	25.30294	25.45216	25.63625		25.54903 12.94018
South Dakota		17.90400	16.57200	12.61613	12.59940	12.20986	13.20310	13.05575	13.07256	12.95171	
Tennessee		23.59000	22.59400	21.98283	23.25397	23.65727	23.94393	24.33412	24.35048	24.52504	24.36212
Texas		 25 19400	 24 91200	13.10305	14.79112	14.80734	14.57822	14.45537	14.46625	14.75740	14.76697
Utah		25.18400	24.81200	23.64976	22.90042	23.60722	23.00247	22.88724	22.79854	22.81283	22.67316
Vermont		27.34000	24.87000	25.74400	25.92600	25.62800	 25 46145	 25 56200	 25 60500	25 67402	 25 62715
Virginia		26.47400	24.78200	23.93019	25.01317	25.62794	25.46145	25.56398	25.69509	25.67493	25.62715
Washington		 22 72600	 22 21800	16.20000	16.20000	16.20000	16.27013	16.01428	16.37870	16.24657	16.80124
West Virginia		23.73600	23.31800	23.22075	24.26929	24.82719	24.93097	24.92569	24.75582	24.27763	24.40917
Wisconsin		24.03600	22.44600	21.23552	20.52333	19.54733	19.11105	19.16292	19.19254	18.82005	18.99358
Wyoming	14.84600	15.99000	16.53400	16.62585	17.59029	17.50962	17.68200	17.55373	17.70171	17.60368	17.58637
U.S. Average	23.92159	23.78120	22.57470	21.65048	21.35691	21.02274	20.77650	20.72774	20.70652	20.67519	20.58686

--= Not applicable. Where shown, R = Revised data.

Table B13. Approximate Heat Content of Coal Consumed by the Electric Power Sector, 1995-2007 (Million Btu per Short Ton)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alahama	23.71814	23.62530	23.23960	23.11732	22.19134	22.06190	21.89221	22.45197	21.79318	R 21.47523	21.61294	21.54145	21.67367
Alabama Alaska		15.80000	15.80000	16.90141	16.65753	16.57100	16.53408	16.13460	16.26433	R 16.04137	15.27687	R 15.30578	15.08520
Arizona		20.44148	20.34739	20.38344	20.50387	20.42598	20.30467	20.30611	20.19154	R 20.39898	20.28681	20.26956	19.97240
Arkansas		17.39802	17.41297	17.34710	17.30255	17.35216	17.41107	17.28087	17.01818	R 16.97861	16.95471	16.95785	16.97025
California		23.45821	21.85178	22.24980	23.45239	23.50623	23.53335	23.59704	24.40935	R 24.37754	23.71536	R 24.38820	24.31097
Colorado		19.90650	19.73791	19.76528	19.55575	19.68516	19.56638	19.57370	19.46454	R 19.66264	19.81655	19.60565	19.60517
Connecticut		25.61007	25.78092	25.60594	24.57017	24.54238	24.57295	22.61785	20.35817	R 20.58489	20.22853	20.32643	20.58579
Delaware		26.03587	26.13235	25.90669	25.85637	25.89995	22.85394	24.64016	24.86200	R 24.57168	24.28918	24.63733	24.81605
District of Columbia													
Florida		24.38155	24.32881	24.27066	24.36377	24.39667	24.19654	24.47833	24.54170	R 24.31041	24.23466	24.05163	24.03623
Georgia		23.07567	23.26596	23.34800	23.25969	23.17564	23.32263	23.27634	23.19329	R 21.86980	21.87928	21.90760	21.95509
Hawaii		21.99277	21.86457	21.98890	21.92900	21.96268	21.95915	22.85558	22.78043	R 22.38158	22.18415	R 22.07703	22.12487
daho													
llinois		20.09605	19.81497	19.95586	19.88917	19.00766	18.96250	17.98552	18.05192	R 17.94055	17.68141	17.55926	17.49529
ndiana		20.75962	20.84809	20.99836	21.17079	21.18776	21.07405	20.63657	20.77922	R 20.93030	21.19063	21.07852	20.92302
owa		17.36788	17.35340	17.75846	17.74086	17.74159	17.75174	17.45934	17.40657	R 17.36765	17.28278	17.29399	17.23753
Kansas		17.63768	17.53745	17.39772	17.28344	17.35757	17.40822	17.09551	17.07787	R 17.18522	17.00119	17.17619	17.14540
Kentucky	23.29869	23.07877	23.16404	23.09505	23.10287	23.21985	22.85597	23.02596	22.91007	R 22.74220	22.82043	22.85545	23.22461
ouisiana	16.16720	16.32941	16.25260	16.19171	16.29411	16.06360	16.02309	15.78423	15.83440	R 15.94059	15.95451	16.12599	16.05320
/laine		25.50000	26.00000	25.50000	25.50065	25.50206	25.50913	25.67508	26.34278	R 25.70556	25.85265	25.64576	26.24601
Maryland		25.77953	25.82604	25.83073	25.87305	25.58099	25.39357	25.94153	25.26517	R 25.16647	25.23948	25.19092	25.00874
Massachusetts		25.28340	25.12795	25.11719	25.17950	25.13633	24.58141	24.98333	24.27228	R 23.58180	23.16258	23.10606	22.92145
lichigan	21.37664	21.04777	21.18818	21.17513	21.03606	20.87626	20.35290	19.80311	19.72285	R 19.57401	19.80124	19.85214	19.72277
Minnesota	17.69994	17.86324	17.81417	17.80430	17.81200	17.88333	17.84650	17.52943	17.68778	R 17.63046	17.64381	17.63271	17.68637
/lississippi		21.98747	20.96791	21.25237	22.11560	23.07236	23.34428	19.15204	18.37832	R 18.21681	17.76711	17.96529	18.34497
Missouri		18.16688	17.97357	17.86978	17.90978	17.83803	17.83536	17.58855	17.52202	R 17.54298	17.62647	17.53874	17.55256
Montana		16.87895	16.81662	16.83133	16.84815	16.76161	16.76781	16.92120	17.00369	R 16.98414	16.87603	16.85404	16.83440
Nebraska		17.19019	17.19342	17.16400	17.00357	17.26387	17.16865	17.18567	17.23930	R 17.08372	17.13192	17.01431	17.01089
Nevada		22.27863	22.36387	22.40233	22.49028	22.46450	22.42843	20.35415	22.53116	R 22.19888	22.40665	22.79904	22.68834
New Hampshire		26.25812	26.12156	26.28170	26.33989	26.26371	26.10294	26.03410	26.06670	R 26.14847	25.58350	27.36274	27.57257
lew Jersey		26.07115	26.01541	26.14646	26.14399	26.10622	26.00633	25.70562	25.49757	R 25.38477	25.04601	25.00918	23.93050
New Mexico		18.22953	18.14272	18.16905	18.26593	18.38786	18.50342	18.57152	18.35153	R 18.44824	18.54649	18.52520	18.42953
New York		25.83610	26.01414	26.04338	26.10032	26.09609	26.03933	25.59208	25.09965	R 24.07395	23.48868	22.91565	22.94660
North Carolina	25.05575	24.94896	24.80074	24.85444	24.94669	24.96554	24.69647	24.61092	24.69934	24.59170	24.63823	24.38898	24.58092
North Dakota		13.18832	13.09621	13.12410	13.09452	13.05680	13.08158	13.00238	12.83980	R 12.93326	13.19614	13.07231	13.17149
Ohio		24.07984	23.78736	23.81224	23.85473	23.54852	23.09420	23.27825	23.48272	R 23.41907	23.03406	22.81731	22.70491
Oklahoma		17.48181	17.58891	17.67738	17.56985	17.71738	17.64096	17.63499	17.58214	R 17.58994 R 16.87994	17.40067	17.43083	17.41296
Oregon		17.56340 22.62252	17.51550 22.70900	17.37069 22.84248	17.92307 23.02907	17.27270	17.41227 22.44516	17.00023 23.56468	17.12684 22.98280	R 22.89989	16.83949 22.49018	16.72021 22.22317	16.73586 22.28607
Pennsylvania Rhode Island			22.70900	22.04240	23.02907	23.16297	22.44516	23.30408	22.98280	22.89989	22.49018	22.22317	22.20007
		25.52136	25.70091	25.55763	25.56171	25.40681	25.12150	24.67291	24.99159	R 24.89171	24.83801	24.93642	24.88119
South Carolina		18.32551	17.62504	17.75382	17.46863	17.18875	17.08216	16.95465	16.94182	R 16.95634		16.94489	16.93546
South Dakota Tennessee		24.22004	23.99457	24.23173	24.26070	24.20313	24.17211	23.03553	22.89925	22.64532	17.19573 22.02668	21.96961	21.69786
ennessee exas		14.98921	23.99457 15.01066	15.05700	15.01573	15.19314	15.33008	23.03553 15.44303	15.24670	R 15.27875	15.38507	15.44616	15.24276
Itah		22.76216	22.40057	22.31132	22.90924	22.92554	22.74758	22.51816	22.30324	R 22.08183	21.70165	22.04669	22.30438
/ermont				22.51152	22.90924			22.51010	22.50524	22.00103	21.70103		22.50450
/irginia		25.25975	25.15090	25.22663	25.45736	25.67355	25.37158	25.42008	24.39707	R 24.46977	24.70347	24.82489	25.05643
Vashington		15.86645	16.08781	16.43364	16.46003	16.19347	16.00174	15.99992	15.79913	R 16.01380	15.83882	16.27828	16.28884
Vest Virginia		24.50303	24.54181	24.37571	24.47831	24.33315	24.14704	24.20576	24.18395	R 24.05641	23.71011	23.83154	24.06430
Visconsin		18.47512	18.67642	18.65018	18.59654	18.88566	18.70978	19.23048	18.27612	R 18.34803	19.31630	17.80872	17.8131
Nyoming		17.47664	17.65017	17.63874	17.61607	17.63312	17.72695	17.43899	17.79030	R 17.64503	17.56342	17.38634	17.28076
.,	17.07101	17.17004	17.00017	17.0007	11.01007	11.00012	11.12000	11.10000	17.75000	11.04000	11.000-12	17.50004	17.20070
J.S. Average	20.54157	20.54538	20.51618	20.51614	20.48955	20.51062	20.33690	20.23817	20.08181	R 19.98002	19.98765	19.93054	19.90845

--- Not applicable.

Where shown, R = Revised data.

Sources: See source listing at the end of this appendix.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. EIA adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel for "Gasoline, Aviation" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil (Including Lease Condensate) Used Directly. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculated 3.308 million Btu per barrel on the basis of an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950.

Liquefied Petroleum Gases. (LGTCKUS) • 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: Calculated annually

by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor, listed in this appendix, and dividing the sum of those heat contents by the sum of the quantities consumed. The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Quantities consumed are from: 1967 through 1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual," Table 1. 1981 through 2004: EIA, *Petroleum Supply Annual*, Table 2. 2005 forward: EIA, *Petroleum Supply Annual*, Table 1.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Motor Gasoline. (MGTCKUS) • 1960 through 1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947-1985*, a 1968 release of historical and projected statistics. • 1994 forward: EIA calculates national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table B1). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in the Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, *Fuel Economy Impact Analysis of Reformulated Gasoline*.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu per barrel, equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha Less Than 401 °F. EIA assumed the thermal conversion factor to be 5.248 million Btu per barrel, equal to that for special naphthas. See **Special Naphthas**.

Petrochemical Feedstock, Other Oils Equal to or Greater Than 401 °F. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel, equal to that for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstock, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Value of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30,120,000 Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6–1300–M and successor EIA forms.

Petroleum Products, Total Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

Plant Condensate. EIA estimated 5.418 million Btu per barrel from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, equal to that of asphalt and first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970. See **Asphalt**.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, equal to that of total gasoline (aviation and motor) and first published in the *Petroleum Statement, Annual, 1970*.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel and first published in the *Petroleum Statement, Annual, 1970*.

Unfinished Oil. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel, equal to that for distillate fuel oil and first published in the *Annual Report to Congress, Volume 3, 1977.* See **Distillate Fuel Oil**.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel, equal to that for plant condensate and first published in the EIA, *Annual Report to Congress, Volume 2, 1981.* See **Plant Condensate**.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the EIA, *Petroleum Statement, Annual, 1956.*

Approximate Heat Content of Natural Gas

Natural Gas, Total Consumption. (NGTCKZZ) • 1960 through 1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.* • 1963 through 1979: EIA adopted the thermal conversion factors calculated annually by the American Gas Association (AGA) and published in *Gas Facts,* an AGA annual. • 1980 through 1996: EIA, *Historical Natural Gas Annual 1930 Through 2000,* Table 16. • 1997 forward: EIA, *Natural Gas Annual,* Table 16, http://www.eia.doe.gov/oil gas/natural gas/data publications/natural gas annual/nga historical.html and unpublished revisions.

Natural Gas, Consumption by the Electric Power Sector. (NGEIKZZ) • 1960 through 1971: Assumed by EIA to be equal to the thermal conversion factor for the consumption of natural gas by all users. See Natural Gas, Total Consumption. • 1972 through 1982: Calculated annually by EIA by dividing the total heat content of natural gas received at steam electric plants 25 megawatts or greater by the total quantity

received at those electric plants. The heat contents and quantities received are from the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." • 1983 through 1988: The average heat content of natural gas received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published from 1993 forward in Btu per cubic foot in the EIA, Cost and Quality of Fuels for Electric Utility Plants, Table 14, http://www.eia.doe.gov/ cneaf/ electricity/cg/cg sum.html. Note: For States that reported consumption on EIA-759 but were not large enough to report on FERC Form 423, factors were estimated by using previous years' factors or the factor for total natural gas consumption in the State. • 1989 forward: Calculated by dividing the total heat content of natural gas received at electric power plants (including electric utilities, nonutility power plants and combined heat-and-power plants) by the total quantity consumed in physical units collected by the EIA on Forms EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906 920.html.

Approximate Heat Content of Coal and Coal Coke

Coal, Consumption at Coke Plants. (CLKCKZZ) • 1960 through 1997: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS. — Anthracite conversion factor (for all end-use sectors) sources: -1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." — Bituminous coal and lignite conversion factor sources: -1960 through 1972: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coal-Bituminous and Lignite," sum of columns "Beehive coke plants" and "Oven coke plants." -1973 through 1984: EIA, Weekly Coal Production, August 9, 1986, Table 8. -1985 through 1987: EIA, Weekly Coal Production, July 16, 1988, Table 7. -1988 through 1997: EIA, Unpublished data from Form EIA-5. • 1998 through 2000: Average total coal factors by State calculated by EIA using unpublished data from Form

EIA-5. The 1998 State factors are used for 1999 and 2000. • 2001 forward: Calculated by EIA from data reported on Form EIA-5, "Quarterly Coal Consumption and Quality Report, Coke Plants." Coke plant data on tons of coal carbonized to create coke, the volatilities of the coal carbonized, and conversion factors based on coal volatility are used to calculate average conversion factors by State.

Coal, Consumption by the Electric Power Sector. (CLEIKZZ) • 1960 through 1988: Calculated by EIA as the consumption-weighted average of national- level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS. — Anthracite conversion factor sources: -1960 through 1972: Energy Information Administration (EIA) assumed that all anthracite consumed at electric utilities was recovered from culm banks and river dredging and was estimated to have an average heat content of 17.500 million Btu per short ton. -1973 through 1988: Calculated annually by EIA by dividing the heat content of anthracite receipts at electric utilities by the quantity of anthracite received at electric utilities. These data are reported on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and predecessor forms. — Bituminous coal and lignite conversion factor sources: -1960 through 1972: EIA adopted the average thermal conversion factor of the Bureau of Mines, which used the National Coal Association (NCA) average thermal conversion factor for electric utilities calculated from the Federal Power Commission's (FPC) Form 1 and published in *Steam Electric Plant Factors*, an NCA annual report. The specific tables are: -1960 and 1961, Table 1. -1962 through 1972, Table 2. -1973 through 1982: The average heat content of coal received at steam electric plants 25 megawatts or greater from FPC Form 423 and published in Btu per pound in EIA, Cost and Quality of Fuels for Electric Utility Plants, tables titled "Destination and Origin of Coal 'Delivered to' (1973–1979) 'Receipts to' (1980) 'Received at' (1981–1982) Steam-Electric Plants 25-MW or Greater." -1983 through 1988: The average heat content of coal received at steam electric plants 50 megawatts capacity or larger from FERC Form 423 and published in Btu per pound in the EIA, Cost and Quality of Fuels for Electric Utility Plants. The 1997 edition is available electronically only via Internet at: http://tonto.eia.doe. gov/bookshelf/index.html, click on "Electricity." The specific tables are: -1983 and 1984, Table 58. -1985 through 1988, Table 48. Notes: The State conversion factors for 1960 through 1972 were derived from actual consumption data, while the conversion factors for 1973 to 1988 were based on receipts of coal. The factors for 1960 through 1972 may also

have included some quantities of anthracite. These breaks in the series create some data discrepancies. In instances where a State had no receipts for a particular year but did report consumption, it was assumed that the coal received in one year was consumed during the following year and the Btu value of the previous year's receipts was used. • 1989 forward: Calculated by dividing the total heat content of coal received at electric power plants (including electric utilities, nonutility power plants and combined heat-and-power plants) by the total quantity consumed in physical units collected on Forms EIA-906, "Power Plant Report," and the EIA-920, "Combined Heat and Power Plant Report," and predecessor forms http://www.eia.doe.gov/cneaf/electricity/page/eia906 920.html. • Alaska factors: The sources used to develop thermal conversion factors for bituminous coal and lignite consumed by the electric power sector—the National Coal Association report and the Federal Power Commission's (FPC) Form 423 and FERC Form 423 published in the Cost and Quality of Fuels for Electric Utility Plants—exclude Alaska. However, Alaska reported consumption of bituminous coal and lignite at electric utilities for all years, 1960 forward. Unpublished FPC heat rates for coal at electric utilities in Alaska were used for 1960 through 1972. The 1972 conversion factor (the last year for which a conversion factor was reported for Alaska) was used for 1973 through 1978. According to industry sources, new mines were opened in 1978 and a more representative factor was used for 1979 through 1997. From 1998 forward, the Alaska factor is calculated using the same methodology as is used for other States, described above.

Coal, Consumption by Other Industrial Users. (CLOCKZZ) • 1960 through 1997: Calculated by EIA as the consumption-weighted average of national level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS. — Anthracite conversion factor sources: -1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." — Bituminous coal and lignite conversion factor sources: -1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average. -1974 through 1997: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other

than coke plants in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q. • 1998 through 2000: The average heat content of coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal during the year from Form EIA-3A and published in Btu per pound in the EIA *Annual Coal Report* and predecessor publications. • 2001 forward: Calculated by EIA using unpublished data as the average heat content of (1) coal received at manufacturing plants (other than coke plants) consuming more than 1,000 short tons of coal annually from Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing Plants," and predecessor forms; (2) coal distributed to agricultural, mining, and construction sectors reported on Form EIA-6A, "Coal Distribution Report -Annual" with heat contents for the coal producing State reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants;" and (3) coal consumed by coal mining facilities reported on Form EIA-7A, "Coal Production Report," with heat contents for the coal producing State reported on FERC Form 423 and Form EIA-423.

Coal, Consumption by Residential and Commercial Users. (CLHCKZZ) • 1960 through 1997: Calculated by EIA as the consumption-weighted average of national-level anthracite conversion factors and State-level bituminous coal and lignite factors using factors and consumption from SEDS. — Anthracite conversion factor sources: –1960 through 1997: Calculated annually by EIA by dividing the heat content of anthracite produced less the heat content of the anthracite consumed at electric utilities, net exports, and shipments to U.S. Armed Forces overseas by the quantity of anthracite consumption by all sectors other than the electric utility sector less the quantity of anthracite stock changes, losses, and "unaccounted for." — Bituminous coal and lignite conversion factor sources: –1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed in the residential and commercial sector by the ratios of 1960 through 1973 national averages for the sector to its 1974 average. –1974 through 1997: Calculated by EIA by

assuming that the bituminous coal and lignite consumed in the residential and commercial sector in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on the Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The average Btu content of coal delivered from each coal-producing district was applied to deliveries to the residential and commercial sector in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q. • 1998 through 2000: The average heat content of coal received for the residential and commercial sectors as reported on the EIA-860. For States that are not represented in data on the EIA-860, it is assumed that the heat content of the coal receipts in theses sectors is equivalent to the heat content of coal received in the other industrial sector. For States that are not represented in either the EIA-3A data or the EIA-860 data (CT, NH, VT and DC), the heat content of coal receipts in MA is used for CT, NH, and VT and the heat content of coal receipts in MD is used for DC, since the origin of the coal receipts are similar. • 2001 forward: Calculated by EIA from the coal distribution data reported on Form EIA-6A, "Coal Distribution Report - Annual," and the average heat content of coal reported on FERC Form 423 and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants." Form EIA-6A provides distribution data for the combined residential and commercial sectors by State of origin to the destination State. FERC Form 423 and Form EIA-423 provide the average heat content of coal produced in the State of origin.

Coal, Consumption by Transportation Users. (CLACKZZ) • 1960 through 1977: Assumed by EIA to be equal to the Btu conversion factor for bituminous coal and lignite consumption by industrial users other than coke plants: –1960 through 1973: Estimated by EIA by adjusting the 1974 average heat value of bituminous coal and lignite consumed by industrial users other than coke plants by the ratios of 1960 through 1973 national averages for the other industrial users to its 1974 average. –1974 through 1977: Calculated by EIA by assuming that the bituminous coal and lignite consumed by industrial users other than coke plants in each State contained heating values equal to those of bituminous coal and lignite received at electric utilities in each State from identified coal-producing districts as reported on Federal Energy Regulatory Commission (FERC) Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." The

average Btu content of coal delivered from each coal-producing district was applied to deliveries to other industrial users in each State and the sum total of the heat content was divided by total tonnages, yielding a weighted average. The coal distribution data by coal-producing district are reported on Form EIA-6, "Coal Distribution Report," and predecessor Bureau of Mines Form 6-1419-Q. • 1978 forward: Transportation sector coal is included in the other industrial category. Zero is entered for this variable.

Coal Coke, Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Approximate Heat Content of Renewable Energy Sources

Fuel Ethanol. Fuel ethanol, which is derived from agricultural feedstocks (primarily corn) and blended into motor gasoline, is computed separately in SEDS to display the use of renewable energy in the commercial, industrial, and transportation sector. EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Wood, Consumption by the Residential and Commercial Sectors. Estimated by EIA to be 20 million Btu per cord of wood. This rough average factor takes into account a number of variables, such as moisture content and species of wood, as explained in the EIA, *Household Energy Consumption and Expenditures 1993*, page 314.

Approximate Heat Rates for Electricity

Fossil-Fueled Steam-Electric Plant Generation. (FFETKUS) There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, biomass fuels, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA uses

data from Form EIA-767 to calculate a rate factor that is equal to the prevailing annual average heat rate factor for fossil-fueled steam-electric power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu per kilowatthour. • 1960 through 1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in Electric Plant Cost and Power Production Expenses 1991, Table 9. • 1989 through 2000: Calculated annually by EIA by using heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. • 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-906, "Power Plant Report." The computation includes data for all electric utilities and electricity-only independent power producers using fossil fuels.

Geothermal Energy Plant Generation. (GEETKUS) • 1960 through 1981: Calculated by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on FPC Form 12. • 1982 forward: Estimated annually by EIA based on an informal survey of relevant plants.

Nuclear Steam-Electric Plant Generation. (NUETKUS) • 1960 through 1984: Calculated annually by EIA by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported on FERC Form 1, Form EIA-412, and predecessor forms. The factors for 1982 through 1991 are published in the following EIA reports—1982: Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215; 1983 and 1984: Electric Plant Cost and Power Production Expenses 1991, Table 13. • 1985 forward: Calculated annually by EIA using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms), and the generation reported on Form EIA-906, "Power Plant Report" (and predecessor forms).

Appendix C

Resident Population

The population data used in the Energy Information Administration State Energy Data System (SEDS) to calculate per capita consumption are shown in Tables C1 through C5. The data are the U.S. Department of Commerce, Bureau of the Census, resident population estimates by State. The reference date for the estimates is July 1 of each year.

The sum of the State estimates may not match the U.S. estimates. More recent revisions to the U.S. estimates have been incorporated into the U.S. tables available on the Census Bureau website that are not included in the State estimates.

Data Sources

TPOPPUS — Resident population of the United States.

- 1960 through 1989: U.S. Department of Commerce, Bureau of the Census http://www.census.gov/popest/archives/1990s/popelockest.txt
- 1990 through 1999: U.S. Department of Commerce, Bureau of the Census, Internet Release http://www.census.gov/popest/archives/2000s/vintage 2001/CO-EST2001-12/
- 2000 forward: http://www.census.gov/popest/states/NST-ann-est.html

TPOPPZZ — Resident population by State.

- 1960 and 1970: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States, 1980, Section 1 Population, "No. 10. Resident Population--States: 1950 to 1979".*
- 1980: U.S. Department of Commerce, Bureau of the Census, http://www.census.gov/popest/archives/1980s/s5yr8090.txt
- 1960 through 1989: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, "Population Estimates and Projections," Series P-25. Specific publication numbers and table numbers:
 - 1961 through 1969: Number 460, Table 1.
 - 1971 through 1979: Number 957, Table 4.
 - 1981 through 1989: Number 1058, Table 3.
- 1990 through 1999: U.S. Department of Commerce, Bureau of the Census, Internet Release http://www.census.gov/popest/archives/2000s/vintage_2001/CO-EST2001-12/index.html
- 2000 forward: http://www.census.gov/popest/states/NST-ann-est.html

Table C1. Resident Population by State, 1960-1969 (Thousand People)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Alabama	3.274	3,316	3,323	3,358	3,395	3.443	3,464	3,458	3.446	3.440
Alaska	229	238	246	256	263	271	271	278	285	296
Arizona	1,321	1.407	1,471	1,521	1,556	1.584	1.614	1,646	1.682	1.737
Arkansas	1,789	1,806	1,853	1,875	1,897	1,894	1,899	1,901	1,902	1,913
California	15,870	16,497	17,072	17,668	18.151	18.585	18,858	19.176	19,394	19.711
Colorado	1.769	1,844	1,899	1,936	1,970	1.985	2,007	2,053	2,120	2,166
Connecticut	2,544	2,586	2,647	2,727	2,798	2,857	2,903	2,935	2,964	3,000
Delaware	449	461	469	483	497	507	516	525	534	540
District of Columbia	765	778	788	798	798	797	791	791	778	762
Florida	5,004	5,243	5,458	5,628	5,781	5,954	6,104	6,242	6,433	6,641
Georgia	3,956	4,015	4,086	4.172	4,258	4,332	4,379	4,408	4,482	4,551
Hawaii	642	659	684	682	700	704	710	723	734	750
daho	671	684	692	683	680	686	689	688	695	707
	10.086	10,130	10,280	10,402	10,580	10.693	10,836	10,947	10,995	11,039
Illinois	- /							5,053		5,143
ndiana	4,674	4,730	4,736	4,799	4,856	4,922 2,742	4,999		5,093	
owa	2,756	2,756	2,750	2,747	2,746		2,762	2,793	2,803	2,805
Kansas	2,183	2,215	2,231	2,217	2,209	2,206	2,200	2,197	2,216	2,236
Kentucky	3,041	3,054	3,079	3,096	3,129	3,140	3,147	3,172	3,195	3,198
Louisiana	3,260	3,287	3,345	3,377	3,446	3,496	3,550	3,581	3,603	3,619
Maine	975	995	994	993	993	997	999	1,004	994	992
Maryland	3,113	3,176	3,263	3,386	3,492	3,600	3,695	3,757	3,815	3,868
Massachusetts	5,160	5,219	5,263	5,344	5,448	5,502	5,535	5,594	5,618	5,650
Michigan	7,834	7,893	7,933	8,058	8,187	8,357	8,512	8,630	8,696	8,781
Minnesota	3,425	3,470	3,513	3,531	3,558	3,592	3,617	3,659	3,703	3,758
Mississippi	2,182	2,206	2,243	2,244	2,241	2,246	2,245	2,228	2,219	2,220
Missouri	4,326	4,349	4,357	4,392	4,442	4,467	4,523	4,539	4,568	4,640
Montana	679	696	698	703	706	706	707	701	700	694
Nebraska	1,417	1,446	1,464	1,476	1,482	1,471	1,456	1,457	1,467	1,474
Nevada	291	315	352	397	426	444	446	449	464	480
New Hampshire	609	618	632	649	663	676	681	697	709	724
New Jersey	6,103	6,265	6,376	6,531	6,660	6,767	6,851	6,928	7,005	7,095
New Mexico	954	965	979	989	1,006	1,012	1,007	1,000	994	1,011
New York	16,838	17,061	17,301	17,461	17,589	17,734	17,843	17,935	18,051	18,105
North Carolina	4,573	4,663	4,707	4,742	4,802	4,863	4,896	4,952	5,004	5,031
North Dakota	634	641	637	644	649	649	647	626	621	621
Ohio	9,734	9,854	9,929	9,986	10,080	10,201	10,330	10,414	10,516	10,563
Oklahoma	2,336	2,380	2,427	2,439	2,446	2,440	2,454	2,489	2,503	2,535
Oregon	1,772	1,787	1,818	1,853	1,888	1,937	1,969	1,979	2,004	2,062
Pennsylvania	11,329	11,392	11,355	11,424	11,519	11,620	11,664	11,681	11,741	11,741
Rhode Island	855	858	871	876	885	893	899	909	922	932
South Carolina	2.392	2,409	2,423	2.460	2,475	2.494	2,520	2,533	2,559	2.570
South Dakota	683	693	705	708	701	692	683	671	669	668
Tennessee	3.575	3.622	3,673	3.718	3.771	3.798	3,822	3,859	3,878	3,897
Texas	9,624	9,820	10,053	10,159	10,270	10,378	10,492	10,599	10,819	11,045
Utah	900	936	958	974	978	991	1,009	1,019	1,029	1,047
Vermont	389	390	393	397	399	404	413	423	430	437
Virginia	3,986	4,095	4,180	4,276	4,357	4,411	4,456	4,508	4,558	4,614
	2,855	2,882	2,942	2,955	2,961	2,967	3,057	3,174	3,270	3,343
Washington				2,955 1.796		2,967 1.786			3,270 1.763	3,343 1.746
West Virginia	1,853	1,828	1,809	,	1,797	,	1,775	1,769	,	, -
Wisconsin	3,962	4,009	4,049	4,112	4,165	4,232	4,274	4,303	4,345	4,378
Wyoming	331	337	333	336	339	332	323	322	324	329
J.S. Total	180,671	183,691	186,538	189,242	191,889	194,303	196,560	198,712	200,706	202,677

Table C2. Resident Population by State, 1970-1979 (Thousand People)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	3.451	3.497	3,539	3.580	3.626	3.679	3,735	3.780	3.832	3.866
Alaska	-, -	316	324	331	341	376	401	403	405	403
Arizona		1,896	2,008	2,124	2.223	2.285	2,346	2,425	2,515	2,636
Arkansas		1,972	2,019	2,059	2,101	2,160	2,170	2,209	2,243	2,271
California		20,346	20,585	20,869	21,174	21,538	21,936	22,352	22,836	23,257
Colorado		2,304	2,405	2,496	2,541	2,586	2,632	2,696	2,767	2,849
Connecticut	3,041	3,061	3,069	3,068	3,074	3,082	3,083	3,086	3,092	3,096
Delaware	551	565	573	578	581	587	590	592	595	595
District of Columbia	756	750	742	731	718	707	692	677	665	650
Florida	6,848	7,158	7,511	7,914	8,299	8,518	8,667	8,856	9,102	9,426
Georgia	4,607	4,712	4,809	4,910	4,999	5,064	5,133	5,220	5,296	5,401
Hawaii		802	828	852	868	886	904	918	932	953
daho		739	763	782	808	832	857	883	911	933
Ilinois		11,202	11,252	11,251	11,262	11,292	11,343	11,386	11,413	11,397
ndiana		5,253	5,302	5,338	5,362	5,366	5,389	5,426	5,470	5,501
owa		2,852	2,860	2,864	2,868	2,881	2,903	2,914	2,918	2,916
Kansas		2,247	2,256	2,266	2,269	2,281	2,301	2,321	2,336	2,351
Kentucky		3,298	3,336	3,371	3,416	3,468	3,529	3,574	3,610	3,642
_ouisiana		3,710	3,762	3,788	3,820	3,886	3,951	4,014	4,069	4,138
Maine		1,015	1,034	1,046	1,059	1,072	1,088	1,104	1,114	1,123
Maryland		4,018	4,073	4,098	4,119	4,139	4,151	4,170	4,184	4,191
Massachusetts		5,738	5,760	5,781	5,774	5,758	5,744	5,738	5,736	5,738
Michigan		8,974	9,029	9,078	9,118	9,118	9,129	9,171	9,218	9,266
Minnesota		3,853	3,870	3,889	3,904	3,933	3,965	3,989	4,015	4,050
Mississippi	2,220	2,265	2,307	2,350	2,378	2,399	2,430	2,459	2,488	2,507
Missouri		4,726	4,759	4,783	4,796	4,808	4,839	4,863	4,889	4,912
Montana		711	719	727	736	748	757	770	782	787
Nebraska		1,505	1,519	1,530	1,539	1,543	1,551	1,557	1,564	1,567
Nevada		520 762	547 781	569 801	597 816	620 829	647 845	678 870	719 892	765 909
New Hampshire		7.281	7,335	7,333	7.332	7.338	7.340	7,337	7.351	7.367
New Jersey		, -	7,335 1,079		,	,	,		,	1,285
New Mexico		1,054	18,339	1,106 18,177	1,131 18,050	1,160	1,189	1,216	1,238 17,681	17,584
New York North Carolina		18,358	5,301	5,390	5,471	18,003 5,547	17,941 5,608	17,813	5,759	5,823
North Dakota		5,204 627	631	633	635	639	646	5,686 650	651	653
		10,735	10,747	10.767	10,766	10,770	10,753	10.771	10,796	10.798
Ohio Oklahoma		2,619	2,659	2,696	2,735	2,775	2,827	2,870	2,917	2,975
Oregon		2,151	2,197	2,242	2,285	2,330	2,378	2,447	2,518	2,588
Pennsylvania	,	11,886	11,908	11,891	11,871	11,906	11,897	11,894	11,879	11,888
Rhode Island		963	975	976	951	943	946	950	952	950
South Carolina		2,662	2.719	2,777	2.845	2,902	2,944	2,992	3,044	3,090
South Dakota		671	677	679	680	681	686	688	689	688
Tennessee		4,014	4,095	4.147	4,214	4,276	4,347	4,423	4,486	4,560
Гехаs		11,510	11,759	12.020	12.269	12.569	12,904	13,193	13,500	13,888
Jtah	,	1,101	1,135	1,170	1,200	1,236	1,275	1,320	1,368	1,420
/ermont	,	454	463	468	473	480	485	492	498	505
/irginia		4,751	4,824	4,901	4.971	5,047	5,122	5,193	5,270	5,308
Vashington		3.448	3.448	3.479	3.550	3.621	3.694	3.776	3.889	4.018
West Virginia	1,751	1,771	1,798	1,806	1,815	1,842	1,880	1,908	1,923	1.942
Visconsin	4,429	4,462	4,502	4,524	4,546	4,579	4,596	4,627	4,646	4,683
Nyoming		340	347	354	366	382	397	413	433	454
J.S. Total	205,052	207,661	209,896	211,909	213,854	215,973	218,035	220,239	222,585	225,055

Table C3. Resident Population by State, 1980-1989 (Thousand People)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	. 3.900	3,919	3,925	3,934	3.952	3.973	3.992	4,015	4,024	4.030
laska	- /	418	450	488	514	532	544	539	542	547
rizona		2.810	2.890	2.969	3,067	3.184	3.308	3.437	3,535	3.622
kansas	,	2,293	2,294	2,306	2,320	2,327	2,332	2,342	2,343	2,346
alifornia		24,286	24,820	25,360	25,844	26.441	27,102	27,777	28,464	29,218
olorado		2,978	3,062	3,134	3,170	3.209	3,237	3,260	3,262	3,276
		3,129	3,139	3,162	3,180	3,201	3,224	3,247	3,272	3,283
onnecticut	. 3,113 EDE									
elaware		596	599	605	612	618	628	637	648	658
strict of Columbia		637	634	632	633	635	638	637	630	624
orida		10,193	10,471	10,750	11,040	11,351	11,668	11,997	12,306	12,638
eorgia		5,568	5,650	5,728	5,835	5,963	6,085	6,208	6,316	6,411
awaii		978	994	1,013	1,028	1,040	1,052	1,068	1,080	1,095
aho		962	974	982	991	994	990	985	986	994
nois	. 11,435	11,443	11,423	11,409	11,412	11,400	11,387	11,391	11,390	11,410
diana		5,480	5,468	5,450	5,458	5,459	5,454	5,473	5,492	5,524
wa		2,908	2,888	2,871	2,859	2,830	2,792	2,767	2,768	2,771
ansas		2,385	2,401	2,416	2,424	2,427	2,433	2,445	2,462	2,473
entucky		3,670	3,683	3,694	3,695	3,695	3,688	3,683	3,680	3,677
puisiana		4,283	4,353	4,395	4,400	4,408	4,407	4,344	4,289	4,253
aine		1,133	1,137	1,145	1,156	1,163	1,170	1,185	1,204	1,220
aryland		4,262	4,283	4,313	4,365	4,413	4,487	4,566	4,658	4,727
assachusetts	, -	5,769	5,771	5,799	5,841	5,881	5,903	5,935	5,980	6,015
				9,048	9,049	9,076				
ichigan	,	9,209	9,115				9,128	9,187	9,218	9,253
innesota		4,112	4,131	4,141	4,158	4,184	4,205	4,235	4,296	4,338
ississippi		2,539	2,557	2,568	2,578	2,588	2,594	2,589	2,580	2,574
issouri		4,932	4,929	4,944	4,975	5,000	5,023	5,057	5,082	5,096
ontana		795	804	814	821	822	814	805	800	800
ebraska		1,579	1,582	1,584	1,589	1,585	1,574	1,567	1,571	1,575
evada		848	882	902	925	951	981	1,023	1,075	1,137
ew Hampshire	. 924	937	948	958	977	997	1,025	1,054	1,083	1,105
ew Jersey	. 7,376	7,407	7,431	7,468	7,515	7,566	7,622	7,671	7,712	7,726
ew Mexico		1,333	1,364	1,394	1,417	1,438	1,463	1,479	1,490	1,504
ew York	. 17,567	17,568	17,590	17,687	17,746	17,792	17,833	17,869	17,941	17,983
orth Carolina	,	5,957	6,019	6,077	6,164	6,254	6,322	6,404	6,481	6,565
orth Dakota		660	669	677	680	677	670	661	655	646
hio		10,788	10,757	10,738	10,738	10,735	10,730	10,760	10,799	10,829
klahoma		3,096	3,206	3,290	3,286	3,271	3,253	3,210	3,167	3,150
regon		2,668	2,665	2,653	2,667	2,673	2.684	2,701	2,741	2.791
ennsylvania		11,859	11,845	11,838	11,815	11,771	11,783	11,811	11,846	11,866
hode Island		953	954	956	962	969	977	990	996	1,001
outh Carolina	,	3,179	3,208	3,234	3,272	3,303	3,343	3,381	3,412	3,457
outh Dakota		690	691	693	697	698	696	696	698	697
ennessee		4,628	4,646	4,660	4,687	4,715	4,739	4,783	4,822	4,854
xas		14,746	15,331	15,752	16,007	16,273	16,561	16,622	16,667	16,807
ah		1,515	1,558	1,595	1,622	1,643	1,663	1,678	1,689	1,706
ermont		516	519	523	527	530	534	540	550	558
ginia	. 5,368	5,444	5,493	5,565	5,644	5,715	5,812	5,932	6,037	6,120
ashington		4,236	4,277	4,300	4,344	4,400	4,453	4,532	4,640	4,746
est Virginia		1,954	1,950	1,945	1,928	1,907	1,882	1,858	1,830	1,807
isconsin		4,726	4,729	4,721	4,736	4,748	4,756	4,778	4,822	4,857
/yoming		492	506	510	505	500	496	477	465	458
.S. Total	. 227.225	229.466	231,664	233,792	235,825	237,924	240,133	242,289	244,499	246.819

Table C4. Resident Population by State, 1990-1999 (Thousand People)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Alabama	4,050	4,099	4,154	4,214	4,260	4,297	4,331	4,368	4,405	4,430
Alaska	,	570	589	599	603	604	609	613	620	625
rizona		3.789	3,916	4,065	4.245	4.432	4,587	4,737	4,883	5,024
rkansas		2,383	2,416	2,456	2,494	2,535	2,572	2,601	2,626	2,652
California		30,471	30,975	31,275	31,484	31,697	32,019	32,486	32,988	33,499
Colorado		3,387	3,496	3,614	3,724	3,827	3,920	4,018	4,117	4,226
Connecticut		3,303	3,301	3,309	3,316	3,324	3,337	3,349	3,365	3,386
Delaware		683	695	706	718	730	741	751	763	775
District of Columbia	605	601	598	595	589	581	572	568	565	570
lorida	13,033	13,370	13,651	13,927	14,239	14,538	14,853	15,186	15,487	15,759
Georgia	6,513	6,653	6,817	6,978	7,157	7,328	7,501	7,685	7,864	8,046
ławaii	1,113	1,137	1,159	1,173	1,188	1,197	1,204	1,212	1,215	1,210
daho	1,012	1,041	1,072	1,109	1,145	1,177	1,203	1,229	1,252	1,276
Ilinois	11,453	11,569	11,694	11,810	11,913	12,008	12,102	12,186	12,272	12,359
ndiana		5,616	5,675	5,739	5,794	5,851	5,906	5,955	5,999	6,045
owa		2,798	2,818	2,837	2,851	2,867	2,880	2,891	2,903	2,918
Kansas		2,499	2,532	2,557	2,581	2,601	2,615	2,635	2,661	2,678
Centucky	3,694	3,722	3,765	3,812	3,849	3,887	3,920	3,953	3,985	4,018
_ouisiana		4,253	4,293	4,316	4,347	4,379	4,399	4,421	4,440	4,461
Maine		1,237	1,239	1,242	1,243	1,243	1,249	1,255	1,259	1,267
Maryland		4,868	4,923	4,972	5,023	5,070	5,112	5,157	5,204	5,255
Massachusetts		6,018	6,029	6,061	6,095	6,141	6,180	6,226	6,272	6,317
Michigan		9,400	9,479	9,540	9,598	9,676	9,759	9,809	9,848	9,897
/linnesota		4,441	4,496	4,556	4,610	4,660	4,713	4,763	4,813	4,873
Aississippi		2,599	2,624	2,655	2,689	2,723	2,748	2,777	2,805	2,828
Missouri		5,171	5,217	5,271	5,324	5,378	5,432	5,481	5,522	5,562
Montana		810	826	845	861	877	886	890	892	898
Nebraska		1,596	1,612	1,626	1,639	1,657	1,674	1,686	1,696	1,705
Nevada		1,296	1,351	1,411	1,499	1,582	1,666	1,764	1,853	1,935
New Hampshire		1,110	1,118	1,129	1,143	1,158	1,175	1,189	1,206	1,222
New Jersey		7,815 1.555	7,881 1.595	7,949 1.636	8,014 1.682	8,083 1.720	8,150 1.752	8,219 1.775	8,287 1.793	8,360 1.808
New Mexico		18,123	18,247	18,375	18,459	18,524	18,588	18,657	18,756	18,883
New York North Carolina		6,784	6,897	7,043	7,187	7,345	7,501	7,657	7,809	7,949
North Dakota		636	638	641	645	648	650	650	648	644
Ohio		10,946	11,029	11.101	11.152	11,203	11,243	11,277	11,312	11,335
Oklahoma		3,175	3,221	3,252	3,281	3,308	3,340	3,373	3,405	3,437
Oregon		2,929	2,992	3,060	3,121	3,184	3,247	3,304	3,352	3,394
Pennsylvania		11.982	12.049	12.120	12.166	12.198	12.220	12.228	12.246	12.264
Rhode Island	1,006	1,011	1,013	1,015	1,016	1,017	1,021	1,025	1,031	1,040
South Carolina		3,570	3,620	3,663	3,705	3,749	3,796	3,860	3,919	3,975
South Dakota		704	713	722	731	738	742	744	746	750
Tennessee		4.967	5,050	5.138	5.231	5.327	5.417	5.499	5,570	5,639
exas	,	17,398	17,760	18,162	18,564	18,959	19,340	19,740	20,158	20,558
Jtah	,	1,780	1,837	1,898	1,960	2,014	2,068	2,120	2,166	2,203
ermont		569	573	578	584	589	594	597	600	605
/irginia		6,301	6,414	6,510	6,593	6,671	6,751	6,829	6,901	7,000
Vashington	- /	5,026	5,161	5,279	5,375	5,481	5,570	5,675	5,770	5,843
Vest Virginia		1,799	1,806	1,818	1,820	1,824	1,823	1,819	1,816	1,812
Visconsin		4,964	5,025	5,085	5,134	5,185	5,230	5,266	5,298	5,333
Vyoming	,	459	466	473	480	485	488	489	491	492
J.S. Total	249.623	252.981	256.514	259.919	263.126	266,278	269.394	272.647	275.854	279.040

Table C5. Resident Population by State, 2000-2007 (Thousand People)

State	2000	2001	2002	2003	2004	2005	2006	2007
Nabama	R 4,452	R 4,463	R 4,470	R 4,487	R 4,507	R 4,537	R 4,588	4,627
ilaska		R 633	R 642	R 650	R 661	R 669	R 676	681
rizona		R 5,304	R 5,449	R 5,586	R 5.750	R 5,961	R 6,178	6,353
		R 2,690	R 2,702	R 2,718	R 2,740	R 2,769	R 2,804	2,831
rkansas		R 34,507	R 34,916	R 35,307	R 35,630	R 35,885	R 36,121	36,378
aliforniaolorado		R 4.432	R 4.503	R 4.548	R 4,600	R 4,663	R 4,751	4,843
		R 3,428	R 3,448	R 3,468	R 3,475	R 3,479	R 3,488	
onnecticut		R 794	R 804	R 814	3,475 R ann	3,479 R 000	R 850	3,490
elaware		R 578	R 579	R 577	R 826 R 580	R 839	R 585	862
strict of Columbia			R _{16,653}	" 5// R 40 007		582 R 47 700		588
orida _.	16,047	R 16,341	1, 16,653 R 0,554	R 16,937	R 17,314	R 17,702	R 18,019	18,200
eorgia	R 8,230	R 8,419	R 8,584	R 8,733	R 8,911	R 9,094	R 9,319	9,523
awaii	R 1,211	R 1,218	R 1,227	R 1,238	R 1,252	R 1,264	R 1,275	1,277
aho		R 1,321	R 1,341	R 1,363	R 1,390	R 1,424	R 1,461	1,496
nois	R 12,438	R 12,511	R 12,565	R 12,611	R 12,666	R 12,704	R 12,760	12,826
diana	R 6,091	R 6,124	R 6,147	R 6,179	R 6,211	R 6,249	R 6,294	6,336
wa		R 2,929	R 2,929	R 2,933	R 2,943	R 2,952	R 2,967	2,983
ansas	R 2,693	R 2,701	R 2,713	R 2,722	R 2,731	R 2,742	R 2,756	2,777
entucky		R 4,066	R 4,087	R 4,111	R 4,136	R 4,166	R 4,199	4,236
ouisiana	R 4,469	R 4,460	R 4,465	R 4,474	R 4,488	R 4,496	R 4,244	4,373
aine	R 1,277	R 1,285	R 1,294	R 1,303	R 1,308	R 1,311	R 1,313	1,315
aryland	R 5,310	R 5,376	R 5,439	R 5,495	R 5,539	R 5,576	R 5,602	5,619
assachusetts		R 6,407	R 6,433	_ ^R 6,441	R 6,437	R 6,434	_R 6,443	6,468
chigan	R 9,955	^R _10,004	^R _10,037	^R _10,066	R 10,090	R 10,093	^R _10,084	10,050
nnesota	R 4,934	R 4,982	R 5,017	R 5,047	R 5,078	^R 5,105	R 5,143	5,182
ssissippi	R 2,848	R 2,853	R 2,858	R 2,867	R 2,885	R 2,898	R 2,897	2,921
ssouri	R 5 606	R 5,642	R 5 676	R 5,705	R 5,743	^R 5.785	R 5,833	5,878
ontana	^R 903	R 906	R 910	R ² 917	R 926	R 935	R 945	957
ebraska	R 1.713	R 1,718	R _{1 724}	R 1,733	R 1,741	R 1,751	R 1,760	1,769
evada	R 2,018	R 2,094	R 2,165	R 2,234	R 2,324	R 2.402	R 2,484	2,554
ew Hampshire	R 1 240	R 1.257	R 1.271	R 1.281	R 1.292	R 1,301	R 1.309	1,312
ew Jersey		R 8,491	R 8,547	R 8,590	R 8,621	R 8.635	R 8,640	8,653
w Mexico		R 1,828	R 1,849	R 1,868	R 1,889	R 1,913	R 1,938	1,964
ew York		R 19,088	R 19,162	R 19,231	R 19,301	R_19,336	R 19,367	19,429
orth Carolina	R 8 079	R 8,200	R 8,311	R 8,410	R 8,523	^R 8,661	R 8,845	9,042
orth Dakota		R 636	R 634	R 633	_ ^R 636	R 635	R 636	638
hio		R 11,391	R 11,411	R 11,430	R 11,445	R 11,451	R 11,458	11,478
dahoma		R 3,463	R 3,483	R 3.496	R 3,512	R 3,530	R 3,568	3,608
egon	D - /	R 3.471	R 3,518	R 3.552	R 3,576	R 3,622	R 3,681	3,736
nnsylvania		R 12,285	R 12,299	R 12,318	R 12,336	R 12,352	R 12,388	12,420
node Island		R 1,058	R 1,066	R 1,071	R 1,071	R 1,064	R 1,059	1,053
outh Carolina		R 4,062	R 4,102	R 4,143	R 4,197	R 4,249	R 4,325	4.405
		R 759	R 762	R 766	R 774	R 779	R 787	,
outh Dakota		R 5,753	R 5,799	R 5,850	R 5,907	R 5.983	R 6,068	796
nnessee	K 5,703 R 20,946	R 21,334	R 21,713	R _{22,062}	R 22,425	R _{22,811}	R 23,368	6,149
xas	`` 20,940 R 2 244	R 2,291	R 2,334	R 2,380	R 2,440	R 2.501	R 2,585	23,843
ah	R 2,244							2,669
rmont		R 612	R 615	R 617	R 618	R 619	R 620	621
ginia		R 7,188	R 7,277	R 7,363	R 7,455	R 7,547	R 7,628	7,699
ashington	R 5,911	R 5,987	R 6,056	R 6,110	R 6,180	R 6,255	R 6,361	6,450
est Virginia		R 1,799	R 1,799	R 1,802	R 1,803	R 1,804	R 1,807	1,810
isconsin	R 5,374	R 5,408	R 5,445	R 5,474	R 5,509	R 5,539	R 5,569	5,599
yoming	R 494	R 493	R 497	R 499	R ['] 503	R 506	R 513	523
S. Total	R 282,172	R 285,040	R 287.727	R 290,211	R 292.892	R 295.561	R 298.363	301.290

Appendix D

Real Gross Domestic Product by State

The real gross domestic product (GDP) data used in the Energy Information Administration State Energy Data System to calculate total energy consumed per chained (2000) dollar of output are shown in Tables F1 through F4. The data are the U.S. Department of Commerce, Bureau of Economic Analysis (BEA), real GDP estimates by State, beginning in 1977. The estimates are released June of each year.

For 1977 through 1989, BEA does not provide the real GDP by State estimates. However, BEA's quantity indexes for real GDP by State (2000=100.000) are used to calculate real GDP from 1977 to 1989. For 1990 through 1996, BEA reports real GDP by State based on the Standard Industrial Classification (SIC). For 1997 forward, BEA reports real GDP by State based on the North American Industry Classification System (NAICS). Given this discontinuity in the GDP by States series at 1997, users of these data are strongly cautioned against appending the two data series in an attempt to construct a single time series of GDP by State estimates.

The U.S real GDP is extracted from the same data source as the State data. This series does not match the national account GDP series. For details, see BEA Regional Economic Accounts: Methodologies, http://www.bea.gov/regional/methods.cfm.

Data Sources

GDPRXUS — Real gross domestic product of the United States in million chained (2000) dollars.

- 1977 through 1996: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=SIC.
- 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=NAICS.

GDPRXZZ — Real gross domestic product by State in million chained (2000) dollars.

- 1977 through 1996: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=SIC.
- 1997 forward: U.S. Department of Commerce, Bureau of Economic Analysis, http://www.bea.gov/regional/gsp/default.cfm? series=NAICS.

Table D1. Gross Domestic Product by State, 1977-1979

(Billion Chained (2000) Dollars)

State	1977	1978	1979
Alabama	61.4	65.4	67.1
Alaska	18.9	20.6	21.7
Arizona	44.6	49.3	54.1
Arkansas	32.9	35.3	35.8
California	539.8	576.8	55.6 598.7
Colorado	61.2	66.2	70.7
	72.3	76.1	70.7
Connecticut Delaware	16.8	17.6	17.7
	46.2	47.5	48.1
District of Columbia			191.6
Florida	165.1	179.4	
Georgia	96.5	102.4	107.2
Hawaii	25.5	26.5	28.0
Idaho	14.3	15.5	15.8
Illinois	264.8	276.1	280.1
Indiana	105.1	110.2	110.6
lowa	53.4	56.5	57.6
Kansas	47.9	49.2	52.2
Kentucky	62.6	65.4	67.0
Louisiana	104.3	109.4	108.1
Maine	18.6	19.1	19.6
Maryland	91.0	94.7	97.1
Massachusetts	117.8	124.1	128.6
Michigan	207.6	215.5	213.1
Minnesota	81.3	85.5	89.5
Mississippi	35.9	37.1	38.5
Missouri	98.0	102.8	105.4
Montana	14.6	15.7	15.7
Nebraska	29.5	31.3	32.2
Nevada	19.9	22.3	24.0
New Hampshire	13.9	15.3	16.2
New Jersey	161.8	168.6	175.2
New Mexico	22.6	23.9	24.1
New York	441.4	459.2	467.9
North Carolina	107.7	114.6	118.0
North Dakota	11.5	12.8	13.2
Ohio	219.2	227.3	230.8
Oklahoma	56.8	59.3	62.2
Oregon	47.6	50.7	52.8
Pennsylvania	237.2	246.2	250.9
Rhode Island	18.2	18.7	19.3
South Carolina	45.5	48.8	51.0
	45.5	46.6	12.3
South Dakota		82.9	85.6
Tennessee	77.6 317.2	82.9 335.2	85.6 346.8
Texas	317.2 24.8		346.8 28.1
Utah		26.7	
Vermont	7.5	8.3	8.6
Virginia	115.1	120.6	124.6
Washington	90.4	97.7	104.0
West Virginia	30.4	31.0	31.3
Wisconsin	88.9	93.1	96.2
Wyoming	12.0	13.1	13.7
U.S. Total	4,711.5	4,965.4	5,113.0

Where shown, R = Revised data. Source: See first page of this appendix.

Table D2. Gross Domestic Product by State, 1980-1989
(Billion Chained (2000) Dollars)

State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	66.8	68.0	66.2	69.3	73.0	76.6	77.5	81.8	85.2	85.2
laska		28.6	29.5	28.8	30.1	33.4	27.4	32.0	31.0	32.1
rizona		56.8	55.3	58.4	65.0	69.7	73.9	76.7	79.8	80.3
rkansas		36.5	35.5	36.6	39.6	40.1	40.8	42.1	43.7	44.7
alifornia		633.6	634.0	659.2	719.0	760.3	790.7	838.6	887.9	925.9
olorado		76.3	77.9	78.9	83.6	85.7	84.5	86.0	87.9	89.0
onnecticut		82.4	84.2	88.2	96.0	101.0	106.0	114.6	122.1	123.9
elaware		17.7	18.0	19.4	20.9	22.3	22.9	24.5	25.6	27.4
istrict of Columbia		47.2	46.1	46.5	47.7	48.6	49.0	50.6	52.7	53.9
orida		211.3	214.7	227.4	246.6	259.6	270.0	287.2	303.7	314.5
eorgia		112.6	114.1	121.5	134.1	144.6	152.8	159.9	166.5	169.6
awaii		28.2	28.2	29.2	30.2	31.0	32.0	33.5	35.5	37.9
aho		16.0	15.4	16.0	16.4	16.9	16.5	16.9	17.8	18.9
inois		274.2	264.8	266.8	286.8	294.8	300.8	310.7	327.1	333.0
diana		105.9	99.9	102.1	111.7	114.1	115.9	120.2	125.9	130.6
wa		58.5	54.7	52.1	55.6	57.1	56.3	57.5	60.5	62.8
waansas		53.1	54.7 52.7	52.1	55.3	57.1 57.6	57.6	57.5 59.4	60.7	61.1
entucky		67.1	52.7 64.8	52.8 64.5	55.3 69.9	72.4	72.2	59.4 75.1	78.2	80.4
		114.9	110.6	109.3	115.8	117.8	115.0	114.5	120.3	119.6
ouisiana									29.1	
aine		20.2	20.5	21.4	23.0	24.2	25.3	27.0		29.6
aryland		99.7	98.9	103.7	111.7	118.8	124.8	131.5	140.4	143.8
assachusetts		134.9	136.0	144.1	158.4	168.7	177.7	190.0	201.0	201.9
ichigan		194.3	182.0	194.0	210.7	220.5	224.5	226.7	235.0	238.2
innesota		91.9	90.5	92.9	102.8	107.2	108.0	113.2	117.1	120.6
ississippi		39.2	37.9	38.7	41.4	42.7	42.6	45.1	46.3	46.6
issouri		102.4	101.1	104.2	113.6	115.4	118.5	122.4	127.3	129.7
lontana		16.4	15.8	15.7	15.9	15.6	15.4	15.5	15.3	15.9
ebraska		33.7	33.0	32.1	34.7	36.2	35.5	35.5	37.5	38.7
evada	24.7	25.6	25.3	26.0	27.4	28.6	30.0	31.8	34.6	37.5
ew Hampshire		17.3	17.6	18.7	21.1	23.2	24.8	27.7	29.1	28.9
ew Jersey		179.7	179.8	192.0	207.9	219.1	229.4	244.2	262.6	265.8
ew Mexico	25.0	25.4	25.0	25.4	26.8	27.9	27.4	27.3	27.6	28.2
ew York		477.0	482.5	493.6	528.0	542.4	558.5	585.8	619.2	620.4
orth Carolina	118.6	122.5	119.8	126.1	137.6	146.6	152.2	158.5	167.5	172.8
orth Dakota		14.6	14.1	13.7	14.1	14.2	13.2	13.5	12.4	13.1
hio	221.5	223.4	212.0	220.2	240.0	249.0	251.2	257.6	266.7	271.9
klahoma		69.1	71.2	67.8	71.2	72.4	67.8	66.2	69.6	69.5
regon		50.6	47.8	48.2	51.4	52.8	53.8	55.3	58.9	60.7
ennsylvania		247.0	237.9	243.9	258.1	264.7	269.6	283.6	296.1	301.3
hode Island		19.8	19.7	20.2	21.8	23.1	24.2	25.2	26.9	27.5
outh Carolina		53.1	52.1	55.4	61.0	63.3	66.2	70.6	74.3	76.7
outh Dakota		12.4	12.1	11.9	12.9	13.4	13.6	13.9	14.0	14.2
ennessee		86.8	84.9	89.4	96.3	100.2	103.4	110.2	114.7	116.0
exas		381.6	383.5	383.4	407.8	425.8	412.8	409.7	436.6	447.8
ah		29.8	29.6	30.6	33.1	35.1	34.6	34.7	36.3	36.9
ermont		9.2	9.1	9.5	10.0	10.6	11.1	12.0	13.1	13.6
rginia		130.4	130.7	136.6	146.7	154.2	162.1	171.5	179.6	185.8
ashington		107.1	106.9	109.2	113.0	114.2	118.9	123.3	130.5	137.2
est Virginia		30.9	30.1	28.9	30.6	30.9	31.0	31.4	32.4	32.7
ieconein	94.8	95.0	93.0	94.6	100.6	104.3	105.9	108.4	114.9	117.0
isconsin'yoming		95.0 15.6	14.8	13.9	14.7	104.3	105.9	13.9	14.4	117.0
S. Total	5,116.1	5,252.3	5,185.7	5,331.7	5,739.4	5,981.2	6,104.0	6,357.9	6,684.4	6,837.5

Where shown, R = Revised data. Source: See first page of this appendix.

Table D3. Gross Domestic Product by State, 1990-1999 (Billion Chained (2000) Dollars)

State	1990	1991	1992	1993	1994	1995	1996ª	1997ª	1998	1999
labama	86.6	88.8	92.6	93.7	97.1	100.2	103.2	107.6	110.7	114.4
aska		28.6	28.9	28.6	28.5	29.9	29.5	28.1	26.8	27.1
izona		81.8	88.1	91.7	100.2	107.5	116.1	127.4	138.7	149.7
kansas		47.1	49.8	51.1	53.9	56.1	58.4	62.5	64.3	67.
llifornia		937.4	936.3	927.1	937.9	971.3	1,007.4	1,043.5	1,108.7	1,196.6
olorado		93.6	98.9	104.7	111.2	117.2	123.4	137.9	147.9	159.4
onnecticut		121.4	122.7	121.6	124.0	131.3	135.1	144.9	150.8	153.3
elaware		29.0	29.2	29.1	30.1	31.7	32.3	38.3	38.8	40.8
strict of Columbia		54.0	54.6	55.2	54.9	53.2	52.2	54.7	55.1	58.4
orida		321.6	332.2	343.5	357.4	369.6	387.7	414.7	435.6	453.3
eorgia		174.0	183.6	191.1	204.1	215.5	229.7	250.8	266.0	282.8
waii		41.4	42.3	41.9	41.3	40.8	40.4	40.4	39.6	39.7
		20.0	21.3	23.1	24.8	26.9	27.7	28.8	30.0	32.8
aho		335.6	347.5	353.3	373.6	384.2	397.3	425.0	440.0	452.9
nois										
diana		131.0	139.1	143.3	151.2	155.8	161.9	176.9	185.2	189.3
wa		64.8	67.6	67.6	73.0	74.8	78.8	85.7	86.4	87.6
nsas		63.0	64.6	64.9	67.8	68.5	71.4	76.1	79.4	80.8
entucky		81.8	86.6	88.9	94.3	97.6	101.1	111.6	113.2	115.7
uisiana		121.4	113.1	115.0	124.4	130.7	131.8	128.9	134.7	137.0
aine		28.3	28.6	28.6	29.2	29.8	30.6	33.4	33.4	34.3
aryland		142.4	142.4	144.4	148.8	150.8	154.0	162.7	168.9	175.4
ssachusetts		189.9	192.1	194.5	203.3	209.8	220.4	227.1	240.6	255.2
chigan		230.1	238.8	247.5	267.9	268.3	277.6	317.3	323.1	333.0
nnesota		121.7	128.3	128.3	135.8	139.6	148.4	163.1	170.6	176.3
ssissippi		47.7	49.9	51.8	54.9	57.5	59.0	61.6	63.3	64.7
ssouri		129.7	133.0	132.9	140.7	147.7	153.2	168.2	171.7	172.9
ontana		16.6	17.3	18.0	18.6	18.6	18.9	20.1	20.6	20.9
braska	40.3	41.5	43.2	43.4	46.5	47.3	50.0	52.8	53.7	54.4
evada	40.5	41.3	43.9	47.1	51.3	54.5	59.4	64.5	66.9	70.7
w Hampshire	27.7	27.9	29.2	29.6	30.9	33.2	35.7	36.6	39.6	40.6
w Jersey	266.6	265.0	272.3	276.2	281.7	288.4	300.9	316.1	325.8	334.1
w Mexico		31.8	33.5	36.8	41.1	41.7	43.4	45.8	46.3	50.1
w York		606.0	614.3	616.9	627.1	640.1	665.7	671.0	698.9	736.5
orth Carolina	173.6	173.3	182.6	187.7	200.8	210.7	218.4	239.7	251.0	267.0
rth Dakota	13.5	13.5	14.5	14.3	15.2	15.5	16.6	17.0	17.5	17.2
nio		272.7	283.8	285.6	300.5	310.4	319.4	350.6	362.7	368.5
lahoma		70.2	71.8	73.3	74.5	75.9	79.6	82.9	84.5	86.9
egon		64.2	66.3	69.6	73.1	77.5	88.1	95.6	100.9	104.3
nnsylvania		305.7	316.0	320.4	327.1	337.5	345.2	362.9	376.2	384.4
ode Island		26.3	26.7	27.1	27.3	28.1	28.7	30.4	30.9	31.6
uth Carolina		79.4	81.3	83.9	88.2	91.3	93.8	103.3	107.1	110.9
uth Dakota		15.7	16.4	17.3	18.0	18.4	19.3	20.2	21.1	21.8
nnessee		119.2	127.9	133.1	140.9	145.2	149.4	163.0	168.2	173.6
		469.4	488.3	505.8	530.4	554.8	585.8	627.5	666.6	699.
kas		40.3	400.3	43.7	46.9	50.2	55.0	60.1	63.0	65.6
h		13.3	14.0	14.2	14.6	14.6	15.2	15.5	16.2	17.0
mont			190.1			206.6		226.0	237.6	248.6
ginia		186.5		194.8	201.6		215.1			
shington		148.9	154.8	159.0	163.8	164.8	173.1	188.5	204.3	219.6
est Virginia		33.5	34.7	35.6	37.6	38.5	39.3	40.6	40.8	42.0
sconsin		120.7	127.0	131.7	138.1	140.8	147.2	160.2	166.9	172.4
yoming	15.2	15.5	15.5	15.9	16.2	16.6	17.1	16.0	16.1	17.0
S. Total	6.939.7	6,917.7	7,114.7	7,240.8	7,538.5	7,784.2	8,106.7	8,621.0	9,004.7	9,404.3

^a There is a discontinuity in the gross domestic product (GDP) by State time series at 1997, where the data changes from Standard Industrial Classification (SIC) industry definitions to North American Industry Classification System (NAICS) industry definitions. Users of the GDP by State estimates are strongly cautioned against appending the two data series in an attempt to construct a single time series of GDP by State estimates. Where shown, R = Revised data.

Source: See first page of this appendix.

Table D4. Gross Domestic Product by State, 2000-2007

(Billion Chained (2000) Dollars)

State	2000	2001	2002	2003	2004	2005	2006	2007
Alabama	114.6	115.6	118.2	121.6	127.8	R 132.3	^R 134.9	136.1
Alaska	27.0	25.8	28.0	27.4	28.9	29.3	R 30.6	30.6
rizona	158.5	163.4	166.9	174.2	180.5	R ₁ 96.2	R_208.6	211.6
rkansas	66.8	67.0	68.9	70.8	74.2	R 76.5	R 77.5	78.7
California	1,287.1	1,281.7	1,298.8	1,337.8	1,406.8	R 1,467.9	R 1,512.9	1,539.4
Colorado	171.9	174.8	175.5	176.5	180.6	R 188.4	R 193.4	197.3
Connecticut	160.4	161.2	158.6	159.5	165.8	R _{169.1}	R 174.3	178.5
	41.5	43.0	42.9	44.9	46.7	R 49.9	R 49.6	50.1
Delaware	58.7	61.6	62.8	64.7	67.5	R 70.0	R 71.4	72.6
istrict of Columbia						R 589.3	R 613.6	
lorida	471.3	484.9	497.3	520.4	548.6	N 589.3	R 000.5	613.4
Georgia	290.9	292.8	294.1	299.7	310.7	R 322.6	R 326.5	331.3
lawaii	40.2	40.6	41.1	42.6	44.6	46.9	R 48.7	49.4
daho	35.0	35.2	35.7	36.5	39.6	R 42.9	R 43.8	45.5
linois	464.2	464.9	466.2	479.3	487.6	R 490.3	R 505.3	514.8
ndiana	194.4	190.3	196.8	203.5	209.5	R 208.1	R 208.3	211.1
owa	90.2	89.4	92.8	95.3	100.9	R 102.6	R 104.5	108.1
Cansas	82.8	83.9	85.3	86.7	88.3	R 90.0	_ ^R 93.1	96.0
entucky	111.9	112.2	115.5	117.2	119.9	R 122.9	R 125.8	127.0
ouisiana	131.5	129.2	129.7	131.9	139.3	R 140.3	R 143.1	144.4
Maine	35.5	36.2	36.7	37.3	38.9	R 39.0	39.4	39.8
Maryland	180.4	187.5	193.5	198.0	205.5	R 211.4	R 214.2	217.9
lassachusetts	274.9	276.6	275.0	280.9	286.5	R 289.9	R 297.6	306.5
lichigan	337.2	326.9	336.9	341.1	337.9	R 339.9	R 334.8	331.0
Innesota	185.1	186.3	191.1	196.7	205.1	R 208.4	R 209.4	212.8
lississippi	64.3	64.0	64.6	66.6	67.9	R 68.4	R 69.6	70.5
Missouri	176.7	177.8	179.9	183.2	186.4	R ₁ 89.1	R_188.8	191.2
Iontana	21.4	21.7	22.2	23.3	24.0	R 25.2	R 25.8	26.8
	55.5	55.8	56.9	59.9	60.9	R 62.2	R 63.8	65.7
lebraska	73.7	75.1	77.1	81.6	89.9	R 97.2	R __ 101.1	103.9
levada						R 48.5	R 49.3	
lew Hampshire	43.5	43.6	44.6	45.9	47.7	1, 48.5 P. 070.4	1, 49.3 P. 22.4.2	49.6
lew Jersey	344.8	355.1	357.9	366.6	375.8	R 379.1	R 384.6	388.0
lew Mexico	50.7	50.9	51.6	53.7	56.9	R 57.6	R 59.0	60.2
lew York	777.2	794.4	791.7	808.4	829.9	R 865.7	R 912.9	949.5
orth Carolina	273.7	278.3	282.4	286.4	295.6	309.7	R 326.9	329.1
lorth Dakota	17.8	17.9	18.8	19.9	20.0	R 20.9	R 21.1	22.6
Ohio	372.0	365.7	373.5	378.7	387.4	R 390.6	R 387.3	388.3
Oklahoma	89.8	91.8	92.9	94.3	97.3	99.2	R 102.2	104.1
Oregon	112.4	110.5	115.0	117.9	125.9	R 129.4	R 139.6	144.8
ennsylvania	389.6	395.6	403.0	411.6	416.2	R 422 5	R 431.0	438.9
thode Island	33.6	34.2	34.9	36.5	37.8	R 37.8	R 38.5	38.5
outh Carolina	112.5	114.1	115.7	119.6	119.9	^R 122.8	R 125.2	126.3
outh Dakota	23.1	23.4	25.3	25.7	26.6	R 27.4	R 27 1	29.3
ennessee	174.9	176.3	183.2	188.5	197.2	200.9	R 206.4	209.1
exas	727.2	745.3	760.6	771.0	806.0	R 828.4	R 869.4	907.4
tah	67.6	68.3	69.1	70.2	73.0	R 77.8	R 82.7	86.5
ermont	17.8	18.5	18.9	19.6	20.3	20.7	R 21.0	21.3
irginia	260.7	269.6	271.2	281.5	294.2	R 309.3	R 314.5	320.3
	222.0	220.2	221.1	225.0	230.0	241.8	R 248.5	259.4
/ashington		41.9	42.5	42.6	43.8	241.8 44.7	R 44.9	45.2
/est Virginia	41.5					^{44.7} R_191.7	R 195.0	
/isconsin	175.7	177.4	180.3	184.1	188.0	" 191./ R 40.0	195.0	197.0
Vyoming	17.3	18.1	18.4	18.8	19.0	R 19.3	20.7	20.8
S. Total	9,749.1	9,836.6	9,981.8	10,225.7	10,580.2	R 10,912.2	R 11,218.8	11,439.2

Where shown, R = Revised data. Source: See first page of this appendix.

Appendix E

Metric and Other Physical Conversion Factors

Data presented in the State Energy Data System are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table D1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table D2.

The conversion factors presented in Table D3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table E1. Metric Conversion Factors

U.S. Unit	multiplied by	Conversion Factor	equals	Metric Unit	U.S. Unit	multiplied by	Conversion Factor	equals	Metric Unit
Mass					Volume				
short tons (2,000 lb)	Х	0.907 184 7	=	metric tons (t)	barrels of oil (bbl)	Х	0.158 987 3	=	cubic meters (cm ³)
long tons	Х	1.016 047	=	metric tons (t)	cubic yards (yd ³)	Х	0.764 555	=	cubic meters (cm ³)
pounds (lb)	Х	0.453 592 37 ^a	=	kilograms (kg)	cubic feet (ft ³)	Х	0.028 316 85	=	cubic meters (cm ³)
pounds uranium oxide	Х	0.384 647 ^b	=	kilograms	U.S. gallons (gal)	Х	3.785 412	=	liters (L)
(lb U_3O_8)				uranium (kgU)	ounces, fluid (fl oz) x	29.573 53	=	milliliters (mL)
ounces, avoirdupois	Х	28.349 52	=	grams (g)	cubic inches (in ³)	Х	16.387 06	=	milliliters (mL)
(avdp oz)									
Length					Area				
miles (mi)	Х	1.609 344 ^a	=	kilometers (km)	acres	Х	0.404 69	=	hectares (ha)
yard (yd)	Х	0.914 4 ^a	=	meters (m)	square miles (mi ²)	Х	2.589 988	=	square kilometers (km²
feet (ft)	Х	0.304 8 ^a	=	meters (m)	square yards (yd²)	Х	0.836 127 4	=	square meters (m ²)
inches (in)	Х	2.54 ^a	=	centimeters (cm)	square feet (ft²)	Х	0.092 903 04 ^e	=	square meters (m ²)
					square inches (in ²)) x	6.451 6 ^a	=	square centimeters (cr
Energy									
British Thermal Units (Bt	u) x	1,055.055 852 62 ^{a,c}	=	joules (J)	Temperature				
calories (cal)	Х	4.186 8 ^a	=	joules (J)	degrees	х	5/9 (after	=	degrees
kilowatthours (kWh)	x	3.6ª	=	megajoules (MJ)	Fahrenheit (°F)	5	subtracting 32) ^a	,d	Celsius (°C)

^aExact conversion.

Taylor at Building 221, Room B160, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.

Sources: General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. National Institute of Standards and Technology, Special Publications 330, 811, and 814. American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

^bCalculated by the Energy Information Administration.

^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.

dTo convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.
 Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading.
 Most metric units shown belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, contact Dr. Barry

Table E2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	М	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	Υ

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p. 10

Table E3. Other Physical Conversion Factors

Energy Source	Original Unit		Conversior Factor	1	Final Unit
Petroleum	barrels (bbl)	Х	42 ^a	=	U.S. gallons (gal)
Coal	short tons long tons metric tons (t)	x x x	2,000 ^a 2,240 ^a 1,000 ^a	= =	pounds (lb) pounds (lb) kilograms (kg)
Wood	cords (cd)	x x	1.25 ^b 128 ^a	=	short tons cubic feet (ft³)

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17, and C-21.

^bCalculated by the Energy Information Administration.

Appendix F

What's New in the State Energy Data System

Tables and data files in the State Energy Data System (SEDS) supply a new year of data each production cycle. The latest data may be preliminary and, therefore, revised the following cycle. Changes made to consumption and price source data for historical years are also regularly incorporated into SEDS.

Listed below are changes in SEDS contents beyond the standard updates.

Total Energy

Beginning in 1980, supplemental gaseous fuels, which are accounted for both in the fossil fuels from which they are derived and in natural gas, are removed once from total energy consumption for the residential, commercial, industrial, and electric power sectors to prevent double-counting. In addition, beginning in 1981, the industrial sector consumption includes energy losses and co-products from the production of fuel ethanol in the U.S. total. Individual State estimates are not available because reliable State allocators have not been identified.

Natural Gas

Natural gas consumption estimates in Btu are revised to include the small amount of supplemental gaseous fuels that are commingled with natural gas.

Petroleum and Ethanol

Fuel Ethanol

The method for estimating fuel ethanol not blended into motor gasoline by State is revised beginning in 2005. The State estimates are now based on several data series: (1) prime supplier sales of coventional and reformulated gasoline; (2) production of conventional and reformulated gasoline with and without alcohol; (3) a standard ethanol-to-motor-gasoline "blend ration" of 10 percent for all States except California and Minnesota; and (4) estimated fuel ethanol "product supplied." See page 79 for detailed information.

Glossary

Asphalt: A dark brown-to-black cement-like material obtained by petroleum processing and containing bitumens as the predominant component; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL–G–5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excluded are oxygenates (alcohols and ethers), butane, and pentanes plus.

Barrel (petroleum): A unit of volume equal to 42 U.S. gallons.

Barrels per Calendar Day (operable refinery capacity): The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation to account for the following limitations that may delay, interrupt, or slow down production: 1) the capability of downstream processing units to absorb the output of crude oil processing facilities of a given refinery (no reduction is necessary for intermediate streams that are distributed to other than downstream facilities as part of a

refinery's normal operation); 2) the types and grades of inputs to be processed; 3) the types and grades of products expected to be manufactured; 4) the environmental constraints associated with refinery operations; 5) the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and 6) the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels per Stream Day (operable refinery capacity): The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. *Note*: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Black Liquor (Pulping Liquor): The alkaline spent liquor removed from the digesters in the process of chemically pulping wood. After evaporation, the liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Bunker Fuels: Fuel supplied to ships and aircraft, both domestic and foreign, consisting primarily of residual fuel oil and distillate fuel oil for ships and kerosene-type jet fuel for aircraft. The term "international bunker fuels" is used to denote the consumption of fuel for international transport activities. *Note*: For the purposes of greenhouse gas emissions inventories, data on emissions from combustion of international bunker fuels are subtracted from national emissions totals. Historically, bunker fuels have meant only ship fuel.

Catalytic Cracking: The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. Coals are classified according to their degree of progressive alteration from lignite to anthracite. In the U.S. classification, the ranks of coal include lignite, subbituminous coal, bituminous coal, and anthracite and are based on fixed carbon, volatile matter, heating value, and agglomerating (or caking) properties.

Coal Coke: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000 degrees Fahrenheit so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace.

Coke Plants: Plants where coal is carbonized in slot or beehive ovens for the manufacture of coke.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity. If one or more units of the plant is a CHP unit, then the whole plant is designated as a CHP plant. *Note*: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do

not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Polices Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Conversion Factor: A number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents. See **British Thermal Unit**.

Cord (wood): A cord of wood measures 4 feet by 4 feet by 8 feet or 128 cubic feet.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil Used Directly: Crude oil consumed as fuel by petroleum pipelines and on crude oil leases.

Cubic foot (cf), natural gas: The amount of natural gas contained at standard temperature and pressure (60 degrees Fahrenheit and 14.73 pounds standard per square inch) in a cube whose edges are one foot long.

Diesel Fuel: A fuel composed of distillate fuel oils obtained in petroleum refining operation or blends of such distillate fuel oils with residual fuel oil used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Distillate Fuel Oil: A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity Retail Sales: The amount of electricity sold by electric utilities and other energy service providers to customers purchasing electricity for their own use and not for resale. These sales are usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities and railways, and interdepartmental sales.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. *Note*: This sector includes electric utilities and independent power producers.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of

electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Electric utilities are included in the electric power sector. *Note*: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

End-Use Sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Consumption, End-Use: The sum of fossil fuel consumption by the four end-use sectors (residential, commercial, industrial, and transportation) plus electric utility sales to those sectors and generation of hydroelectric power by nonelectric utilities. Net end-use energy consumption excludes electrical system energy losses. Total end-use energy consumption includes electrical system energy losses.

Energy Consumption, Total: The sum of fossil fuel consumption by the five sectors (residential, commercial, industrial, transportation, and electric utility) plus hydroelectric power, nuclear electric power, net imports of coal coke, and electricity generated for distribution from wood and waste and geothermal, wind, photovoltaic, and solar thermal energy.

Ethanol: See Fuel Ethanol.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Fiscal Year: The U.S. Government's fiscal year runs from October 1 through September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 2004 begins on October 1, 2003, and ends on September 30, 2004.

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as petroleum, coal, and natural gas.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: An anhydrous, denatured aliphatic alcohol (C_2H_5OH) intended for motor gasoline blending.

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume.

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the Earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

Heat Content of a Quantity of Fuel, Gross: The total amount of heat released when a fuel is burned. Coal, crude oil, and natural gas all include chemical compounds of carbon and hydrogen. When those fuels are burned, the carbon and hydrogen combine with oxygen in the air to produce carbon dioxide and water. Some of the energy released in burning goes into transforming the water into steam and is usually lost. The amount of heat spent in transforming the water into steam is counted as part of gross heat content but is not counted as part of net content. Gross heat content is also referred to as the higher heating value. Btu conversion factors typically used by the Energy Information Administration represent gross heat content.

Heat Content of a Quantity of Fuel, Net: The amount of usable heat energy released when a fuel is burned under conditions similar to those in which it is normally used. Net heat content is also referred to as the lower heating value. Btu conversion factors typically used by the Energy Information Administration represent gross heat content.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power, Conventional: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Hydroelectric Pumped Storage: Hydroelectric power that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in an electric power plant at a lower level.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility. Independent power producers are included in the electric power sector.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., and meeting Military Specification MIL–T–5624L (Grade JP–4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100

degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See **Jet Fuel**, **Kerosene-Type**.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000 watts) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu.

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors), and as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas plant liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities.

Liquefied Petroleum Gases (LPG): A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Lubricants: Substances used to reduce friction between bearing surfaces, or incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils, from spindle oil to cylinder oil to those used in greases.

Methanol: A light, volatile alcohol (CH_3OH) eligible for motor gasoline blending.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D–4814 or Federal Specification VV–G–1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10-percent recovery point to 365 to 374 degrees Fahrenheit at the 90-percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. *Note:* Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Blending Components: Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gasoline: A term used in the gas processing industry to refer to a mixture of liquid hydrocarbons (mostly pentanes and heavier hydrocarbons) extracted from natural gas. It includes isopentane.

Net Interstate Flow of Electricity: The difference between the sum of electricity sales and losses within a State and the total amount of electricity generated within that State. A positive number indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonutilities: See Nonutility Power Producer.

Nonutility Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers). Nonutility power producers are without a designated franchised service area and do not file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

North American Industry Classification System (NAICS): A system of numeric codes used to categorize businesses by the type of activity in which they are engaged. It replaces the Standard Industrial Classification (SIC). This new structure was developed jointly by the United States, Canada, and Mexico to provide consistent, comparable information on an industry-by-industry basis for all three economies.

Nuclear Electric Power (nuclear power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Included are isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. In this report the categories reported are "Naphthas Less Than 401° F. Endpoint" and "Other Oils Equal to or Greater Than 401° F. Endpoint."

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. *Note*: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke.

Petroleum Coke, Catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum Coke, Marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or further purified by calcining.

Petroleum Consumption: The sum of all refined petroleum products supplied. For each refined petroleum product, the amount supplied is calculated by adding production and imports, then subtracting changes in primary stocks (net withdrawals are a plus quantity and net additions are a minus quantity) and exports.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Products Supplied: See Petroleum Consumption.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD–5 propane.

Refinery (petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Renewable energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, fossil fuels, which are in finite supply). Renewable sources of energy include conventional hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, and wind.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual Fuel Oil: The heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D396 and D975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore powerplants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil, used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Short Ton (coal): A unit of weight equal to 2,000 pounds.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity.

Special Naphthas: All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Standard Industrial Classification (SIC): A set of codes developed by the Office of Management and Budget which categorizes industries into groups with similar economic activities. It has been replaced by **North American Industry Classification System**.

Still Gas (refinery gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and petrochemical feedstock.

Supplemental Gaseous Fuels: Any gaseous substance introduced into or commingled with natural gas that increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke-oven gas, manufactured gas, biomass gas, or air or inerts added for Btu stabilization.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

Unfinished Oils: All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

United States: The 50 States and the District of Columbia.

Value Added by Manufacture: A measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-progress between the beginning and end-of-year inventories.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Energy: See Biomass Waste and Non-Biomass Waste.

Waxes: Solid or semi-solid materials derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is a light-colored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax, whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42 U.S. gallons per barrel.

Wind Energy: Energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators. Wind pushes against sails, vanes, or blades radiating from a central rotating shaft.

Wood Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.