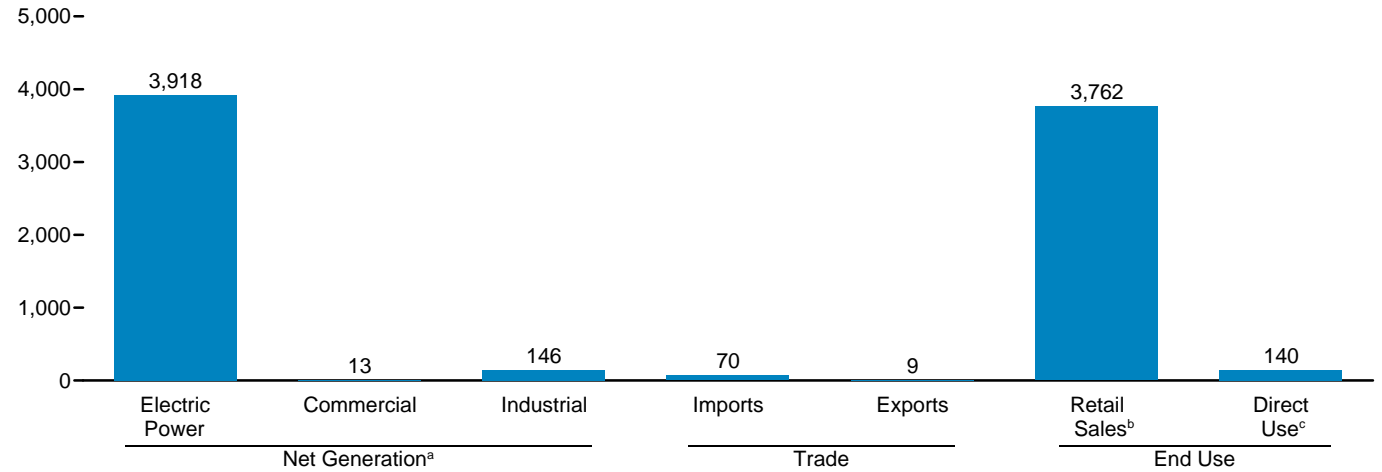


## 7. Electricity

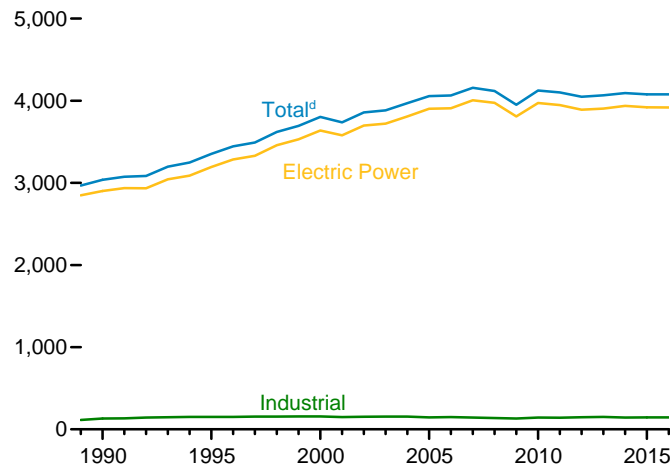
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**Figure 7.1 Electricity Overview**  
(Billion Kilowatthours)

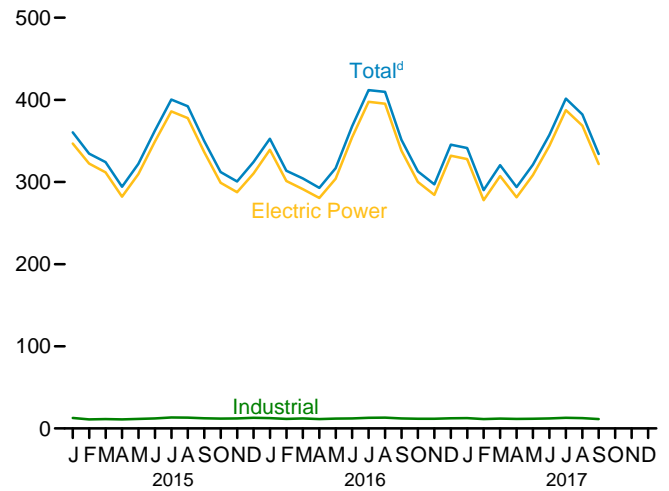
Overview, 2016



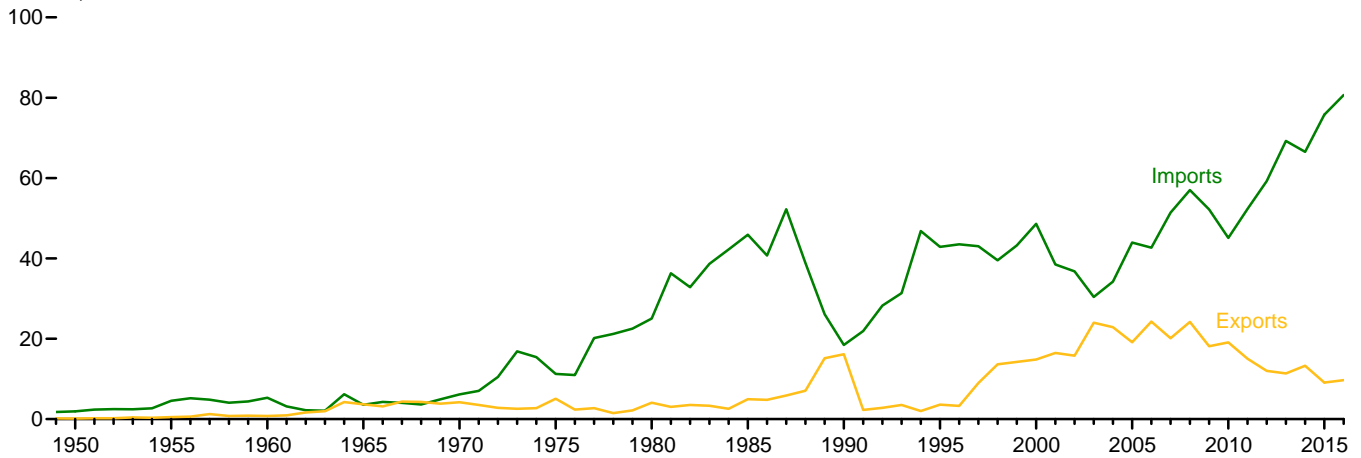
Net Generation<sup>a</sup> by Sector, 1989–2016



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



Trade, 1949–2016



<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- mercial 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	4	(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 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	24	330	E 12	342
February	322	1	11	334	6	1	4	21	307	E 11	317
March	312	1	11	324	7	1	6	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	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	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	308
November	288	1	12	301	6	1	5	18	276	E 12	288
December	310	1	13	324	6	1	5	20	297	E 12	310
Total	3,919	13	146	4,078	76	9	67	244	3,759	141	3,900
2016 January	339	1	<sup>R</sup> 12	353	<sup>R</sup> 6	1	6	<sup>R</sup> 26	<sup>R</sup> 321	E 12	<sup>R</sup> 333
February	301	1	12	314	<sup>R</sup> 5	1	5	<sup>R</sup> 10	<sup>R</sup> 297	E 11	<sup>R</sup> 308
March	291	1	12	304	<sup>R</sup> 6	1	5	<sup>R</sup> 12	<sup>R</sup> 286	E 12	<sup>R</sup> 297
April	<sup>R</sup> 281	1	<sup>R</sup> 11	293	<sup>R</sup> 4	1	4	<sup>R</sup> 16	<sup>R</sup> 270	E 11	<sup>R</sup> 280
May	304	1	12	317	<sup>R</sup> 5	1	5	<sup>R</sup> 25	<sup>R</sup> 285	E 11	<sup>R</sup> 296
June	<sup>R</sup> 354	1	12	368	<sup>R</sup> 7	1	<sup>R</sup> 6	<sup>R</sup> 32	<sup>R</sup> 330	E 12	<sup>R</sup> 342
July	398	1	13	412	<sup>R</sup> 7	1	<sup>R</sup> 6	<sup>R</sup> 34	<sup>R</sup> 372	E 13	<sup>R</sup> 385
August	<sup>R</sup> 395	1	13	410	<sup>R</sup> 7	1	<sup>R</sup> 6	<sup>R</sup> 22	<sup>R</sup> 381	E 13	<sup>R</sup> 394
September	<sup>R</sup> 338	1	12	<sup>R</sup> 351	<sup>R</sup> 5	1	<sup>R</sup> 4	<sup>R</sup> 7	<sup>R</sup> 337	E 12	<sup>R</sup> 348
October	300	1	12	313	<sup>R</sup> 5	1	5	<sup>R</sup> 10	<sup>R</sup> 297	E 11	<sup>R</sup> 308
November	284	1	12	297	<sup>R</sup> 6	1	<sup>R</sup> 5	<sup>R</sup> 14	<sup>R</sup> 277	E 11	<sup>R</sup> 289
December	332	1	12	345	<sup>R</sup> 5	1	<sup>R</sup> 4	<sup>R</sup> 27	<sup>R</sup> 311	E 12	<sup>R</sup> 322
Total	<sup>R</sup> 3,918	13	<sup>R</sup> 146	<sup>R</sup> 4,077	<sup>R</sup> 70	<sup>R</sup> 9	<sup>R</sup> 60	<sup>R</sup> 235	<sup>R</sup> 3,762	<sup>R</sup> 140	<sup>R</sup> 3,902
2017 January	328	1	12	341	6	1	5	<sup>R</sup> 20	314	E 12	<sup>R</sup> 326
February	<sup>R</sup> 278	1	11	<sup>R</sup> 290	4	1	3	<sup>R</sup> 10	273	E 11	284
March	<sup>R</sup> 307	1	12	<sup>R</sup> 320	5	1	4	<sup>R</sup> 24	288	E 12	<sup>R</sup> 300
April	281	1	<sup>R</sup> 12	294	5	1	4	18	269	E 11	<sup>R</sup> 280
May	<sup>R</sup> 308	1	12	321	5	1	4	25	289	E 11	300
June	<sup>R</sup> 344	1	12	<sup>R</sup> 357	6	1	5	<sup>R</sup> 27	<sup>R</sup> 323	E 12	335
July	<sup>R</sup> 388	1	13	<sup>R</sup> 402	<sup>F</sup> 7	<sup>F</sup> 1	<sup>F</sup> 6	<sup>R</sup> 34	362	E 12	374
August	<sup>R</sup> 369	1	13	<sup>R</sup> 382	<sup>F</sup> 7	<sup>F</sup> 1	<sup>F</sup> 6	<sup>R</sup> 21	356	E 12	368
September	322	1	11	334	<sup>F</sup> 6	<sup>F</sup> 1	<sup>F</sup> 5	10	318	E 11	329
9-Month Total	2,925	9	108	3,042	<sup>E</sup> 51	<sup>E</sup> 9	<sup>E</sup> 42	189	2,792	<sup>E</sup> 104	2,895
2016 9-Month Total	3,002	10	110	3,121	53	7	46	184	2,878	<sup>E</sup> 105	2,983
2015 9-Month Total	3,022	10	109	3,140	59	7	52	197	2,890	<sup>E</sup> 105	2,995

<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.

<sup>R</sup>=Revised. <sup>E</sup>=Estimate. <sup>NA</sup>=Not available. <sup>F</sup>=Forecast. (s)=Less than 0.5 billion kilowatthours.

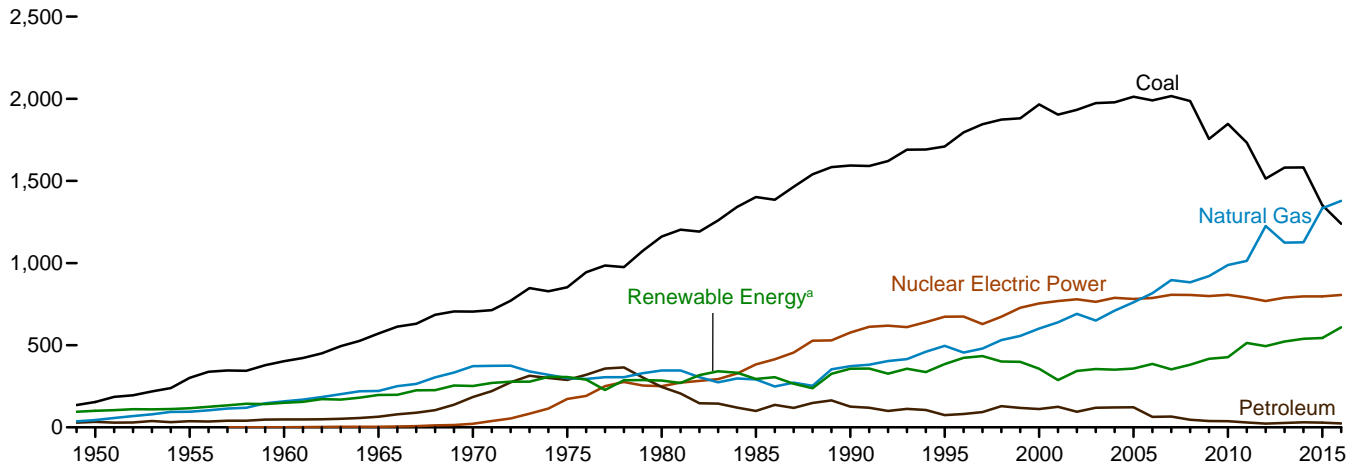
Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants into Energy-Use Sectors," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 3, "Electricity Forecast Values," 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.

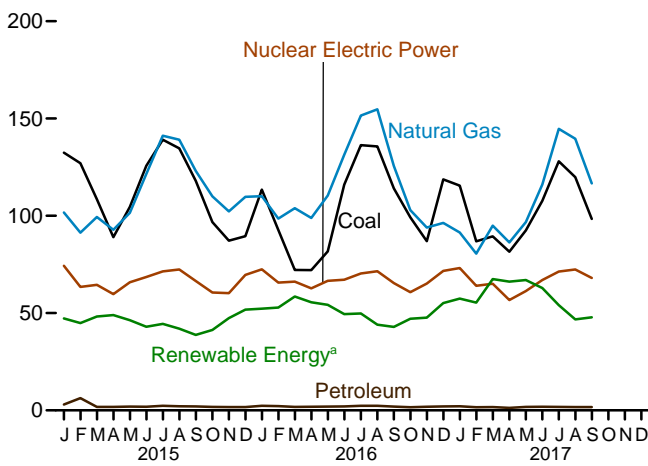
Sources: See end of section.

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

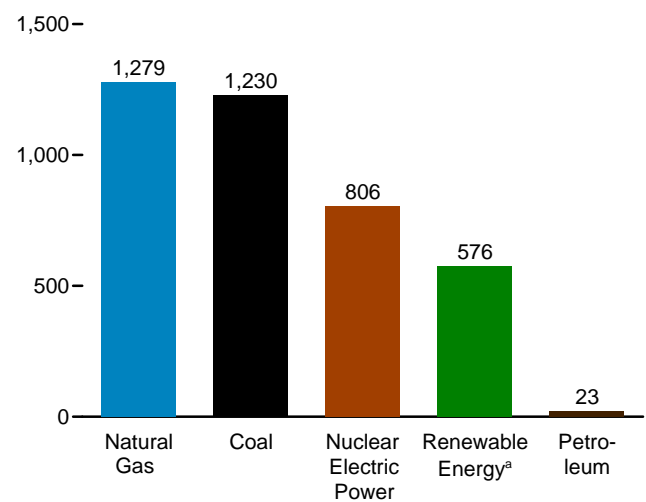
Total (All Sectors), Major Sources, 1949–2016



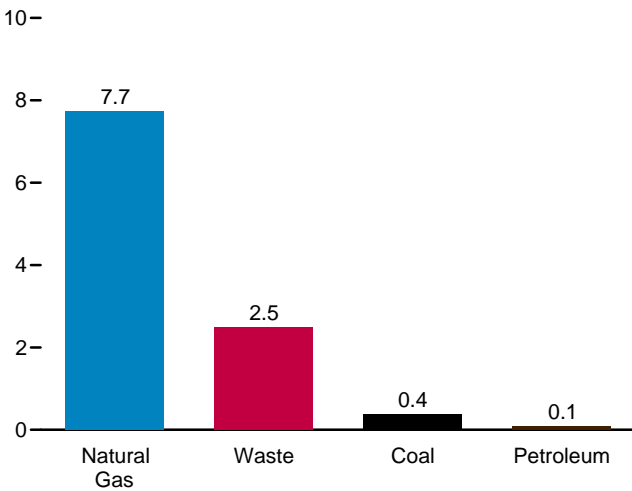
Total (All Sectors), Major Sources, Monthly



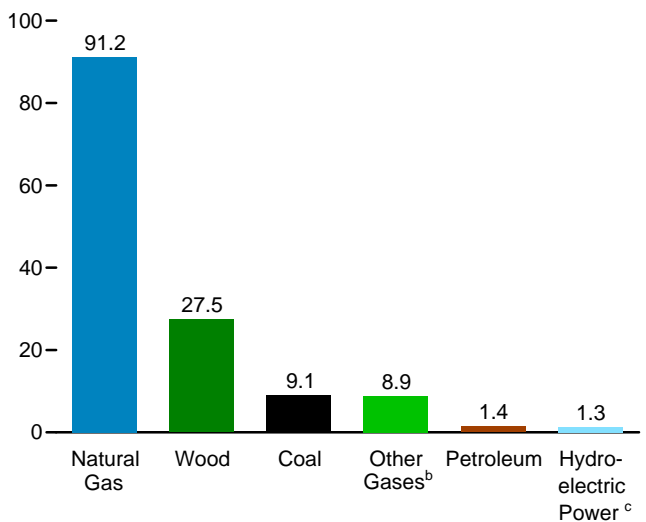
Electric Power Sector, Major Sources, 2016



Commercial Sector, Major Sources, 2016



Industrial Sector, Major Sources, 2016



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

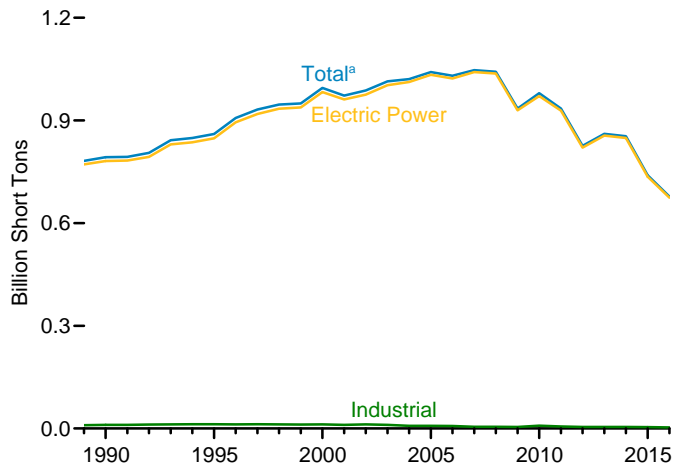




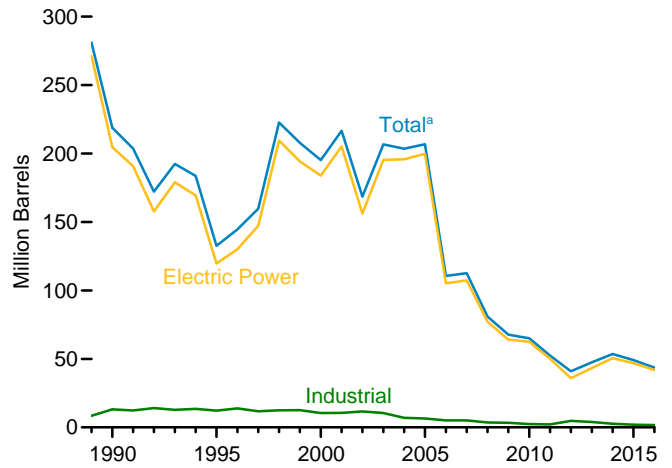


**Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation**

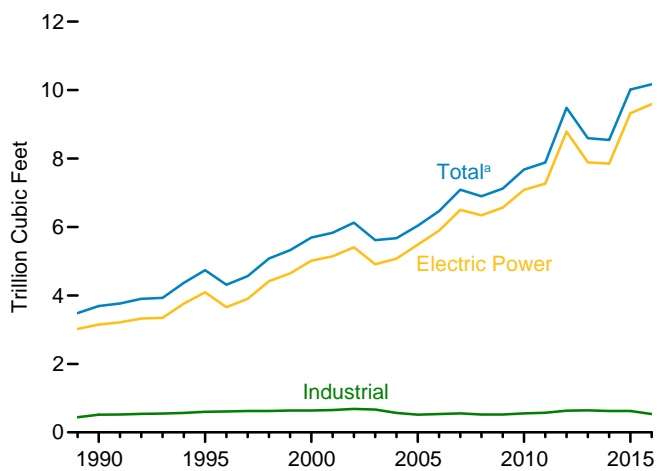
**Coal by Sector, 1989–2016**



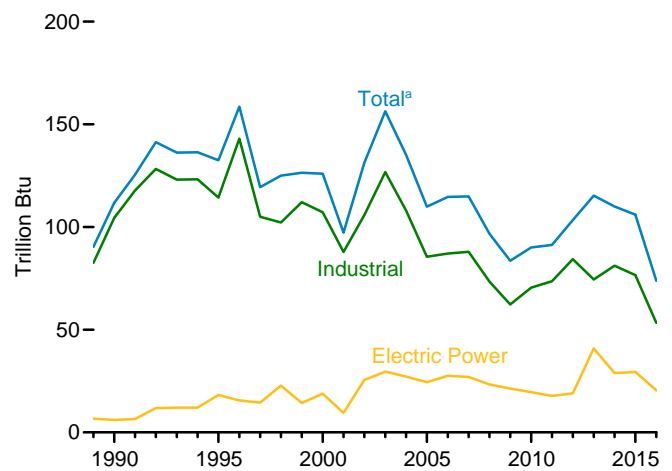
**Petroleum by Sector, 1989–2016**



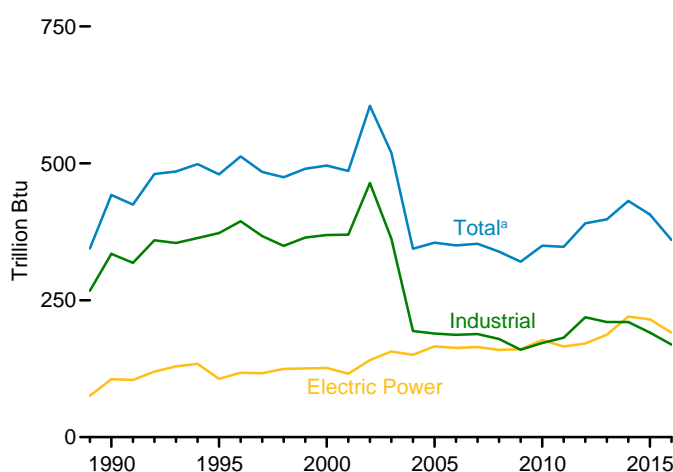
**Natural Gas by Sector, 1989–2016**



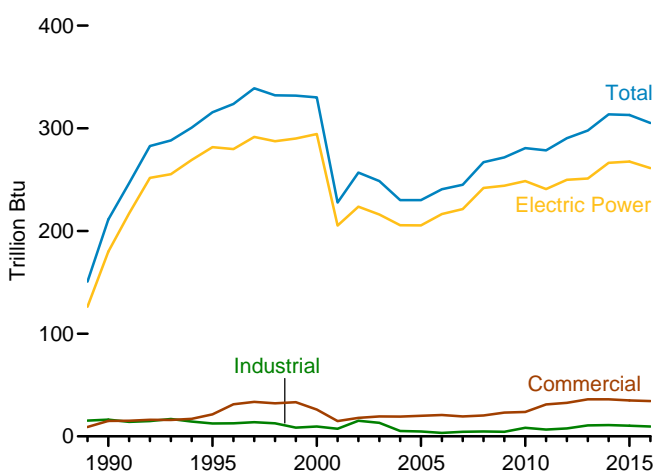
**Other Gases<sup>b</sup> by Sector, 1989–2016**



**Wood by Sector, 1989–2016**



**Waste by Sector, 1989–2016**



<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)

	Coal <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Gases <sup>g</sup>	Biomass		Other <sup>j</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>	
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 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	R 61,983	R 1,258	R 1,049	R 165	R 342	R 4,179	R 786	R 7	R 32	R 25	R 17
February	R 50,516	R 920	R 1,131	R 178	R 330	R 8,877	R 702	R 6	R 31	R 24	R 15
March	R 39,864	R 698	R 678	R 119	R 362	R 3,306	R 758	R 6	R 30	R 25	R 16
April	R 39,065	R 644	R 687	R 90	R 382	R 3,330	R 735	R 6	R 25	R 26	R 16
May	R 45,032	R 808	R 752	R 102	R 370	R 3,514	R 819	R 6	R 27	R 26	R 17
June	R 63,186	R 707	R 864	R 123	R 380	R 3,594	R 986	R 6	R 30	R 25	R 17
July	R 74,132	R 810	R 1,348	R 129	R 400	R 4,289	R 1,158	R 6	R 32	R 26	R 18
August	R 73,798	R 769	R 1,274	R 187	R 419	R 4,325	R 1,168	R 6	R 34	R 26	R 18
September	R 62,335	R 640	R 856	R 124	R 376	R 3,500	R 932	R 6	R 31	R 25	R 17
October	R 54,537	R 636	R 929	R 64	R 250	R 2,879	R 761	R 6	R 28	R 24	R 16
November	R 48,076	R 830	R 734	R 107	R 307	R 3,204	R 679	R 6	R 29	R 26	R 16
December	R 64,847	R 943	R 893	R 159	R 336	R 3,672	R 686	R 6	R 32	R 27	R 17
Total	R 677,371	R 9,662	R 11,195	R 1,548	R 4,253	R 43,671	R 10,170	R 74	R 360	R 305	R 199
2017 January	R 63,391	R 959	R 853	R 166	R 355	R 3,753	R 664	R 6	32	R 26	R 15
February	R 47,879	R 734	R 735	R 100	R 263	R 2,886	R 571	R 7	R 30	R 23	14
March	R 48,699	R 817	R 750	R 107	R 272	3,033	R 739	R 7	33	R 25	15
April	R 44,210	R 679	R 735	R 106	R 153	R 2,283	R 643	R 7	R 29	R 23	15
May	R 50,710	R 800	R 846	R 105	R 320	R 3,351	R 726	R 7	R 30	R 24	R 15
June	R 58,886	R 676	R 914	R 149	R 341	R 3,445	R 873	R 7	R 32	25	16
July	R 69,807	R 691	R 814	R 348	333	R 3,517	R 1,102	R 7	34	25	17
August	R 65,877	R 666	R 931	R 127	R 283	R 3,141	R 1,082	R 7	R 34	R 25	17
September	54,700	760	827	137	261	3,031	883	6	30	24	15
9-Month Total	504,158	6,781	7,405	1,344	2,582	28,441	7,283	61	284	220	137
2016 9-Month Total	509,911	7,253	8,639	1,218	3,361	33,915	8,044	57	271	228	150
2015 9-Month Total	586,768	10,230	11,807	2,047	3,208	40,124	7,617	82	308	231	151

<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.

R=Revised. 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> Thousand Short Tons	Petroleum					Natural Gas <sup>f</sup> Billion Cubic Feet	Other Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
		Distillate Fuel Oil <sup>b</sup> Thousand Barrels	Residual Fuel Oil <sup>c</sup> Thousand Barrels	Other Liquids <sup>d</sup> Thousand Barrels	Petroleum Coke <sup>e</sup> Thousand Short Tons	Total <sup>g</sup> Thousand Barrels			Wood <sup>h</sup>	Waste <sup>j</sup>	
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	13,861	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 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	R 61,714	R 1,232	R 1,032	R 148	R 318	R 4,001	R 738	R 2	R 17	R 22	R 11
February	R 50,255	R 895	R 1,115	R 162	R 310	R 3,722	R 657	R 1	R 17	R 21	R 10
March	R 39,599	R 682	R 665	R 103	R 345	R 3,176	R 711	R 2	R 16	R 21	R 10
April	R 38,852	R 627	R 674	R 74	R 368	R 3,216	R 690	R 2	R 13	R 22	R 10
May	R 44,777	R 790	R 743	R 65	R 348	R 3,336	R 772	R 2	R 13	R 22	R 11
June	R 62,912	R 691	R 855	R 93	R 360	R 3,437	R 937	R 2	R 16	R 22	R 11
July	R 73,840	R 792	R 1,337	R 96	R 380	R 4,124	R 1,104	R 2	R 17	R 22	R 11
August	R 73,508	R 749	R 1,265	R 168	R 398	R 4,172	R 1,114	R 2	R 19	R 23	R 11
September	R 62,072	R 622	R 848	R 99	R 360	R 3,368	R 883	R 2	R 17	R 21	R 10
October	R 54,293	R 617	R 917	R 44	R 232	R 2,738	R 714	R 1	R 14	R 20	R 10
November	R 47,848	R 807	R 723	R 90	R 285	R 3,047	R 632	R 2	R 15	R 22	R 10
December	R 64,570	R 917	R 881	R 142	R 315	R 3,517	R 638	R 2	R 17	R 23	R 11
Total	R 674,239	R 9,421	R 11,056	R 1,284	R 4,018	R 41,853	R 9,590	R 20	R 191	R 261	R 126
2017 January	R 63,115	R 928	R 840	R 145	R 341	R 3,620	R 613	R 2	R 17	R 22	R 10
February	R 47,634	R 714	R 726	R 79	R 250	R 2,768	R 527	R 2	R 16	R 20	R 9
March	R 48,455	R 792	R 738	R 90	R 254	R 2,888	R 692	R 2	R 18	R 22	R 10
April	R 44,003	R 658	R 723	R 92	R 139	R 2,170	R 597	R 2	R 15	R 20	R 9
May	R 50,486	R 775	R 836	R 87	R 302	R 3,207	R 680	R 2	R 17	R 21	R 10
June	R 58,653	R 652	R 904	R 131	R 322	R 3,296	R 825	R 2	R 18	R 21	R 10
July	R 69,561	R 663	R 807	R 331	R 310	R 3,351	R 1,051	R 2	R 19	R 22	R 10
August	R 65,634	R 635	R 923	R 110	R 265	R 2,990	R 1,034	R 2	R 19	R 22	R 11
September	54,465	729	821	121	245	2,897	838	2	16	20	9
9-Month Total	502,005	6,545	7,316	1,186	2,428	27,187	6,856	16	156	191	89
2016 9-Month Total	507,529	7,080	8,534	1,007	3,186	32,552	7,606	16	145	196	94
2015 9-Month Total	583,546	9,904	11,610	1,830	3,007	38,378	7,101	23	164	198	95

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

<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.

R=Revised. 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				
<b>1990 Total</b> .....	417	953	28	15	10,740	13,103	517	104	335	16	36
<b>1995 Total</b> .....	569	649	43	21	12,171	12,265	601	114	373	13	40
<b>2000 Total</b> .....	514	823	37	26	11,706	10,459	640	107	369	10	45
<b>2001 Total</b> .....	532	1,023	36	15	10,636	10,530	654	88	370	7	44
<b>2002 Total</b> .....	477	834	33	18	11,855	11,608	685	106	464	15	43
<b>2003 Total</b> .....	582	894	38	19	10,440	10,424	668	127	362	13	46
<b>2004 Total</b> .....	377	766	33	19	7,687	6,919	566	108	194	5	41
<b>2005 Total</b> .....	377	585	34	20	7,504	6,440	518	85	189	5	46
<b>2006 Total</b> .....	347	333	35	21	7,408	5,066	536	87	187	3	45
<b>2007 Total</b> .....	361	258	34	19	5,089	5,041	554	88	188	4	41
<b>2008 Total</b> .....	369	166	33	20	5,075	3,617	520	73	179	5	39
<b>2009 Total</b> .....	317	190	34	23	4,674	3,328	520	62	160	4	42
<b>2010 Total</b> .....	314	172	39	24	8,125	2,422	555	70	172	8	55
<b>2011 Total</b> .....	347	137	47	31	5,735	2,145	572	74	182	7	57
<b>2012 Total</b> .....	307	279	63	33	4,665	4,761	633	84	219	8	54
<b>2013 Total</b> .....	513	335	67	36	4,670	3,892	642	74	210	11	50
<b>2014 Total</b> .....	202	462	72	36	4,629	2,594	623	81	210	11	54
<b>2015 January</b> .....	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
<b>Total</b> .....	163	260	70	35	3,999	1,907	625	77	191	10	58
<b>2016 January</b> .....	R 12	R 14	R 3	3	R 258	R 164	R 44	R 5	R 14	1	4
February .....	R 13	R 13	R 3	3	R 248	R 142	R 42	R 5	R 14	1	R 4
March .....	R 13	R 6	R 3	3	R 252	R 124	R 44	R 5	R 14	1	4
April .....	R 7	R 8	R 3	3	R 206	R 106	R 42	R 5	R 13	1	4
May .....	R 6	R 8	R 4	3	R 249	R 170	R 43	5	R 14	1	R 5
June .....	R 7	R 7	R 4	3	R 266	R 151	R 45	R 4	R 14	1	R 5
July .....	R 7	11	R 5	3	R 285	R 154	R 48	R 4	R 15	1	R 5
August .....	R 8	R 10	R 5	3	R 282	R 143	R 49	R 4	R 15	1	R 5
September .....	R 8	R 7	R 4	3	R 254	R 125	R 45	R 4	R 14	1	R 5
October .....	R 8	R 7	R 4	3	R 237	R 135	R 43	R 4	R 14	1	4
November .....	R 10	11	R 3	3	R 218	R 146	R 44	R 4	R 14	1	4
December .....	R 12	R 13	R 4	3	R 266	R 142	R 45	R 4	R 15	1	4
<b>Total</b> .....	R 111	R 116	R 46	R 34	R 3,021	R 1,701	R 534	R 53	R 169	10	R 53
<b>2017 January</b> .....	R 12	R 22	R 4	3	R 265	R 111	R 47	R 5	R 14	1	R 3
February .....	R 10	R 14	R 3	3	R 235	R 104	R 41	R 5	R 14	1	3
March .....	R 9	R 17	R 4	3	R 235	R 128	R 43	R 5	R 14	1	4
April .....	R 5	R 11	R 3	3	R 202	R 102	R 43	R 5	R 14	1	4
May .....	R 6	R 17	R 3	3	R 219	R 128	R 43	R 5	R 14	1	4
June .....	R 7	15	R 4	3	R 226	R 134	R 44	R 5	R 14	1	4
July .....	R 8	18	R 4	3	R 237	R 148	R 47	R 5	R 15	1	R 4
August .....	R 8	R 22	R 4	3	R 235	R 129	R 45	R 5	R 15	1	R 4
September .....	8	17	4	3	227	118	41	4	13	1	4
<b>9-Month Total</b> .....	73	151	34	24	2,081	1,102	393	45	127	6	34
<b>2016 9-Month Total</b> .....	81	85	36	26	2,300	1,278	402	41	126	7	40
<b>2015 9-Month Total</b> .....	126	235	53	26	3,095	1,511	463	59	143	7	43

<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).

R=Revised.

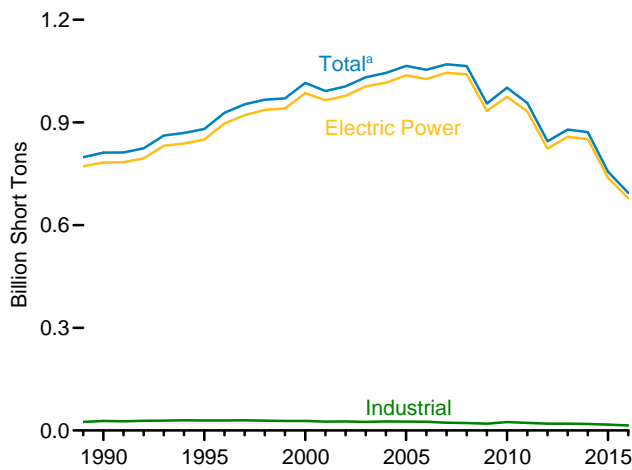
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • 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.

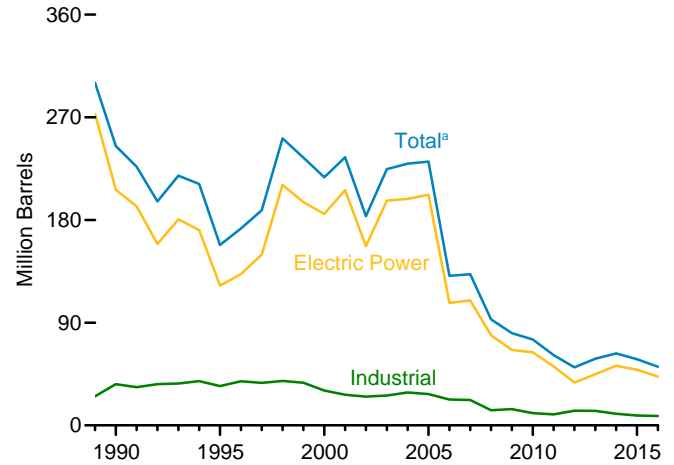
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

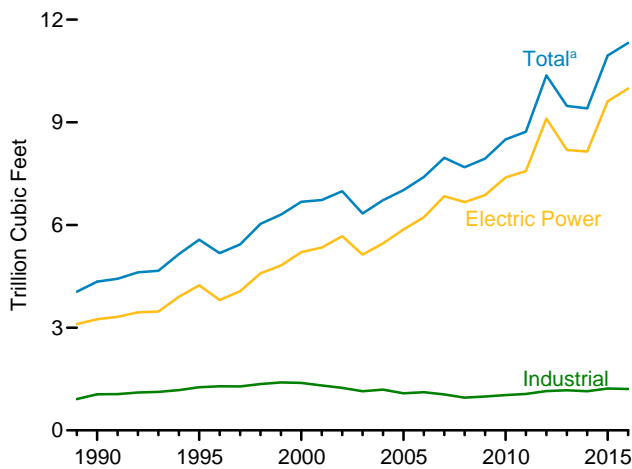
**Coal by Sector, 1989–2016**



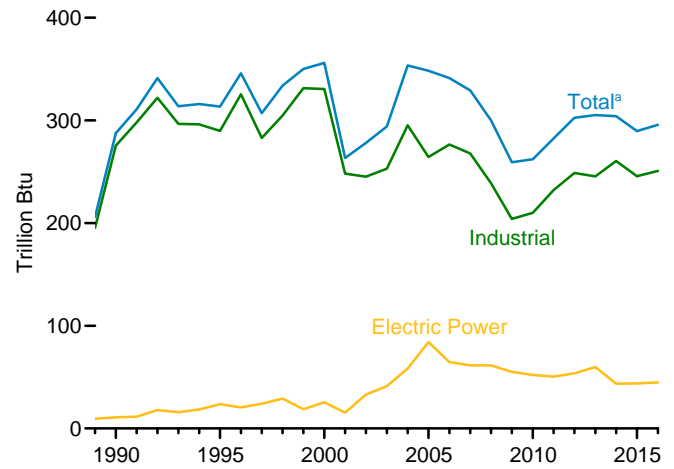
**Petroleum by Sector, 1989–2016**



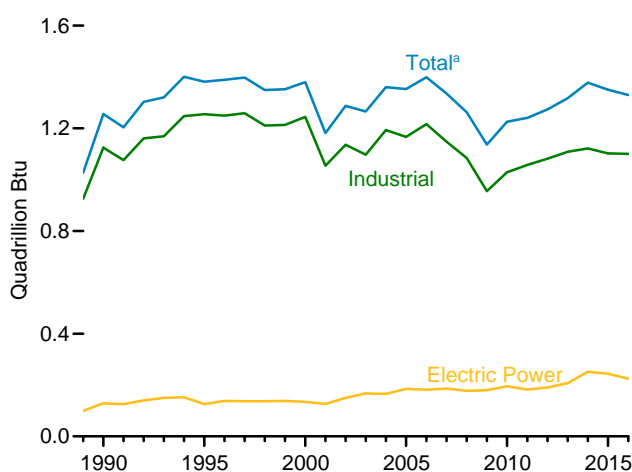
**Natural Gas by Sector, 1989–2016**



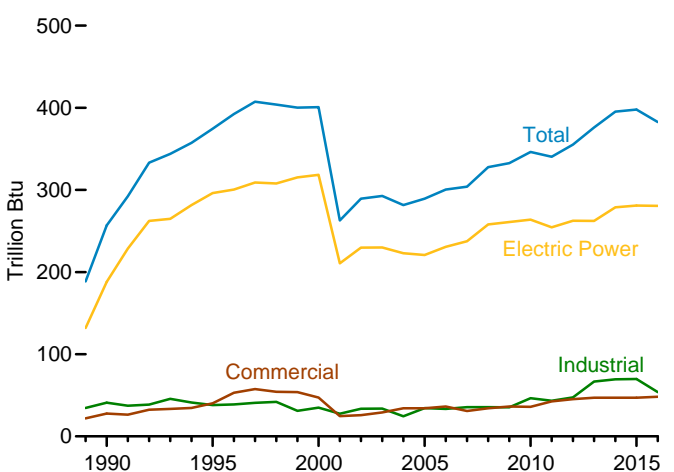
**Other Gases<sup>b</sup> by Sector, 1989–2016**



**Wood by Sector, 1989–2016**



**Waste by Sector, 1989–2016**



<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)

	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>e</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>	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 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	R 63,607	R 1,303	R 1,185	R 215	R 427	R 4,840	R 888	25	R 116	R 32	R 20
February	R 52,019	R 1,045	R 1,263	R 238	R 425	R 4,669	R 794	23	R 110	R 31	R 18
March	R 41,297	R 736	R 762	R 175	R 447	R 3,910	R 854	R 26	R 110	R 33	R 19
April	R 40,280	R 681	R 783	R 131	R 455	R 3,871	R 823	25	100	R 33	R 20
May	R 46,297	R 876	R 818	R 166	R 466	R 4,190	R 912	R 25	105	33	R 20
June	R 64,539	R 768	R 928	R 179	R 480	R 4,274	R 1,082	25	109	R 30	R 20
July	R 75,604	R 860	R 1,426	R 186	R 502	R 4,981	R 1,260	25	R 113	R 31	R 21
August	R 75,232	R 803	R 1,350	R 230	R 520	R 4,983	R 1,273	R 25	R 115	R 32	R 22
September	R 63,592	R 674	R 915	R 174	R 451	R 4,016	R 1,027	R 24	R 106	R 29	R 20
October	R 55,798	R 674	R 1,017	R 112	R 342	R 3,514	R 853	R 23	R 104	R 31	R 19
November	R 49,331	R 877	R 808	R 153	R 406	R 3,867	R 769	R 24	R 110	33	R 19
December	R 66,362	R 982	R 977	R 214	R 431	R 4,327	R 785	R 26	R 132	R 34	R 20
Total	R 693,958	R 10,238	R 12,231	R 2,173	R 5,352	R 51,441	R 11,322	R 296	R 1,330	R 383	R 238
2017 January	R 64,894	R 1,009	R 949	R 226	R 429	R 4,328	R 766	R 26	R 117	R 34	19
February	R 49,106	R 762	R 799	R 144	R 326	R 3,336	663	25	R 109	R 30	17
March	R 50,055	R 849	R 819	R 143	R 356	R 2,593	R 837	R 27	R 114	R 32	18
April	R 45,426	R 705	R 805	R 146	R 224	R 2,774	R 733	24	R 107	R 29	R 17
May	R 51,931	R 839	R 920	R 152	R 397	R 3,893	R 817	26	R 109	R 29	18
June	R 60,094	R 704	R 994	R 189	R 433	R 4,051	R 967	R 26	R 113	29	R 18
July	R 71,029	R 719	R 871	R 389	R 412	R 4,038	R 1,201	27	R 118	30	R 19
August	R 67,121	R 697	R 998	R 167	R 368	R 3,703	R 1,180	27	R 120	R 30	20
September	55,852	789	885	170	335	3,522	977	25	107	27	17
9-Month Total	515,509	7,072	8,041	1,727	3,280	33,239	8,140	233	1,014	270	163
2016 9-Month Total	522,467	7,745	9,430	1,693	4,173	39,733	8,915	224	984	284	180
2015 9-Month Total	599,471	10,639	13,405	2,544	4,077	46,972	8,314	223	1,018	292	176

<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.

R=Revised. 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	
<b>1950 Total</b> .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
<b>1955 Total</b> .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
<b>1960 Total</b> .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
<b>1965 Total</b> .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
<b>1970 Total</b> .....	320,182	24,123	311,381	NA	NA	636	338,686	3,932	1	2	NA
<b>1975 Total</b> .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
<b>1980 Total</b> .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
<b>1985 Total</b> .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
<b>1990 Total</b> <sup>k</sup> .....	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
<b>1995 Total</b> .....	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
<b>2000 Total</b> .....	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
<b>2001 Total</b> .....	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
<b>2002 Total</b> .....	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
<b>2003 Total</b> .....	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	140
<b>2004 Total</b> .....	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	58	165	223	138
<b>2005 Total</b> .....	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
<b>2006 Total</b> .....	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
<b>2007 Total</b> .....	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
<b>2008 Total</b> .....	1,040,580	12,547	38,241	2,670	5,119	79,056	6,668	61	177	258	131
<b>2009 Total</b> .....	933,627	12,035	28,782	2,210	4,611	66,081	6,873	55	180	261	124
<b>2010 Total</b> .....	975,052	13,790	24,503	1,877	4,777	64,055	7,387	52	196	264	124
<b>2011 Total</b> .....	932,484	11,021	14,803	1,658	4,837	51,667	7,574	50	182	255	143
<b>2012 Total</b> .....	823,551	9,080	12,203	1,339	2,974	37,495	9,111	54	190	262	143
<b>2013 Total</b> .....	857,962	9,598	12,283	1,489	4,285	44,794	8,191	60	207	262	139
<b>2014 Total</b> .....	851,602	14,235	15,132	2,208	4,132	52,235	8,146	44	251	279	137
<b>2015 January</b> .....	71,323	1,272	1,754	276	379	5,198	711	4	22	23	11
<b>February</b> .....	67,061	3,683	4,182	748	397	10,599	648	4	21	20	10
<b>March</b> .....	58,272	831	857	117	264	3,126	709	3	21	22	11
<b>April</b> .....	48,449	619	819	97	281	2,941	664	3	18	22	11
<b>May</b> .....	57,060	821	777	111	330	3,360	734	4	18	23	11
<b>June</b> .....	68,867	766	883	106	298	3,248	886	3	21	23	12
<b>July</b> .....	76,452	727	1,167	142	402	4,044	1,046	3	22	26	12
<b>August</b> .....	73,678	685	1,033	113	378	3,723	1,027	4	23	25	12
<b>September</b> .....	64,682	626	910	162	363	3,516	895	4	20	23	11
<b>October</b> .....	53,557	618	845	124	292	3,049	792	3	17	24	11
<b>November</b> .....	48,879	790	911	57	252	3,020	732	4	19	25	11
<b>December</b> .....	50,165	753	792	77	268	2,964	769	4	21	25	12
<b>Total</b> .....	<b>738,444</b>	<b>12,193</b>	<b>14,929</b>	<b>2,131</b>	<b>3,907</b>	<b>48,787</b>	<b>9,613</b>	<b>44</b>	<b>244</b>	<b>281</b>	<b>136</b>
<b>2016 January</b> .....	R 62,135	R 1,240	R 1,058	R 149	329	R 4,093	R 774	4	21	R 23	12
<b>February</b> .....	R 50,661	R 910	R 1,143	R 176	321	R 3,832	R 690	3	R 20	R 22	11
<b>March</b> .....	R 39,948	R 691	R 680	R 111	357	R 3,265	R 745	4	R 19	R 24	11
<b>April</b> .....	R 39,159	R 631	R 688	R 75	376	R 3,272	R 719	3	15	R 24	R 11
<b>May</b> .....	R 45,082	R 796	R 757	R 65	354	R 3,391	R 804	3	16	R 24	12
<b>June</b> .....	R 45,082	R 697	R 866	R 94	368	R 3,499	R 970	4	R 18	R 23	12
<b>July</b> .....	R 63,250	R 797	R 1,345	R 97	389	R 4,186	R 1,140	4	20	R 24	12
<b>August</b> .....	R 73,890	R 754	R 1,277	R 169	408	R 4,241	R 1,151	4	21	R 24	12
<b>September</b> .....	R 62,385	R 627	R 859	R 100	370	R 3,436	R 915	4	R 19	R 22	11
<b>October</b> .....	R 54,621	R 623	R 932	R 45	244	R 2,818	R 744	3	R 16	R 22	11
<b>November</b> .....	R 48,179	R 813	R 735	R 92	295	R 3,116	R 662	4	R 18	R 24	11
<b>December</b> .....	R 65,006	R 930	R 901	R 151	326	R 3,614	R 671	4	R 21	R 25	12
<b>Total</b> .....	<b>R 678,554</b>	<b>R 9,510</b>	<b>R 11,242</b>	<b>R 1,322</b>	<b>R 4,138</b>	<b>R 42,763</b>	<b>R 9,985</b>	<b>R 45</b>	<b>R 224</b>	<b>R 281</b>	<b>R 139</b>
<b>2017 January</b> .....	R 63,542	R 939	R 864	R 160	R 351	R 3,719	R 648	4	R 21	R 24	R 11
<b>February</b> .....	R 47,965	R 719	R 741	R 84	R 260	R 2,844	R 556	4	R 19	R 22	10
<b>March</b> .....	R 48,825	R 798	R 745	R 91	R 265	R 2,957	R 724	4	R 22	R 24	11
<b>April</b> .....	R 44,318	R 662	R 731	R 93	R 150	R 2,234	R 626	4	18	R 21	10
<b>May</b> .....	R 50,793	R 782	R 846	R 88	R 313	R 3,280	R 709	4	R 20	R 22	11
<b>June</b> .....	R 58,954	R 658	R 914	R 134	R 332	R 3,368	R 856	4	R 21	R 23	11
<b>July</b> .....	R 69,929	R 668	R 818	R 332	R 321	R 3,422	R 1,084	4	R 22	R 23	12
<b>August</b> .....	R 66,008	R 640	R 932	R 111	R 276	R 3,063	R 1,067	4	R 22	R 23	12
<b>September</b> .....	54,775	735	831	122	256	2,966	869	4	19	21	10
<b>9-Month Total</b> .....	<b>505,109</b>	<b>6,603</b>	<b>7,423</b>	<b>1,215</b>	<b>2,522</b>	<b>27,853</b>	<b>7,139</b>	<b>35</b>	<b>184</b>	<b>204</b>	<b>98</b>
<b>2016 9-Month Total</b> .....	<b>510,747</b>	<b>7,144</b>	<b>8,674</b>	<b>1,034</b>	<b>3,273</b>	<b>33,215</b>	<b>7,909</b>	<b>34</b>	<b>170</b>	<b>210</b>	<b>105</b>
<b>2015 9-Month Total</b> .....	<b>585,843</b>	<b>10,031</b>	<b>12,381</b>	<b>1,873</b>	<b>3,094</b>	<b>39,754</b>	<b>7,321</b>	<b>33</b>	<b>186</b>	<b>207</b>	<b>101</b>

<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.  
R=Revised. 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				
<b>1990 Total</b> .....	<b>1,191</b>	<b>2,056</b>	<b>46</b>	<b>28</b>	<b>27,781</b>	<b>36,159</b>	<b>1,055</b>	<b>275</b>	<b>1,125</b>	<b>41</b>	<b>86</b>
<b>1995 Total</b> .....	<b>1,419</b>	<b>1,245</b>	<b>78</b>	<b>40</b>	<b>29,363</b>	<b>34,448</b>	<b>1,258</b>	<b>290</b>	<b>1,255</b>	<b>38</b>	<b>95</b>
<b>2000 Total</b> .....	<b>1,547</b>	<b>1,615</b>	<b>85</b>	<b>47</b>	<b>28,031</b>	<b>30,520</b>	<b>1,386</b>	<b>331</b>	<b>1,244</b>	<b>35</b>	<b>108</b>
<b>2001 Total</b> .....	<b>1,448</b>	<b>1,832</b>	<b>79</b>	<b>25</b>	<b>25,755</b>	<b>26,817</b>	<b>1,310</b>	<b>248</b>	<b>1,054</b>	<b>27</b>	<b>101</b>
<b>2002 Total</b> .....	<b>1,405</b>	<b>1,250</b>	<b>74</b>	<b>26</b>	<b>26,232</b>	<b>25,163</b>	<b>1,240</b>	<b>245</b>	<b>1,136</b>	<b>34</b>	<b>92</b>
<b>2003 Total</b> .....	<b>1,816</b>	<b>1,449</b>	<b>58</b>	<b>29</b>	<b>24,846</b>	<b>26,212</b>	<b>1,144</b>	<b>253</b>	<b>1,097</b>	<b>34</b>	<b>103</b>
<b>2004 Total</b> .....	<b>1,917</b>	<b>2,009</b>	<b>72</b>	<b>34</b>	<b>26,613</b>	<b>28,857</b>	<b>1,191</b>	<b>295</b>	<b>1,193</b>	<b>24</b>	<b>94</b>
<b>2005 Total</b> .....	<b>1,922</b>	<b>1,630</b>	<b>68</b>	<b>34</b>	<b>25,875</b>	<b>27,380</b>	<b>1,084</b>	<b>264</b>	<b>1,166</b>	<b>34</b>	<b>94</b>
<b>2006 Total</b> .....	<b>1,886</b>	<b>935</b>	<b>68</b>	<b>36</b>	<b>25,262</b>	<b>22,706</b>	<b>1,115</b>	<b>277</b>	<b>1,216</b>	<b>33</b>	<b>102</b>
<b>2007 Total</b> .....	<b>1,927</b>	<b>752</b>	<b>70</b>	<b>31</b>	<b>22,537</b>	<b>22,207</b>	<b>1,050</b>	<b>268</b>	<b>1,148</b>	<b>36</b>	<b>98</b>
<b>2008 Total</b> .....	<b>2,021</b>	<b>671</b>	<b>66</b>	<b>34</b>	<b>21,902</b>	<b>13,222</b>	<b>955</b>	<b>239</b>	<b>1,084</b>	<b>35</b>	<b>60</b>
<b>2009 Total</b> .....	<b>1,798</b>	<b>521</b>	<b>76</b>	<b>36</b>	<b>19,766</b>	<b>14,228</b>	<b>990</b>	<b>204</b>	<b>955</b>	<b>35</b>	<b>82</b>
<b>2010 Total</b> .....	<b>1,720</b>	<b>437</b>	<b>86</b>	<b>36</b>	<b>24,638</b>	<b>10,740</b>	<b>1,029</b>	<b>210</b>	<b>1,029</b>	<b>47</b>	<b>91</b>
<b>2011 Total</b> .....	<b>1,668</b>	<b>333</b>	<b>87</b>	<b>43</b>	<b>22,319</b>	<b>9,610</b>	<b>1,063</b>	<b>232</b>	<b>1,057</b>	<b>43</b>	<b>94</b>
<b>2012 Total</b> .....	<b>1,450</b>	<b>457</b>	<b>111</b>	<b>45</b>	<b>20,065</b>	<b>12,853</b>	<b>1,149</b>	<b>249</b>	<b>1,082</b>	<b>47</b>	<b>81</b>
<b>2013 Total</b> .....	<b>1,356</b>	<b>887</b>	<b>118</b>	<b>47</b>	<b>19,761</b>	<b>12,697</b>	<b>1,170</b>	<b>246</b>	<b>1,109</b>	<b>67</b>	<b>69</b>
<b>2014 Total</b> .....	<b>1,063</b>	<b>758</b>	<b>119</b>	<b>47</b>	<b>19,076</b>	<b>10,112</b>	<b>1,145</b>	<b>260</b>	<b>1,122</b>	<b>70</b>	<b>72</b>
<b>2015 January</b> .....	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
<b>Total</b> .....	<b>798</b>	<b>622</b>	<b>116</b>	<b>47</b>	<b>16,984</b>	<b>8,600</b>	<b>1,222</b>	<b>246</b>	<b>1,103</b>	<b>70</b>	<b>73</b>
<b>2016 January</b> .....	R 75	R 68	R 11	4	R 1,397	R 679	R 103	R 22	95	5	R 6
February .....	R 75	R 49	R 10	4	R 1,282	R 788	R 95	R 20	R 89	5	R 5
March .....	R 74	R 21	10	R 4	R 1,275	R 624	R 99	R 22	R 90	6	5
April .....	R 46	R 26	9	4	R 1,076	R 573	R 95	22	85	R 5	R 6
May .....	R 37	R 22	R 10	4	R 1,178	R 776	R 98	R 22	89	5	R 6
June .....	46	R 21	R 11	4	R 1,243	R 754	R 101	21	R 91	R 3	R 6
July .....	46	R 45	R 13	4	R 1,321	R 749	R 107	21	92	R 3	R 6
August .....	R 49	R 28	R 14	4	R 1,292	R 714	R 108	R 21	R 93	R 4	R 7
September .....	R 50	R 16	R 11	4	R 1,157	R 564	R 101	R 20	86	R 3	R 6
October .....	50	R 16	R 10	4	R 1,126	R 680	R 99	R 20	R 88	R 5	R 6
November .....	R 60	R 47	9	4	R 1,093	R 704	R 99	R 20	R 91	5	R 6
December .....	R 75	R 46	10	4	R 1,280	R 667	R 104	R 22	R 111	R 5	R 5
<b>Total</b> .....	<b>R 683</b>	<b>R 404</b>	<b>R 127</b>	<b>R 48</b>	<b>R 14,720</b>	<b>R 8,273</b>	<b>R 1,209</b>	<b>R 251</b>	<b>R 1,100</b>	<b>R 54</b>	<b>R 70</b>
<b>2017 January</b> .....	R 66	71	11	4	R 1,285	R 537	R 106	R 22	R 96	R 5	5
February .....	R 54	R 48	10	4	R 1,087	R 444	R 97	21	R 89	R 5	R 4
March .....	R 58	56	10	4	R 1,172	R 581	R 103	23	92	R 5	5
April .....	R 40	29	9	4	R 1,068	R 511	R 98	20	R 88	R 4	5
May .....	R 40	R 40	9	4	R 1,098	R 574	R 99	22	R 89	R 3	5
June .....	R 46	R 32	10	4	R 1,094	R 651	R 100	R 22	R 91	R 2	5
July .....	R 53	36	R 11	4	R 1,047	R 580	R 107	23	R 96	R 2	6
August .....	R 49	51	R 11	4	R 1,065	R 589	R 103	23	R 98	R 3	6
September .....	47	41	10	3	1,030	514	98	21	87	2	5
<b>9-Month Total</b> .....	<b>453</b>	<b>405</b>	<b>90</b>	<b>34</b>	<b>9,947</b>	<b>4,981</b>	<b>911</b>	<b>197</b>	<b>826</b>	<b>32</b>	<b>44</b>
<b>2016 9-Month Total</b> .....	<b>498</b>	<b>296</b>	<b>98</b>	<b>36</b>	<b>11,221</b>	<b>6,222</b>	<b>908</b>	<b>190</b>	<b>810</b>	<b>38</b>	<b>53</b>
<b>2015 9-Month Total</b> .....	<b>615</b>	<b>559</b>	<b>88</b>	<b>35</b>	<b>13,013</b>	<b>6,659</b>	<b>906</b>	<b>190</b>	<b>829</b>	<b>50</b>	<b>54</b>

<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).

R=Revised.

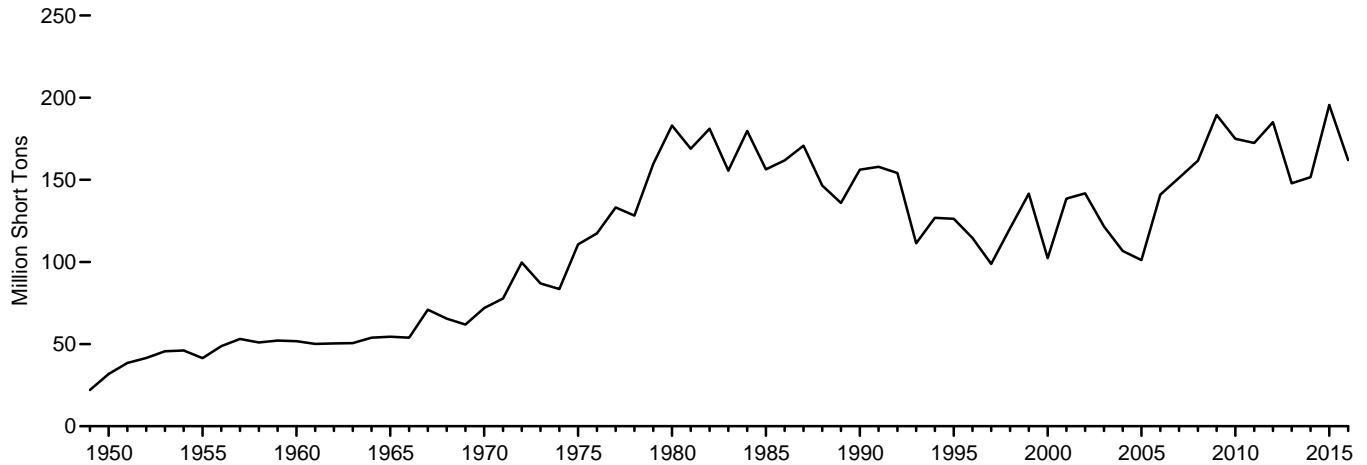
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

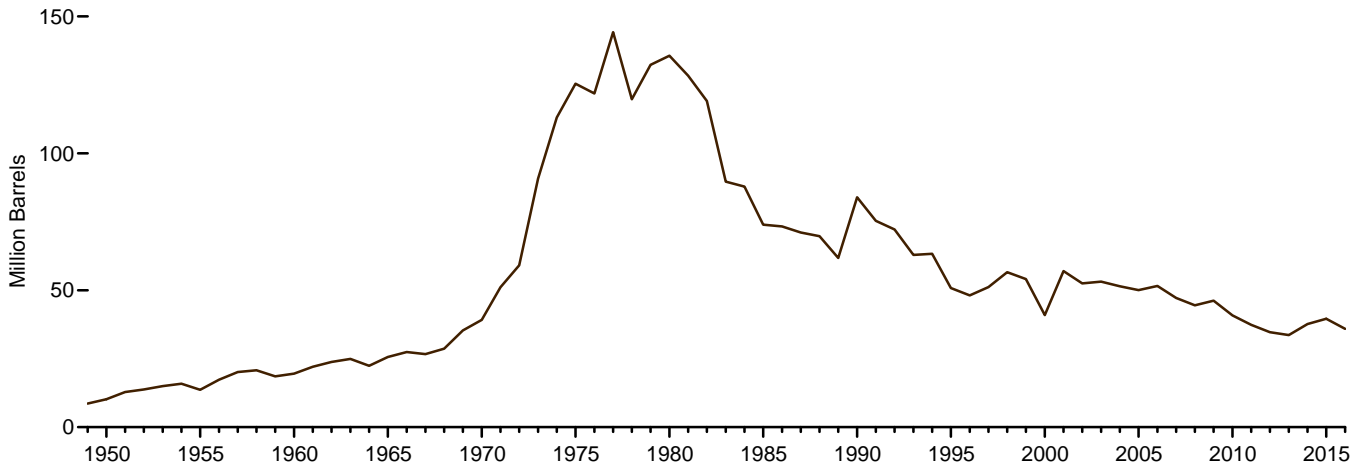
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

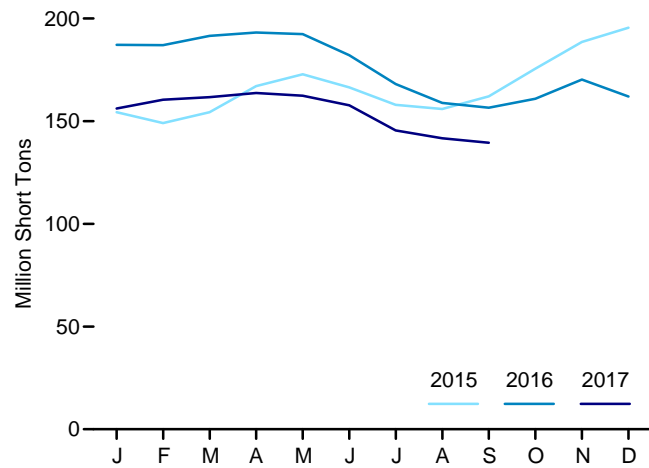
**Coal, 1949–2016**



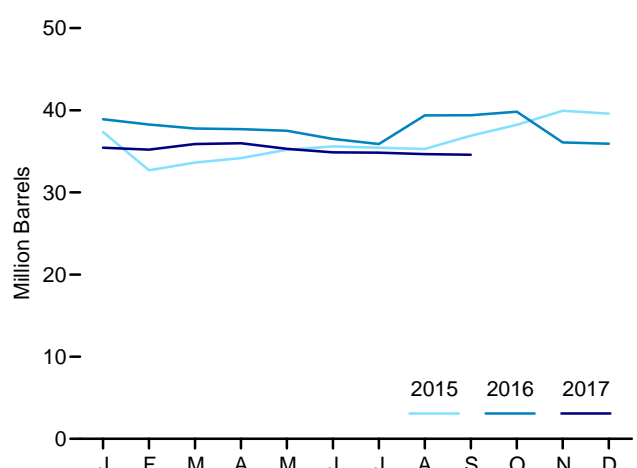
**Total Petroleum, 1949–2016**



**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				
	Thousand Short Tons		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 Barrels			Thousand Short Tons	Thousand Barrels
1950 Year	31,842	NA	NA	NA	NA	NA	10,201
1955 Year	41,391	NA	NA	NA	NA	NA	13,671
1960 Year	51,735	NA	NA	NA	NA	NA	19,572
1965 Year	54,525	NA	NA	NA	NA	NA	25,647
1970 Year	71,908	NA	NA	NA	NA	239	39,151
1975 Year	110,724	16,432	108,825	NA	NA	31	125,413
1980 Year	183,010	30,023	105,351	NA	NA	52	135,635
1985 Year	156,376	16,386	57,304	NA	NA	49	73,933
1990 Year	156,166	16,471	67,030	NA	NA	94	83,970
1995 Year	126,304	15,392	35,102	NA	NA	65	50,821
2000 Year <sup>g</sup>	102,296	15,127	24,748	NA	NA	211	40,932
2001 Year	138,496	20,486	34,594	NA	NA	390	57,031
2002 Year	141,714	17,413	25,723	800	1,711	52,490	52,490
2003 Year	121,567	19,153	25,820	779	1,484	53,170	53,170
2004 Year	106,669	19,275	26,596	879	937	51,434	51,434
2005 Year	101,137	18,778	27,624	1,012	530	50,062	50,062
2006 Year	140,964	18,013	28,823	1,380	674	51,583	51,583
2007 Year	151,221	18,395	24,136	1,902	554	47,203	47,203
2008 Year	161,589	17,761	21,088	1,955	739	44,498	44,498
2009 Year	189,467	17,886	19,068	2,257	1,394	46,181	46,181
2010 Year	174,917	16,758	16,629	2,319	1,019	40,800	40,800
2011 Year	172,387	16,649	15,491	2,707	508	37,387	37,387
2012 Year	185,116	16,433	12,999	2,792	495	34,698	34,698
2013 Year	147,884	16,068	12,926	2,679	390	33,622	33,622
2014 Year	151,548	18,309	12,764	2,432	827	37,643	37,643
2015 January	154,390	18,216	12,207	2,473	892	37,355	37,355
February	149,071	16,459	9,798	2,188	850	32,697	32,697
March	154,347	16,996	10,251	2,289	818	33,626	33,626
April	167,063	17,167	10,152	2,294	912	34,173	34,173
May	172,809	17,357	10,518	2,309	999	35,180	35,180
June	166,437	17,513	10,570	2,358	1,031	35,598	35,598
July	157,938	17,519	10,263	2,337	1,064	35,442	35,442
August	155,952	17,712	10,087	2,345	1,029	35,286	35,286
September	162,109	18,286	10,766	2,339	1,102	36,898	36,898
October	175,588	18,596	11,492	2,375	1,151	38,217	38,217
November	188,595	18,738	12,310	2,440	1,290	39,937	39,937
December	195,548	17,955	12,566	2,363	1,340	39,586	39,586
2016 January	R 187,203	R 17,930	R 12,020	R 2,357	1,320	R 38,907	R 38,907
February	R 187,064	R 17,662	R 11,645	R 2,337	1,323	R 38,262	R 38,262
March	R 191,553	R 17,501	R 11,733	R 2,335	1,240	R 37,768	R 37,768
April	R 193,185	R 17,637	R 11,982	R 2,169	1,181	R 37,693	R 37,693
May	R 192,417	R 17,856	R 12,094	R 2,189	1,071	R 37,495	R 37,495
June	R 182,086	R 17,859	R 11,936	R 2,197	905	R 36,519	R 36,519
July	R 168,119	R 17,726	R 11,696	R 2,183	858	R 35,897	R 35,897
August	R 158,908	R 21,736	R 11,595	R 2,150	780	R 39,381	R 39,381
September	R 156,567	R 21,770	R 11,640	R 2,145	768	R 39,394	R 39,394
October	R 160,932	R 21,940	R 11,630	R 2,184	R 813	R 39,817	R 39,817
November	R 170,277	R 17,819	R 11,939	R 2,162	833	R 36,085	R 36,085
December	R 162,009	R 17,750	R 11,786	R 2,165	R 845	R 35,926	R 35,926
2017 January	R 156,175	R 17,496	R 11,847	2,125	R 794	R 35,440	R 35,440
February	R 160,447	R 17,287	R 11,710	R 2,097	R 821	R 35,201	R 35,201
March	R 161,691	R 17,006	R 12,542	R 2,075	R 855	R 35,897	R 35,897
April	R 163,726	R 16,948	R 12,306	R 2,071	R 933	R 35,991	R 35,991
May	R 162,396	R 16,828	R 12,036	R 2,027	R 881	R 35,297	R 35,297
June	R 157,717	R 16,642	R 11,888	R 2,015	R 867	R 34,882	R 34,882
July	R 145,518	R 16,802	R 11,689	R 1,974	R 875	R 34,838	R 34,838
August	R 141,672	R 16,642	R 11,499	R 1,928	R 918	R 34,656	R 34,656
September	139,531	16,352	11,377	1,914	987	34,580	34,580

<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.

R=Revised. 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

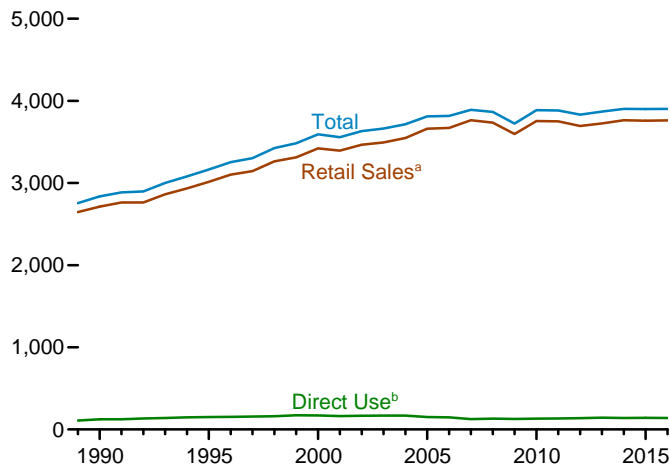
primary business is to sell electricity, or electricity and heat, to the public. • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

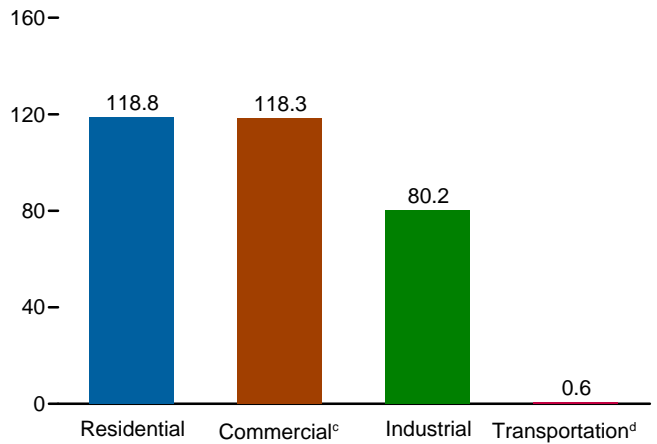
Sources: • 1949–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 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)

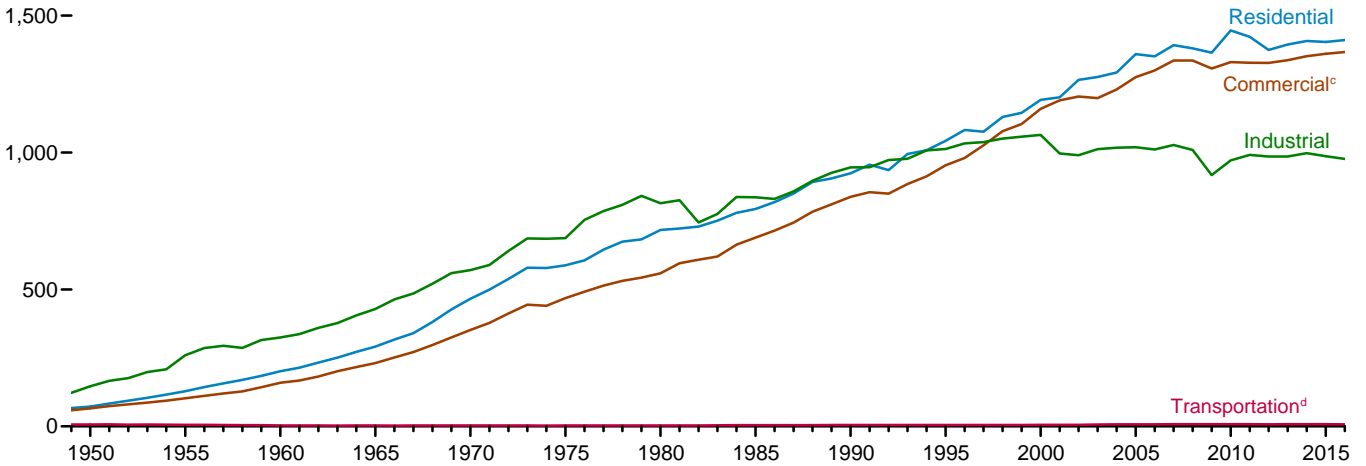
Electricity End Use Overview, 1989–2016



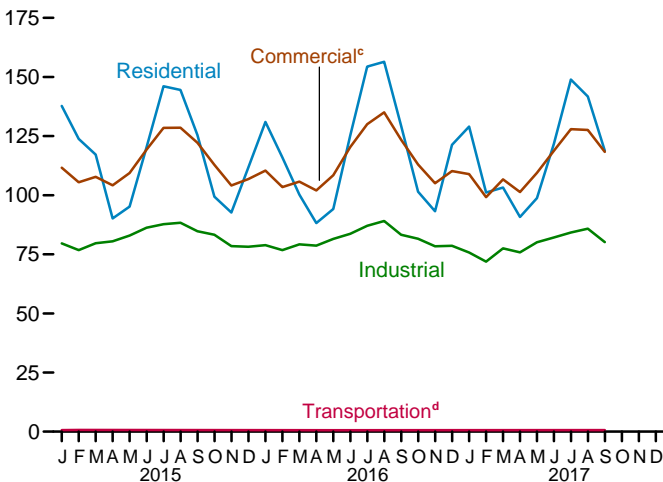
Retail Sales<sup>a</sup> by Sector, September 2017



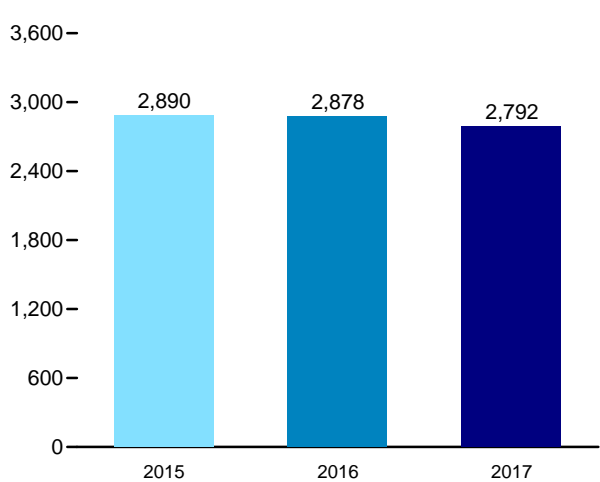
Retail Sales<sup>a</sup> by Sector, 1949–2016



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



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



<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 Total	1,407,208	1,352,158	997,576	7,758	3,764,700	138,574	3,903,274
<b>2015</b>							
January	137,765	111,620	79,609	673	329,666	E 12,214	341,881
February	123,838	105,482	76,749	699	306,768	E 10,703	317,472
March	117,167	107,796	79,709	679	305,352	E 11,103	316,455
April	90,199	104,168	80,489	620	275,475	E 10,644	286,119
May	95,161	109,406	82,916	609	288,091	E 11,178	299,268
June	120,300	119,270	86,218	609	326,397	E 11,897	338,294
July	146,038	128,504	87,747	648	362,938	E 12,956	375,894
August	144,515	128,519	88,373	625	362,032	E 12,716	374,748
September	125,417	122,195	84,730	615	332,958	E 12,042	345,000
October	99,349	112,821	83,249	636	296,055	E 11,542	307,598
November	92,678	104,140	78,495	604	275,917	E 11,684	287,600
December	111,670	106,829	78,224	619	297,344	E 12,488	309,831
<b>Total</b>	<b>1,404,096</b>	<b>1,360,752</b>	<b>986,508</b>	<b>7,637</b>	<b>3,758,992</b>	<b>141,168</b>	<b>3,900,160</b>
<b>2016</b>							
January	R 130,972	R 110,410	R 78,848	660	R 320,890	RE 11,919	R 332,809
February	R 115,959	R 103,452	R 76,748	R 646	R 296,806	RE 11,077	R 307,883
March	R 100,227	R 105,739	R 79,237	R 609	R 285,812	RE 11,574	R 297,387
April	R 88,244	R 102,045	R 78,647	595	R 269,531	RE 10,885	R 280,416
May	R 94,198	R 108,437	R 81,491	R 581	R 284,708	RE 11,378	R 296,086
June	R 125,211	R 120,363	R 83,672	R 631	R 329,878	RE 11,758	R 341,636
July	R 154,409	R 130,038	R 87,076	648	R 372,172	RE 12,566	R 384,738
August	R 156,442	R 135,019	R 89,101	R 631	R 381,192	RE 12,672	R 393,864
September	R 129,363	R 123,493	R 83,259	637	R 336,752	RE 11,660	R 348,412
October	R 101,508	R 112,963	R 81,597	613	R 296,681	RE 11,349	R 308,029
November	R 93,244	R 105,060	R 78,421	592	R 277,317	RE 11,267	R 288,584
December	R 121,281	R 110,172	R 78,616	R 653	R 310,722	RE 11,725	R 322,447
<b>Total</b>	<b>R 1,411,058</b>	<b>R 1,367,191</b>	<b>R 976,715</b>	<b>R 7,497</b>	<b>R 3,762,462</b>	<b>R 139,830</b>	<b>R 3,902,292</b>
<b>2017</b>							
January	R 128,998	R 108,928	R 75,783	666	R 314,375	RE 11,936	R 326,312
February	R 101,149	R 99,207	R 71,933	636	R 272,925	RE 10,857	R 283,783
March	R 103,205	R 106,683	R 77,550	644	R 288,082	RE 11,530	R 299,612
April	R 90,781	R 101,372	R 75,851	590	R 268,593	RE 11,032	R 279,625
May	98,757	R 109,456	R 80,072	583	R 288,868	RE 11,206	R 300,073
June	R 121,782	R 118,815	R 82,147	R 629	R 323,373	RE 11,625	R 334,997
July	R 148,890	R 127,902	R 84,213	630	R 361,635	RE 12,370	R 374,005
August	141,745	R 127,573	R 85,814	641	R 355,773	RE 12,089	R 367,861
September	118,803	118,293	80,163	619	317,879	E 10,895	328,774
<b>9-Month Total</b>	<b>1,054,110</b>	<b>1,018,230</b>	<b>713,525</b>	<b>5,638</b>	<b>2,791,503</b>	<b>E 103,540</b>	<b>2,895,043</b>
<b>2016 9-Month Total</b>	<b>1,095,025</b>	<b>1,038,997</b>	<b>738,080</b>	<b>5,640</b>	<b>2,877,742</b>	<b>E 105,490</b>	<b>2,983,231</b>
<b>2015 9-Month Total</b>	<b>1,100,399</b>	<b>1,036,960</b>	<b>746,540</b>	<b>5,777</b>	<b>2,889,677</b>	<b>E 105,454</b>	<b>2,995,131</b>

<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).

**Note 3. Electricity Forecast Values.** Data values preceded by “F” in this section are forecast values. They are derived from EIA’s Short-Term Integrated Forecasting System (STIFS). STIFS is driven primarily by data and assumptions about key macroeconomic variables, energy prices, and weather. The electricity forecast relies on additional variables such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear, renewables, and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the electricity industry.

The STIFS model results are published monthly in EIA’s Short-Term Energy Outlook, which is accessible on the Web at <http://www.eia.gov/forecasts/steo/>.

## 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 2011–2016: National Energy Board of Canada; California Independent System Operator; and EIA estimates for Texas transfers.

2017: EIA, Form EIA-111, “Quarterly Electricity Imports and Exports Report” as of December 1, 2017.

### 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” as of December 1, 2017.

### 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” as of December 1, 2017.

### 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” as of December 1, 2017.

### 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” as of December 1, 2017.

### 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)*, November 2017, 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, November 2017, 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, November 2017, 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.”

2001–2016: EIA, *Electric Power Annual 2016*, December 2017, Table 2.2.

2017: Sum of monthly estimates.

**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 2017, the 2016 annual share is used.