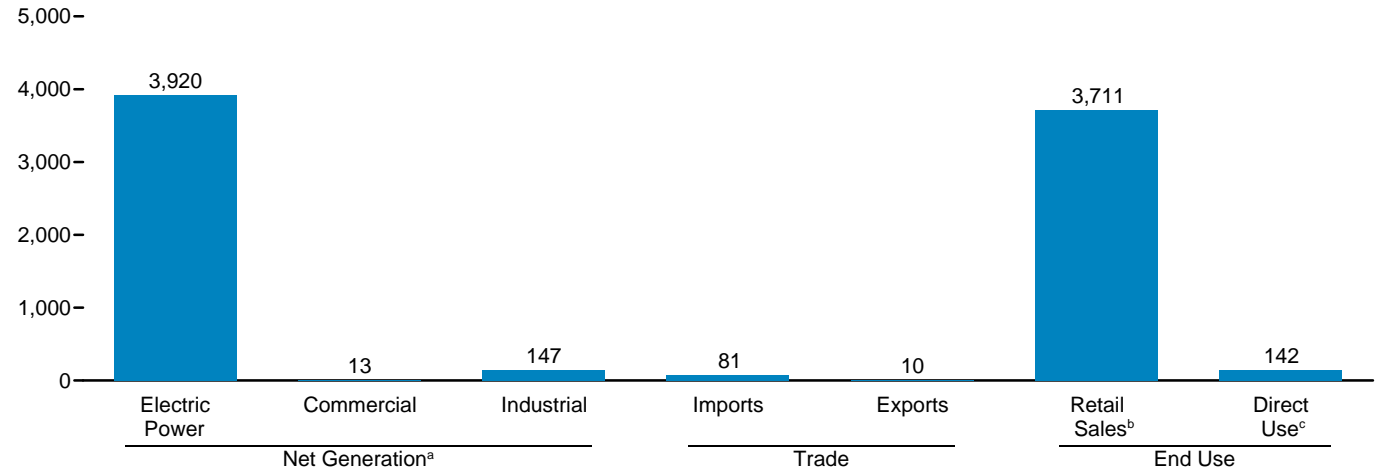


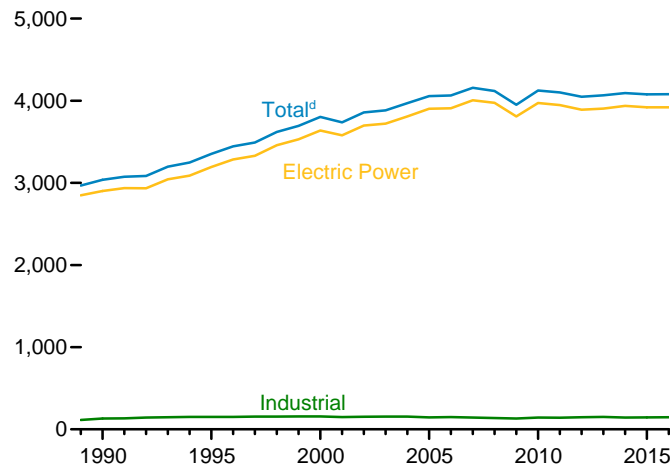
7. Electricity

Figure 7.1 Electricity Overview
(Billion Kilowatthours)

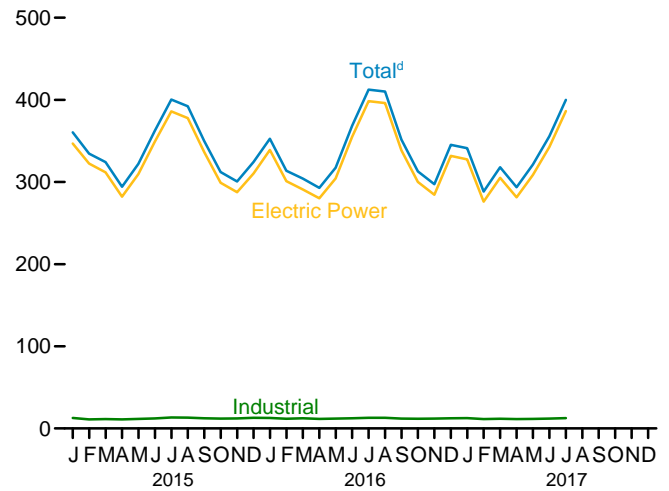
Overview, 2016



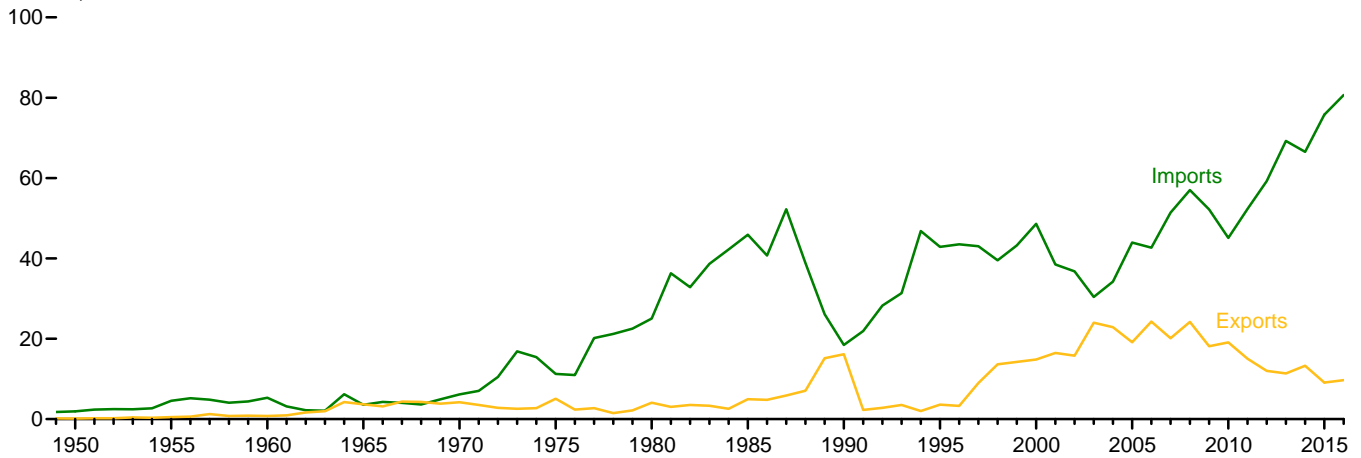
Net Generation^a by Sector, 1989–2016



Net Generation^a by Sector, Monthly



Trade, 1949–2016



^a Data are for utility-scale facilities.

^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

^c See "Direct Use" in Glossary.

^d 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 ^a				Trade			T&D Losses ^f and Unaccounted for ^g	End Use		
	Electric Power Sector ^b	Com- mercial Sector ^c	Indus- trial Sector ^d	Total	Imports ^e	Exports ^e	Net Imports ^e		Retail Sales ^h	Direct Use ⁱ	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	^c 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	13	353	7	1	6	30	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	30	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	29	376	E 13	388
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
November	284	1	12	297	7	1	6	19	273	E 12	284
December	332	1	12	345	7	1	6	34	306	E 12	318
Total	3,920	13	147	4,079	81	10	71	297	3,711	E 142	3,853
2017 January	328	1	12	341	R 6	1	R 5	R 19	314	E 12	327
February	276	1	11	288	R 4	1	R 3	R 8	273	E 11	284
March	305	1	12	318	R 5	1	R 4	R 22	288	E 12	299
April	281	1	11	294	R 5	1	R 4	R 18	269	E 11	279
May	309	1	12	321	R 5	1	R 4	R 25	289	E 11	300
June	343	1	12	356	R 6	1	R 5	R 25	324	E 12	335
July	386	1	13	400	F 7	F 1	F 6	32	362	E 12	374
7-Month Total	2,228	7	83	2,318	E 38	E 7	E 31	151	2,118	E 80	2,198
2016 7-Month Total	2,269	7	86	2,362	46	6	40	188	2,132	E 83	2,215
2015 7-Month Total	2,308	7	83	2,398	45	6	39	162	2,195	E 81	2,275

^a 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.

^b 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.

^c Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

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

^e Electricity transmitted across U.S. borders. Net imports equal imports minus exports.

^f 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.

^g Data collection frame differences and nonsampling error.

^h Electricity retail sales to ultimate customers by electric utilities and, beginning

in 1996, other energy service providers.

ⁱ 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. F=Forecast. (s)=Less than 0.5 billion kilowatthours.

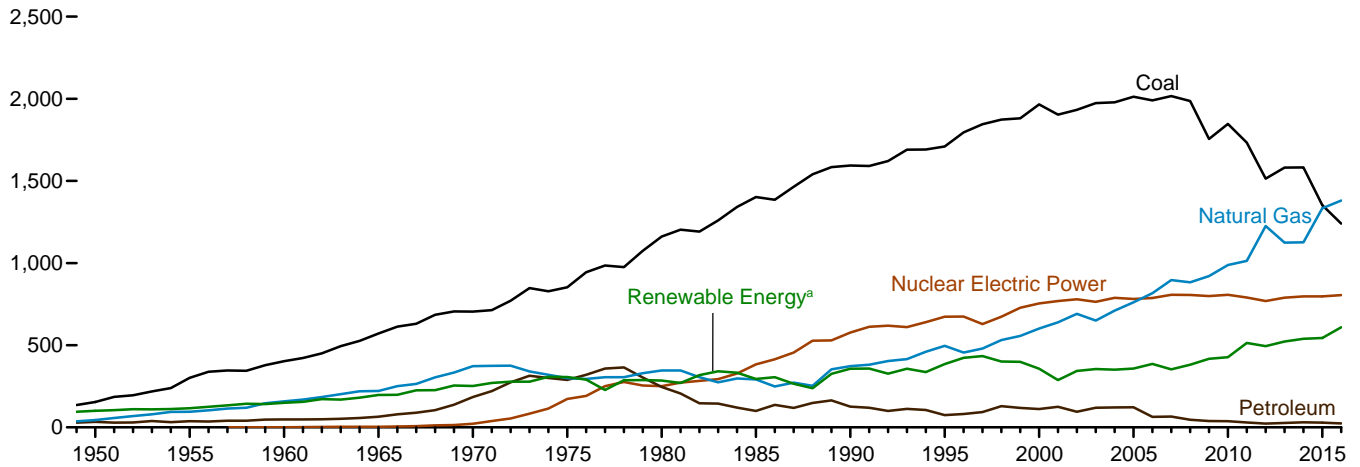
Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 3, "Electricity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

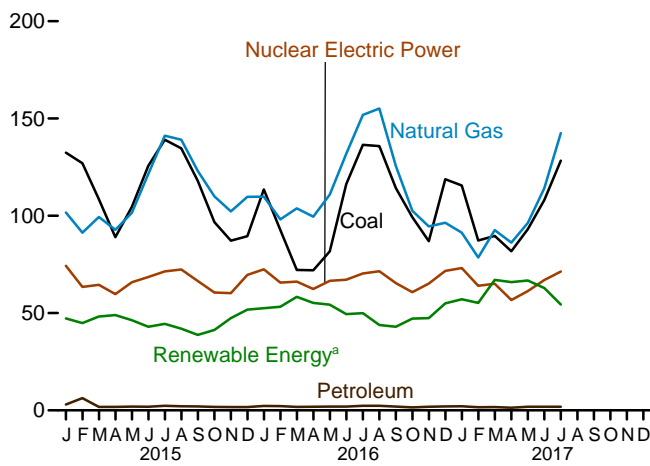
Sources: See end of section.

Figure 7.2 Electricity Net Generation
(Billion Kilowatthours)

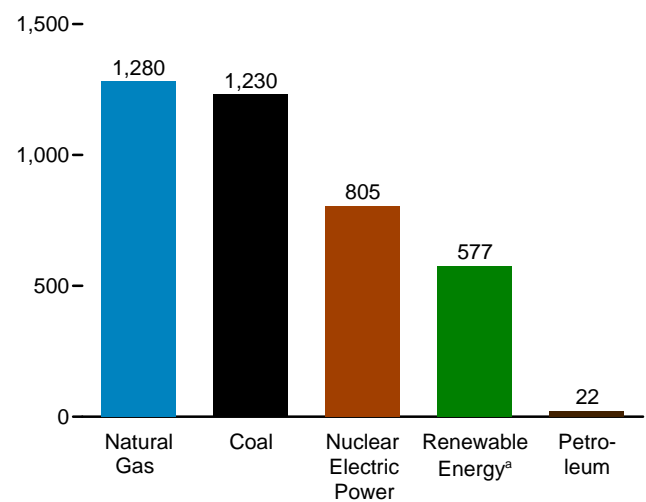
Total (All Sectors), Major Sources, 1949–2016



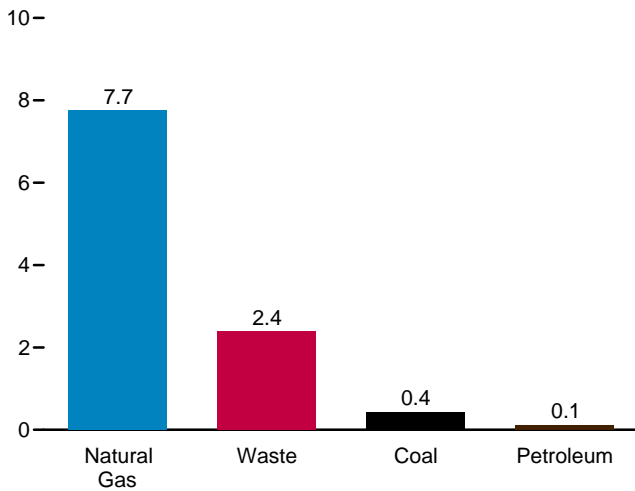
Total (All Sectors), Major Sources, Monthly



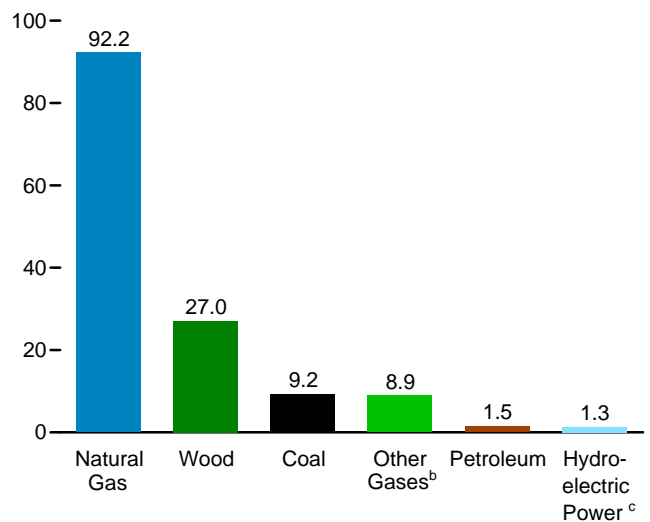
Electric Power Sector, Major Sources, 2016



Commercial Sector, Major Sources, 2016



Industrial Sector, Major Sources, 2016



^a Conventional hydroelectric power, wood, waste, geothermal, solar, and wind.

^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels.

^c 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	Renewable Energy						Total ^j
	Coal ^a	Petroleum ^b	Natural Gas ^c	Other Gases ^d			Conventional Hydro-electric Power ^f	Biomass		Geo-thermal	Solar ⁱ	Wind	
								Wood ^g	Waste ^h				
1950 Total	154,520	33,734	44,559	NA	0	(f)	100,885	390	NA	NA	NA	NA	334,088
1955 Total	301,363	37,138	95,285	NA	0	(f)	116,236	276	NA	NA	NA	NA	550,299
1960 Total	403,067	47,987	157,970	NA	518	(f)	149,440	140	NA	33	NA	NA	759,156
1965 Total	570,926	64,801	221,559	NA	3,657	(f)	196,984	269	NA	189	NA	NA	1,058,386
1970 Total	704,394	184,183	372,890	NA	21,804	(f)	250,957	136	220	525	NA	NA	1,535,111
1975 Total	852,786	289,095	299,778	NA	172,505	(f)	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total	1,161,562	245,994	346,240	NA	251,116	(f)	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total	1,402,128	200,202	291,946	NA	383,691	(f)	284,311	743	640	9,325	11	6	2,473,002
1990 Total ^k	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	-2,725	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	36,050	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 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	300,663
December	89,495	1,697	109,777	1,110	69,634	-281	23,166	3,587	1,969	1,377	1,570	20,988	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	113,551	2,296	109,787	1,263	72,525	-312	25,426	3,615	1,931	1,471	1,516	18,531	352,745
February	92,719	2,140	98,190	1,169	65,638	-399	24,150	3,394	1,713	1,372	2,443	20,204	313,749
March	72,138	1,766	103,791	1,241	66,149	-384	27,025	3,381	1,810	1,460	2,713	21,979	304,168
April	72,022	1,831	99,561	1,149	62,365	-452	25,475	2,909	1,819	1,340	2,949	20,745	292,836
May	81,728	1,924	110,901	977	66,576	-321	25,362	3,173	1,929	1,476	3,603	18,795	317,337
June	116,227	1,945	131,883	1,085	67,175	-497	22,902	3,414	1,829	1,364	3,610	16,318	368,418
July	136,504	2,318	151,860	1,066	70,349	-784	21,247	3,652	1,910	1,424	4,097	17,595	412,450
August	135,811	2,360	155,117	1,102	71,526	-902	19,359	3,650	1,908	1,444	3,948	13,561	410,113
September	114,282	1,924	125,639	1,050	65,448	-715	16,281	3,369	1,763	1,451	3,683	16,430	351,769
October	99,338	1,552	102,625	891	60,733	-561	17,249	3,105	1,752	1,489	3,193	20,380	312,828
November	87,000	1,839	94,529	1,001	65,179	-607	18,815	3,257	1,773	1,507	2,700	19,342	297,427
December	118,790	2,011	96,412	1,007	71,662	-753	22,538	3,584	1,932	1,620	2,299	22,991	345,238
Total	1,240,108	23,906	1,380,295	13,000	805,327	-6,686	265,829	40,504	22,068	17,417	36,754	226,872	4,079,079
2017 January	115,549	2,120	91,325	1,115	73,121	-418	27,704	3,451	1,891	1,541	2,206	20,350	341,072
February	87,267	1,623	78,581	1,152	64,053	-504	24,611	3,308	1,676	1,369	2,562	21,692	288,414
March	89,648	1,716	92,638	1,206	65,093	-517	30,198	3,504	1,763	1,533	4,474	25,599	317,934
April	81,789	1,332	86,234	1,084	56,743	-437	29,236	3,254	1,661	1,503	4,816	25,403	293,679
May	93,125	1,841	96,354	1,163	61,309	-423	32,122	3,321	1,746	1,422	5,816	22,326	321,202
June	108,109	1,891	114,215	1,153	67,011	-568	30,674	3,399	1,704	1,387	6,272	19,429	355,774
July	128,342	1,814	142,436	1,231	71,314	-759	26,223	3,711	1,746	1,504	5,544	15,711	400,022
7-Month Total	703,830	12,335	701,783	8,104	458,644	-3,626	200,769	23,949	12,186	10,257	31,690	150,509	2,318,096
2016 7-Month Total	684,888	14,221	805,973	7,948	470,778	-3,148	171,588	23,539	12,941	9,907	20,931	134,167	2,361,703
2015 7-Month Total	826,262	18,903	749,344	7,793	467,818	-2,912	154,730	24,432	12,262	9,337	14,779	107,507	2,398,171

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
^c Natural gas, plus a small amount of supplemental gaseous fuels.
^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
^e Pumped storage facility production minus energy used for pumping.
^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
^g Wood and wood-derived fuels.
^h 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).
ⁱ 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.
^j 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).
^k 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 7.2c Electricity Net Generation: Commercial and Industrial Sectors
(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a					Industrial Sector ^b							Total ^k
	Coal ^c	Petro- leum ^d	Natural Gas ^e	Biomass		Coal ^c	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power ⁱ	Biomass		
				Waste ^f	Total ^g						Wood ^j	Waste ^f	
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	10,080	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 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	876	122	7,746	893	136	2,373	112	12,684
February	47	14	550	188	944	817	113	7,198	828	131	2,187	101	11,758
March	44	6	595	230	1,043	839	108	7,551	868	147	2,230	119	12,284
April	29	8	615	206	1,022	713	106	7,250	819	131	2,045	112	11,611
May	26	8	650	202	1,055	736	138	7,554	681	130	2,219	98	12,018
June	28	7	694	181	1,079	824	122	7,723	720	105	2,266	90	12,303
July	30	10	763	209	1,204	884	136	8,095	721	101	2,356	105	12,883
August	33	14	781	203	1,212	870	137	8,137	756	87	2,323	94	12,898
September	34	7	675	182	1,065	718	118	7,695	681	60	2,201	78	12,034
October	36	8	583	191	969	669	115	7,526	646	80	2,181	87	11,718
November	39	8	591	184	961	595	109	7,781	641	68	2,281	91	11,982
December	45	11	605	189	981	691	145	7,973	680	123	2,343	101	12,464
Total	436	112	7,750	2,382	12,593	9,231	1,469	92,227	8,934	1,300	27,007	1,190	146,637
2017 January	40	19	662	208	1,060	786	111	7,848	751	132	2,344	100	12,479
February	31	10	576	186	931	683	100	6,975	808	120	2,224	92	11,389
March	35	13	638	197	1,045	684	122	7,287	825	136	2,272	103	11,856
April	22	8	529	180	903	601	87	7,046	781	131	2,167	93	11,335
May	23	10	573	203	1,006	646	107	7,145	805	143	2,156	84	11,500
June	24	9	635	196	1,050	714	119	7,382	808	133	2,240	78	11,912
July	29	11	680	196	1,102	717	119	7,798	837	130	2,421	78	12,608
7-Month Total	205	79	4,292	1,367	7,098	4,832	763	51,482	5,615	925	15,826	628	83,080
2016 7-Month Total	248	65	4,515	1,433	7,405	5,688	845	53,116	5,530	882	15,678	738	85,541
2015 7-Month Total	326	150	4,151	1,506	7,169	6,454	975	49,819	5,506	850	15,904	695	83,325

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal syngas.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

^e Natural gas, plus a small amount of supplemental gaseous fuels.

^f 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).

^g 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.

^h Blast furnace gas, and other manufactured and waste gases derived from

fossil fuels. Through 2010, also includes propane gas.

ⁱ Conventional hydroelectric power.

^j Wood and wood-derived fuels.

^k 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.

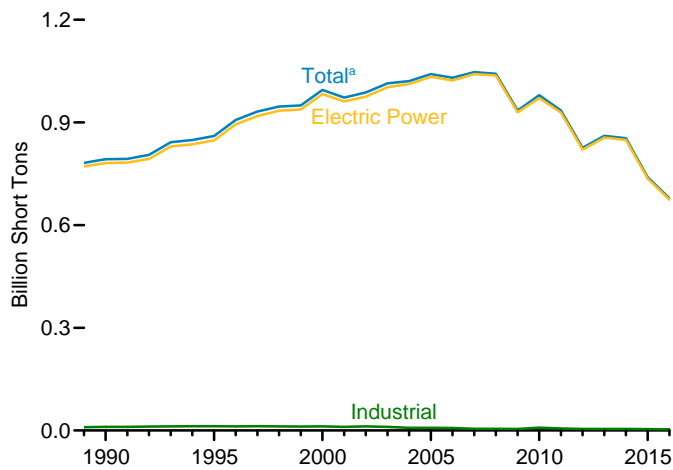
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

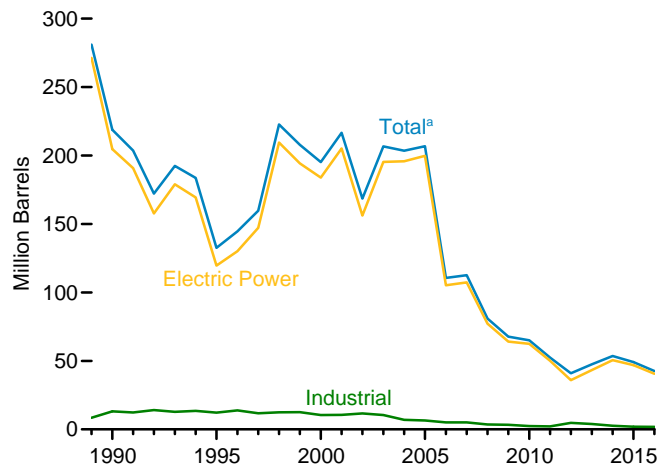
Sources: See end of section.

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation

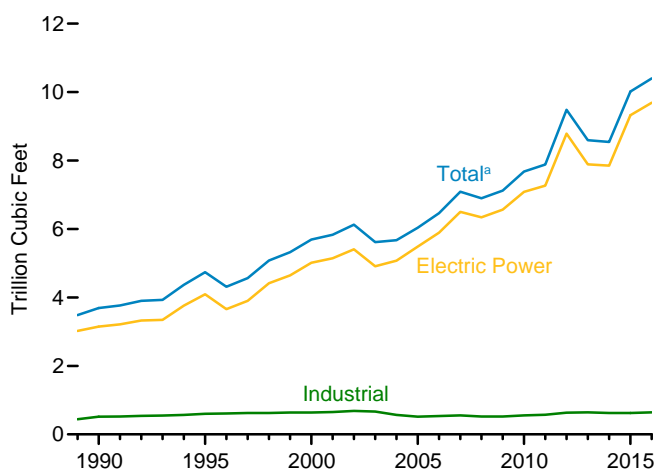
Coal by Sector, 1989–2016



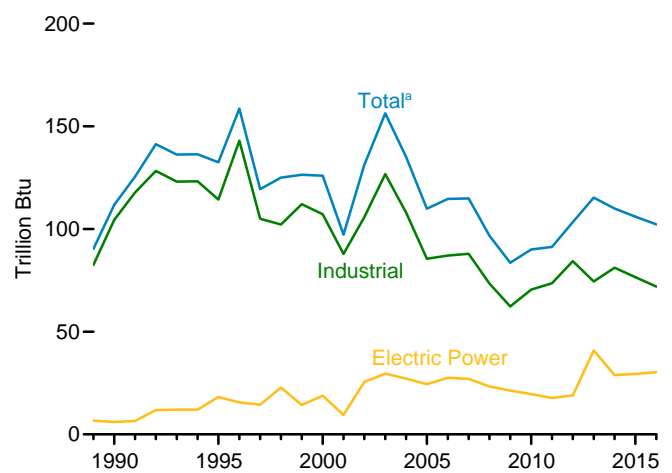
Petroleum by Sector, 1989–2016



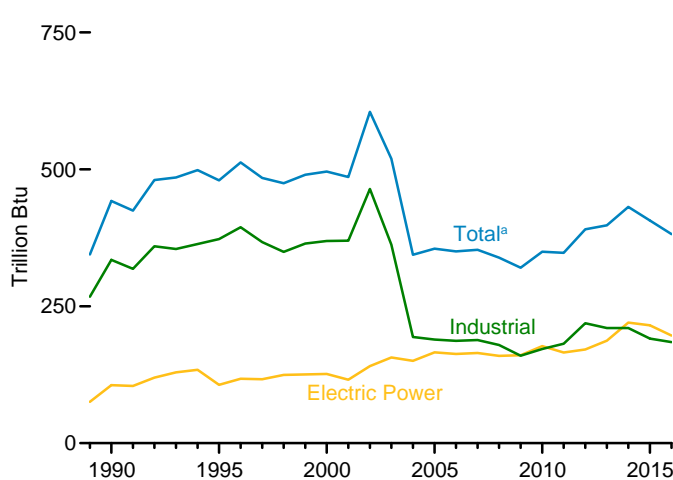
Natural Gas by Sector, 1989–2016



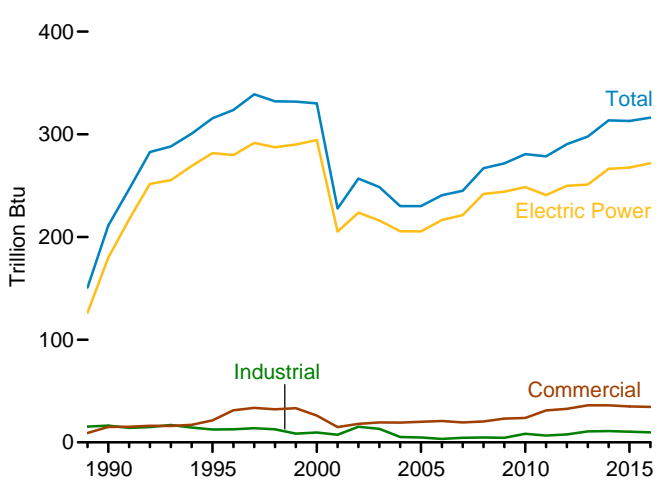
Other Gases^b by Sector, 1989–2016



Wood by Sector, 1989–2016



Waste by Sector, 1989–2016



^a Includes commercial sector.

^b 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 ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ^j
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
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 ^k	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	62,048	1,190	979	160	341	4,037	803	10	34	27	16
February	50,567	837	1,091	183	329	3,753	717	9	33	25	14
March	39,857	660	593	113	366	3,198	775	10	33	26	15
April	38,989	617	610	91	390	3,268	754	9	27	27	16
May	45,036	799	658	108	371	3,421	839	8	29	27	17
June	63,326	694	772	111	382	3,488	1,007	8	32	26	17
July	74,241	812	1,255	138	403	4,220	1,179	9	34	27	17
August	73,868	795	1,196	205	422	4,304	1,191	9	35	28	17
September	62,428	631	781	120	383	3,450	951	8	32	25	16
October	54,634	623	846	97	246	2,798	776	7	29	27	16
November	48,126	787	651	122	304	3,079	701	8	30	25	16
December	64,883	905	807	187	337	3,586	706	8	34	27	16
Total	678,005	9,351	10,238	1,636	4,275	42,601	10,400	102	382	316	193
2017 January	63,542	1,018	792	172	362	3,790	678	9	32	27	16
February	48,155	780	676	103	266	2,890	585	9	31	24	14
March	48,915	843	699	110	276	3,033	701	9	33	26	15
April	44,455	728	650	109	154	2,259	648	9	30	24	15
May	51,082	825	765	109	321	3,304	732	9	31	25	16
June	59,206	692	826	152	344	3,388	871	9	31	25	16
July	70,150	706	749	374	333	3,493	1,090	10	34	25	17
7-Month Total	385,505	5,591	5,157	1,127	2,056	22,157	5,304	64	223	176	109
2016 7-Month Total	374,065	5,610	5,958	905	2,582	25,384	6,075	63	222	184	112
2015 7-Month Total	448,135	8,881	10,016	1,730	2,444	32,846	5,622	63	237	177	116

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b 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.

^c 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.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels.

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

^h Wood and wood-derived fuels.

ⁱ 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).

^j 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).

^k 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 ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ^j
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
		Thousand Barrels				Thousand Short Tons			Thousand Barrels	Trillion Btu	
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 ^k	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 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	61,716	1,162	962	146	319	3,863	744	3	18	23	11
February	50,256	811	1,076	163	311	3,605	662	3	18	21	10
March	39,538	643	583	103	346	3,060	717	3	17	21	10
April	38,725	596	599	82	369	3,123	698	2	13	23	11
May	44,767	777	649	72	348	3,239	781	2	14	23	11
June	63,007	674	762	88	360	3,326	946	3	17	23	11
July	73,902	786	1,244	108	381	4,043	1,116	3	18	23	11
August	73,526	763	1,185	179	399	4,123	1,127	3	19	24	11
September	62,149	610	774	97	361	3,287	891	3	17	22	10
October	54,376	598	836	58	233	2,658	719	2	14	23	10
November	47,898	761	641	101	286	2,934	641	2	14	22	10
December	64,620	876	795	148	317	3,402	645	2	18	24	11
Total	674,481	9,058	10,105	1,346	4,031	40,662	9,688	30	196	272	127
2017											
January	63,226	977	777	149	345	3,629	615	3	16	23	11
February	47,876	756	665	81	253	2,768	529	3	16	21	9
March	48,644	813	685	92	257	2,876	643	3	18	22	10
April	44,222	704	639	94	143	2,150	592	2	15	21	10
May	50,826	799	756	90	306	3,173	676	3	16	22	10
June	58,928	668	815	133	325	3,240	812	3	16	22	11
July	69,861	676	741	346	315	3,335	1,029	3	18	22	11
7-Month Total	383,582	5,393	5,077	984	1,943	21,172	4,897	19	115	152	71
2016 7-Month Total	371,911	5,450	5,874	762	2,434	24,258	5,665	18	115	158	74
2015 7-Month Total	445,664	8,597	9,841	1,555	2,283	31,406	5,230	18	126	151	73

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b 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.

^c 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.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels.

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

^h Wood and wood-derived fuels.

ⁱ 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).

^j 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).

^k 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 ^a				Industrial Sector ^b						
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass Waste ^f	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Biomass		Other ⁱ
									Wood ^h	Waste ^f	
	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 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	14	6	3	319	160	53	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	260	171	53	5	15	1	4
June	10	9	6	3	310	153	54	6	16	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	246	129	52	5	15	1	4
November	13	11	5	3	215	134	55	5	16	1	4
December	15	14	6	3	249	169	56	6	16	1	4
Total	148	139	69	35	3,376	1,800	644	72	185	10	48
2017 January	16	31	6	3	300	130	56	6	16	1	4
February	12	16	5	3	267	106	50	7	15	1	3
March	12	22	6	3	259	135	52	7	15	1	4
April	8	14	5	3	225	96	51	6	15	1	4
May	8	16	5	3	249	114	50	7	15	1	4
June	8	15	6	3	270	133	53	7	15	1	4
July	10	18	6	3	279	139	55	7	16	1	5
7-Month Total	75	132	40	19	1,849	853	367	46	107	5	27
2016 7-Month Total	83	78	40	20	2,070	1,048	370	45	107	6	28
2015 7-Month Total	104	208	39	20	2,367	1,232	353	45	111	6	33

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

^e Natural gas, plus a small amount of supplemental gaseous fuels.

^f 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).

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

^h Wood and wood-derived fuels.

ⁱ 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).

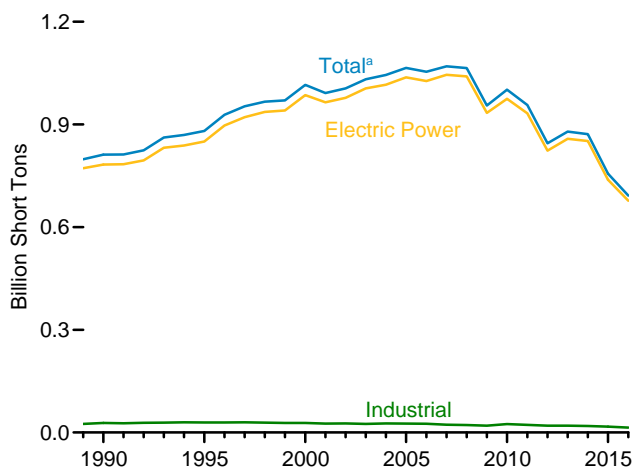
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. •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

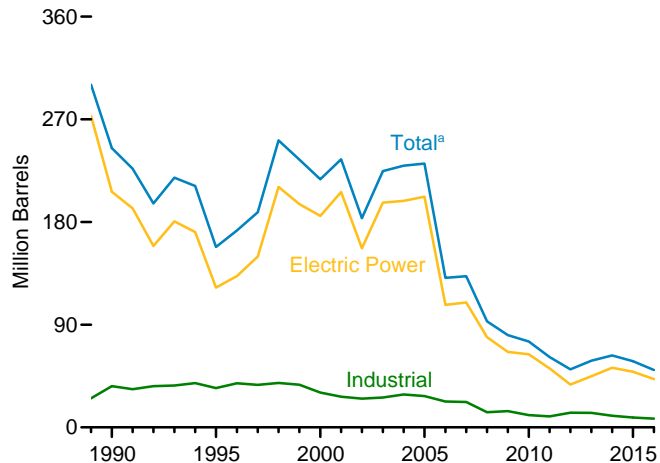
Sources: • **1989-1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001-2003:** EIA, Form EIA-906, "Power Plant Report." • **2004-2007:** EIA, Form EIA-906,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

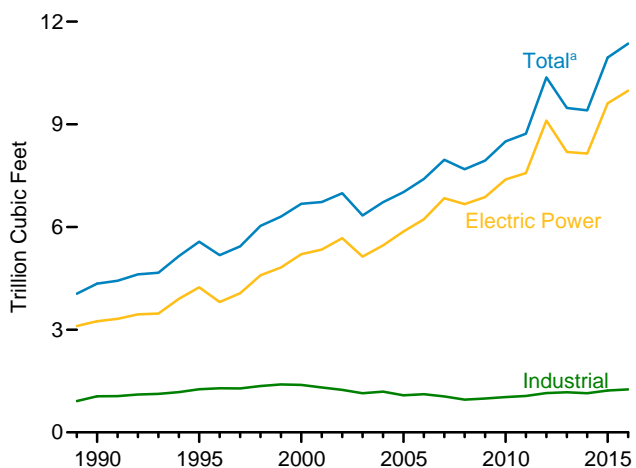
Coal by Sector, 1989–2016



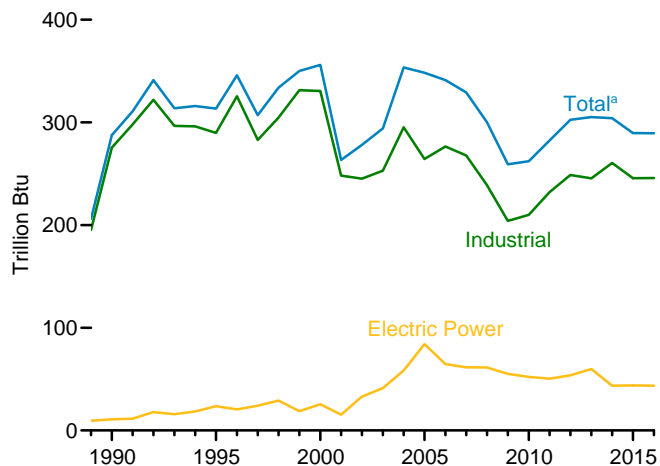
Petroleum by Sector, 1989–2016



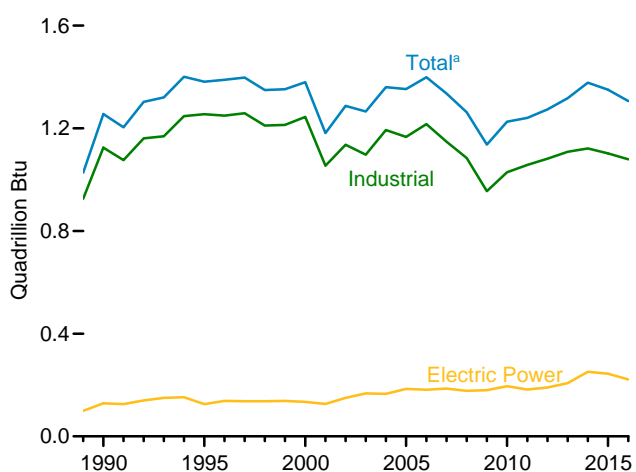
Natural Gas by Sector, 1989–2016



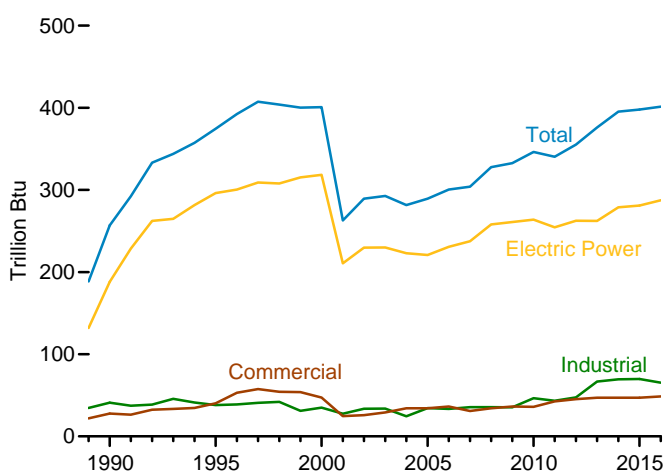
Other Gases^b by Sector, 1989–2016



Wood by Sector, 1989–2016



Waste by Sector, 1989–2016



^a Includes commercial sector.

^b 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 ^a Thousand Short Tons	Petroleum					Natural Gas ^f Billion Cubic Feet	Other Gases ^g Trillion Btu	Biomass		Other ⁱ Trillion Btu
		Distillate Fuel Oil ^b Thousand Barrels	Residual Fuel Oil ^c Thousand Barrels	Other Liquids ^d Thousand Barrels	Petroleum Coke ^e Thousand Short Tons	Total ^e Thousand Barrels			Wood ^h Trillion Btu	Waste ^j 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 ^k	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	1,053,763	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	63,549	1,231	1,142	201	420	4,675	889	25	117	34	18
February	51,960	878	1,218	239	416	4,413	795	23	108	32	17
March	41,233	683	720	147	474	3,922	855	27	108	34	18
April	40,039	643	738	118	461	3,804	831	25	100	35	19
May	46,171	825	779	169	445	3,997	917	23	105	33	19
June	64,502	724	891	158	461	4,079	1,085	25	109	33	19
July	75,416	857	1,396	191	488	4,885	1,261	25	112	35	19
August	75,041	834	1,340	254	506	4,958	1,275	26	113	34	20
September	63,469	657	895	166	448	3,959	1,029	23	105	31	18
October	55,643	656	985	156	359	3,590	852	24	103	32	18
November	49,162	817	760	166	381	3,648	778	21	109	33	18
December	66,084	937	933	254	433	4,287	790	24	117	35	19
Total	692,269	9,743	11,798	2,219	5,291	50,216	11,357	289	1,306	401	222
2017											
January	64,827	1,058	940	235	436	4,410	764	25	113	36	19
February	49,230	803	782	148	332	3,395	663	25	104	32	17
March	50,099	870	796	148	363	3,630	785	26	113	35	18
April	45,502	751	785	150	229	2,830	725	24	104	32	18
May	52,146	859	895	160	403	3,931	809	26	106	31	18
June	60,235	718	968	194	439	4,074	948	25	109	29	19
July	71,155	731	875	436	420	4,140	1,171	27	115	30	20
7-Month Total	393,193	5,789	6,041	1,471	2,622	26,411	5,865	178	764	226	128
2016 7-Month Total	382,869	5,841	6,884	1,223	3,165	29,774	6,633	171	760	236	129
2015 7-Month Total	458,192	9,249	11,345	2,134	3,127	38,365	6,158	172	789	226	135

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b 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.

^c 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.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels.

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

^h Wood and wood-derived fuels.

ⁱ 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).

^j 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).

^k 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 ^a Thousand Short Tons	Petroleum					Natural Gas ^f Billion Cubic Feet	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
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	NA	338,686	3,932	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	NA	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29,051	391,163	NA	NA	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	558,779	NA	NA	573,414	3,044	NA	8	7	NA
1990 Total ^k	782,567	16,567	636,215	26	1,008	703,816	3,245	11	129	188	(s)
1995 Total	850,230	18,553	731,677	499	2,674	734,870	4,237	24	125	296	2
2000 Total	985,821	30,016	855,513	454	3,275	859,238	5,206	25	134	318	1
2001 Total	964,433	29,274	835,159	377	3,427	838,586	5,342	15	126	211	113
2002 Total	977,507	21,876	955,631	1,267	5,816	956,914	5,672	33	150	230	143
2003 Total	1,005,116	27,632	977,484	2,026	5,799	983,283	5,135	41	167	230	140
2004 Total	1,016,268	19,107	997,161	2,713	7,372	999,533	5,464	58	165	223	138
2005 Total	1,037,485	19,675	1,017,810	2,685	8,083	1,025,893	5,869	84	185	221	123
2006 Total	1,026,636	12,646	1,014,000	1,870	7,101	1,021,171	6,222	65	182	231	125
2007 Total	1,045,141	15,327	1,029,814	2,594	5,685	1,035,499	6,841	61	186	237	124
2008 Total	1,040,580	12,547	1,028,033	2,670	5,119	1,033,152	6,668	61	177	258	131
2009 Total	933,627	12,035	921,592	2,210	4,611	926,203	6,873	55	180	261	124
2010 Total	975,052	13,790	961,262	1,877	4,777	966,039	7,387	52	196	264	124
2011 Total	932,484	11,021	921,463	1,658	4,837	926,301	7,574	50	182	255	143
2012 Total	823,551	9,080	814,471	1,339	2,974	817,445	9,111	54	190	262	143
2013 Total	857,962	9,598	848,364	1,489	4,285	852,649	8,191	60	207	262	139
2014 Total	851,602	14,235	837,367	2,208	4,132	841,500	8,146	44	251	279	137
2015 January	71,323	1,272	70,051	276	379	70,430	711	4	22	23	11
February	67,061	3,683	63,378	748	397	63,775	648	4	21	20	10
March	58,272	831	57,441	857	264	57,705	709	3	21	22	11
April	48,449	619	47,830	619	281	48,111	664	3	18	22	11
May	57,060	821	56,239	777	330	56,569	734	4	18	23	11
June	68,967	766	68,201	766	298	68,500	886	3	21	23	12
July	76,452	727	75,725	1,167	402	76,127	1,046	3	22	26	12
August	73,678	685	72,993	1,033	378	73,371	1,027	4	23	25	12
September	64,682	626	64,056	910	363	64,419	895	4	20	23	11
October	53,557	618	52,939	845	292	53,231	792	3	17	24	11
November	48,879	790	48,089	911	252	48,341	732	3	19	25	11
December	50,165	753	49,412	792	268	49,680	769	4	21	25	12
Total	738,444	12,193	726,251	2,131	3,907	730,158	9,613	44	244	281	136
2016 January	61,970	1,169	60,801	147	329	61,130	771	4	21	25	12
February	50,487	821	49,666	174	321	49,987	686	3	21	23	11
March	39,788	647	39,141	662	357	39,498	743	4	20	23	11
April	38,984	600	38,384	675	376	38,760	721	3	15	25	12
May	44,983	781	44,202	730	354	44,556	806	3	16	24	12
June	63,243	679	62,564	836	368	63,002	971	4	19	24	12
July	74,136	792	73,344	1,324	389	73,733	1,142	4	20	24	12
August	73,757	769	72,988	1,274	408	73,396	1,155	4	21	25	12
September	62,366	614	61,752	858	370	62,122	915	4	18	23	11
October	54,601	603	54,000	919	58	54,058	741	3	15	24	11
November	48,102	764	47,338	716	101	47,439	664	4	17	23	11
December	64,858	886	63,972	877	155	64,127	669	4	20	25	12
Total	677,275	9,126	668,149	1,374	4,137	672,286	9,984	44	222	287	137
2017 January	63,477	985	62,492	861	354	62,846	639	4	19	25	12
February	48,095	759	47,336	731	262	47,597	550	4	18	22	10
March	48,901	816	48,085	730	267	48,352	667	4	20	24	11
April	44,441	707	43,734	718	152	43,886	614	4	18	22	10
May	51,039	803	50,236	835	316	50,552	697	4	19	23	11
June	59,109	671	58,438	902	334	58,772	834	4	19	23	11
July	70,067	678	69,389	830	349	69,738	1,052	4	21	23	12
7-Month Total	385,129	5,419	380,010	5,608	2,009	382,019	5,053	27	133	161	77
2016 7-Month Total	373,591	5,491	368,100	782	2,494	370,594	5,840	26	131	167	80
2015 7-Month Total	447,483	8,719	438,764	1,598	2,352	441,116	5,399	25	143	159	78

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^b 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.

^c 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.

^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Natural gas, plus a small amount of supplemental gaseous fuels.

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

^h Wood and wood-derived fuels.

ⁱ 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).

^j 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).

^k 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 ^a				Industrial Sector ^b						
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Biomass		Other ⁱ
				Waste ^f					Wood ^h	Waste ^f	
	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 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	107	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	100	22	85	6	5
May	40	20	9	4	1,149	622	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	108	21	92	6	5
August	50	25	11	4	1,234	669	109	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
November	61	20	9	4	998	570	106	18	92	5	4
December	71	35	10	4	1,155	704	112	20	96	6	4
Total	692	310	117	49	14,302	7,676	1,257	246	1,080	65	56
2017											
January	62	71	11	4	1,288	562	114	21	94	7	5
February	50	46	10	4	1,085	460	102	21	85	6	5
March	55	56	10	4	1,143	600	108	23	92	7	5
April	37	29	9	4	1,024	522	103	20	86	6	5
May	36	39	9	4	1,071	586	103	22	87	4	5
June	42	31	10	4	1,083	664	104	21	90	3	5
July	50	36	10	4	1,038	627	109	23	94	3	6
7-Month Total	332	309	69	27	7,732	4,021	743	151	628	38	35
2016 7-Month Total	410	191	68	28	8,869	4,443	724	145	627	40	33
2015 7-Month Total	507	496	66	27	10,202	5,354	693	147	644	40	41

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

^e Natural gas, plus a small amount of supplemental gaseous fuels.

^f 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).

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

^h Wood and wood-derived fuels.

ⁱ 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).

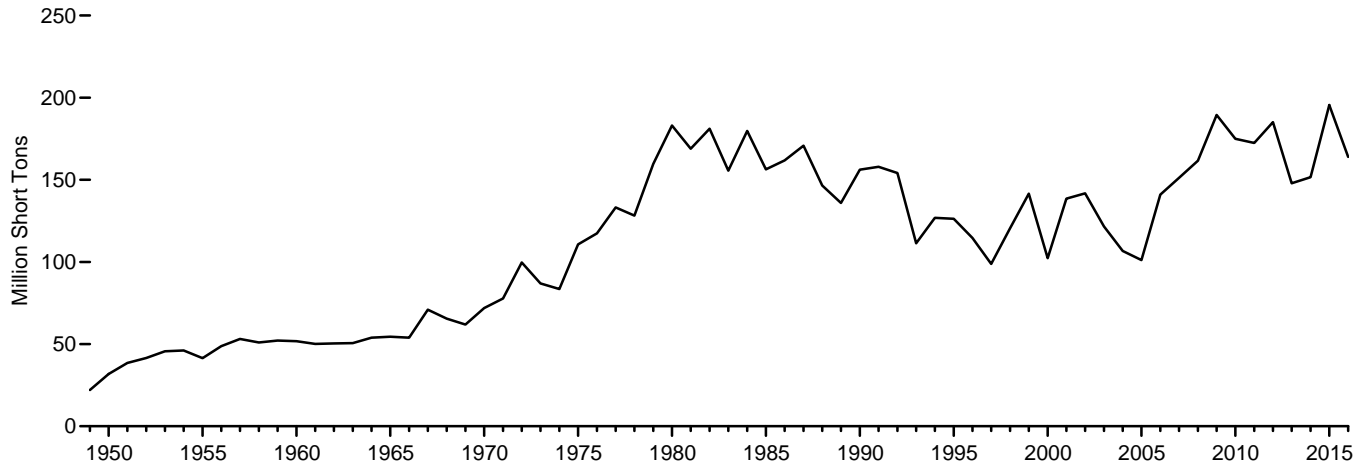
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

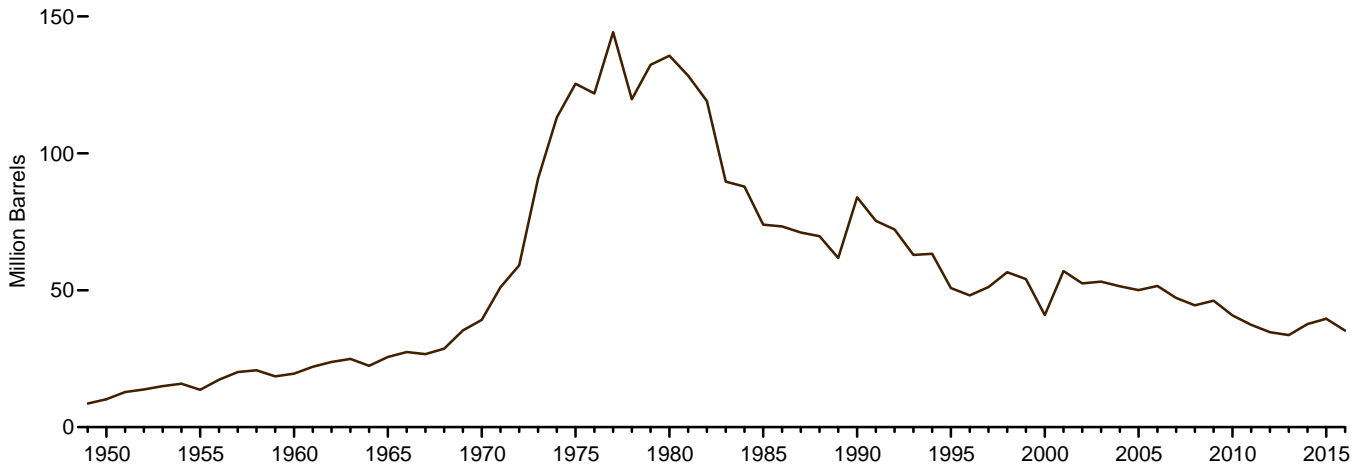
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

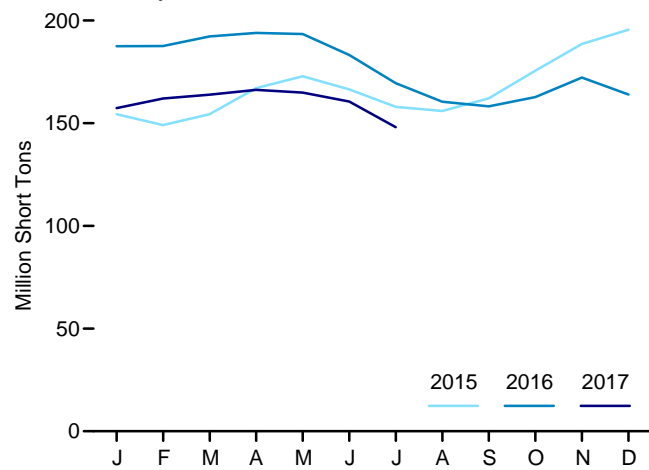
Coal, 1949–2016



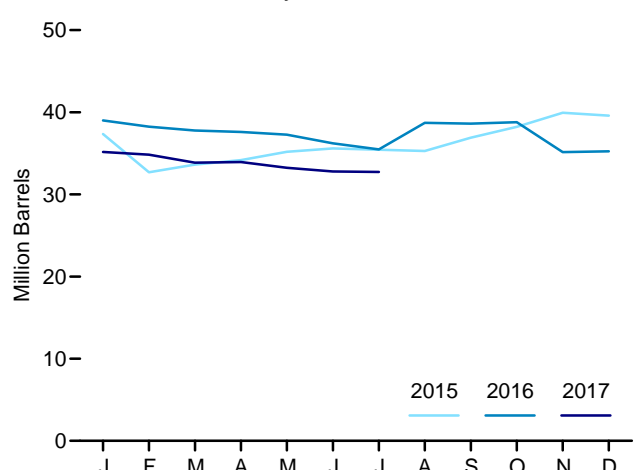
Total Petroleum, 1949–2016



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

	Petroleum					
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^{e,f}
	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 ^g	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 Year	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	187,486	17,783	12,275	2,338	1,320	38,997
February	187,575	17,457	11,880	2,300	1,323	38,254
March	192,269	17,341	11,948	2,290	1,240	37,778
April	193,991	17,394	12,187	2,114	1,181	37,599
May	193,432	17,497	12,309	2,118	1,071	37,281
June	183,248	17,419	12,151	2,117	905	36,214
July	169,465	17,189	11,886	2,115	858	35,480
August	160,452	21,082	11,644	2,097	780	38,721
September	158,238	21,019	11,662	2,087	768	38,606
October	162,739	21,107	11,519	2,097	812	38,785
November	172,208	17,032	11,826	2,124	833	35,145
December	163,946	17,057	11,670	2,153	872	35,239
2017 January	157,359	17,065	11,839	2,125	827	35,164
February	161,985	16,767	11,701	2,081	859	34,844
March	163,900	15,561	12,036	1,852	882	33,858
April	166,236	15,492	11,825	1,852	952	33,931
May	164,924	15,391	11,575	1,814	892	33,240
June	160,540	15,181	11,462	1,804	869	32,791
July	148,084	15,350	11,258	1,785	866	32,724

^a Anthracite, bituminous coal, subbituminous coal, and lignite; excludes waste coal.

^b 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.

^c 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.

^d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

^e Petroleum coke is converted from short tons to barrels by multiplying by 5.

^f Distillate fuel oil and residual fuel oil. Beginning in 1970, also includes petroleum coke. Beginning in 2002, also includes other liquids.

^g 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

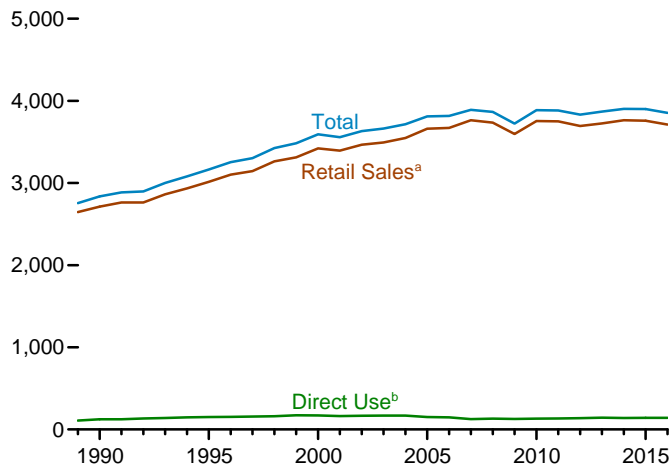
primary business is to sell electricity, or electricity and heat, to the public. • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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.

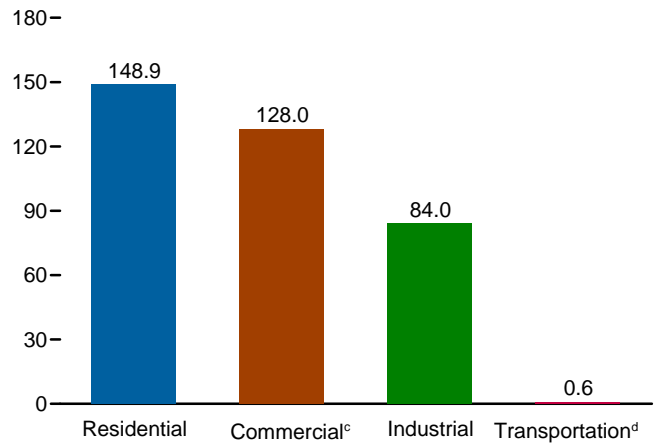
Sources: • **1949–September 1977:** Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • **October 1977–1981:** Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • **1982–1988:** U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power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

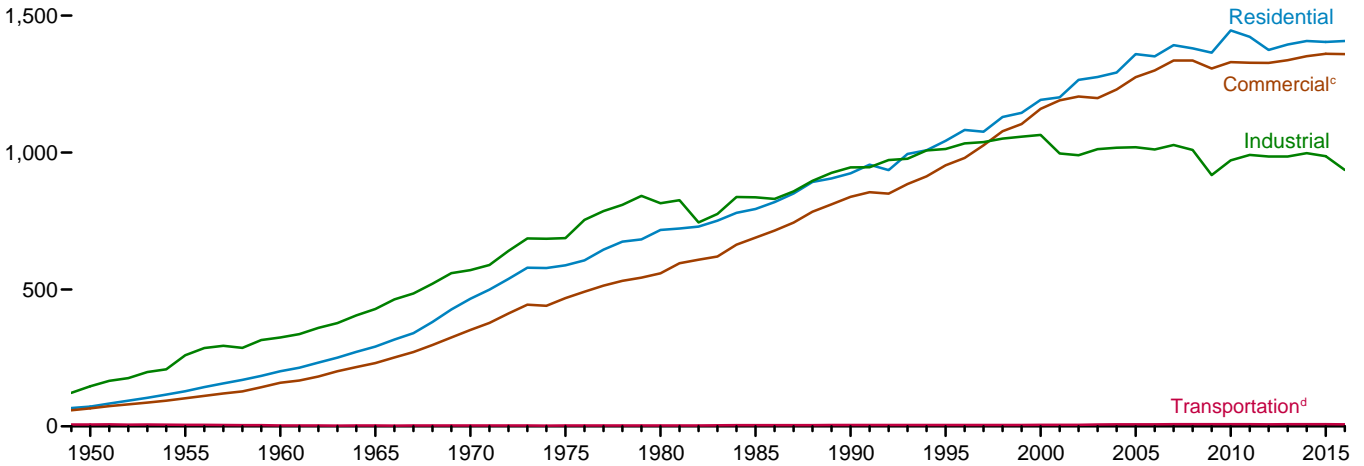
Electricity End Use Overview, 1989–2016



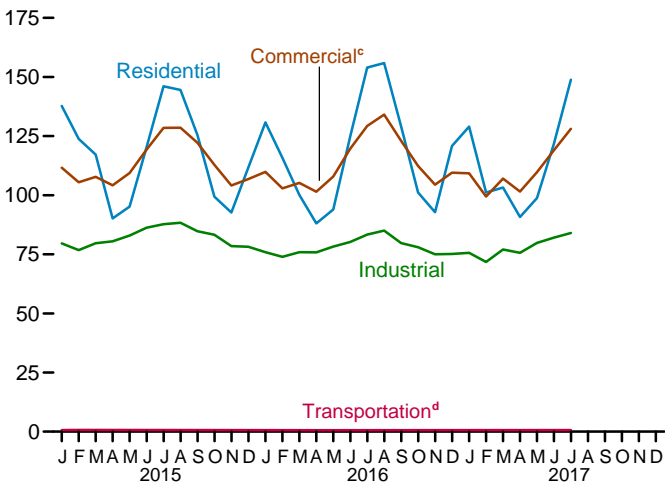
Retail Sales^a by Sector, July 2017



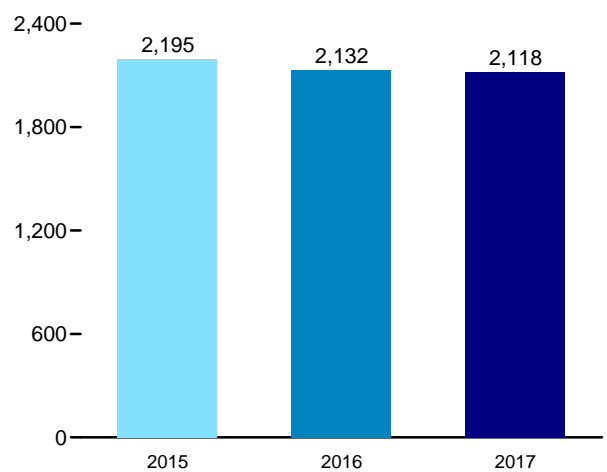
Retail Sales^a by Sector, 1949–2016



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, January–July



^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

^b See "Direct Use" in Glossary.

^c Commercial sector, including public street and highway lighting, inte-

departmental sales, and other sales to public authorities.

^d 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 ^a					Direct Use ^f	Total End Use ^g
	Residential	Commercial ^b	Industrial ^c	Transportation ^d	Total Retail Sales ^e		
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
2015 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
Total	1,404,096	1,360,752	986,508	7,637	3,758,992	141,168	3,900,160
2016 January	130,764	109,870	75,892	660	317,186	E 12,253	329,439
February	115,820	102,877	73,909	647	293,253	E 11,327	304,580
March	100,123	105,180	75,907	610	281,819	E 11,885	293,704
April	88,107	101,464	75,801	595	265,967	E 11,265	277,232
May	93,981	107,900	78,246	582	280,708	E 11,658	292,367
June	124,888	119,673	80,234	632	325,427	E 11,933	337,360
July	153,976	129,265	83,369	648	367,258	E 12,561	379,819
August	155,851	134,078	85,061	632	375,622	E 12,583	388,205
September	129,111	122,961	79,719	637	332,428	E 11,680	344,109
October	101,137	112,346	77,960	613	292,056	E 11,313	303,370
November	92,797	104,454	75,048	592	272,891	E 11,542	284,432
December	120,840	109,548	75,124	652	306,163	E 11,989	318,153
Total	1,407,394	1,359,617	936,269	7,499	3,710,779	E 141,990	3,852,769
2017 January	128,997	109,225	75,596	666	314,483	E 12,073	326,556
February	101,141	99,478	71,741	636	272,996	E 10,987	283,982
March	103,210	106,991	77,018	644	287,863	E 11,504	299,367
April	90,780	101,566	75,624	590	268,560	E 10,914	279,474
May	98,757	109,757	79,838	583	288,934	E 11,152	300,086
June	121,778	119,028	82,083	619	323,508	E 11,559	335,067
July	148,865	128,049	84,027	630	361,570	E 12,226	373,795
7-Month Total	793,527	774,094	545,925	4,368	2,117,913	E 80,414	2,198,328
2016 7-Month Total	807,658	776,229	543,357	4,373	2,131,618	E 82,883	2,214,501
2015 7-Month Total	830,467	786,246	573,436	4,538	2,194,687	E 80,696	2,275,383

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

^b Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

^d Transportation sector, including sales to railroads and railways.

^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."

^f 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.

^g The sum of "Total Retail Sales" and "Direct Use."

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.

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 September 26, 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 September 26, 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 September 26, 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 September 26, 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 September 26, 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)*, September 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.

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

2004 forward: EIA, EPM, September 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.

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

2004 forward: EIA, EPM, September 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.”

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

2016: 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 2016 and 2017, the 2015 annual share is used.