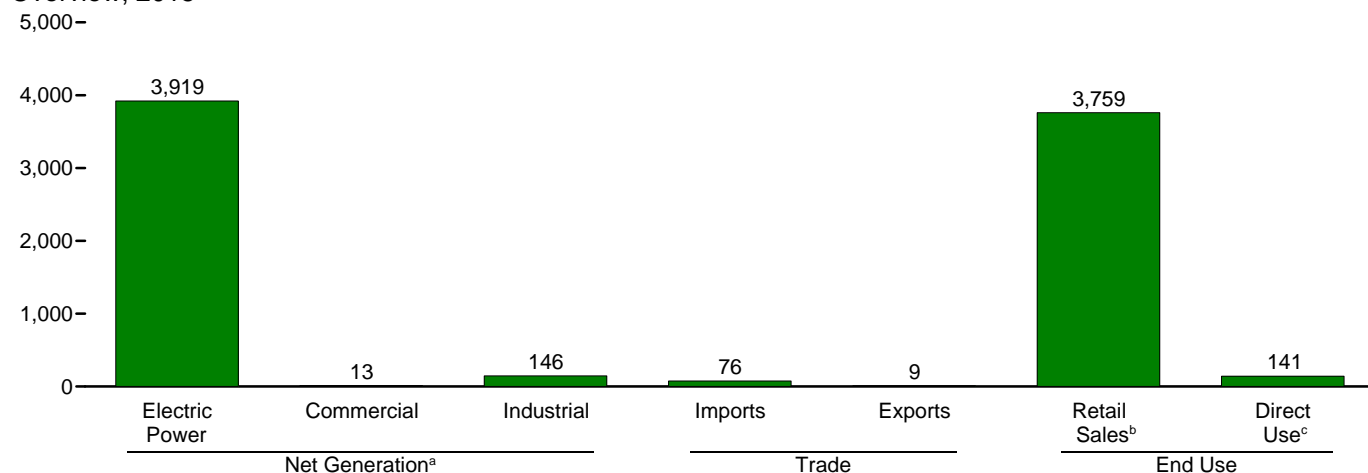


## 7. Electricity

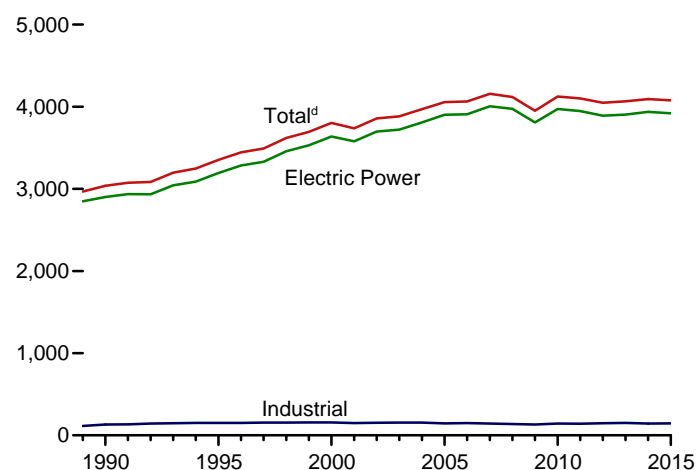
---

**Figure 7.1 Electricity Overview**  
(Billion Kilowatthours)

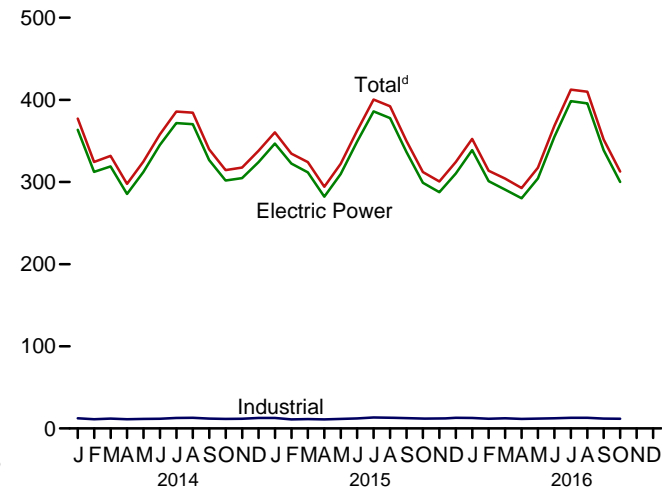
Overview, 2015



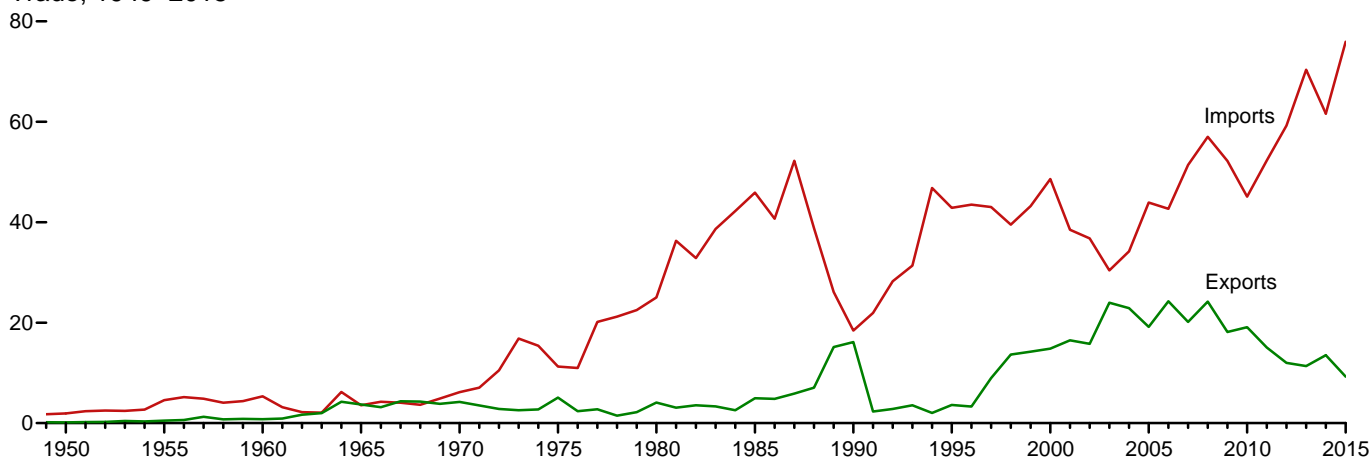
Net Generation<sup>a</sup> by Sector, 1989–2015



Net Generation<sup>a</sup> by Sector, Monthly



Trade, 1949–2015



<sup>a</sup> Data are for utility-scale facilities.

<sup>b</sup> Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

<sup>c</sup> See "Direct Use" in Glossary.

<sup>d</sup> Includes commercial sector.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.  
Source: Table 7.1.

**Table 7.1 Electricity Overview**  
(Billion Kilowatthours)

	Net Generation <sup>a</sup>				Trade			T&D Losses <sup>f</sup> and Unaccounted for <sup>g</sup>	End Use		
	Electric Power Sector <sup>b</sup>	Com- mer- cial Sector <sup>c</sup>	Indus- trial Sector <sup>d</sup>	Total	Imports <sup>e</sup>	Exports <sup>e</sup>	Net Imports <sup>e</sup>		Retail Sales <sup>h</sup>	Direct Use <sup>i</sup>	Total
1950 Total .....	329	NA	5	334	2	(s)	2	44	291	NA	291
1955 Total .....	547	NA	3	550	5	(s)	4	58	497	NA	497
1960 Total .....	756	NA	4	759	5	1	5	76	688	NA	688
1965 Total .....	1,055	NA	3	1,058	4	(s)	(s)	104	954	NA	954
1970 Total .....	1,532	NA	3	1,535	6	4	2	145	1,392	NA	1,392
1975 Total .....	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total .....	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total .....	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total .....	2,901	6	<sup>c</sup> 131	3,038	18	16	2	203	2,713	125	2,837
1995 Total .....	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
2000 Total .....	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2001 Total .....	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total .....	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total .....	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total .....	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total .....	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
2006 Total .....	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
2007 Total .....	4,005	8	143	4,157	51	20	31	298	3,765	126	3,890
2008 Total .....	3,974	8	137	4,119	57	24	33	286	3,734	132	3,866
2009 Total .....	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2010 Total .....	3,972	9	144	4,125	45	19	26	264	3,755	132	3,887
2011 Total .....	3,948	10	142	4,100	52	15	37	255	3,750	133	3,883
2012 Total .....	3,890	11	146	4,048	59	12	47	263	3,695	138	3,832
2013 Total .....	3,904	12	150	4,066	69	11	58	256	3,725	143	3,868
2014 January .....	364	1	12	377	5	1	4	28	341	E 12	353
February .....	312	1	11	324	4	1	3	8	309	E 11	320
March .....	319	1	12	332	6	2	4	22	302	E 11	314
April .....	285	1	11	298	5	1	3	14	276	E 11	287
May .....	312	1	12	325	5	1	5	27	291	E 11	303
June .....	345	1	12	358	5	1	4	28	323	E 11	334
July .....	372	1	13	386	6	1	5	27	352	E 12	364
August .....	370	1	13	384	7	1	6	26	352	E 12	364
September .....	327	1	12	340	6	1	5	7	327	E 12	339
October .....	302	1	12	315	5	1	4	11	297	E 11	308
November .....	305	1	12	317	6	1	5	26	285	E 11	297
December .....	324	1	13	338	5	1	4	20	310	E 12	322
Total .....	3,937	13	144	4,094	67	13	53	244	3,765	139	3,903
2015 January .....	347	1	13	360	6	1	5	R 24	R 330	E 12	R 342
February .....	322	1	11	334	6	1	4	R 21	R 307	E 11	317
March .....	312	1	11	324	7	1	6	R 13	305	E 11	316
April .....	282	1	11	294	7	1	6	14	275	E 11	286
May .....	310	1	12	322	7	1	6	29	288	E 11	299
June .....	349	1	12	362	7	1	6	R 30	326	E 12	338
July .....	386	1	13	400	7	1	6	31	363	E 13	376
August .....	378	1	13	392	7	1	7	24	362	E 13	R 375
September .....	337	1	12	350	7	1	6	11	333	E 12	345
October .....	299	1	12	312	5	1	5	9	296	E 12	R 308
November .....	288	1	12	301	6	1	5	R 18	276	E 12	R 288
December .....	310	1	13	324	6	1	5	20	297	E 12	R 310
Total .....	3,919	13	146	4,078	76	9	67	244	3,759	141	3,900
2016 January .....	339	1	13	353	7	1	6	29	317	E 12	329
February .....	301	1	12	314	6	1	5	14	293	E 11	305
March .....	291	1	12	304	6	1	5	16	282	E 12	294
April .....	280	1	12	293	5	1	4	20	266	E 11	277
May .....	304	1	12	317	6	1	5	31	281	E 12	292
June .....	355	1	12	368	7	1	7	38	325	E 12	337
July .....	398	1	13	412	8	1	7	40	367	E 13	380
August .....	396	1	13	410	8	1	7	28	376	E 13	389
September .....	339	1	12	352	7	1	6	13	332	E 12	344
October .....	300	1	12	313	6	1	5	15	292	E 11	303
10-Month Total ...	3,303	11	122	3,436	67	8	58	244	3,132	E 118	3,250
2015 10-Month Total ...	3,321	11	121	3,453	64	8	56	206	3,186	E 117	3,303
2014 10-Month Total ...	3,308	11	120	3,438	56	11	44	198	3,170	E 115	3,285

<sup>a</sup> Electricity net generation at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic (PV) generation shown on Table 10.6. See Note 1, "Coverage of Electricity Statistics," at end of section.

<sup>b</sup> 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 are for electric utilities and independent power producers.

<sup>c</sup> Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>d</sup> Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only.

<sup>e</sup> Electricity transmitted across U.S. borders. Net imports equal imports minus exports.

<sup>f</sup> Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 1, "Electrical System Energy Losses," at end of Section 2.

<sup>g</sup> Data collection frame differences and nonsampling error.

<sup>h</sup> Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.

<sup>i</sup> Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours.

Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section.

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

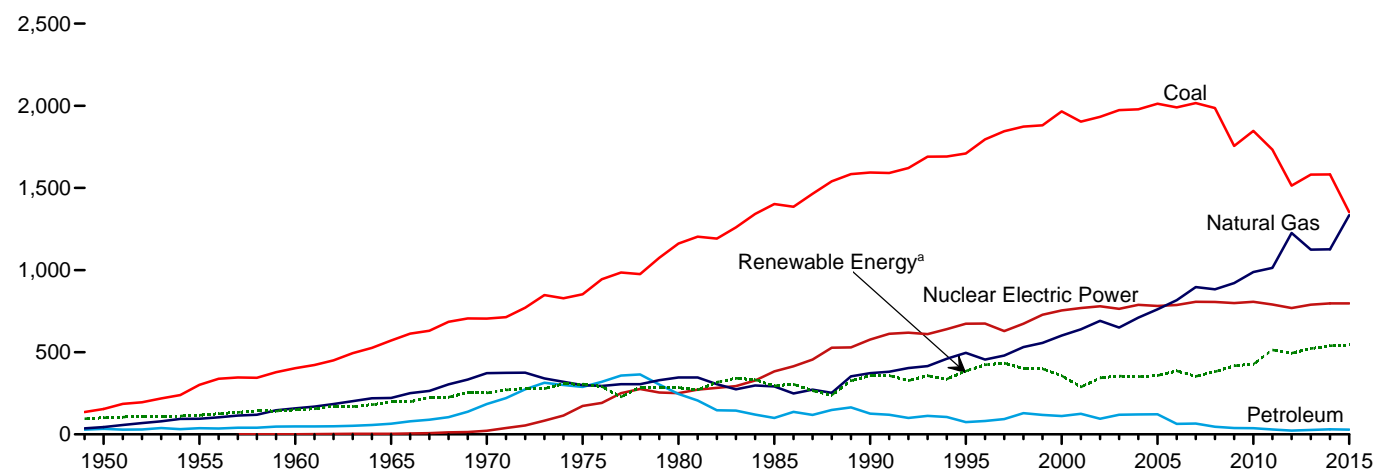
• Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

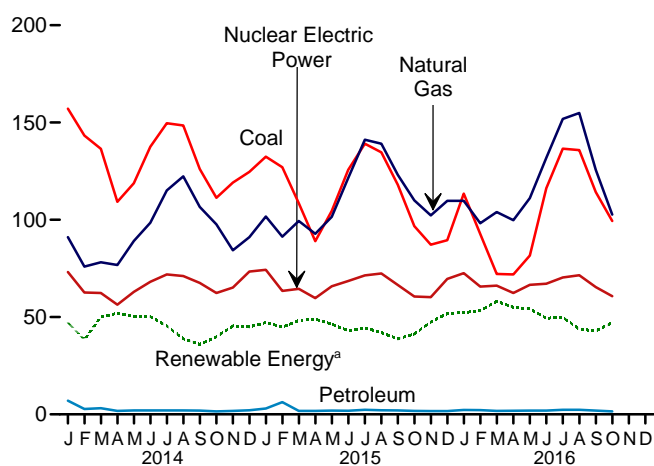
Sources: See end of section.

**Figure 7.2 Electricity Net Generation**  
(Billion Kilowatthours)

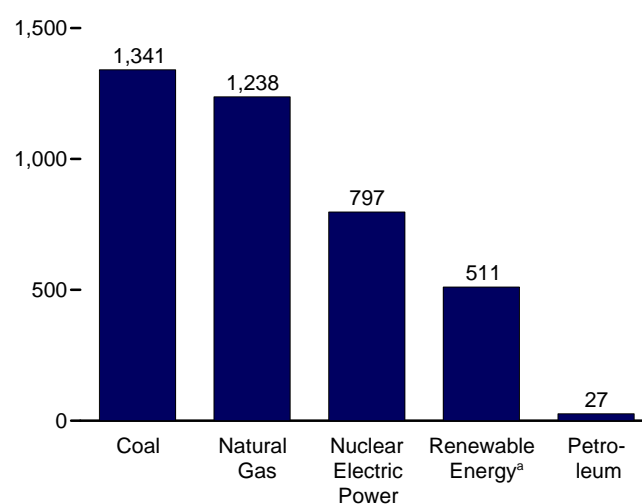
Total (All Sectors), Major Sources, 1949–2015



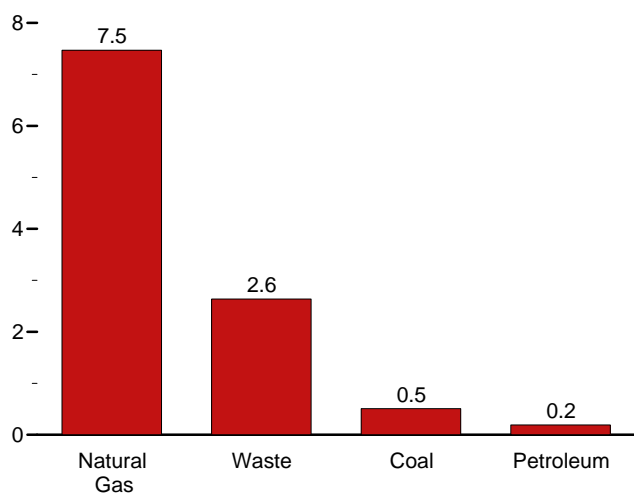
Total (All Sectors), Major Sources, Monthly



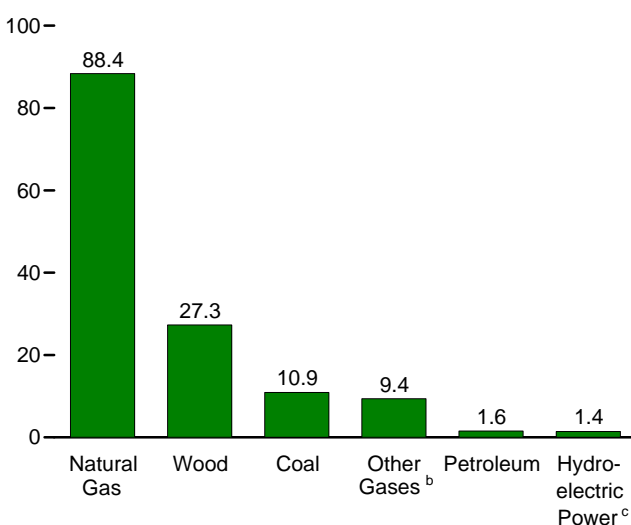
Electric Power Sector, Major Sources, 2015



Commercial Sector, Major Sources, 2015



Industrial Sector, Major Sources, 2015



<sup>a</sup> Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

<sup>b</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels.

<sup>c</sup> Conventional hydroelectric power.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.2a–7.2c.

**Table 7.2a Electricity Net Generation: Total (All Sectors)**

(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage <sup>g</sup>	Conven- tional Hydro- electric Power <sup>i</sup>	Renewable Energy					Total <sup>j</sup>
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Other Gases <sup>d</sup>				Biomass		Geo- thermal	Solar <sup>i</sup>	Wind	
								Wood <sup>g</sup>	Waste <sup>h</sup>				
1950 Total .....	154,520	33,734	44,559	NA	0	( )	100,885	390	NA	NA	NA	NA	334,088
1955 Total .....	301,363	37,138	95,285	NA	0	( )	116,236	276	NA	NA	NA	NA	550,299
1960 Total .....	403,067	47,987	157,970	NA	518	( )	149,440	140	NA	33	NA	NA	759,156
1965 Total .....	570,926	64,801	221,559	NA	3,657	( )	196,984	269	NA	189	NA	NA	1,058,386
1970 Total .....	704,394	184,183	372,890	NA	21,804	( )	250,957	136	220	525	NA	NA	1,535,111
1975 Total .....	852,786	289,095	299,778	NA	172,505	( )	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total .....	1,161,562	245,994	346,240	NA	251,116	( )	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total .....	1,402,128	100,202	291,946	NA	383,691	( )	284,311	743	640	9,325	11	6	2,473,002
1990 Total <sup>k</sup> .....	1,594,011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,827
1995 Total .....	1,709,426	74,554	496,058	13,870	673,402	-7,225	310,833	36,521	20,405	13,378	497	3,164	3,353,487
2000 Total .....	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
2001 Total .....	1,903,956	124,880	639,129	9,039	768,826	-8,823	216,961	35,200	14,548	13,741	543	6,737	3,736,644
2002 Total .....	1,933,130	94,567	691,006	11,463	780,064	-8,743	264,329	38,665	15,044	14,491	555	10,354	3,858,452
2003 Total .....	1,973,737	119,406	649,908	15,600	763,733	-8,535	275,806	37,529	15,812	14,424	534	11,187	3,883,185
2004 Total .....	1,978,301	121,145	710,100	15,252	788,528	-8,488	268,417	38,117	15,421	14,811	575	14,144	3,970,555
2005 Total .....	2,012,873	122,225	760,960	13,464	781,986	-6,558	270,321	38,856	15,420	14,692	550	17,811	4,055,423
2006 Total .....	1,990,511	64,166	816,441	14,177	787,219	-6,558	289,246	38,762	16,099	14,568	508	26,589	4,064,702
2007 Total .....	2,016,456	65,739	896,590	13,453	806,425	-6,896	247,510	39,014	16,525	14,637	612	34,450	4,156,745
2008 Total .....	1,985,801	46,243	882,981	11,707	806,208	-6,288	254,831	37,300	17,734	14,840	864	55,363	4,119,388
2009 Total .....	1,755,904	38,937	920,979	10,632	798,855	-4,627	273,445	36,505	18,443	15,009	891	73,886	3,950,331
2010 Total .....	1,847,290	37,061	987,697	11,313	806,968	-5,501	260,203	37,172	18,917	15,219	1,212	94,652	4,125,060
2011 Total .....	1,733,430	30,182	1,013,689	11,566	790,204	-6,421	319,355	37,449	19,222	15,316	1,818	120,177	4,100,141
2012 Total .....	1,514,043	23,190	1,225,894	11,898	769,331	-4,950	276,240	37,799	19,823	15,562	4,327	140,822	4,047,765
2013 Total .....	1,581,115	27,164	1,124,836	12,853	789,016	-4,681	268,565	40,028	20,830	15,775	9,036	167,840	4,065,964
2014 January .....	157,097	7,072	91,061	933	73,163	-290	21,634	3,626	1,850	1,355	751	17,911	377,255
February .....	143,294	2,763	75,942	817	62,639	-445	17,396	3,265	1,686	1,206	835	14,009	324,348
March .....	136,443	3,188	78,151	866	62,397	-421	24,257	3,609	1,851	1,338	1,317	17,736	331,823
April .....	109,281	1,753	76,782	854	56,385	-378	25,440	3,230	1,810	1,314	1,487	18,636	297,631
May .....	118,786	2,044	89,120	944	62,947	-601	26,544	3,290	1,849	1,332	1,750	15,601	324,724
June .....	137,577	2,021	98,468	969	68,138	-653	25,744	3,622	1,826	1,293	1,923	15,799	357,844
July .....	149,627	2,042	115,081	1,069	71,940	-545	24,357	3,807	1,942	1,320	1,788	12,187	385,780
August .....	148,452	2,050	122,348	1,135	71,129	-840	19,807	3,761	1,880	1,329	1,879	10,171	384,341
September .....	126,110	1,948	106,582	1,126	67,535	-542	16,074	3,462	1,772	1,308	1,832	11,520	339,887
October .....	111,296	1,518	97,683	1,082	62,391	-448	17,159	3,422	1,726	1,345	1,717	14,508	314,522
November .....	119,127	1,738	84,354	1,073	65,140	-531	18,625	3,508	1,691	1,362	1,380	18,867	317,495
December .....	124,620	2,095	91,038	1,153	73,363	-480	22,329	3,737	1,767	1,375	1,032	14,711	337,957
Total .....	1,581,710	30,232	1,126,609	12,022	797,166	-6,174	259,367	42,340	21,650	15,877	17,691	181,655	4,093,606
2015 January .....	132,451	2,973	101,687	1,246	74,270	-551	24,138	3,717	1,725	1,362	1,155	15,162	360,455
February .....	126,977	6,321	91,315	1,025	63,461	-456	22,286	3,372	1,524	1,260	1,484	14,922	334,476
March .....	108,488	1,778	99,423	1,091	64,547	-409	24,281	3,457	1,712	1,394	2,072	15,308	324,192
April .....	88,989	1,728	92,806	979	59,784	-214	22,471	3,246	1,729	1,272	2,379	17,867	294,133
May .....	104,585	1,939	101,516	1,099	65,827	-370	20,125	3,338	1,799	1,390	2,504	17,151	322,087
June .....	125,673	1,860	121,478	1,118	68,516	-398	20,414	3,496	1,784	1,302	2,558	13,421	362,409
July .....	139,100	2,304	141,119	1,235	71,412	-513	21,014	3,806	1,989	1,357	2,627	13,675	400,419
August .....	134,670	2,133	139,084	1,196	72,415	-626	19,122	3,788	1,921	1,344	2,688	13,080	392,116
September .....	117,986	2,034	123,036	1,210	66,476	-544	16,094	3,450	1,805	1,203	2,217	13,972	350,122
October .....	96,759	1,771	110,005	906	60,571	-443	16,630	3,252	1,843	1,323	1,910	16,380	312,112
November .....	87,227	1,710	102,236	902	60,264	-285	19,338	3,418	1,902	1,334	1,730	19,682	300,653
December .....	89,495	1,697	109,777	1,110	69,634	-281	23,166	3,587	1,969	1,377	1,570	20,098	324,427
Total .....	1,352,398	28,249	1,333,482	13,117	797,178	-5,091	249,080	41,929	21,703	15,918	24,893	190,719	4,077,601
2016 January .....	113,453	2,293	109,767	1,263	72,536	-312	25,355	3,604	1,930	1,471	1,492	18,527	352,523
February .....	92,709	2,140	98,226	1,169	65,638	-399	24,150	3,391	1,713	1,372	2,404	20,199	313,729
March .....	72,133	1,765	104,003	1,241	66,149	-384	27,025	3,375	1,810	1,460	2,667	21,761	304,104
April .....	71,946	1,830	99,770	1,143	62,365	-452	25,475	2,895	1,819	1,340	2,897	20,566	292,719
May .....	81,639	1,931	111,156	977	66,563	-321	25,363	3,171	1,929	1,476	3,539	18,792	317,433
June .....	116,220	1,944	131,904	1,085	67,175	-497	22,902	3,400	1,829	1,364	3,544	16,314	368,348
July .....	136,583	2,319	151,827	1,066	70,349	-784	21,247	3,640	1,910	1,424	4,024	17,591	412,408
August .....	135,809	2,358	154,921	1,102	71,526	-902	19,359	3,637	1,907	1,444	3,877	13,558	409,827
September .....	114,280	1,924	125,661	1,050	65,420	-715	16,281	3,367	1,762	1,451	3,613	16,435	351,692
October .....	99,348	1,552	102,635	891	60,733	-561	17,249	3,105	1,755	1,489	3,132	20,376	312,788
10-Mon. Total .....	1,034,120	20,054	1,189,871	10,986	668,454	-5,326	224,406	33,585	18,364	14,290	31,190	184,119	3,435,570
2015 10-Mon. Total .....	1,175,676	24,842	1,121,469	11,105	667,280	-4,526	206,577	34,923	17,832	13,207	21,593	150,938	3,452,520
2014 10-Mon. Total .....	1,337,963	26,399	951,218	9,795	658,663	-5,163	218,413	35,095	18,192	13,139	15,280	148,077	3,438,154

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.<sup>b</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.<sup>c</sup> Natural gas, plus a small amount of supplemental gaseous fuels.<sup>d</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.<sup>e</sup> Pumped storage facility production minus energy used for pumping.<sup>f</sup> Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."<sup>g</sup> Wood and wood-derived fuels.<sup>h</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).<sup>i</sup> Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic

generation. See Table 10.6.

<sup>j</sup> Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).<sup>k</sup> Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section, "Table 7.2b Sources" and "Table 7.2c Sources."

**Table 7.2b Electricity Net Generation: Electric Power Sector**  
(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage <sup>g</sup>	Renewable Energy						Total <sup>j</sup>
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Other Gases <sup>d</sup>			Conven- tional Hydro- electric Power <sup>f</sup>	Biomass		Geo- thermal	Solar <sup>i</sup>	Wind	
								Wood <sup>g</sup>	Waste <sup>h</sup>				
1950 Total .....	154,520	33,734	44,559	NA	0	{ }	95,938	390	NA	NA	NA	NA	329,141
1955 Total .....	301,363	37,138	95,285	NA	0	{ }	112,975	276	NA	NA	NA	NA	547,038
1960 Total .....	403,067	47,987	157,970	NA	518	{ }	145,833	140	NA	33	NA	NA	755,549
1965 Total .....	570,926	64,801	221,559	NA	3,657	{ }	193,851	269	NA	189	NA	NA	1,055,252
1970 Total .....	704,394	184,183	372,890	NA	21,804	{ }	247,714	136	220	525	NA	NA	1,531,868
1975 Total .....	852,786	289,095	299,778	NA	172,505	{ }	300,047	18	174	3,246	NA	NA	1,917,649
1980 Total .....	1,161,562	245,994	346,240	NA	251,116	{ }	276,021	275	158	5,073	NA	NA	2,286,439
1985 Total .....	1,402,128	100,202	291,946	NA	383,691	{ }	281,149	743	640	9,325	11	6	2,469,841
1990 Total <sup>k</sup> .....	1,572,109	118,864	309,486	621	576,862	-3,508	289,753	7,032	11,500	15,434	367	2,789	2,901,322
1995 Total .....	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,194,230
2000 Total .....	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529
2001 Total .....	1,882,826	119,149	554,940	586	768,826	-8,823	213,749	8,294	12,944	13,741	543	6,737	3,580,053
2002 Total .....	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	13,145	14,491	555	10,354	3,698,458
2003 Total .....	1,952,714	113,697	567,303	2,647	763,733	-8,535	271,512	9,528	13,808	14,424	534	11,187	3,721,159
2004 Total .....	1,957,188	114,678	627,172	3,568	788,528	-8,488	265,064	9,736	13,062	14,811	575	14,144	3,808,360
2005 Total .....	1,992,054	116,482	683,822	3,777	781,986	-6,558	267,040	10,570	13,031	14,692	550	17,811	3,902,192
2006 Total .....	1,969,737	59,708	734,417	4,254	787,219	-6,558	286,254	10,341	13,927	14,568	508	26,589	3,908,077
2007 Total .....	1,998,390	61,306	814,752	4,042	806,425	-6,896	245,843	10,711	14,632	14,632	612	34,450	4,005,343
2008 Total .....	1,968,838	42,881	802,372	3,200	806,208	-6,288	253,096	10,738	15,379	14,840	864	55,363	3,974,349
2009 Total .....	1,741,123	35,811	841,006	3,058	798,855	-4,627	271,506	10,738	15,954	15,009	891	73,886	3,809,837
2010 Total .....	1,827,738	34,679	901,389	2,967	806,968	-5,501	258,455	11,446	16,376	15,219	1,206	94,636	3,972,386
2011 Total .....	1,717,891	28,202	926,290	2,939	790,204	-6,421	317,531	10,733	15,989	15,316	1,727	120,121	3,948,186
2012 Total .....	1,500,557	20,072	1,132,791	2,984	769,331	-4,950	273,859	11,050	16,555	15,562	4,164	140,749	3,890,358
2013 Total .....	1,567,722	24,510	1,028,949	4,322	789,016	-4,681	265,058	12,302	16,918	15,775	8,724	167,742	3,903,715
2014 January .....	155,916	6,784	82,969	266	73,163	-290	21,510	1,273	1,490	1,355	734	17,895	363,645
February .....	142,218	2,578	68,730	211	62,639	-445	17,289	1,150	1,385	1,206	814	13,997	312,276
March .....	135,290	2,999	70,517	215	62,397	-421	24,139	1,291	1,514	1,338	1,286	17,722	318,914
April .....	108,279	1,583	69,583	231	56,385	-378	25,310	1,040	1,466	1,314	1,453	18,621	285,453
May .....	117,738	1,870	81,645	283	62,947	-601	26,410	1,007	1,520	1,332	1,710	15,591	312,072
June .....	136,470	1,845	90,902	257	68,138	-653	25,640	1,317	1,491	1,293	1,883	15,786	344,988
July .....	148,472	1,867	106,696	283	71,940	-545	24,265	1,374	1,574	1,320	1,748	12,176	371,817
August .....	147,329	1,873	113,910	315	71,129	-840	19,708	1,372	1,526	1,329	1,839	10,162	370,304
September .....	125,062	1,777	98,690	298	67,535	-542	15,986	1,288	1,439	1,308	1,795	11,510	326,756
October .....	110,322	1,368	90,053	334	62,391	-448	17,063	1,238	1,393	1,345	1,680	14,492	301,847
November .....	118,118	1,577	76,711	302	65,140	-531	18,524	1,331	1,373	1,362	1,351	18,848	304,738
December .....	123,561	1,921	82,766	363	73,363	-480	22,202	1,347	1,432	1,375	1,011	14,696	324,193
Total .....	1,568,774	28,043	1,033,172	3,358	797,166	-6,174	258,046	15,027	17,602	15,877	17,304	181,496	3,937,003
2015 January .....	131,431	2,789	93,450	394	74,270	-551	24,014	1,307	1,411	1,362	1,134	15,146	346,758
February .....	126,024	6,074	84,207	329	63,461	-456	22,179	1,234	1,261	1,260	1,459	14,908	322,473
March .....	107,471	1,644	92,110	327	64,547	-409	24,148	1,227	1,393	1,394	2,037	15,293	311,741
April .....	88,147	1,570	85,828	290	59,784	-214	22,331	1,025	1,402	1,272	2,338	17,850	282,197
May .....	103,672	1,794	94,124	338	65,827	-370	19,995	1,093	1,483	1,390	2,456	17,136	309,552
June .....	124,677	1,723	113,390	299	68,516	-398	20,297	1,244	1,473	1,302	2,512	13,410	349,067
July .....	138,060	2,185	132,266	311	71,412	-513	20,896	1,365	1,639	1,357	2,579	13,666	385,889
August .....	133,651	2,013	130,314	331	72,415	-626	19,030	1,410	1,587	1,344	2,639	13,070	377,856
September .....	117,005	1,899	114,792	331	66,476	-544	16,015	1,201	1,481	1,203	2,178	13,961	336,618
October .....	95,872	1,657	102,022	229	60,571	-443	16,513	1,047	1,509	1,323	1,875	16,364	299,168
November .....	86,362	1,583	94,132	234	60,264	-285	19,202	1,157	1,565	1,334	1,702	19,663	287,551
December .....	88,622	1,575	101,022	304	69,634	-281	23,017	1,254	1,620	1,377	1,545	20,080	310,423
Total .....	1,340,993	26,505	1,237,656	3,715	797,178	-5,091	247,636	14,563	17,823	15,918	24,456	190,547	3,919,294
2016 January .....	112,535	2,160	101,368	370	72,536	-312	25,214	1,235	1,603	1,471	1,469	18,509	338,789
February .....	91,846	2,012	90,476	341	65,638	-399	24,014	1,200	1,423	1,372	2,357	20,179	301,029
March .....	71,251	1,650	95,852	373	66,149	-384	26,873	1,148	1,460	1,460	2,618	21,739	290,779
April .....	71,205	1,716	91,893	330	62,365	-452	25,339	857	1,501	1,340	2,851	20,546	280,094
May .....	80,879	1,777	102,953	296	66,563	-321	25,226	952	1,628	1,476	3,483	18,772	304,349
June .....	115,369	1,817	123,478	365	67,175	-497	22,791	1,137	1,557	1,364	3,480	16,297	354,970
July .....	135,668	2,173	142,959	345	70,349	-784	21,140	1,288	1,595	1,424	3,953	17,574	398,325
August .....	134,906	2,208	145,995	346	71,526	-902	19,267	1,315	1,610	1,444	3,816	13,545	395,723
September .....	113,527	1,799	117,287	369	65,420	-715	16,217	1,159	1,502	1,451	3,555	16,420	338,593
October .....	98,635	1,429	94,535	246	60,733	-561	17,166	920	1,477	1,489	3,085	20,358	300,102
10-Mon. Total .....	1,025,819	18,740	1,106,798	3,379	668,454	-5,326	223,245	11,210	15,357	14,290	30,667	183,939	3,302,752
2015 10-Mon. Total .....	1,166,010	23,348	1,042,502	3,178	667,280	-4,526	205,417	12,152	14,638	13,207	21,209	150,803	3,321,319
2014 10-Mon. Total .....	1,327,096	24,545	873,696	2,693	658,663	-5,163	217,321	12,349	14,797	13,139	14,943	147,952	3,308,073

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>b</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

<sup>c</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>d</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>e</sup> Pumped storage facility production minus energy used for pumping.

<sup>f</sup> Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

<sup>g</sup> Wood and wood-derived fuels.

<sup>h</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>i</sup> Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include distributed (small-scale) solar photovoltaic

generation. See Table 10.6.

<sup>j</sup> Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>k</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • 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. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

**Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors**  
(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector <sup>a</sup>					Industrial Sector <sup>b</sup>							
	Coal <sup>c</sup>	Petro- leum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Total <sup>g</sup>	Coal <sup>c</sup>	Petro- leum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Gases <sup>h</sup>	Hydro- electric Power <sup>i</sup>	Biomass		Total <sup>k</sup>
				Waste <sup>f</sup>							Wood <sup>j</sup>	Waste <sup>f</sup>	
1950 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,946	NA	NA	4,946
1955 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,261	NA	NA	3,261
1960 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,607	NA	NA	3,607
1965 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,134	NA	NA	3,134
1970 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,244	NA	NA	3,244
1975 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106
1980 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1985 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1990 Total .....	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830
1995 Total .....	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025
2000 Total .....	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
2001 Total .....	995	438	4,434	1,007	7,416	20,135	5,293	79,755	8,454	3,145	26,888	596	149,175
2002 Total .....	992	431	4,310	1,053	7,415	21,525	4,403	79,013	9,493	3,825	29,643	846	152,580
2003 Total .....	1,206	423	3,899	1,289	7,496	19,817	5,285	78,705	12,953	4,222	27,988	715	154,530
2004 Total .....	1,340	499	3,969	1,562	8,270	19,773	5,967	78,959	11,684	3,248	28,367	797	153,925
2005 Total .....	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739
2006 Total .....	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254
2007 Total .....	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128
2008 Total .....	1,261	142	4,188	1,534	7,926	15,703	3,219	76,421	8,507	1,676	26,641	821	137,113
2009 Total .....	1,096	163	4,225	1,748	8,165	13,686	2,963	75,748	7,574	1,868	25,292	740	132,329
2010 Total .....	1,111	124	4,725	1,672	8,592	18,441	2,258	81,583	8,343	1,668	25,706	869	144,082
2011 Total .....	1,049	89	5,487	2,315	10,800	14,490	1,891	81,911	8,624	1,799	26,691	917	141,875
2012 Total .....	883	196	6,603	2,319	11,301	12,603	2,922	86,500	8,913	2,353	26,725	948	146,107
2013 Total .....	839	124	7,154	2,567	12,234	12,554	2,531	88,733	8,531	3,463	27,691	1,346	150,015
2014 January .....	76	103	651	243	1,218	1,105	185	7,441	667	120	2,343	116	12,391
February .....	79	38	533	199	961	998	147	6,680	606	104	2,105	103	11,112
March .....	66	30	529	214	972	1,087	159	7,105	651	114	2,311	123	11,937
April .....	47	10	509	219	927	955	160	6,690	624	127	2,188	125	11,251
May .....	39	8	557	224	986	1,009	165	6,918	662	130	2,276	105	11,667
June .....	42	8	605	225	1,041	1,065	167	6,960	711	100	2,295	110	11,814
July .....	50	9	701	248	1,173	1,105	166	7,685	786	89	2,426	120	12,790
August .....	42	8	722	244	1,181	1,081	169	7,716	820	96	2,384	111	12,856
September .....	36	9	657	231	1,086	1,013	162	7,234	828	86	2,171	102	12,044
October .....	31	10	601	215	1,008	942	140	7,028	748	93	2,180	118	11,667
November .....	44	10	560	202	960	966	151	7,083	772	99	2,175	115	11,797
December .....	45	11	602	216	1,007	1,015	163	7,670	790	125	2,386	119	12,757
Total .....	595	255	7,227	2,681	12,520	12,341	1,934	86,209	8,664	1,282	27,239	1,367	144,083
2015 January .....	56	24	564	209	981	964	161	7,674	852	121	2,404	105	12,717
February .....	59	73	499	183	932	894	174	6,609	696	105	2,132	80	11,071
March .....	52	12	560	213	977	965	123	6,753	764	130	2,226	106	11,475
April .....	38	9	513	216	931	804	149	6,465	690	138	2,218	112	11,005
May .....	32	11	583	221	1,013	881	135	6,809	761	127	2,239	95	11,522
June .....	45	10	662	222	1,098	951	128	7,426	819	114	2,251	89	12,244
July .....	44	12	769	242	1,238	995	107	8,084	925	115	2,434	108	13,292
August .....	39	12	760	234	1,206	980	108	8,010	864	90	2,377	101	13,054
September .....	33	8	716	230	1,145	947	127	7,528	879	77	2,245	94	12,359
October .....	34	7	643	218	1,049	853	107	7,340	678	114	2,201	116	11,894
November .....	35	6	583	222	992	830	121	7,521	668	133	2,259	115	12,110
December .....	41	7	617	226	1,033	832	115	8,137	806	145	2,331	122	12,970
Total .....	509	191	7,471	2,637	12,595	10,896	1,552	88,355	9,401	1,410	27,318	1,243	145,712
2016 January .....	43	12	648	216	1,057	875	121	7,751	893	136	2,362	111	12,677
February .....	47	14	550	188	944	816	113	7,199	828	131	2,185	101	11,755
March .....	44	6	596	230	1,043	838	108	7,555	868	147	2,225	119	12,281
April .....	29	8	616	206	1,023	712	106	7,261	814	131	2,033	112	11,603
May .....	26	8	650	202	1,055	734	147	7,553	681	130	2,218	98	12,030
June .....	28	7	694	181	1,079	823	121	7,732	720	105	2,254	90	12,299
July .....	30	10	764	209	1,204	884	136	8,104	721	101	2,344	105	12,879
August .....	33	14	781	203	1,212	870	136	8,144	756	87	2,311	94	12,892
September .....	34	7	675	182	1,064	718	118	7,699	681	60	2,199	78	12,035
October .....	36	8	583	191	968	677	115	7,517	646	80	2,181	87	11,719
10-Month Total ...	352	93	6,557	2,010	10,647	7,950	1,221	76,516	7,608	1,109	22,312	997	122,170
2015 10-Month Total ...	433	178	6,270	2,188	10,570	9,234	1,317	72,697	7,928	1,132	22,728	1,006	120,632
2014 10-Month Total ...	507	234	6,065	2,263	10,553	10,360	1,620	71,457	7,102	1,058	22,678	1,132	119,529

<sup>a</sup> Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>b</sup> Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

<sup>c</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal syngas.

<sup>d</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>f</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>g</sup> Includes a small amount of conventional hydroelectric power, other gases, solar photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed. Does not include distributed (small-scale) solar photovoltaic generation shown on Table 10.6.

<sup>h</sup> Blast furnace gas, and other manufactured and waste gases derived from

fossil fuels. Through 2010, also includes propane gas.

<sup>i</sup> Conventional hydroelectric power.

<sup>j</sup> Wood and wood-derived fuels.

<sup>k</sup> Includes photovoltaic (PV) energy, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). Does not include distributed (small-scale) solar photovoltaic generation shown on Table 10.6.

NA=Not available.

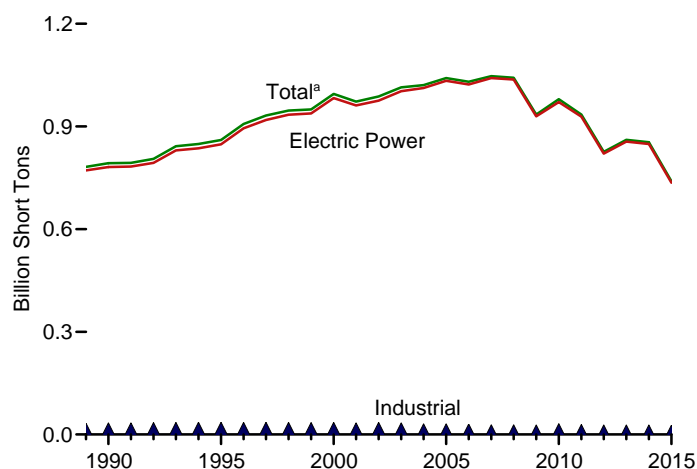
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

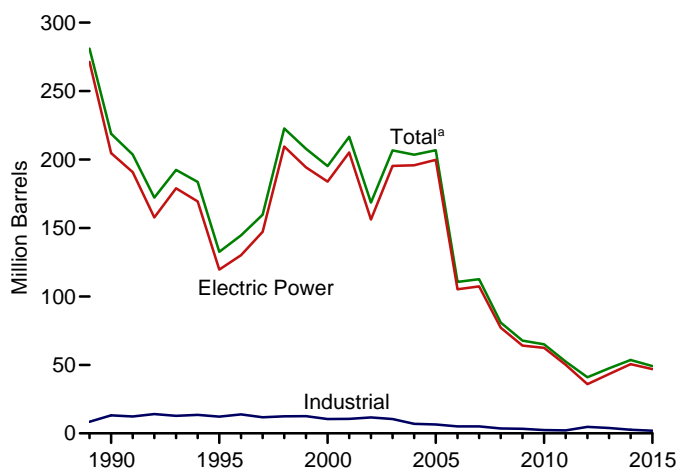
Sources: See end of section.

**Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation**

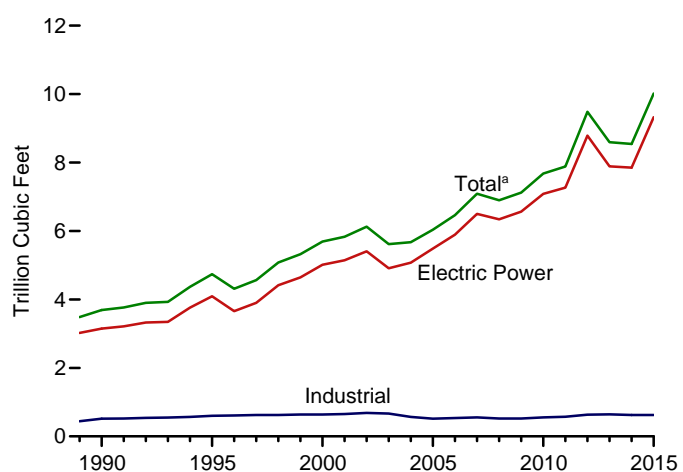
**Coal by Sector, 1989–2015**



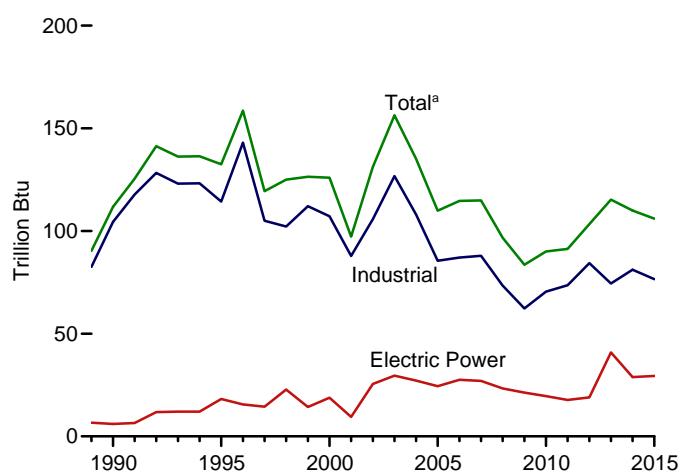
**Petroleum by Sector, 1989–2015**



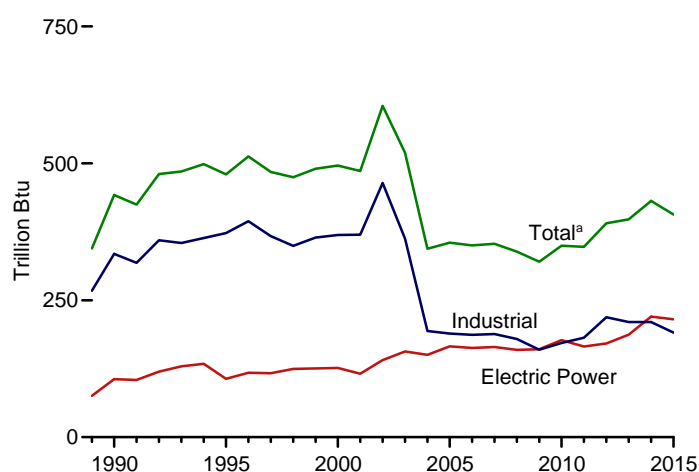
**Natural Gas by Sector, 1989–2015**



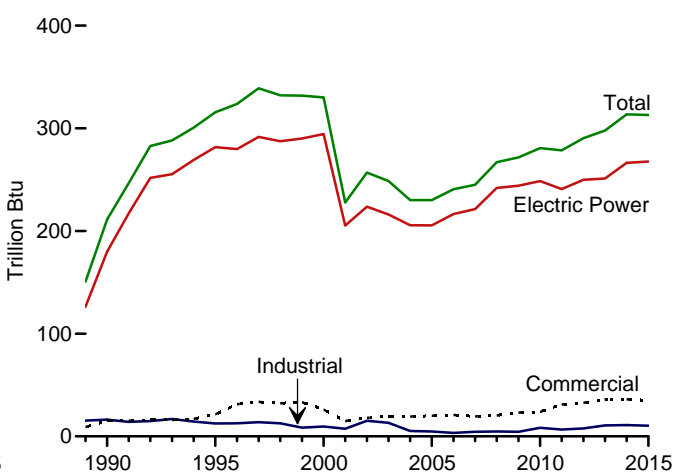
**Other Gases<sup>b</sup> by Sector, 1989–2015**



**Wood by Sector, 1989–2015**



**Waste by Sector, 1989–2015**



<sup>a</sup>Includes commercial sector.

<sup>b</sup>Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.3a–7.3c.



**Table 7.3a Consumption of Combustible Fuels for Electricity Generation:  
Total (All Sectors) (Sum of Tables 7.3b and 7.3c)**

		Petroleum					Natural Gas <sup>f</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>j</sup>	
	Coal <sup>a</sup>	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu		
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total .....	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
2000 Total .....	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	46
2001 Total .....	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total .....	987,583	23,286	109,235	1,894	6,836	168,597	6,126	131	605	257	191
2003 Total .....	1,014,058	29,672	142,518	2,947	6,303	206,653	5,616	156	519	249	193
2004 Total .....	1,020,523	20,163	142,088	2,856	7,677	203,494	5,675	135	344	230	183
2005 Total .....	1,041,448	20,651	141,518	2,968	8,330	206,785	6,036	110	355	230	173
2006 Total .....	1,030,556	13,174	58,473	2,174	7,363	110,634	6,462	115	350	241	172
2007 Total .....	1,046,795	15,683	63,833	2,917	6,036	112,615	7,089	115	353	245	168
2008 Total .....	1,042,335	12,832	38,191	2,822	5,417	80,932	6,896	97	339	267	172
2009 Total .....	934,683	12,658	28,576	2,328	4,821	67,668	7,121	84	320	272	170
2010 Total .....	979,684	14,050	23,997	2,056	4,994	65,071	7,680	90	350	281	184
2011 Total .....	934,938	11,231	14,251	1,844	5,012	52,387	7,884	91	348	279	205
2012 Total .....	825,734	9,285	11,755	1,565	3,675	40,977	9,485	103	390	290	204
2013 Total .....	860,729	9,784	11,766	1,681	4,852	47,492	8,596	115	398	298	200
2014 January .....	83,647	4,958	4,278	954	436	12,369	695	9	37	27	17
February .....	76,160	1,380	1,538	199	361	4,924	580	8	34	25	15
March .....	72,124	1,480	1,731	264	421	5,578	591	8	37	27	16
April .....	58,065	672	801	83	303	3,070	579	8	32	26	16
May .....	64,033	840	698	109	393	3,614	680	9	32	27	17
June .....	74,328	690	762	50	418	3,591	754	9	37	27	17
July .....	81,495	673	921	102	385	3,621	881	10	39	28	17
August .....	81,074	700	954	97	382	3,661	935	10	38	27	18
September .....	69,127	718	805	121	372	3,504	806	10	36	26	17
October .....	61,129	675	753	123	230	2,701	736	9	35	25	16
November .....	64,651	841	734	106	288	3,121	633	10	36	24	17
December .....	67,799	837	730	153	424	3,840	674	10	38	25	18
Total .....	853,634	14,465	14,704	2,363	4,412	53,593	8,544	110	431	314	200
2015 January .....	71,384	1,294	1,718	281	402	5,301	745	10	36	25	17
February .....	67,136	3,732	4,102	755	413	10,655	676	8	33	22	15
March .....	58,367	851	805	129	275	3,160	736	8	34	25	16
April .....	48,543	638	762	122	300	3,020	692	8	31	25	16
May .....	57,153	841	714	143	339	3,394	766	9	32	26	17
June .....	68,982	785	823	137	306	3,277	922	9	34	26	17
July .....	76,570	741	1,091	163	409	4,039	1,084	10	37	29	19
August .....	73,810	706	961	134	388	3,740	1,065	10	37	28	18
September .....	64,823	643	830	183	376	3,538	930	9	34	26	17
October .....	53,659	636	759	146	300	3,041	825	7	31	26	17
November .....	48,943	804	840	76	260	3,019	767	7	33	27	17
December .....	50,224	768	718	94	276	2,961	807	9	35	28	18
Total .....	739,594	12,438	14,124	2,363	4,044	49,145	10,017	106	407	313	204
2016 January .....	62,032	1,186	979	160	341	4,032	804	10	34	27	16
February .....	50,570	837	1,091	183	329	3,753	717	9	33	25	14
March .....	39,852	659	593	114	366	3,197	777	10	33	26	15
April .....	38,965	617	610	91	390	3,267	756	9	27	27	16
May .....	44,998	794	657	108	372	3,421	841	8	29	27	17
June .....	63,328	694	772	111	382	3,488	1,007	8	32	26	17
July .....	74,282	814	1,255	138	403	4,222	1,179	9	34	27	17
August .....	73,871	792	1,196	205	422	4,302	1,192	9	35	28	17
September .....	62,430	631	781	120	383	3,449	951	8	32	25	16
October .....	54,638	623	846	97	246	2,798	776	7	29	27	16
10-Month Total ...	564,967	7,647	8,781	1,328	3,635	35,930	8,999	87	317	263	162
2015 10-Month Total ...	640,427	10,866	12,566	2,193	3,508	43,166	8,442	90	339	258	168
2014 10-Month Total ...	721,183	12,787	13,239	2,103	3,700	46,632	7,237	91	357	264	165

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>b</sup> Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

<sup>c</sup> Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

<sup>d</sup> Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Petroleum coke is converted from short tons to barrels by multiplying by 5.

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

<sup>j</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>k</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See "Table 7.3b Sources" at end of section and sources for Table 7.3c.

**Table 7.3b Consumption of Combustible Fuels for Electricity Generation:  
Electric Power Sector (Subset of Table 7.3a)**

	Coal <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
		Thousand Short Tons	Thousand Barrels			Thousand Short Tons			Thousand Barrels	Billion Cubic Feet	
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	781,301	16,394	183,285	25	1,008	204,745	3,147	6	106	180	(s)
1995 Total .....	847,854	18,066	88,895	441	2,452	119,663	4,094	18	106	282	2
2000 Total .....	982,713	29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total .....	961,523	29,056	159,150	374	3,308	205,119	5,142	9	116	205	109
2002 Total .....	975,251	21,810	104,577	1,243	5,705	156,154	5,408	25	141	224	137
2003 Total .....	1,003,036	27,441	137,361	1,937	5,719	195,336	4,909	30	156	216	136
2004 Total .....	1,012,459	18,793	138,831	2,511	7,135	195,809	5,075	27	150	206	131
2005 Total .....	1,033,567	19,450	138,337	2,591	7,877	199,760	5,485	24	166	205	116
2006 Total .....	1,022,802	12,578	56,347	1,783	6,905	105,235	5,891	28	163	216	117
2007 Total .....	1,041,346	15,135	62,072	2,496	5,523	107,316	6,502	27	165	221	117
2008 Total .....	1,036,891	12,318	37,222	2,608	5,000	77,149	6,342	23	159	242	122
2009 Total .....	929,692	11,848	27,768	2,110	4,485	64,151	6,567	21	160	244	115
2010 Total .....	971,245	13,677	23,560	1,848	4,679	62,477	7,085	20	177	249	116
2011 Total .....	928,857	10,961	13,861	1,655	4,726	50,105	7,265	18	166	241	133
2012 Total .....	820,762	9,000	11,292	1,339	2,861	35,937	8,788	19	171	250	132
2013 Total .....	855,546	9,511	11,322	1,488	4,189	43,265	7,888	41	187	251	130
2014 January .....	83,213	4,836	4,188	931	404	11,973	634	2	19	23	10
February .....	75,772	1,325	1,472	181	331	4,636	527	2	17	21	9
March .....	71,706	1,439	1,676	246	389	5,305	535	2	19	23	11
April .....	57,692	648	766	70	267	2,817	526	2	16	22	10
May .....	63,635	819	660	91	363	3,383	624	2	15	23	11
June .....	73,907	672	717	36	385	3,350	697	2	19	23	11
July .....	81,059	653	879	87	352	3,380	818	3	20	24	11
August .....	80,644	683	920	80	349	3,427	872	3	20	23	11
September .....	68,726	698	769	103	343	3,285	747	2	19	22	10
October .....	60,759	651	713	106	201	2,476	679	3	18	21	10
November .....	64,281	816	686	90	261	2,895	576	3	19	21	11
December .....	67,410	812	686	137	395	3,610	612	3	20	22	11
Total .....	848,803	14,052	14,132	2,157	4,039	50,537	7,849	29	220	266	127
2015 January .....	71,028	1,253	1,685	258	369	5,040	686	3	19	21	10
February .....	66,799	3,610	4,052	730	388	10,333	625	2	18	19	10
March .....	57,999	824	778	113	255	2,988	684	2	18	21	10
April .....	48,230	615	742	96	271	2,811	642	2	16	21	10
May .....	56,820	818	699	110	320	3,225	712	3	17	22	11
June .....	68,609	763	807	106	288	3,115	863	2	18	22	11
July .....	76,179	715	1,077	142	392	3,894	1,019	2	20	25	12
August .....	73,431	682	947	112	369	3,589	1,001	3	20	24	11
September .....	64,452	624	822	162	355	3,383	870	3	17	22	11
October .....	53,331	616	749	123	284	2,907	768	2	15	23	11
November .....	48,636	787	829	57	240	2,872	709	2	17	23	11
December .....	49,919	749	706	76	258	2,821	744	3	19	24	11
Total .....	735,433	12,056	13,893	2,086	3,789	46,978	9,322	29	215	268	127
2016 January .....	61,699	1,158	962	146	319	3,859	744	3	18	23	11
February .....	50,260	811	1,076	163	311	3,605	662	3	18	21	10
March .....	39,534	643	583	103	346	3,059	719	3	17	21	10
April .....	38,701	596	599	82	369	3,122	700	2	13	23	11
May .....	44,729	772	649	72	348	3,235	783	2	14	23	11
June .....	63,008	674	762	88	360	3,326	947	3	17	23	11
July .....	73,943	788	1,244	108	381	4,045	1,115	3	18	23	11
August .....	73,529	761	1,185	179	399	4,120	1,128	3	19	24	11
September .....	62,151	610	774	98	361	3,286	891	3	17	22	10
October .....	54,377	598	836	58	233	2,658	719	2	14	23	10
10-Month Total ...	561,932	7,409	8,668	1,098	3,428	34,315	8,407	25	164	226	106
2015 10-Month Total ...	636,878	10,520	12,359	1,953	3,291	41,285	7,868	25	180	220	105
2014 10-Month Total ...	717,112	12,424	12,760	1,930	3,384	44,032	6,661	24	181	224	106

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>b</sup> Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

<sup>c</sup> Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

<sup>d</sup> Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Petroleum coke is converted from short tons to barrels by multiplying by 5.

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>j</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>k</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • 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. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

**Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation: Commercial and Industrial Sectors** (Subset of Table 7.3a)

	Commercial Sector <sup>a</sup>				Industrial Sector <sup>b</sup>						
	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
				Waste <sup>f</sup>					Wood <sup>h</sup>	Waste <sup>f</sup>	
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1990 Total .....	417	953	28	15	10,740	13,103	517	104	335	16	36
1995 Total .....	569	649	43	21	12,171	12,265	601	114	373	13	40
2000 Total .....	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total .....	532	1,023	36	15	10,636	10,530	654	88	370	7	44
2002 Total .....	477	834	33	18	11,855	11,608	685	106	464	15	43
2003 Total .....	582	894	38	19	10,440	10,424	668	127	362	13	46
2004 Total .....	377	766	33	19	7,687	6,919	566	108	194	5	41
2005 Total .....	377	585	34	20	7,504	6,440	518	85	189	5	46
2006 Total .....	347	333	35	21	7,408	5,066	536	87	187	3	45
2007 Total .....	361	258	34	19	5,089	5,041	554	88	188	4	41
2008 Total .....	369	166	33	20	5,075	3,617	520	73	179	5	39
2009 Total .....	317	190	34	23	4,674	3,328	520	62	160	4	42
2010 Total .....	314	172	39	24	8,125	2,422	555	70	172	8	55
2011 Total .....	347	137	47	31	5,735	2,145	572	74	182	7	57
2012 Total .....	307	279	63	33	4,665	4,761	633	84	219	8	54
2013 Total .....	513	335	67	36	4,670	3,892	642	74	210	11	50
2014 January .....	27	113	6	3	407	283	54	6	18	1	5
February .....	27	58	5	3	362	229	48	6	16	1	4
March .....	22	44	5	3	396	229	51	6	17	1	4
April .....	16	32	5	3	357	220	48	6	16	1	4
May .....	12	23	6	3	385	208	51	7	17	1	4
June .....	15	27	6	3	406	214	51	7	18	1	4
July .....	16	24	7	3	420	216	55	7	19	1	4
August .....	14	24	7	3	417	210	56	8	18	1	5
September .....	12	25	6	3	389	194	52	8	17	1	5
October .....	11	29	6	3	359	196	51	7	17	1	4
November .....	14	29	5	3	356	197	52	7	17	1	5
December .....	16	32	6	3	373	198	55	7	19	1	5
Total .....	202	462	72	36	4,629	2,594	623	81	210	11	54
2015 January .....	18	34	5	3	338	227	54	7	17	1	5
February .....	19	95	5	3	318	228	46	6	15	1	4
March .....	17	19	5	3	351	153	48	6	15	1	4
April .....	12	15	5	3	302	194	45	6	15	1	4
May .....	10	15	6	3	323	154	49	6	16	1	5
June .....	14	14	6	3	359	148	53	7	16	1	5
July .....	14	16	7	3	376	129	57	8	17	1	6
August .....	12	18	7	3	368	133	57	7	17	1	5
September .....	10	9	7	3	360	146	54	7	16	1	5
October .....	11	8	6	3	317	127	51	5	16	1	5
November .....	12	8	5	3	295	139	53	5	16	1	5
December .....	14	9	6	3	292	131	57	6	16	1	5
Total .....	163	260	70	35	3,999	1,907	625	77	191	10	58
2016 January .....	14	13	6	3	319	160	54	7	16	1	4
February .....	15	15	5	3	296	133	50	7	15	1	3
March .....	14	8	5	3	304	131	52	7	15	1	4
April .....	11	10	5	3	254	135	50	7	14	1	4
May .....	9	11	6	3	259	176	53	5	15	1	4
June .....	10	9	6	3	310	153	54	6	15	1	4
July .....	11	11	7	3	328	165	57	6	16	1	4
August .....	12	15	7	3	330	166	57	6	16	1	4
September .....	12	10	6	3	267	153	54	6	15	1	4
October .....	13	11	5	3	248	129	51	5	15	1	4
10-Month Total ...	120	113	58	29	2,915	1,502	534	61	153	8	40
2015 10-Month Total ...	137	243	59	29	3,412	1,637	515	65	159	8	48
2014 10-Month Total ...	171	401	60	30	3,899	2,199	516	67	175	9	44

<sup>a</sup> Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>b</sup> Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

<sup>c</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal syngas.

<sup>d</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>f</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

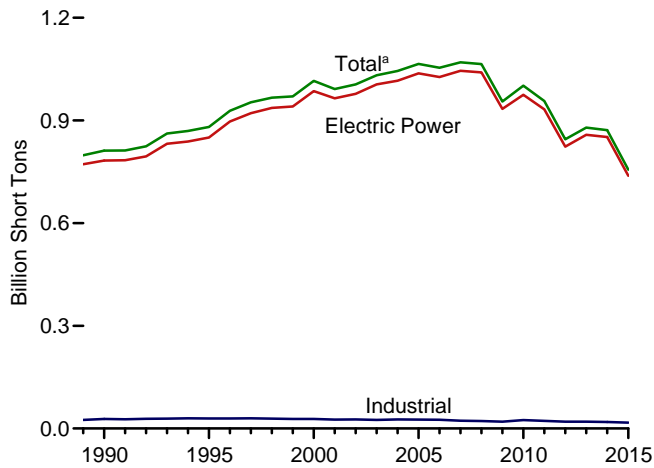
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual and monthly data beginning in 1989.

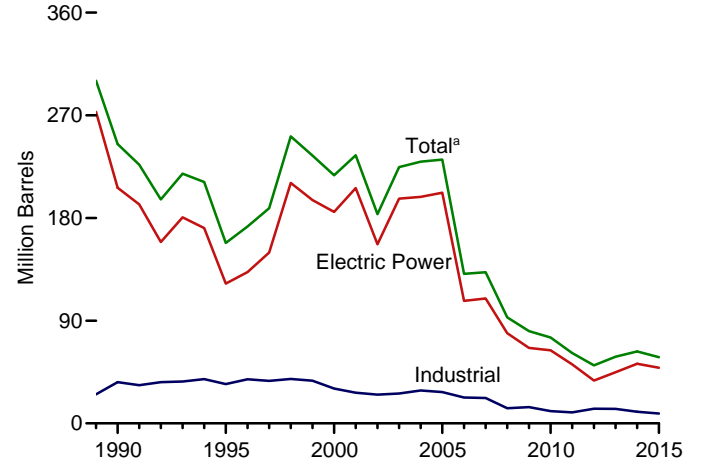
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

**Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output**

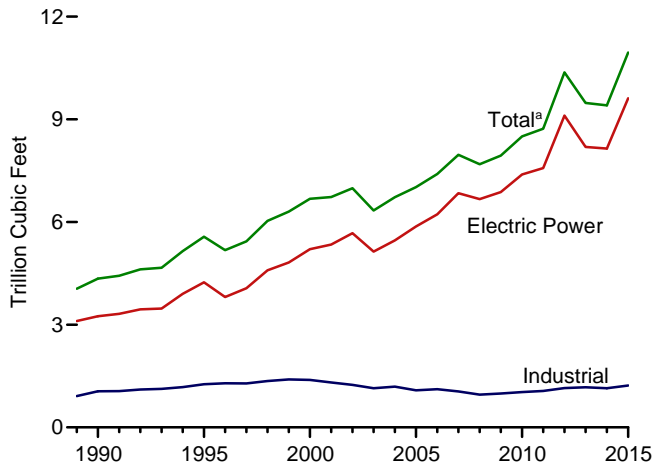
**Coal by Sector, 1989–2015**



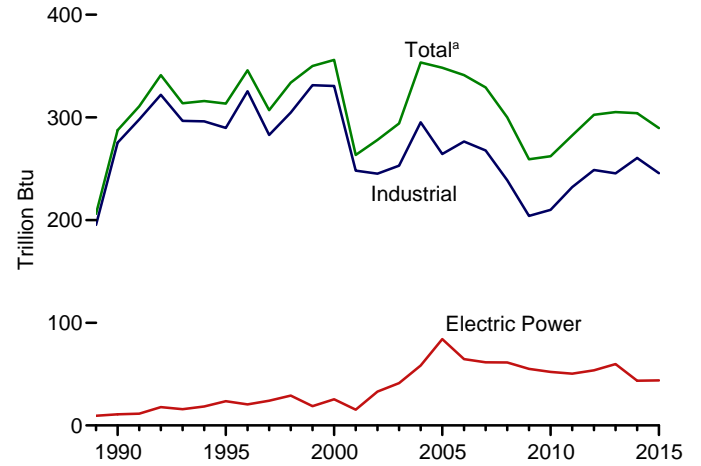
**Petroleum by Sector, 1989–2015**



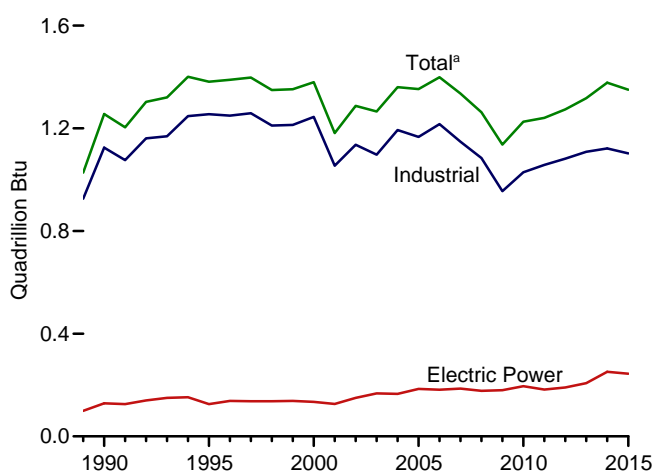
**Natural Gas by Sector, 1989–2015**



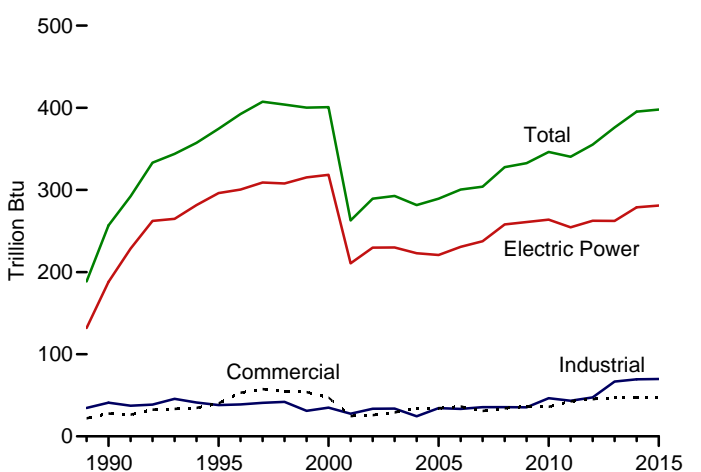
**Other Gases<sup>b</sup> by Sector, 1989–2015**



**Wood by Sector, 1989–2015**



**Waste by Sector, 1989–2015**



<sup>a</sup> Includes commercial sector.

<sup>b</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Sources: Tables 7.4a–7.4c.

**Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors)** (Sum of Tables 7.4b and 7.4c)

		Petroleum					Natural Gas <sup>f</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Coal <sup>a</sup>	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu		
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	811,538	20,194	209,081	1,332	2,832	244,765	4,346	288	1,256	257	86
1995 Total .....	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
2000 Total .....	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total .....	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	263	229
2002 Total .....	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	289	252
2003 Total .....	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	293	262
2004 Total .....	1,044,798	23,520	157,478	4,764	8,721	229,364	6,727	353	1,360	282	254
2005 Total .....	1,065,281	24,446	156,915	4,270	9,113	231,193	7,021	348	1,353	289	237
2006 Total .....	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total .....	1,069,606	17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 Total .....	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
2009 Total .....	955,190	14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 Total .....	1,001,411	15,247	26,944	2,777	6,053	75,231	8,502	262	1,226	346	237
2011 Total .....	956,470	11,735	16,877	2,540	6,092	61,610	8,724	282	1,241	340	261
2012 Total .....	845,066	9,945	13,571	2,185	5,021	50,805	10,371	302	1,273	355	252
2013 Total .....	879,078	10,277	14,199	2,212	6,338	58,378	9,479	305	1,318	376	236
2014 January .....	85,420	5,177	4,609	1,046	541	13,536	782	25	118	35	20
February .....	77,801	1,460	1,746	247	454	5,722	649	23	107	32	17
March .....	73,846	1,528	1,932	316	527	6,410	664	25	117	34	19
April .....	59,489	710	932	118	418	3,852	646	24	109	34	19
May .....	65,483	869	835	153	504	4,376	748	24	109	33	19
June .....	75,741	726	904	81	527	4,343	822	24	116	33	20
July .....	82,961	702	1,050	138	499	4,386	953	26	120	35	20
August .....	82,526	741	1,073	137	494	4,422	1,010	27	121	33	21
September .....	70,482	752	908	158	485	4,243	876	26	112	31	20
October .....	62,488	701	893	165	316	3,339	808	26	114	32	19
November .....	66,131	870	878	152	393	3,863	704	27	115	32	20
December .....	69,372	871	853	196	538	4,612	749	27	121	33	21
Total .....	871,741	15,107	16,615	2,908	5,695	63,106	9,410	304	1,378	395	236
2015 January .....	73,033	1,354	1,913	350	510	6,169	824	28	121	33	19
February .....	68,640	3,892	4,468	824	513	11,747	749	23	109	29	17
March .....	59,861	889	981	176	376	3,926	817	24	111	33	19
April .....	49,840	665	912	184	406	3,790	765	23	109	32	19
May .....	58,488	863	866	201	435	4,107	839	24	112	32	20
June .....	70,309	807	964	193	398	3,952	997	25	111	32	20
July .....	78,021	780	1,241	206	490	4,674	1,166	26	117	35	22
August .....	75,156	727	1,101	176	475	4,379	1,148	26	118	34	21
September .....	66,124	663	959	234	475	4,229	1,008	25	111	32	20
October .....	54,904	660	903	203	384	3,684	904	22	106	34	20
November .....	50,264	829	973	121	365	3,750	845	21	110	35	20
December .....	51,587	796	855	140	362	3,603	889	24	116	37	21
Total .....	756,226	12,924	16,136	3,008	5,188	58,009	10,952	290	1,351	398	237
2016 January .....	63,530	1,227	1,142	201	420	4,670	889	25	117	34	18
February .....	51,961	878	1,218	239	416	4,413	795	23	108	32	17
March .....	41,214	682	720	147	474	3,921	857	27	108	34	18
April .....	40,004	643	738	118	461	3,803	833	25	100	35	19
May .....	46,129	820	779	169	448	4,007	919	23	105	33	19
June .....	64,500	724	891	158	461	4,079	1,085	25	109	33	19
July .....	75,455	859	1,396	191	488	4,887	1,262	25	112	35	19
August .....	75,041	831	1,340	254	506	4,955	1,276	26	113	34	20
September .....	63,469	657	895	166	448	3,958	1,029	23	105	31	18
October .....	55,643	656	985	156	359	3,590	852	24	103	32	18
10-Month Total ...	576,947	7,976	10,103	1,799	4,481	42,282	9,798	244	1,080	333	185
2015 10-Month Total ...	654,375	11,299	14,307	2,747	4,461	50,657	9,218	245	1,124	326	196
2014 10-Month Total ...	736,238	13,366	14,884	2,560	4,764	54,631	7,957	250	1,142	330	195

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>b</sup> Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

<sup>c</sup> Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

<sup>d</sup> Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Petroleum coke is converted from short tons to barrels by multiplying by 5.

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>j</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>k</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See "Table 7.4b Sources" at end of section and sources for Table 7.4c.

**Table 7.4b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector** (Subset of Table 7.4a)

	Coal <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Thousand Short Tons	Thousand Barrels				Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu		
1950 Total	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup>	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
2003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	140
2004 Total	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	58	165	223	138
2005 Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
2006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
2007 Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 Total	1,040,580	12,547	38,241	2,670	5,119	79,056	6,668	61	177	258	131
2009 Total	933,627	12,035	28,782	2,210	4,611	66,081	6,873	55	180	261	124
2010 Total	975,052	13,790	24,503	1,877	4,777	64,055	7,387	52	196	264	124
2011 Total	932,484	11,021	14,803	1,658	4,837	51,667	7,574	50	182	255	143
2012 Total	823,551	9,080	12,203	1,339	2,974	37,495	9,111	54	190	262	143
2013 Total	857,962	9,598	12,283	1,489	4,285	44,794	8,191	60	207	262	139
2014 January	83,498	4,938	4,284	967	412	12,250	663	4	21	24	11
February	76,036	1,338	1,552	181	339	4,766	551	3	20	22	10
March	72,000	1,446	1,770	253	397	5,456	561	3	22	24	12
April	57,936	653	845	70	276	2,948	549	3	18	23	11
May	63,863	823	744	92	371	3,513	647	4	17	24	12
June	74,123	679	801	36	385	3,442	721	3	22	24	12
July	81,287	656	970	87	357	3,497	843	4	23	25	12
August	80,863	703	1,009	80	358	3,581	898	4	23	24	12
September	68,916	701	829	103	352	3,392	771	4	21	22	11
October	60,947	652	804	106	211	2,615	703	4	20	22	11
November	64,495	820	772	90	271	3,036	600	4	22	22	11
December	67,638	825	752	141	404	3,740	639	4	22	23	12
Total	851,602	14,235	15,132	2,208	4,132	52,235	8,146	44	251	279	137
2015 January	71,323	1,272	1,754	276	379	5,198	711	4	22	23	11
February	67,061	3,683	4,182	748	397	10,599	648	4	21	20	10
March	58,272	831	857	117	264	3,126	709	3	21	22	11
April	48,449	619	819	97	281	2,941	664	3	18	22	11
May	57,060	821	777	111	330	3,360	734	4	18	23	11
June	68,867	766	883	106	298	3,248	886	3	21	23	12
July	76,452	727	1,167	142	402	4,044	1,046	3	22	26	12
August	73,678	685	1,033	113	378	3,723	1,027	4	23	25	12
September	64,682	626	910	162	363	3,516	895	4	20	23	11
October	53,557	618	845	124	292	3,049	792	3	17	24	11
November	48,879	790	911	57	252	3,020	732	3	19	25	11
December	50,165	753	792	77	268	2,964	769	4	21	25	12
Total	738,444	12,193	14,929	2,131	3,907	48,787	9,613	44	244	281	136
2016 January	61,951	1,165	1,042	147	329	3,997	771	4	21	25	12
February	50,488	821	1,130	174	321	3,729	686	3	21	23	11
March	39,769	646	662	109	357	3,200	744	4	20	23	11
April	38,949	600	675	83	376	3,235	723	3	15	25	12
May	44,943	777	730	72	354	3,352	808	3	16	24	12
June	63,242	679	836	89	368	3,446	971	4	19	24	12
July	74,175	794	1,324	109	389	4,174	1,142	4	20	24	12
August	73,757	766	1,274	179	408	4,261	1,155	4	21	25	12
September	62,366	613	858	98	370	3,420	915	4	18	23	11
October	54,601	603	919	58	244	2,798	741	3	15	24	11
10-Month Total	564,241	7,465	9,449	1,118	3,516	35,611	8,657	36	185	239	114
2015 10-Month Total	639,400	10,649	13,227	1,997	3,386	42,803	8,112	36	203	231	113
2014 10-Month Total	719,468	12,590	13,608	1,977	3,457	45,459	6,907	36	207	234	114

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>b</sup> Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

<sup>c</sup> Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

<sup>d</sup> Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Petroleum coke is converted from short tons to barrels by multiplying by 5.

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

<sup>j</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>k</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • 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. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

**Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors** (Subset of Table 7.4a)

	Commercial Sector <sup>a</sup>				Industrial Sector <sup>b</sup>						
	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
				Waste <sup>f</sup>					Wood <sup>h</sup>	Waste <sup>f</sup>	
Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu				
1990 Total .....	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86
1995 Total .....	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
2000 Total .....	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total .....	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total .....	1,405	1,250	74	26	26,232	25,163	1,240	245	1,136	34	92
2003 Total .....	1,816	1,449	58	29	24,846	26,212	1,144	253	1,097	34	103
2004 Total .....	1,917	2,009	72	34	26,613	28,857	1,191	295	1,193	24	94
2005 Total .....	1,922	1,630	68	34	25,875	27,380	1,084	264	1,166	34	94
2006 Total .....	1,886	935	68	36	25,262	22,706	1,115	277	1,216	33	102
2007 Total .....	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98
2008 Total .....	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60
2009 Total .....	1,798	521	76	36	19,766	14,228	990	204	955	35	82
2010 Total .....	1,720	437	86	36	24,638	10,740	1,029	210	1,029	47	91
2011 Total .....	1,668	333	87	43	22,319	9,610	1,063	232	1,057	43	94
2012 Total .....	1,450	457	111	45	20,065	12,853	1,149	249	1,082	47	81
2013 Total .....	1,356	887	118	47	19,761	12,697	1,170	246	1,109	67	69
2014 January .....	132	237	14	4	1,791	1,049	106	21	96	6	6
February .....	131	109	9	3	1,633	848	89	20	87	6	5
March .....	118	79	9	4	1,729	875	94	22	94	6	5
April .....	82	44	8	4	1,472	861	89	20	90	7	6
May .....	72	31	9	4	1,549	832	92	21	92	5	6
June .....	78	30	10	4	1,540	871	91	21	94	5	6
July .....	85	29	11	4	1,589	861	99	22	97	6	6
August .....	72	37	11	4	1,591	804	101	23	98	5	7
September .....	64	36	10	4	1,502	815	95	23	91	4	6
October .....	58	38	10	4	1,482	686	95	22	93	6	6
November .....	82	42	9	4	1,554	784	94	23	93	6	6
December .....	90	45	10	4	1,644	827	100	23	98	6	7
Total .....	1,063	758	119	47	19,076	10,112	1,145	260	1,122	70	72
2015 January .....	97	88	10	4	1,613	884	103	23	98	6	6
February .....	97	221	9	3	1,483	926	92	20	87	5	5
March .....	83	53	9	4	1,506	746	99	21	90	6	5
April .....	54	39	8	4	1,336	810	93	20	90	6	6
May .....	50	34	9	4	1,378	713	95	20	93	5	6
June .....	61	28	10	4	1,381	676	101	21	90	5	6
July .....	64	32	11	4	1,505	599	109	22	95	5	7
August .....	58	42	11	4	1,420	614	110	22	95	5	7
September .....	51	22	11	4	1,391	691	102	21	90	5	6
October .....	52	20	10	4	1,296	616	102	18	88	7	6
November .....	59	23	9	4	1,325	707	103	18	91	7	6
December .....	72	20	10	4	1,350	618	110	20	94	7	6
Total .....	798	622	116	47	16,984	8,600	1,222	246	1,103	70	73
2016 January .....	76	41	10	4	1,503	632	108	21	95	5	5
February .....	78	41	9	4	1,395	643	100	19	87	5	4
March .....	75	23	10	5	1,370	698	103	23	88	6	5
April .....	49	21	9	4	1,006	547	101	22	85	6	5
May .....	40	20	9	4	1,147	636	102	19	89	5	5
June .....	46	17	10	4	1,212	617	104	21	90	6	5
July .....	46	28	11	4	1,234	684	109	21	92	6	5
August .....	50	25	11	4	1,234	669	110	22	91	5	5
September .....	49	18	10	4	1,053	520	104	19	86	5	5
October .....	50	20	9	4	993	771	102	21	87	4	4
10-Month Total ...	559	255	98	40	12,147	6,416	1,043	208	891	54	47
2015 10-Month Total ...	667	579	97	39	14,309	7,275	1,008	208	918	56	60
2014 10-Month Total ...	891	671	100	39	15,879	8,501	951	215	931	57	58

<sup>a</sup> Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>b</sup> Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

<sup>c</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

<sup>d</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

<sup>e</sup> Natural gas, plus a small amount of supplemental gaseous fuels.

<sup>f</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>g</sup> Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

<sup>h</sup> Wood and wood-derived fuels.

<sup>i</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

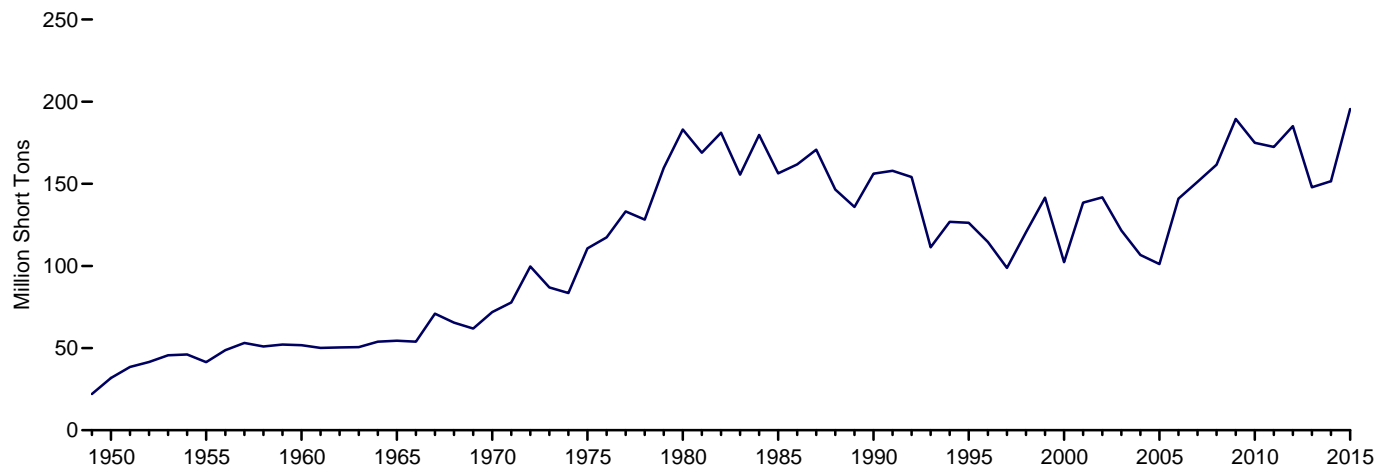
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual and monthly data beginning in 1989.

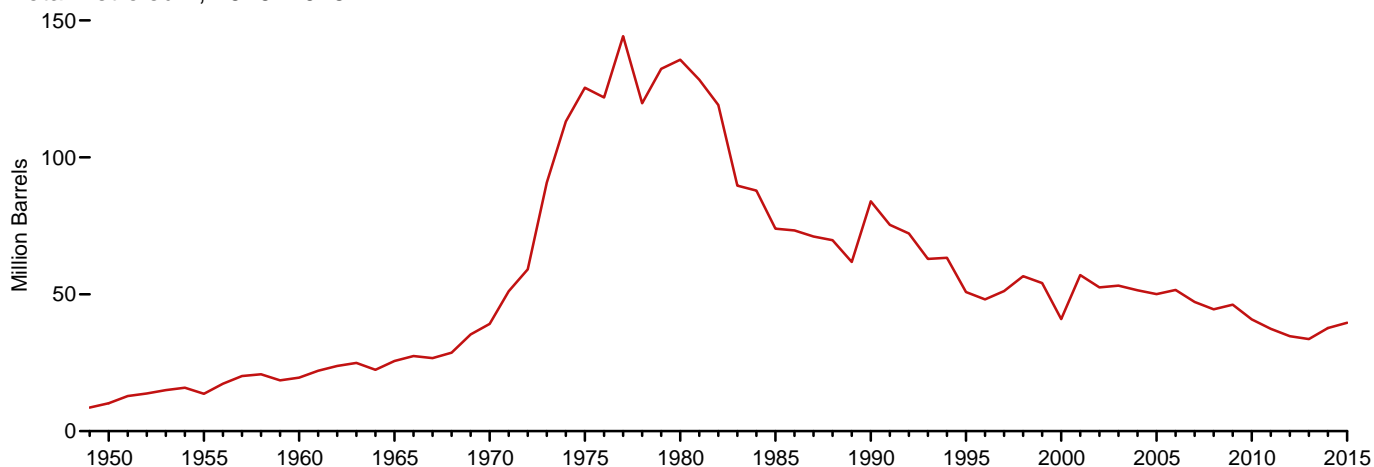
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

**Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector**

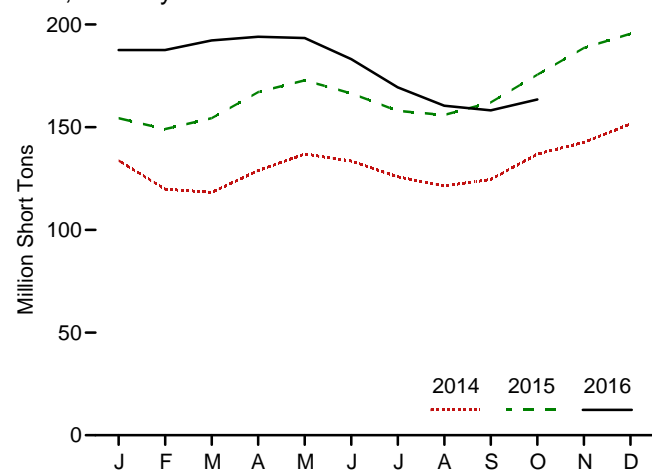
Coal, 1949–2015



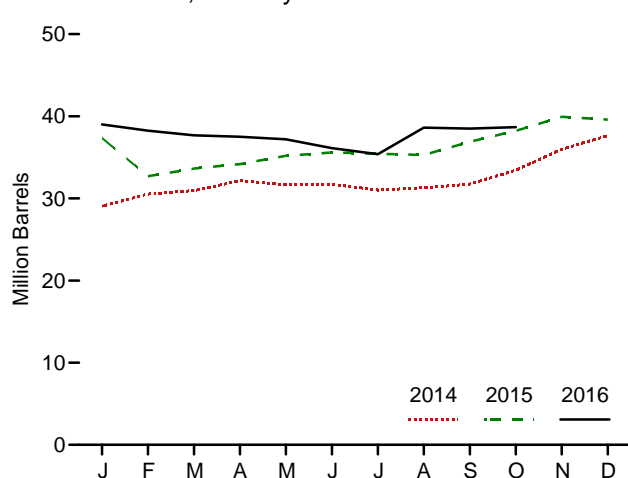
Total Petroleum, 1949–2015



Coal, Monthly



Total Petroleum, Monthly



Note: Data are for utility-scale facilities.  
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.  
Source: Table 7.5.



**Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector**

	Coal <sup>a</sup>	Petroleum				
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e,f</sup>
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels
1950 Year .....	31,842	NA	NA	NA	NA	10,201
1955 Year .....	41,391	NA	NA	NA	NA	13,671
1960 Year .....	51,735	NA	NA	NA	NA	19,572
1965 Year .....	54,525	NA	NA	NA	NA	25,647
1970 Year .....	71,908	NA	NA	NA	239	39,151
1975 Year .....	110,724	16,432	108,825	NA	31	125,413
1980 Year .....	183,010	30,023	105,351	NA	52	135,635
1985 Year .....	156,376	16,386	57,304	NA	49	73,933
1990 Year .....	156,166	16,471	67,030	NA	94	83,970
1995 Year .....	126,304	15,392	35,102	NA	65	50,821
2000 Year <sup>g</sup> .....	102,296	15,127	24,748	NA	211	40,932
2001 Year .....	138,496	20,486	34,594	NA	390	57,031
2002 Year .....	141,714	17,413	25,723	800	1,711	52,490
2003 Year .....	121,567	19,153	25,820	779	1,484	53,170
2004 Year .....	106,669	19,275	26,596	879	937	51,434
2005 Year .....	101,137	18,778	27,624	1,012	530	50,062
2006 Year .....	140,964	18,013	28,823	1,380	674	51,583
2007 Year .....	151,221	18,395	24,136	1,902	554	47,203
2008 Year .....	161,589	17,761	21,088	1,955	739	44,498
2009 Year .....	189,467	17,886	19,068	2,257	1,394	46,181
2010 Year .....	174,917	16,758	16,629	2,319	1,019	40,800
2011 Year .....	172,387	16,649	15,491	2,707	508	37,387
2012 Year .....	185,116	16,433	12,999	2,792	495	34,698
2013 Year .....	147,884	16,068	12,926	2,679	390	33,622
2014 January .....	133,705	15,058	10,057	2,439	298	29,044
February .....	119,904	16,003	10,677	2,479	277	30,541
March .....	118,260	16,148	10,606	2,443	350	30,946
April .....	128,925	16,483	10,608	2,477	515	32,143
May .....	136,921	16,285	10,581	2,511	458	31,665
June .....	133,479	16,583	10,659	2,495	397	31,724
July .....	125,870	16,490	10,250	2,380	381	31,025
August .....	121,369	16,510	10,460	2,375	388	31,286
September .....	124,546	16,863	10,532	2,394	389	31,734
October .....	136,964	17,429	10,891	2,564	510	33,433
November .....	142,595	18,166	11,978	2,685	633	35,994
December .....	151,548	18,309	12,764	2,432	827	37,643
2015 January .....	154,390	18,216	12,207	2,473	892	37,355
February .....	149,071	16,459	9,798	2,188	850	32,697
March .....	154,347	16,996	10,251	2,289	818	33,626
April .....	167,063	17,167	10,152	2,294	912	34,173
May .....	172,809	17,357	10,518	2,309	999	35,180
June .....	166,437	17,513	10,570	2,358	1,031	35,598
July .....	157,938	17,519	10,263	2,337	1,064	35,442
August .....	155,952	17,712	10,087	2,345	1,029	35,286
September .....	162,109	18,286	10,766	2,339	1,102	36,898
October .....	175,588	18,596	11,492	2,375	1,151	38,217
November .....	188,595	18,738	12,310	2,440	1,290	39,937
December .....	195,548	17,955	12,566	2,363	1,340	39,586
2016 January .....	187,570	17,784	12,275	2,338	1,320	38,997
February .....	187,571	17,458	11,880	2,300	1,323	38,254
March .....	192,248	17,247	11,948	2,291	1,240	37,685
April .....	194,004	17,301	12,187	2,115	1,181	37,508
May .....	193,412	17,409	12,309	2,119	1,071	37,192
June .....	183,115	17,325	12,151	2,117	905	36,120
July .....	169,441	17,092	11,885	2,114	858	35,383
August .....	160,428	20,984	11,644	2,097	780	38,624
September .....	158,169	20,920	11,663	2,086	768	38,507
October .....	163,474	20,994	11,516	2,096	812	38,667

<sup>a</sup> Anthracite, bituminous coal, subbituminous coal, and lignite; excludes waste coal.

<sup>b</sup> Fuel oil nos. 1, 2 and 4. For 1973–1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.

<sup>c</sup> Fuel oil nos. 5 and 6. For 1973–1979, data are for steam plant stocks of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

<sup>d</sup> Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

<sup>e</sup> Petroleum coke is converted from short tons to barrels by multiplying by 5.

<sup>f</sup> Distillate fuel oil and residual fuel oil. Beginning in 1970, also includes petroleum coke. Beginning in 2002, also includes other liquids.

<sup>g</sup> Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose

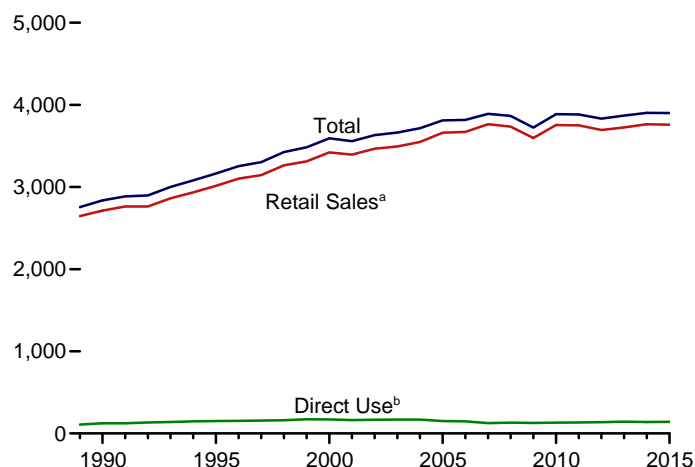
primary business is to sell electricity, or electricity and heat, to the public. • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

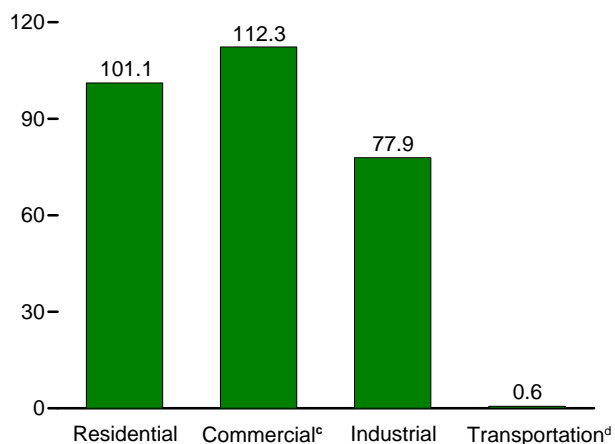
Sources: • **1949–September 1977:** Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • **October 1977–1981:** Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • **1982–1988:** U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • **1989–1997:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

**Figure 7.6 Electricity End Use**  
(Billion Kilowatthours)

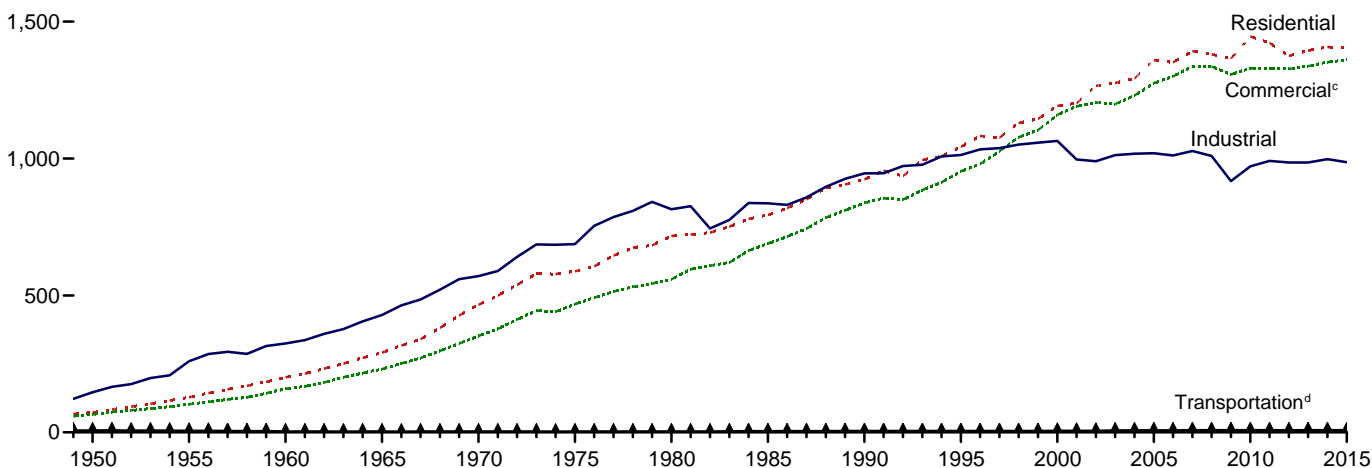
Electricity End Use Overview, 1989–2015



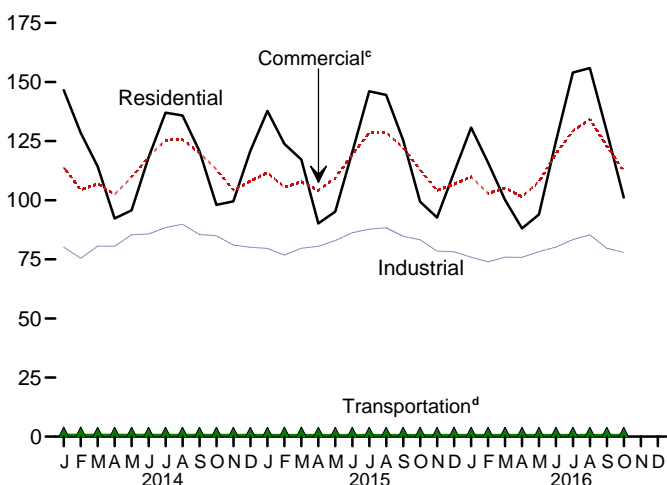
Retail Sales<sup>a</sup> by Sector, October 2016



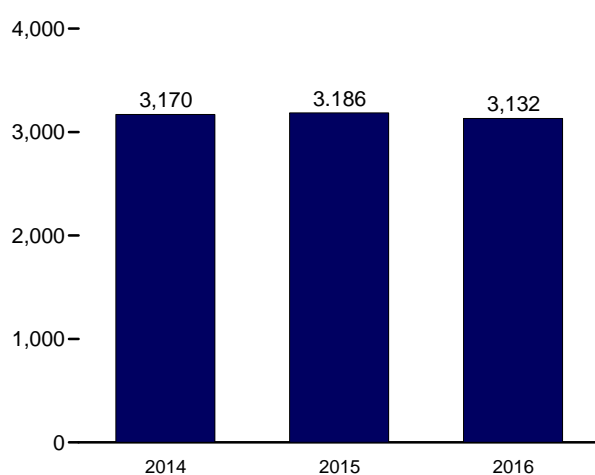
Retail Sales<sup>a</sup> by Sector, 1949–2015



Retail Sales<sup>a</sup> by Sector, Monthly



Retail Sales<sup>a</sup> Total, January–October



<sup>a</sup> Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

<sup>b</sup> See “Direct Use” in Glossary.

<sup>c</sup> Commercial sector, including public street and highway lighting, inter-

departmental sales, and other sales to public authorities.

<sup>d</sup> Transportation sector, including sales to railroads and railways.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#electricity>.

Source: Table 7.6.

**Table 7.6 Electricity End Use**  
(Million Kilowatthours)

	Retail Sales <sup>a</sup>					Direct Use <sup>f</sup>	Total End Use <sup>g</sup>
	Residential	Commercial <sup>b</sup>	Industrial <sup>c</sup>	Transportation <sup>d</sup>	Total Retail Sales <sup>e</sup>		
1950 Total .....	72,200	E 65,971	146,479	E 6,793	291,443	NA	291,443
1955 Total .....	128,401	E 102,547	259,974	E 5,826	496,748	NA	496,748
1960 Total .....	201,463	E 159,144	324,402	E 3,066	688,075	NA	688,075
1965 Total .....	291,013	E 231,126	428,727	E 2,923	953,789	NA	953,789
1970 Total .....	466,291	E 352,041	570,854	E 3,115	1,392,300	NA	1,392,300
1975 Total .....	588,140	E 468,296	687,680	E 2,974	1,747,091	NA	1,747,091
1980 Total .....	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449
1985 Total .....	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974
1990 Total .....	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084
1995 Total .....	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963
2000 Total .....	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357
2001 Total .....	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107
2002 Total .....	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650
2003 Total .....	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029
2004 Total .....	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949
2005 Total .....	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984
2006 Total .....	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845
2007 Total .....	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231
2008 Total .....	1,380,662	1,336,133	1,009,516	7,653	3,733,965	132,197	3,866,161
2009 Total .....	1,364,758	1,306,853	917,416	7,768	3,596,795	126,938	3,723,733
2010 Total .....	1,445,708	1,330,199	971,221	7,712	3,754,841	131,910	3,886,752
2011 Total .....	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600
2012 Total .....	1,374,515	1,327,101	985,714	7,320	3,694,650	137,657	3,832,306
2013 Total .....	1,394,812	1,337,079	985,352	7,625	3,724,868	143,462	3,868,330
2014 January .....	146,511	113,866	80,149	712	341,238	E 12,043	353,281
February .....	128,475	104,353	75,413	700	308,941	E 10,683	319,624
March .....	114,233	106,968	80,539	648	302,388	E 11,423	313,811
April .....	92,290	102,459	80,505	640	275,894	E 10,776	286,669
May .....	95,727	109,666	85,383	646	291,421	E 11,196	302,617
June .....	118,049	118,423	85,711	609	322,792	E 11,376	334,168
July .....	137,028	125,434	88,417	645	351,524	E 12,355	363,879
August .....	135,830	125,603	89,808	642	351,883	E 12,421	364,304
September .....	120,741	120,049	85,489	628	326,907	E 11,619	338,526
October .....	98,038	113,023	84,994	625	296,680	E 11,216	307,896
November .....	99,486	104,245	81,044	637	285,413	E 11,288	296,701
December .....	120,801	108,070	80,123	626	309,620	E 12,179	321,799
Total .....	1,407,208	1,352,158	997,576	7,758	3,764,700	138,574	3,903,274
2015 January .....	137,765	R 111,620	79,609	673	R 329,666	E 12,214	R 341,881
February .....	123,838	R 105,482	76,749	699	R 306,768	E 10,703	R 317,472
March .....	117,167	R 107,796	79,709	679	R 305,352	E 11,103	R 316,455
April .....	90,199	R 104,168	80,489	620	R 275,475	E 10,644	R 286,119
May .....	95,161	R 109,406	82,916	609	R 288,091	E 11,178	R 299,268
June .....	120,300	R 119,270	86,218	609	R 326,397	E 11,897	R 338,294
July .....	146,038	R 128,504	87,747	648	R 362,938	E 12,956	R 375,894
August .....	144,515	R 128,519	88,373	625	R 362,032	E 12,716	R 374,748
September .....	125,417	R 122,195	84,730	615	R 332,958	E 12,042	R 345,000
October .....	99,349	R 112,821	83,249	636	R 296,055	E 11,542	R 307,598
November .....	92,678	R 104,140	78,495	604	R 275,917	E 11,684	R 287,600
December .....	111,670	R 106,829	78,224	619	R 297,344	E 12,488	R 309,831
Total .....	1,404,096	1,360,752	986,508	7,637	3,758,992	141,168	3,900,160
2016 January .....	130,727	109,874	75,892	660	317,153	E 12,247	329,400
February .....	115,871	102,890	73,916	647	293,323	E 11,324	304,647
March .....	100,134	105,159	75,882	610	281,785	E 11,882	293,667
April .....	88,097	101,454	75,826	595	265,973	E 11,258	277,231
May .....	93,980	107,897	78,249	582	280,708	E 11,668	292,375
June .....	124,887	119,670	80,185	632	325,374	E 11,929	337,303
July .....	153,975	129,261	83,319	648	367,203	E 12,558	379,761
August .....	155,859	134,229	85,336	630	376,055	E 12,577	388,632
September .....	129,114	122,960	79,666	637	332,378	E 11,681	344,059
October .....	101,138	112,314	77,919	613	291,985	E 11,313	303,297
10-Month Total ...	1,193,784	1,145,708	786,191	6,253	3,131,935	E 118,438	3,250,373
2015 10-Month Total ...	1,199,748	1,149,782	829,789	6,413	3,185,732	E 116,996	3,302,728
2014 10-Month Total ...	1,186,922	1,139,843	836,409	6,494	3,169,668	E 115,106	3,284,774

<sup>a</sup> Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>b</sup> Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

<sup>c</sup> Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

<sup>d</sup> Transportation sector, including sales to railroads and railways.

<sup>e</sup> The sum of "Residential," "Commercial," "Industrial," and "Transportation."

<sup>f</sup> Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities

that house the generating equipment. Direct use is exclusive of station use.

<sup>g</sup> The sum of "Total Retail Sales" and "Direct Use."

R=Revised. E=Estimate. NA=Not available.

Notes: • See Note 1, "Coverage of Electricity Statistics," at end of section.

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

• Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

## Electricity

**Note 1. Coverage of Electricity Statistics.** Data in Section 7 cover the following:

Through 1984, data for electric utilities also include institutions (such as universities) and military facilities that generated electricity primarily for their own use; beginning in 1985, data for electric utilities exclude institutions and military facilities. Beginning in 1989, data for the commercial sector include institutions and military facilities.

The generation, consumption, and stocks data in Section 7 are for utility-scale facilities—those with a combined generation nameplate capacity of 1 megawatt or more. Data exclude distributed (small-scale) facilities—those with a combined generator nameplate capacity of less than 1 megawatt. For data on distributed solar photovoltaic (PV) generation in the residential, commercial, and industrial sectors, see Table 10.6.

**Note 2. Classification of Power Plants Into Energy-Use Sectors.** The U.S. Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31–33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, “Annual Electric Generator Report,” asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at [http://www.eia.gov/survey/form/eia\\_860/instructions.pdf](http://www.eia.gov/survey/form/eia_860/instructions.pdf).

### Table 7.1 Sources

#### Net Generation, Electric Power Sector

1949 forward: Table 7.2b.

#### Net Generation, Commercial and Industrial Sectors

1949 forward: Table 7.2c.

#### Trade

1949–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

1981: U.S. Department of Energy (DOE), Office of Energy Emergency Operations, “Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981,” April 1982 (revised June 1982).

1982 and 1983: DOE, ERA, *Electricity Exchanges Across*

*International Borders*.

1984–1986: DOE, ERA, *Electricity Transactions Across International Borders*.

1987 and 1988: DOE, ERA, Form ERA-781R, “Annual Report of International Electrical Export/Import Data.”

1989: DOE, Fossil Energy, Form FE-781R, “Annual Report of International Electrical Export/Import Data.”

1990–2000: National Energy Board of Canada; and DOE, Office of Electricity Delivery and Energy Reliability, Form FE-781R, “Annual Report of International Electrical Export/Import Data.”

2001–May 2011: National Energy Board of Canada; DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, “Monthly Electricity Imports and Exports Report,” and predecessor form; and California Independent System Operator.

June 2011 forward: National Energy Board of Canada; California Independent System Operator; and EIA estimates for Texas transfers.

#### T&D Losses and Unaccounted for

1949 forward: Calculated as the sum of total net generation and imports minus end use and exports.

#### End Use

1949 forward: Table 7.6.

### Table 7.2b Sources

1949–September 1977: Federal Power Commission, Form FPC-4, “Monthly Power Plant Report.”

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, “Monthly Power Plant Report.”

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, “Monthly Power Plant Report.”

1989–1997: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-867, “Annual Nonutility Power Producer Report.”

1998–2000: EIA, Form EIA-759, “Monthly Power Plant Report,” and Form EIA-860B, “Annual Electric Generator Report—Nonutility.”

2001–2003: EIA, Form EIA-906, “Power Plant Report.”

2004–2007: EIA, Form EIA-906, “Power Plant Report,” and Form EIA-920, “Combined Heat and Power Plant Report.”

2008 forward: EIA, Form EIA-923, “Power Plant Operations Report.”

### Table 7.2c Sources

#### Industrial Sector, Hydroelectric Power, 1949–1988

1949–September 1977: Federal Power Commission (FPC), Form FPC-4, “Monthly Power Plant Report,” for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, “Industrial Electric Generating Capacity,” for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, “Monthly Power Plant Report,” for

plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

### **All Data, 1989 Forward**

1989–1997: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

### **Table 7.3b Sources**

1949–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

### **Table 7.4b Sources**

1949–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

### **Table 7.6 Sources**

#### **Retail Sales, Residential and Industrial**

1949–September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

October 1977–February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

March 1980–1982: FERC, Form FPC-5, "Electric Utility Company Monthly Statement."

1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement."

1984–2003: EIA, Form EIA-861, "Annual Electric Utility Report."

2004 forward: EIA, *Electric Power Monthly (EPM)*, December 2016, Table 5.1.

#### **Retail Sales, Commercial**

1949–2002: Data are estimates. See estimation methodology at [http://www.eia.gov/state/seds/sep\\_use/notes/use\\_elec.pdf](http://www.eia.gov/state/seds/sep_use/notes/use_elec.pdf).

2003: EIA, Form EIA-861, "Annual Electric Utility Report."

2004 forward: EIA, EPM, December 2016, Table 5.1.

#### **Retail Sales, Transportation**

1949–2002: Data are estimates. See estimation methodology at [http://www.eia.gov/state/seds/sep\\_use/notes/use\\_elec.pdf](http://www.eia.gov/state/seds/sep_use/notes/use_elec.pdf).

2003: EIA, Form EIA-861, "Annual Electric Utility Report."

2004 forward: EIA, EPM, December 2016, Table 5.1.

#### **Direct Use, Annual**

1989–1997: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility."

2001–2015: EIA, *Electric Power Annual 2015*, December 2016, Table 2.2.

#### **Direct Use, Monthly**

1989 forward: Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2016, the 2015 annual share is used.

THIS PAGE INTENTIONALLY LEFT BLANK