Table ET1. Primary Energy, Electricity, and Total Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

							Primar	Lincigy									
		Coal						Petroleum					Biomass		Electric		
	Coking Coal	Steam Coal	Total	Natural Gas <sup>a</sup>	Distillate Fuel Oil	Jet Fuel <sup>b</sup>	LPG °	Motor Gasoline <sup>d</sup>	Residual Fuel Oil	Other <sup>e</sup>	Total	Nuclear Fuel	Wood and Waste <sup>f,g</sup>	Total <sup>g,h,i,j</sup>	Power Sector <sup>h,j</sup>	Retail Electricity	Total Energy <sup>g,h</sup>
ear								Prices	in Dollars per	Million Btu							
70	0.55	0.42	0.44	0.77	1.09	0.74	1.90	2.71	0.59	2.10	2.04	0.36	1.01	1.13	0.39	5.55	1
75 30	2.07 2.27	1.04 1.61	1.23 1.71	1.42 3.05	2.49 6.76	2.08 6.38	3.87 6.78	4.72 10.09	1.96 3.90	3.85 8.74	3.75 8.56	0.28 0.49	1.29 2.16	2.23 4.35	1.04 1.71	9.78 15.40	3
30 35	2.27	1.90	1.71	5.70	7.69	6.09	9.09	9.10	4.45	10.98	8.75	0.49	2.16	5.18	1.74	19.88	
0	1.80	1.62	1.63	4.16	7.40	5.65	10.62	8.78	3.00	9.88	8.45	0.79	1.52	4.46	1.45	20.85	
15	1.57	1.48	1.48	3.93	6.90	3.93	8.90	8.45	2.61	9.30	7.97	0.65	1.20	4.21	1.40	20.72	
16	1.68	1.43	1.44	4.23	7.76	4.76	10.56	9.20	2.91	10.12	8.79	0.59	1.10	4.50	1.37	20.86	
7	1.75	1.40	1.42	4.36	7.56	4.56	10.62	9.09	3.10	8.73	8.57	0.59	1.01	4.60	1.39	20.68	
18 19	1.67 1.74	1.36 1.33	1.38 1.37	4.18 4.17	6.53 7.23	3.50 3.89	9.33 9.10	8.05 8.66	2.70 2.60	8.73 8.91	7.60 8.13	0.65 0.60	1.07 1.16	4.32 4.52	1.42 1.39	20.85 20.94	
0	1.74	1.32	1.35	4.17	9.90	6.51	11.94	11.87	3.41	10.45	11.07	0.60	1.26	5.51	1.56	20.89	
1	1.73	1.30	1.32	5.02	9.38	5.80	13.45	11.27	3.83	10.96	10.81	0.48	1.87	5.46	1.40	20.48	
2	1.93	1.34	1.36	5.34	8.75	5.45	11.53	10.62	2.48	11.61	10.17	0.43	2.00	5.37	1.37	20.83	
3	1.93	1.37	1.39	6.24	10.05	6.68	13.69	12.16	4.31	11.26	11.65	0.42	1.89	6.14	1.41	20.14	
4	2.31	1.43	1.46	7.24	12.20	8.88	15.00	14.40	4.80	11.28	13.57	0.42	1.97	7.02	1.57	20.40	
5	3.37 3.76	1.63 1.72	1.70 1.81	8.99 10.20	16.53 18.69	13.03 14.94	17.56 19.50	17.67 19.97	6.78 7.67	14.28 19.92	16.98 19.48	0.43 0.40	3.15 3.20	8.59 9.77	1.80 1.79	21.25 23.90	
6 7	3.76	1.72	1.85	9.62	20.02	16.47	21.54	22.26	8.16	20.93	21.36	0.40	3.20	10.09	1.99	25.04	
8	4.56	2.03	2.17	10.69	26.39	22.76	25.59	25.47	11.84	26.62	25.48	0.47	4.02	11.49	2.42	26.24	
9	5.67	2.13	2.26	9.53	16.59	12.60	22.93	18.54	7.79	R 24.44	R 18.56	0.66	3.08	R 9.47	2.20	27.63	R
0	6.18	2.18	2.39	9.24	20.28	16.23	_ 22.72	21.99	9.61	R 27.80	R 21.86	0.78	3.24	R 10.11	2.25	29.05	R
1	7.32	2.74	3.00	8.76	26.47	22.39	R 23.91	28.01	13.26	R 33.78	R 27.62	0.76	3.41	R 11.78	2.44	30.57	R
2	6.96 5.52	2.85 2.73	3.09 2.89	7.38 R 7.59	27.04	22.99	22.50	28.61	14.67	R 33.41 R 30.20	R 28.10 R 27.39	0.79	3.28 R 3.53	R 11.87 R 11.82	2.42	32.29 32.89	R R
3	5.52 5.10	2.73	2.89	8.26	26.56 26.42	21.97 20.70	24.33 27.78	27.91 26.69	13.60 12.74	26.33	26.48	0.80 0.70	3.83	11.76	2.51 2.68	32.38	
-								Exper	nditures in Mil								
- 70	73.4	294.1	367.5	620.2	240.6	30.4	44.8	1,378.2	33.7	176.9	1,904.7	1.5	6.3	2,906.9	-230.3	1,041.7	3,7
'5	290.3	634.0	924.3	1,235.6	610.6	66.8	109.6	2,686.4	217.0	273.1	3,963.5	22.2		6,178.4	-757.9	2,139.6	7,5
0	250.1	1,047.1	1,297.2	2,596.2	1,087.9	236.9	171.1	5,144.7	315.1	681.2	7,636.9	85.1	33.4	11,787.7	-1,385.2	3,647.5	14,
5	149.7	1,348.3	1,498.1	3,954.1	1,164.6	223.6	465.7	4,466.4	56.0	597.7	6,974.1	115.0	39.1	12,628.3	-1,325.6	4,993.3	16,
0 5	51.3 59.1	1,233.5 1,107.3	1,284.8 1,166.3	3,569.5 3,708.4	1,050.2 1,101.7	319.7 196.3	575.0 479.3	4,608.3 4,875.1	43.8 23.1	630.7 650.8	7,227.7 7,326.2	179.7 167.9	58.4 70.8	12,358.0 12,562.5	-1,421.6 -1,514.3	5,797.5 6,636.2	16, 17,
6	60.0	1,086.9	1,146.9	4,194.0	1,101.7	243.9	719.7	5,305.6	28.5	633.4	8,228.8	166.2	70.4	13,852.5	-1,514.3	6,792.0	17,
7	63.6	1,042.6	1,106.3	4,188.9	1,305.8	245.1	582.7	5,328.9	26.2	787.0	8,275.6	134.8		13,842.0	-1,503.8	6,805.8	19,
8	79.0	1,060.5	1,139.5	3,560.3	1,135.4	179.1	464.6	4,826.3	30.6	751.8	7,387.8	85.7	60.8	12,288.6	-1,463.7	7,081.7	17,
9	128.5	1,008.9	1,137.5	3,854.1	1,328.1	201.0	527.3	5,464.4	36.7	816.6	8,374.1	91.3	67.5	13,550.9	-1,447.5	7,362.6	19,
0	91.0	987.1	1,078.1	4,143.6	1,776.1	266.3	734.5	7,310.1	44.9	850.3	10,982.2	119.6	77.7	16,477.3	-1,658.1	7,400.3	22,
12	76.8 51.7	969.3 954.3	1,046.1 1,005.9	4,440.4 4,975.9	1,609.9 1,476.6	204.5 186.0	962.6 916.8	7,019.9 6,739.3	33.1 28.2	733.1 767.9	10,563.1 10,114.8	132.9 138.4	99.2 101.2	16,286.9 16,343.5	-1,589.6 -1,606.0	7,092.1 7,377.2	21, 22,
3	53.2	954.3 984.6	1,005.9	4,975.9 5.626.4	1,476.6	102.1	1,065.3	7,533.2	28.2 55.8	767.9 793.5	11,323.4	121.8	1113.5	18,279.4	-1,566.4	7,377.2	22, 24,
4	67.3	1,064.1	1,131.4	6,439.2	2,210.6	188.0	1,171.8	8,909.0	62.5	819.5	13,361.4	135.0	114.4	21,278.3	-1,859.2	7,353.4	26.
5	106.9	1,252.6	1,359.5	7,867.7	2,915.6	253.5	1,523.0	10,984.2	93.2	969.3	16,738.8	146.7	198.3	26,405.9	-2,213.4	7,934.7	32
;	133.2	1,268.9	1,402.1	7,832.7	3,246.2	349.4	1,096.7	12,242.4	56.6	1,200.8	18,192.0	122.2	193.5	27,763.6	-2,031.2	8,724.5	34
	116.9	1,362.5	1,479.5	7,384.5	3,401.4	492.3	1,307.5	13,317.1	89.5	1,307.4	19,915.3	154.0	205.6	29,243.5	-2,407.0	9,251.2	36
3	188.6	1,543.4	1,732.0	8,066.1	4,074.3	598.8	R 1,216.9	14,543.0	107.3	1,345.5	R 21,885.8	166.9	254.5	R 32,498.7	-2,872.4	9,378.2	R 39
)	144.7 243.3	1,515.3 1,550.0	1,660.0 1,793.3	6,736.4 6,595.8	2,456.9 3,097.7	305.0 337.1	R 1,029.3 R 944.4	10,376.1 12,109.9	29.2 35.4	1,216.9 R 1,382.5	R 15,413.5 R 17,906.9	150.3 242.0	161.7 190.5	R 24,434.6 R 27,006.3	-2,306.2 -2,586.7	9,158.8 10.171.9	R 31 R 34
1	243.3	1,550.0	2,074.4	6,520.7	4,081.4	407.9	R 956.2	15,027.2	57.0	R 1,495.1	R 22,024.8	260.4	R 214.6	R 31,272.9	-2,586.7 -2,731.6	10,171.9	R 39
2	246.4	1,671.4	1,917.8	5,628.3	4,008.1	473.0	R 798.5	15,219.1	46.9	R 1,467.8	R 22,013.5	231.8	R 208.6	R 30,148.4	-2,606.2	11,422.9	R 38
3	209.9	1,691.7	1,901.6	R 6,047.9	4,384.6	484.5	R 1,145.7	R 15,407.8	34.7	R 1,624.1	R 23,081.4	243.2	R 232.7	R 31,743.2	R -2,642.4	11,520.6	R 40
4	183.1	1,552.1	1,735.2	6,993.8	4,430.1	467.4	1,273.4	14,778.3	21.9	1,729.3	22,700.3	227.6		32,198.3	-2,822.8	11,364.6	40.

a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.
 b Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

c Liquefied petroleum gases, includes ethane and olefins.

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

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

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

<sup>&</sup>lt;sup>g</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.

h There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

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

j Electricity imports are included in total primary energy and electric power sector but are not shown separately.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

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

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

M Table ET2. Total End-Use Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

						Petroleum				Biomass			
	Coal	Natural Gas <sup>a</sup>	Distillate Fuel Oil	Jet Fuel <sup>b</sup>	LPG °	Motor Gasoline <sup>d</sup>	Residual Fuel Oil	Other <sup>e</sup>	Total	Wood and Waste <sup>f,g</sup>	Total <sup>g,h,i</sup>	Retail Electricity	Total Energy <sup>g,h,i</sup>
Year	<u>'</u>	<u>'</u>	1	'	'	Prices in	Dollars per Millio	on Btu			'	1	
970	0.57	0.80	1.10	0.74	1.90	2.71	0.56	2.10	2.09	1.01	1.35	5.55	1.7
975	1.83	1.42	2.50	2.08	3.87	4.72	1.95	3.85	3.93	1.29	2.65	9.78	3.3
980	2.05	3.05	6.78	6.38	6.78	10.09	3.30	8.74	8.90	2.16	5.47	15.40	6.5
985	2.05	5.71	7.74	6.09	9.09	9.10	4.39	10.98	8.78	2.30	6.74	19.88	8.4
990	1.80	4.35	7.44	5.65	10.62	8.78	3.10	9.88	8.50	1.84	6.10	20.85	8.0
995	1.68	4.17	6.95	3.93	8.90	8.45	2.60	9.30	8.02	1.45	5.80	20.72	7.9
996	1.70	4.45	7.79	4.76	10.56	9.20	2.94	10.12	8.85	1.38	6.31	20.86	8.3
997	1.74	4.63	7.59	4.56	10.62	9.09	3.08	8.73	8.61	1.34	6.39	20.68	8.4
998	1.69	4.52	6.58	3.50	9.33	8.05	2.75	8.79	7.67	1.38	5.97	20.85	8.3
999	1.72	4.45	7.28	3.89	9.10	8.66	2.81	8.95	8.22	1.46	6.17	20.94	8.4
000	1.64	4.52	9.95	6.51	11.94	11.87	3.64	10.46	11.16	1.68	7.69	20.89	9.7
001	1.67	5.24	9.42	5.80	13.45	11.27	3.93	10.97	10.88	2.33	7.96	20.48	9.9
002	1.82	5.69	8.82	5.45	11.53	10.62	3.13	11.68	10.27	2.34	7.88	20.83	9.9
003	1.85	6.56	10.10	6.68	13.69	12.16	4.38	11.31	11.72	2.10	8.94	20.14	10.7
004	2.19	7.76	12.25	8.88	15.00	14.40	5.08	11.29	13.64	2.35	10.52	20.40	12.1
005	3.03	9.61	16.59	13.03	17.56	17.67	6.73	14.47	17.08	3.65	13.15	21.25	14.5
2006	3.26	10.92	18.74	14.94	19.50	19.97	7.78	20.31	19.53	3.74	15.10	23.90	16.6
007	3.26	10.22	20.06	16.47	21.54	22.26	8.43	21.38	21.45	3.95	15.91	25.04	17.5
800	4.05	10.99	26.41	22.76	25.59	25.47	12.06	27.31 R 25.06	25.54 R 18.61	4.78	18.04 R 14.44	26.24	19.5 R 16.7
009 010	5.14	10.22 10.08	16.63	12.60	22.93	18.54	7.87	R 28.48	R 21.91	3.71	R 16.03	27.63 29.05	R 18.4
011	5.23 5.97	9.50	20.31 26.53	16.23 22.39	22.72 R 23.91	21.99 28.01	9.78 13.26	R 34.43	R 27.66	3.74 R 3.98	R 18.59	30.57	R 20.8
2012	5.84	8.73	27.08	22.99	22.50	28.61	14.63	R 34.10	R 28.15	3.86	R 18.84	32.29	R 21.4
2012	4.83	R 8.11	26.59	21.97	24.33	27.91	13.56	R 32.25	R 27.51	R 4.23	R 17.82	32.89	R 20.4
2014	4.57	8.51	26.47	20.70	27.78	26.69	12.73	31.15	26.81	4.48	17.43	32.38	20.4
_			20		27.110		litures in Million D		20.01			02.00	20.0
-	194.1	593.0	237.0	30.4	44.8	•		176.9	1,883.2	6.3	0.070.0	1,041.7	3,718.
970 975	194.1 467.5	1,174.9		30.4 65.8	109.6	1,378.2	15.8 42.2	273.1	3,770.3		2,676.6	2,139.6	
980	467.5 464.9	2,543.0	593.3 1,060.3	236.9	171.1	2,686.4 5,144.7	42.2 66.9	681.2	7,361.2	7.9 33.4	5,420.5 10,402.5	3,647.5	7,560. 14,050.
985	359.8	3,933.4	1,143.6	223.6	465.7	4,466.4	40.8	597.7	6,937.8	39.1	11,302.7	4,993.3	16,296.
990	223.9	3,423.9	1,041.1	319.7	575.0	4,608.3	22.9	630.7	7,197.7	54.2	10,936.3	5,797.5	16,733.
995	193.7	3,498.7	1,092.3	196.3	479.3	4,875.1	4.9	650.8	7,197.7	57.0	11,048.2	6,636.2	17,684.
996	194.1	3,865.2	1,289.2	243.9	719.7	5,305.6	6.0	633.4	8,197.7	56.5	12,313.5	6,792.0	19,105
997	173.5	3,869.6	1,297.7	245.1	582.7	5,328.9	6.0	787.0	8,247.4	47.6	12,338.2	6,805.8	19,144
998	171.7	3,254.9	1,126.8	179.1	464.6	4,826.3	3.0	751.2	7,351.1	47.2	10,824.9	7,081.7	17,906
999	207.3	3,515.9	1,316.0	201.0	527.3	5,464.4	2.2	816.3	8,327.2	53.1	12,103.4	7,362.6	19,466
000	172.4	3,652.4	1,763.2	266.3	734.5	7,310.1	9.5	850.3	10,933.9	60.6	14,819.3	7,400.3	22,219
001	165.8	3,943.5	1,597.3	204.5	962.6	7,019.9	5.5	733.1	10,523.0	65.1	14,697.4	7,092.1	21,789
002	144.3	4,457.1	1,460.6	186.0	916.8	6,739.3	5.4	767.5	10,075.5	60.5	14,737.5	7,377.2	22,114
003	139.7	5,225.5	1,754.8	102.1	1,065.3	7,533.2	24.9	793.1	11,273.4	74.4	16,713.0	7,408.8	24,121
004	180.6	5,850.5	2,191.6	188.0	1,171.8	8,909.0	30.7	819.4	13,310.5	77.4	19,419.1	7,353.4	26,772
005	245.8	7,136.4	2,890.1	253.5	1,523.0	10,984.2	46.0	968.1	16,665.0	145.3	24,192.5	7,934.7	32,127
006	261.7	7,176.3	3,221.0	349.4	1,096.7	12,242.4	46.1	1,199.1	18,154.7	139.7	25,732.4	8,724.5	34,456
2007	260.0	6,564.7	3,373.4	492.3	_ 1,307.5	13,317.1	64.4	1,304.9	_ 19,859.6	152.1	_ 26,836.5	9,251.2	_ 36,087
8008	354.7	7.248.4	4,033.9	598.8	R 1.216.9	14,543.0	93.0	1,343.5	R 21.829.1	194.0	R 29,626.3	9,378.2	R 39,004
2009	274.6	6,355.1	2,437.6	305.0	R 1,029.3	10,376.1	23.2	_ 1,214.3	R 15.385.6	113.1	R 22,128.4	9,158.8	H 31,287
2010	375.3	6,033.0	3,072.9	337.1	R 944.4	12,109.9	28.8	R 1,380.4	H 17 873 5	_ 137.8	R 24,419.6	10,171.9	H 34 591
011	422.3	5,983.8	4,040.3	407.9	R 956.2	15,027.2	53.3	R 1 491 3	H 21.976.3	R 158.9	R 28,541.3	10,846.5	R 39,387
012	361.2	5,046.5	3,978.9	473.0	_ <sup>R</sup> 798.5	_ 15,219.1	42.2	H 1 463 7	<sup>R</sup> 21,975.4	H 159.1	H 27,542.3	11,422.9	H 38,965
013	334.9	<sup>R</sup> 5,540.9	4,355.4	484.5	R 1,145.7	<sup>R</sup> 15,407.8	32.2	H 1,619.0	R 23,044.5	<sup>R</sup> 180.5	R 29,100.8	11,520.6	R 40,621.
014	294.1	6,235.6	4,398.0	467.4	1,273.4	14,778.3	20.6	1,713.9	22,651.5	194.3	29,375.4	11,364.6	40,740.

a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>&</sup>lt;sup>b</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

<sup>&</sup>lt;sup>c</sup> Liquefied petroleum gases, includes ethane and olefins.

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

<sup>&</sup>lt;sup>e</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, and the other petroleum products as described in the Technical Notes. Section 4. "Other Petroleum Products."

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

<sup>&</sup>lt;sup>9</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.

h There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

 $<sup>^{\</sup>rm i}$  For 1981 through 1992, includes fuel ethanol blended into gasoline that is not shown in the motor gasoline column.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, - = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

Notes: Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. • Expenditure totals may not equal sum of components due to independent rounding.

Web Page: All data available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

Table ET3. Residential Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

				Primary E	nergy									
				Petrole	um		Biomass							
	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Distillate Fuel Oil	Kerosene	LPG °	Total	Wood d	Total <sup>e</sup>	Retail Electricity	Total Energy <sup>e</sup>				
Year	Prices in Dollars per Million Btu													
970	1.43	1.00	1.23	1.56	2.04	1.36	0.57	1.10	6.99	1.7				
975	3.07	1.58	2.51	3.12	4.29	2.80	1.12	1.93	11.32	3.1				
980	3.70	3.13	7.05	8.43	8.08	7.27	2.87	3.72	16.76	5.5				
985	3.86	6.14	7.66	8.47	9.63	8.33	3.24	6.38	21.62	8.7				
990	3.39	4.81	7.57	9.53	11.37	9.43	3.56	5.42	22.95	8.4				
995	3.08	4.53	6.58	8.79	9.54	8.36	2.90	4.99	24.44	8.4				
996	3.01	4.80	7.47	8.91	11.14	9.89	3.32	5.49	24.83	8.7				
997	3.17	5.00	7.21	9.41	10.97	9.70	3.31	5.64	25.12	9.0				
998	3.12	4.94	6.15	7.70	9.39	8.45	2.87	5.42	25.41	9.5				
999	3.08	4.93	6.76	7.39	9.23	8.47	2.94	5.45	25.58	9.3				
2000	3.06	4.93	9.12	9.38	12.08	11.22	4.41	5.83	24.98	9.4				
2001	3.11	5.60	8.90	9.85	13.72	12.65	4.22	6.79	24.20	10.3				
2002	3.11	6.19	8.48	8.69	12.00	11.36	3.82	7.01 8.05	24.28	10.5				
2003 2004	3.25 3.36	7.10 8.31	10.11 11.78	10.09	14.08 15.46	13.30 14.72	4.59 5.21	9.23	24.49 24.42	11.2 12.3				
2004	3.36 4.27	10.39	15.71	11.20 15.49	17.70	17.35	6.91	11.45	24.42	14.3				
2006	4.66	11.76	17.87	19.69	19.81	17.33	7.96	12.63	28.63	16.4				
2007	4.31	10.82	19.92	22.33	21.73	21.45	8.73	12.13	29.93	16.3				
2007	4.31	11.65	23.62	23.47	25.75	25.42	10.83	13.21	31.49	17.3				
2008	_	11.03	16.14	23.70	23.75	22.63	8.07	12.31	34.01	17.3				
2010		11.14	20.47	25.17	22.93	22.71	9.51	12.40	36.51	18.4				
2011	_	10.33	27.33	28.49	23.81	R 24.21	11.43	R 11.75	38.91	R 18.4				
2012	_	9.78	27.24	29.88	22.97	23.36	12.72	11.13	41.43	19.3				
2013	_	R 8.94	28.23	30.54	24.76	25.05	12.56	R 10.70	42.76	R 18.1				
2014	_	9.14	27.29	32.87	28.35	28.27	12.24	11.13	42.38	17.9				
					Expenditures in N	lillion Dollars								
970	16.3	345.1	135.5	4.8	37.9	178.2	1.7	541.4	408.1	949.				
975	8.6	542.8	284.4	5.3	92.6	382.4	3.2	937.0	806.7	1,743.				
980	5.8	1,236.0	377.7	4.0	112.6	494.3	22.0	1,758.2	1,273.3	3,031.				
985	5.3	2,143.5	276.2	20.4	176.2	472.8	25.8	2,647.4	1,645.1	4,292.				
990	4.5	1,644.2	213.4	11.7	307.3	532.5	30.9	2,212.1	1,982.5	4,194.				
995	2.5	1,792.2	146.1	11.6	316.1	473.7	13.6	2,282.0	2,387.3	4,669.				
996	2.4	1,981.2	167.8	11.6	495.5	674.9	16.1	2,674.7	2,448.3	5,123				
997	1.6	1,975.2	153.6	13.6	460.9	628.0	10.5	2,615.4	2,461.9	5,077.				
998	1.2	1,652.9	95.0	11.9	368.7	475.6	8.1	2,137.8	2,584.2	4,722.				
999	0.2	1,799.3	117.7	25.4	410.5	553.6	8.5	2,361.6	2,676.4	5,038.				
2000	0.1	1,879.1	154.0	18.9	553.4	726.3	13.8	2,619.3	2,617.7	5,237.				
2001	0.1 2.3	1,983.0	137.4 109.2	12.4 7.9	785.3 733.6	935.1 850.8	17.9 16.5	2,936.2	2,667.2 2,844.6	5,603. 6,038.				
	2.3 0.3	2,324.3 2,818.5	109.2 134.3		733.6 853.3			3,193.9 3,842.4	2,844.6 2,813.1					
2003 2004	0.3 1.5	2,818.5 3,084.4	134.3 139.8	15.1 14.1	853.3 816.7	1,002.7 970.5	20.9 24.3	3,842.4 4,080.7	2,813.1 2,758.6	6,655 6,839				
2004	1.5 1.3	3,084.4 3,783.5	139.8 177.8	14.1 19.2	816.7 1,048.1	970.5 1,245.1	24.3 55.4		2,758.6 3,032.8	6,839 8,118				
2005	0.1	3,763.5 3,779.8	155.9	17.1	720.7	1,245.1 893.7	56.6	5,085.3 4,730.1	3,381.9	8,112.				
2006	1.8	3,779.8	158.0	17.1	909.7	1,079.8	68.7	4,782.8	3,611.8	8,394				
2007	1.0	4,077.1	164.9	6.5	1,009.2	1,180.6	95.3	5,353.0	3,685.4	9,038				
2009	_	3,686.6	84.8	9.6	895.2	989.5	47.6	4,723.6	3,812.7	8,536				
2010	_	3,445.0	79.7	9.0	805.3	894.1	49.0	4 388 1	4,320.8	8,708				
2010	_	3,329.5	105.8	7.5	R 781.6	R 894.9	60.2	R 4,284.6	4,621.2	R 8,905				
2012	_	2,753.9	72.2	2.6	632.1	706.9	62.5	3,523.3	4,871.0	8,394.				
2012	_	3,038.0	91.4	3.9	927.0	1,022.3	85.2	4,145.5	4,962.4	9,107.				
	_	3,309.5	110.4	6.6	1,057.3	1,174.3	83.1	4,566.8	4,846.5	9,413.				

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars. Note: Expenditure totals may not equal sum of components due to independent rounding.

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
 Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.
 Liquefied petroleum gases, includes ethane and olefins.
 Wood and wood-derived fuels.
 There are no direct fuel costs for geothermal, photovoltaic, or solar thermal energy.

M Table ET4. Commercial Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

					Primary	Energy									
					Petro	leum			Biomass						
	Coal	Natural Gas <sup>a</sup>	Distillate Fuel Oil	Kerosene	LPG <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Total <sup>d</sup>	Wood and Waste <sup>e,f</sup>	Total f,g,h	Retail Electricity	Total Energy <sup>f,g,h</sup>			
Year	Prices in Dollars per Million Btu														
1970	0.53	0.83	1.05	0.74	1.37	2.71	0.64	1.22	0.57	0.88	7.12	2.14			
1975	1.49	1.45	2.33	2.44	2.43	4.72	1.97	2.69	1.12	1.62	11.41	3.40			
1980	1.82	3.13	6.53	6.14	4.94	10.09	3.97	6.91	2.87	3.52	17.60	6.37			
1985	2.00	5.61	6.30	8.47	8.13	9.10	4.39	6.78	3.24	5.65	23.36	10.09			
1990	1.77	4.44	5.63	9.53	9.20	8.78	3.15	6.74	2.34	4.57	24.21	10.07			
1995	1.71	4.28	4.48	8.79	7.79	8.45	2.57	5.52	1.37	4.25	23.27	10.50			
1996	1.70	4.59	5.61	8.91	9.44	9.20	2.95	6.88	1.49	4.62	23.49	10.7			
1997	1.72	4.81	5.16	9.41	9.97	9.09	3.08	6.45	1.42	4.82	23.19	11.00			
1998	1.70	4.68	4.16	7.70	8.90	8.05	2.91	5.80	1.28	4.66	23.10	11.7			
1999	1.69	4.68	4.61	7.39	8.33	8.66	2.85	6.06	0.97	4.69	23.20	11.6			
2000	1.61	4.63	7.42	9.38	11.07	11.87	3.70	8.76	1.41	4.86	23.36	11.75			
2001	1.62	5.28	7.06	9.85	12.50	11.27	4.16	9.36	3.79	5.61	22.30	12.02			
2002	1.75	5.85	6.33	8.69	9.24	10.62	3.29	7.93	1.87	5.79	23.03	12.39			
2003	1.81	6.73	7.53	10.09	11.51	12.16	4.39	9.40	2.55	6.82	22.12	12.39			
2004	2.11	7.78	9.57	11.20	13.52	14.40	5.18	11.57	2.38	7.81	22.19	13.50			
2005	2.80	9.24	14.44	15.49	16.34	17.67	6.70	15.28	3.58	9.38	22.98	14.90			
2006 2007	2.87 2.96	10.56 9.80	16.66 18.37	19.69	18.14 19.59	19.97 22.26	7.89	17.25 18.95	3.30 3.78	10.81 10.02	24.94 25.72	16.9			
2007	2.96 4.61		24.66	22.33 23.47	23.33	25.47	12.41	23.81	4.38	10.02	26.89	16.6 17.3			
2008	5.95	10.41 9.18	24.66 14.67	23.47	18.66	25.47 18.54	7.98	15.82	2.66	9.31	27.09	16.5			
2009	5.07	8.81	18.48	25.17	19.60	21.99	11.66	18.65	2.94	9.11	28.76	17.50			
2011	5.04	9.02	24.63	28.49	21.75	28.01	15.63	R 23.59	3.24	R 9.61	30.28	18.19			
2012	5.37	8.21	24.48	29.88	19.42	28.61	16.91	23.01	2.73	_ 8.90	32.05	19.13			
2013	5.14	R 7.69	24.63	30.54	20.70	27.91	16.68	23.55	R 2.95	R 8.51	32.43	R 18.06			
2014	5.10	8.11	23.24	32.87	23.26	26.69	15.95	25.39	3.04	10.01	31.86	17.93			
						Expenditures in l	Million Dollars								
1970	4.8	111.4	21.4	1.7	2.3	11.4	2.2	39.1	(s)	155.3	316.4	471.7			
1975	9.8	269.8	48.7	3.1	4.8	23.7	4.8	85.1	0.1	364.7	568.1	932.8			
1980	10.8	606.7	118.8	0.5	6.3	43.6	5.6	174.9	0.5	792.9	1,006.9	1,799.7			
1985	9.6	905.1	89.9	0.6	13.6	33.4	7.6	145.1	0.6	1,060.7	1,468.2	2,528.8			
1990	9.4	738.5	65.9	1.0	22.8	35.5	1.4	126.6	4.4	879.3	1,815.9	2,695.2			
1995	9.3	864.6	42.7	5.1	23.7	3.4	0.1	75.0	4.4	953.3	2,552.9	3,506.2			
1996	10.0	955.6	57.7	7.6	38.5	3.7	0.1	107.5	5.2	1,078.4	2,636.1	3,714.			
1997	7.1	961.3	57.6	3.0	38.4	3.6	1.1	103.6	4.6	1,076.7	2,628.9	3,705.6			
1998	5.4	800.5	36.5	2.9	32.1	8.7	(s)	80.2	3.8	890.0	2,735.5	3,625.4			
1999	0.7	873.4	37.6	1.6	34.0	7.7	(s) 0.1	80.9	3.9	958.9	2,853.4	3,812.3			
2000	0.5	896.6	68.1	1.7	46.5	9.8		126.3	4.7	1,028.1	2,932.2	3,960.2			
2001	0.3	945.1	62.7	1.9	65.6	25.4	0.4	156.1	3.3	1,104.9	2,733.4	3,838.3			
2002 2003	9.7	1,050.8	35.6	1.4	51.8	13.7	1.3	103.8 138.1	7.6	1,171.8 1,439.0	2,894.0 2,671.5	4,065.8			
	1.2	1,289.9	51.9	1.1	69.9 80.2	12.8	2.5	138.1 156.7	9.8			4,110.5			
2004 2005	8.3 9.6	1,398.0 1,638.0	59.1 106.4	1.4 2.5	80.2 58.5	14.3 19.1	1.6 0.2	156.7 186.6	10.6 16.0	1,573.6 1,850.2	2,925.2 3,104.6	4,498.8 4,954.8			
2005	9.6 0.5	1,638.0 1,654.4	106.4 129.2	2.5 2.9	58.5 63.7	19.1 9.4	0.2 0.1	186.6 205.3	16.0 15.7	1,850.2 1,875.9	3,104.6 3,344.5	4,954.8 5,220.4			
2006	11.2	1,640.7	119.9	1.0	68.4	9.4	0.1	198.7	19.0	1,875.9	3,513.9	5,220.2			
2007	22.4	1,834.7	150.3	1.0	89.3	10.9	4.4	255.9	23.6	2,136.6	3,575.2	5,711.8			
2009	38.0	1,535.3	115.2	1.1	49.4	12.0	0.6	178.2	12.3	1,763.9	3,500.7	5,264.6			
2010	23.3	1,363.5	120.6	1.9	51.8	9.2	5.6	189 1	15.0	1,590.9	3,740.7	5,331.6			
2011	20.5	1,495.0	176.4	1.5	R 53.7	11.3	9.7	R 252.5	16.6	R 1,784.6	3,989.0	R 5,773.6			
2012	11.4	1,207.5	165.7	0.6	56.8	11.4	5.0	239.4	17.2	1 475 5	4 211 4	_ 5,686.8			
2013	8.9	1,341.3	190.2	1.2	75.7	R 11.4	0.1	278.6	R 16.0	R 1,644.8	4,170.8	R 5,815.5			
2014	8.1	1,543.5	155.8	1.8	78.5	439.8	0.4	676.3	17.3	2,245.2	4,060.0	6,305.2			

a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

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

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

b Liquefied petroleum gases, includes ethane and olefins.

<sup>&</sup>lt;sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Includes small amounts of petroleum coke not shown separately.

e Wood, wood-derived fuels, and biomass 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 the use of wood and biomass waste beginning in 1989.

<sup>&</sup>lt;sup>9</sup> There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

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

Table ET5. Industrial Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

						Pr	imary Energy							
		Coal					Petr	oleum			Biomass			
	Coking Coal	Steam Coal	Total	Natural Gas <sup>a</sup>	Distillate Fuel Oil	LPG <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total	Wood and Waste <sup>e,f</sup>	Total <sup>f,g,h</sup>	Retail Electricity	Total Energy <sup>f,g,h</sup>
Year	Prices in Dollars per Million Btu													
970	0.55	0.53	0.54	0.53	0.68	1.41	2.71	0.54	1.81	1.35	1.44	0.71	3.74	1.0
975	2.07	1.49	1.82	1.22	2.27	2.55	4.72	1.98	3.41	2.90	1.44	1.78	7.83	2.5
980 985	2.27 2.08	1.82 2.00	2.04 2.03	2.87 4.95	5.56 6.38	5.22 8.79	10.09 9.10	3.23 4.39	7.97 9.78	6.66 8.36	1.43 1.43	3.35 4.64	13.18 16.75	4.8 6.9
990	1.80	1.77	1.78	3.72	5.54	9.90	8.78	3.15	8.02	7.66	1.00	4.02	17.15	6.4
995	1.57	1.71	1.67	3.48	4.67	7.67	8.45	2.57	7.47	6.96	1.24	3.67	15.02	5.8
996	1.68	1.70	1.69	3.74	5.68	9.35	9.20	2.95	8.27	7.89	1.08	3.97	14.88	6.0
997	1.75	1.72	1.73	3.86	5.44	9.11	9.09	3.08	7.21	7.06	1.11	4.06	14.56	6.1
998	1.67	1.70	1.68	3.73	4.33	7.96	8.05	2.91	7.21	6.61	1.24	3.82	14.74	6.1
999	1.74 1.66	1.69 1.61	1.72 1.64	3.54 3.76	5.76 9.30	8.16 11.36	8.66 11.87	2.85 3.70	7.28 8.75	7.01 9.17	1.38 1.42	3.80 4.40	14.79 14.93	5.9 6.5
000	1.73	1.62	1.67	4.64	7.34	12.05	11.27	4.16	8.94	9.07	1.92	4.79	14.90	6.8
002	1.93	1.75	1.82	4.73	7.08	10.04	10.62	3.29	9.45	9.18	2.09	5.12	14.72	7.1
2003	1.93	1.81	1.85	5.36	8.47	12.42	12.16	4.39	9.05	9.42	1.62	5.50	14.55	7.6
004	2.31	2.11	2.18	6.71	10.99	13.83	14.40	5.18	8.89	10.44	1.79	6.64	14.43	8.3
005	3.37	2.80	3.03	8.50	15.08	17.08	17.67	6.70	11.56	13.59	2.71	8.53	15.61	10.0
9006	3.76	2.87	3.26	9.72	17.22	18.90	19.97	7.89	16.69	17.14	2.65	9.84	17.72	11.6
007 008	3.70 4.56	2.96 3.47	3.27 4.02	9.26 10.02	18.71 25.37	21.22 25.30	22.26 25.47	8.59 12.41	17.43 22.36	18.22 22.86	2.52 2.84	10.10 P 11.07	18.96 19.71	12.2 13.2
009	5.67	4.27	5.03	9.43	15.01	19.52	18.54	7.98	R 20.11	R 18.31	2.66	R 10.56	20.47	R 13.1
010	6.18	3.92	5.24	9.10	18.87	22.15	21.99	11.66	R 23.00	R 21.60	2.78	R 10.56 R 10.57	20.75	R 13.1
011	7.32	4.10	6.03	8.16	25.47	R 24.67	28.01	15.63	R 27.61	R 26.64	2.78	H 11 12	21.46	R 13 7
012	6.96	4.24	5.85	_ 7.26	25.67	19.67	28.61	16.91	R 27 32	R 26.40	2.64	R 10.55	22.34	H 13.5
013	5.52	3.93	4.82	R 6.86	25.05	20.92	27.91	16.68	R 26.34	R 25.75	R 2.60	<sup>H</sup> 10.16	22.61	H 13.1
014	5.10	3.83	4.56	7.68	23.38	23.84	26.69	15.95	25.39	24.85	3.04	10.39	22.50	13.2
-							Expend	litures in Millio	n Dollars					
970	73.4	99.3	172.7	136.5	33.3	4.3	39.2	12.0	121.7	210.6	4.5	524.3	317.2	841.
975	290.3	158.8	449.1	362.3	115.9	11.2	46.9	32.6	198.7	405.3	4.6	1,221.3	764.8	1,986.
980	250.1	198.2	448.3	700.3	155.7	49.7	51.3	56.3	525.9	838.9	10.8	1,998.3	1,367.4	3,365.
985 990	149.7 51.3	195.2 158.6	344.9 209.9	884.9 1,041.2	163.4 127.7	264.8 232.9	57.0 45.0	30.5 20.1	418.4 418.8	934.1 844.4	12.7 18.8	2,177.0 2,114.8	1,880.0 1,999.1	4,057. 4,113.
995	59.1	122.8	181.9	841.7	93.6	128.3	57.8	3.3	434.0	717.0	39.1	1,779.7	1,695.7	3,475.
996	60.0	121.6	181.7	928.1	128.2	175.5	68.1	3.6	420.5	795.8	35.2	1,940.7	1,707.2	3,648.
997	63.6	101.1	164.8	933.0	125.9	74.6	60.3	3.9	565.4	830.1	32.5	1,960.4	1,714.8	3,675.
998	79.0	86.0	165.0	801.0	103.7	30.4	46.1	1.7	528.3	710.1	35.2	1,711.4	1,761.8	3,473.
999	128.5	77.8	206.4	842.4	164.4	65.4	45.9	1.6	557.9	835.3	40.7	1,924.7	1,832.6	3,757.
000	91.0	80.8	171.8	875.1	219.3	118.9	65.6	8.4 3.6	601.5	1,013.8	42.1 43.8	2,102.7 2,089.2	1,850.1	3,952.
001	76.8 51.7	88.6 80.6	165.4 132.3	1,013.0 1,080.0	149.1 113.9	102.2 121.0	107.8 106.9	3.3	504.3 523.2	867.0 868.3	36.5	2,089.2	1,691.2 1,638.3	3,780. 3,755.
002	53.2	84.9	138.1	1,114.2	159.1	128.4	127.7	17.0	544.8	977.0	43.7	2,117.0	1,923.9	3,755. 4,197.
004	67.3	103.5	170.8	1,364.4	233.3	246.6	172.9	21.6	559.1	1,233.4	42.5	2,811.1	1,669.4	4,480.
005	106.9	128.0	234.9	1,713.7	304.6	375.8	205.5	37.3	660.8	1,584.1	73.9	3,606.6	1,796.7	5,403.
006	133.2	127.9	261.1	1,741.0	301.6	292.4	246.5	35.1	834.4	1,710.1	67.4	3.779.5	1,997.7	5,777.
007	116.9	130.0	246.9	1,291.0	341.0	303.0 R 86.7	254.5	50.1	908.6	1,857.3	64.5	3,459.6 R 3,569.7	2,125.0	5,584.
800	188.6	143.7	332.3	1,335.3	500.4	<sup>H</sup> 86.7	245.8	74.3	919.8	R 1,827.0	75.1	<sup>H</sup> 3,569.7	2,117.1	R 5,686.
009	144.7 243.3	92.0	236.6 352.0	1,132.2	267.9 351.3	R 64.3 R 67.3	136.4 140.0	16.2 10.8	825.9 R 921.7	R 1,310.8 R 1,491.1	53.2 73.9	R 2,732.8 R 3,140.1	1,844.8	R 4,577. R 5,250.
010	243.3 291.7	108.8 110.1	352.0 401.8	1,223.1 1,154.9	351.3 472.1	R 81.4	140.0	10.8 20.9	R 979.1	R 1,724.6	73.9 R 82.1	R 3,363.4	2,109.9 2,235.9	R 5,599.
012	246.4	103.3	349.8	1,081.0	418.1	R 73.3	190.6	19.8	R 980.2	R 1,682.0	79.5	R 3,192.2	2,340.0	R 5,532.
013	209.9	116.1	326.0	R 1,159.0	480.2	R 82.7	R 195.6	14.3	R 1,126.7	R 1,899.5	R 79.3	R 3,463.7	2,386.9	R 5,850.6
014	183.1	102.8	286.0	1,379.3	428.2	88.2	131.8	7.2	1,202.2	1,857.7	93.9	3,616.9	2,457.7	6,074.6

a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

b Liquefied petroleum gases, includes ethane and olefins.

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

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

<sup>&</sup>lt;sup>e</sup> Wood, wood-derived fuels, and biomass 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 the use of wood and biomass waste beginning in 1989.

g There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

<sup>&</sup>lt;sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

Notes: Expenditure totals may not equal sum of components due to independent rounding. • Industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

M Table ET6. Transportation Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

						Primary Energy	,						
						Petro	leum						
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel <sup>a</sup>	LPG <sup>b</sup>	Lubricants	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Total	Total <sup>d</sup>	Retail Electricity	Total Energy <sup>d</sup>
Year	·		·	·	·	Prices	in Dollars per Mi	lion Btu	·	·	•		
1970	0.53	_	2.17	1.27	0.74	1.37	5.08	2.71	0.57	2.50	2.50	_	2.50
1975	1.49	_	3.45	2.77	2.08	2.43	7.48	4.72	1.76	4.46	4.46	_	4.46
1980		_	9.02	7.19	6.38	4.94	14.36	10.09	3.49	9.63	9.63	_	9.63
1985	_	_	9.99	8.55	6.09	9.90	18.18	9.10	4.38	8.97	8.97	_	8.97
1990	_	1.94	9.32	8.24	5.65	11.02	20.61	8.78	2.42	8.61	8.61	_	8.61
1995	_	2.96	8.36	7.68	3.93	12.15	21.75	8.45	2.66	8.19	8.19	21.13	8.19
1996	_	3.27	9.29	8.49	4.76	11.91	21.63	9.20	2.91	8.93	8.93	20.84	8.93
1997	_	3.85	9.39	8.33	4.56	11.32	21.82	9.09	3.09	8.81	8.80	18.14	8.81
1998 1999	_	3.35 3.58	8.11	7.25 7.87	3.50	10.83 12.82	21.44	8.05	2.58	7.80	7.79 8.41	18.95	7.80 8.41
2000	_	3.58 6.82	8.81 10.87	7.87 10.36	3.89 6.51	12.82	23.04 23.20	8.66 11.87	2.73 3.23	8.41 11.48	11.48	17.05 19.41	11.48
2000		9.07	11.01	9.99	5.80	16.47	23.20	11.27	3.23	10.96	10.96	18.53	10.96
2002	_	7.91	10.72	9.17	5.45	14.76	26.70	10.62	2.36	10.34	10.33	19.13	10.33
2003	_	9.01	12.42	10.46	6.68	16.95	28.94	12.16	4.33	11.92	11.92	24.06	11.92
2004	_	10.19	15.13	12.60	8.88	18.57	30.11	14.40	4.80	14.08	14.07	23.12	14.07
2005	_	11.48	18.56	17.01	13.03	20.81	35.22	17.67	6.89	17.61	17.61	38.32	17.61
2006	_	10.80	22.31	19.10	14.94	22.46	43.88	19.97	7.46	19.88	19.88	29.48	19.88
2007	_	5.96	23.70	20.33	16.47	24.66	47.16	22.26	7.90	21.92	21.92	28.60	21.92
2008	_	7.75	27.23	26.83	22.76	28.61	55.12	25.47	10.46	25.88	25.87	34.66	25.87
2009	_	3.99	20.32	17.03	12.60	23.43	56.07	18.54	7.59	18.44	18.43	31.62	18.43
2010	_	5.11	25.19	20.62	16.23	25.75	58.80	21.99	8.07	21.95	21.94	31.20	21.94
2011	_	13.06	31.64	26.77	22.39	28.51	69.54	28.01	11.02	28.01	28.00	25.00	28.00
2012 2013	_	12.09 R 7.69	33.04 32.71	27.41 26.89	22.99 21.97	27.56 29.59	72.11 69.42	28.61 27.91	12.27 11.78	28.61 27.90	28.60 27.89	23.69 25.69	28.60
2013	_	8.11	33.16	27.01	20.70	33.67	69.44	26.69	11.78	26.98	26.97	27.62	27.89 26.97
_		0.11	00.10	27.01	20.70		nditures in Millior		11.00	20.00	20.07	27.02	20.07
_													
1970	0.3	_	7.9	46.9	30.4	0.3	40.8	1,327.5	1.5	1,455.3	1,455.6	_	1,455.6
1975	0.1	_	6.0	144.2	65.8	0.9	60.0	2,615.8	4.7	2,897.4	2,897.5	_	2,897.5
1980	_	_	22.2	408.1	236.9 223.6	2.4	128.6	5,049.8	5.1	5,853.1	5,853.1	_	5,853.1
1985 1990	_		10.1 10.1	614.1 634.1	223.6 319.7	11.0 12.0	148.2 189.1	4,376.0 4,527.8	2.7 1.4	5,385.8 5,694.1	5,417.7 5,730.2	_	5,417.7 5,730.2
1995		0.2	9.8	809.9	196.3	11.2	190.4	4,813.9	1.6	6,033.0	6,033.3	0.3	6,033.6
1996	_	0.3	10.1	935.5	243.9	10.2	183.7	5,233.8	2.2	6,619.4	6,619.7	0.4	6,620.1
1997	<u> </u>	0.2	9.3	960.6	245.1	8.8	195.8	5,265.0	1.0	6,685.6	6,685.8	0.3	6,686.0
1998	_	0.6	6.8	891.7	179.1	33.4	201.4	4,771.5	1.3	6,085.2	6,085.8	0.3	6,086.1
1999	_	0.8	12.7	996.3	201.0	17.3	218.7	5,410.7	0.6	6,857.5	6,858.2	0.2	6,858.4
2000	_	1.6	11.2	1,321.7	266.3	15.7	216.9	7,234.7	1.0	9,067.5	9,069.1	0.3	9,069.4
2001	_	2.4	4.4	1,248.1	204.5	9.5	209.9	6,886.7	1.5	8,564.7	8,567.1	0.3	8,567.5
2002	_	2.1	9.0	1,201.9	186.0	10.4	226.0	6,618.8	0.7	8,252.7	8,254.8	0.3	8,255.1
2003	_	2.9	5.6	1,409.6	102.1	13.8	226.5	7,392.6	5.4	9,155.6	9,158.6	0.3	9,158.8
2004	_	3.7	6.1	1,759.4	188.0	28.3	238.8	8,721.8	7.6	10,949.9	10,953.7	0.2	10,953.9
2005 2006	_	1.2	7.9 7.6	2,301.2	253.5 349.4	40.6	277.8 337.2	10,759.7	8.5 10.9	13,649.1	13,650.4	0.7	13,651.0
2006	_	1.2 0.6	7.6 9.0	2,634.3 2,754.5	349.4 492.3	19.9 26.3	337.2 374.2	11,986.5 13,053.2	10.9 14.3	15,345.7 16,723.8	15,346.8 16,724.4	0.4 0.5	15,347.2 16,724.9
2007	_	1.3	10.1	2,754.5 3,218.2	598.8	31.7	406.1	14,286.3	14.3	18,565.7	18,566.9	0.5	18,567.5
2008	_	1.0	6.4	1,969.8	305.0	20.4	371.4	10,227.8	6.4	12,907.1	12,908.1	0.6	12,908.7
2010		1.3	15.0	2,521.4	337.1	19.9	432.7	11,960.6	12.5	15,299.2	15,300.5	0.5	15,301.1
2011	_	4.4	17.7	3,286.1	407.9	39.5	485.6	14,844.8	22.7	19,104.3	19,108.7	0.5	19,109.1
2012	_	4.1	17.1	3,322.9	473.0	36.4	463.2	15,017.2	17.4	19,347.1	19,351.2	0.6	19,351.8
2013	_	R 2.7	15.3	3,593.6	484.5	R 60.3	471.8	R 15,200.8	17.8	R 19,844.1	R 19,846.8	0.5	R 19,847.4
2014	_	3.4	11.1	3,703.6	467.4	49.3	492.3	14,206.6	13.0	18,943.2	18,946.6	0.4	18,947.0

<sup>&</sup>lt;sup>a</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other Petroleum."

b Liquefied petroleum gases, includes ethane and olefins.

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

<sup>&</sup>lt;sup>d</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.

Where shown, - = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.

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

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm.

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

Table ET7. Electric Power Sector Price and Expenditure Estimates, Selected Years, 1970-2014, Michigan

				Petrole	eum			Biomass						
	Coal	Natural Gas <sup>a</sup>	Distillate Fuel Oil	Petroleum Coke	Residual Fuel Oil	Total	Nuclear Fuel	Wood and Waste <sup>b</sup>	Electricity Imports <sup>c</sup>	Total Energy <sup>d</sup>				
Year	Prices in Dollars per Million Btu													
1970	0.36	0.42	0.65	_	0.63	0.63	0.36	_	1.92	0.0				
1975	0.92	1.28	2.05	_	1.97	1.98	0.28	_	3.89	1.0				
980	1.56	2.74	6.07	_	4.10	4.24	0.49	_	6.94	1.				
985 990	1.88	4.43	5.60	_	4.64	5.15	0.80		9.34	1.				
990 995	1.60 1.45	2.11 2.00	4.60 3.90	_	2.89 2.62	3.26 2.94	0.79 0.65	0.46 0.70	8.37 6.21	1				
995 996	1.45	2.69	3.90 4.87	0.97	2.02	3.26	0.59	0.70	6.21	1.				
997	1.37	2.56	4.44	0.97	3.11	3.40	0.59	0.59	6.71	1.				
998	1.33	2.32	3.16	0.94	2.69	2.70	0.65	0.61	7.87	1.				
999	1.31	2.52	4.12	0.70	2.59	2.81	0.60	0.67	8.69	1				
000	1.30	3.90	5.91	0.65	3.35	3.77	0.61	0.67	16.78	1.				
001	1.27	3.77	5.84	0.81	3.81	4.27	0.48	1.36	20.47	1				
002	1.30	3.52	5.13	0.91	2.37	2.97	0.43	1.64	8.94	1.				
003	1.34	3.83	6.65	0.94	4.26	4.79	0.42	1.58	13.21	1.				
004	1.38	4.35	8.30	0.87	4.55	5.43	0.42	1.46	13.84	1				
005	1.55	5.51	11.78	1.21	6.83	7.35	0.43	2.28	16.53	1				
006	1.64	5.95 6.53	14.40	1.31	7.20 7.55	8.38	0.40 0.47	2.32 2.42	17.32 18.25	1				
007	1.69 1.93	8.62	16.41 24.38	1.78 1.46	10.59	8.60 13.01	0.47	2.42	18.28	2				
008	2.03	4.48	12.98	1.46	7.50	7.68	0.66	2.20	12.10	2				
010	2.09	4.40	16.76	1.70	8.93	9.63	0.78	2.40	13.31	2				
010	2.66	4.69	22.17	4.01	13.28	15.80	0.76	2.43	11.53	2				
012	2.78	3.16	22.67	4.10	15.06	14.55	0.79	2.22	9.51	2				
013	2.66	R 4.49	22.75	1.43	14.07	7.32	0.80	2.25	11.49	2				
2014	2.60	6.63	21.30	1.45	12.93	3.98	0.70	2.70	13.31	2.				
_					Expenditures in	Million Dollars								
1970	173.4	27.2	3.6	_	17.9	21.5	1.5	_	6.7	230				
975	456.8	60.7	18.4	_	174.9	193.2	22.2	_	24.9	757				
980	832.3	53.2	27.5	_	248.2	275.7	85.1	_	138.9	1,385				
985 990	1,138.3 1,061.0	20.6 145.6	21.1 9.1	_	15.2 20.9	36.3 30.0	115.0 179.7	4.2	15.5 1.1	1,325 1,42				
990 995	972.6	209.6	9.3	_	18.1	27.4	167.9	13.8	122.9	1,51				
996	952.8	328.8	8.5	(s)	22.6	31.1	166.2	13.8	46.2	1,539				
997	932.8	319.3	8.1	<del>(0)</del>	20.1	28.2	134.8	11.3	77.5	1,50				
998	967.8	305.4	8.6	0.6	27.6	36.8	85.7	13.7	54.4	1,460				
999	930.2	338.3	12.1	0.3	34.5	46.9	91.3	14.5	26.4	1,44				
000	905.7	491.2	12.9	(s)	35.4	48.3	119.6	17.1	76.1	1,658				
001	880.3	496.9	12.5	(s)	27.5	40.1	132.9	34.1	5.2	1,58				
002	861.6	518.8	16.0	0.4	22.9	39.3	138.4	40.7	7.3	1,600				
003	898.1	400.9	18.7	0.3	30.9	49.9	121.8	39.2	56.5	1,56				
004	950.7	588.7	19.0	0.1	31.8	50.8	135.0	36.9	97.0	1,85				
005	1,113.7	731.4	25.5	1.2	47.2	73.9	146.7	53.0	94.8	2,21				
006 007	1,140.4	656.5	25.2 28.0	1.6 2.6	10.5 25.1	37.3	122.2	53.8 53.5	21.1	2,03				
007	1,219.5 1,377.3	819.7 817.7	28.0 40.5	2.6	14.3	55.6 56.7	154.0 166.9	60.5	104.7 393.2	2,40° 2,87°				
2008	1,385.4	381.3	40.5 19.3	2.0	6.0	27.8	150.3	48.5	393.2 312.9	2,30				
2010	1,418.0	562.8	24.7	2.0	6.6	33.4	242.0	52.6	277.8	2,58				
2011	1,652.1	536.8	41.1	3.8	3.7	48.5	260.4	55.7	178.0	2,73				
2012	1,556.6	581.8	29.2	4.2	4.8	38.1	231.8	49.5	1/8/	2.606				
	1,566.7	R 507.0	29.2	5.1	2.5	36.9	243.2	52.2	R 236.4	R 2,642				
2013														

<sup>&</sup>lt;sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

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

Notes: Expenditure 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.

Web Page: All data are available at http://www.eia.gov/state/seds/seds-data-complete.cfm. Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

<sup>&</sup>lt;sup>c</sup> Electricity imported from Canada and Mexico.

d There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal

energy.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.