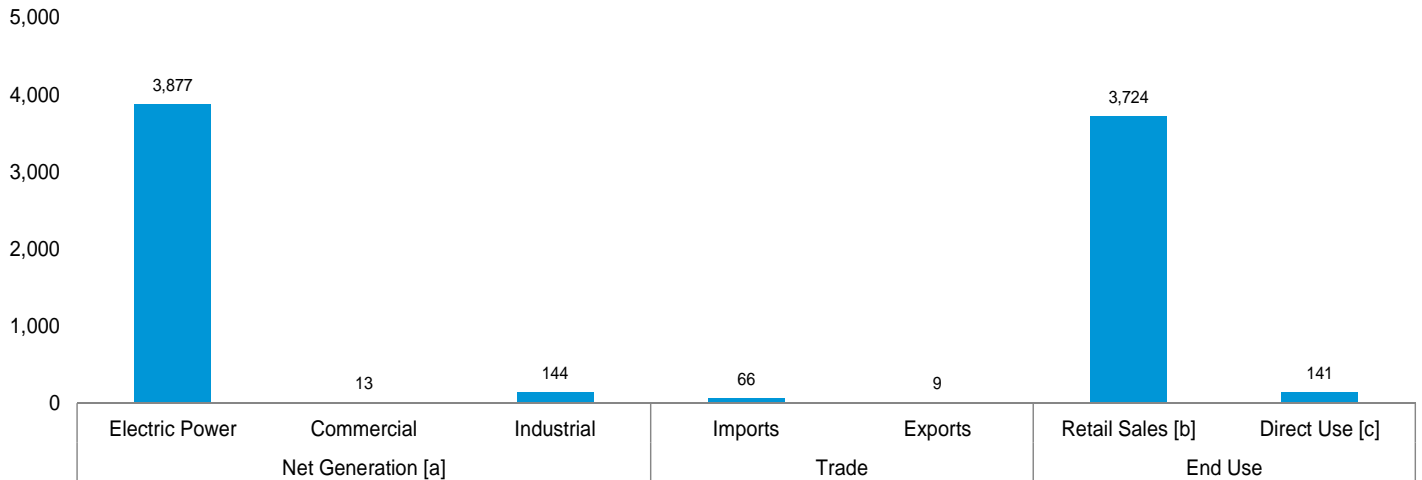


7. Electricity

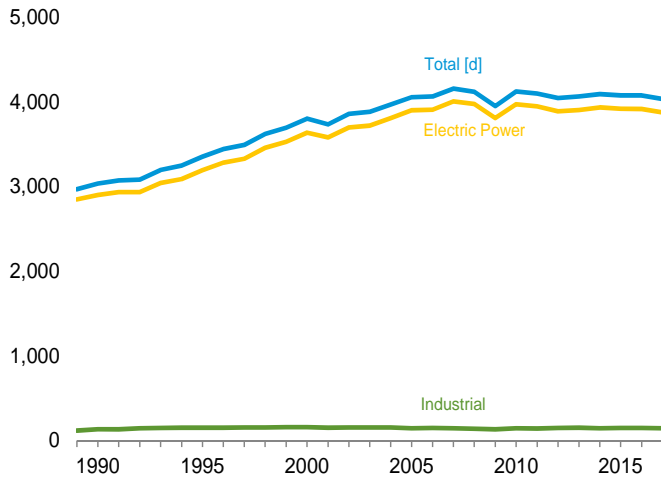
Figure 7.1 Electricity Overview

(Billion Kilowatthours)

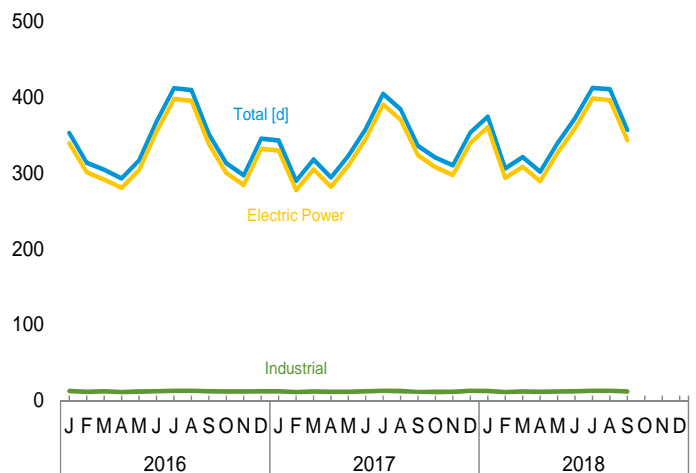
Overview, 2017



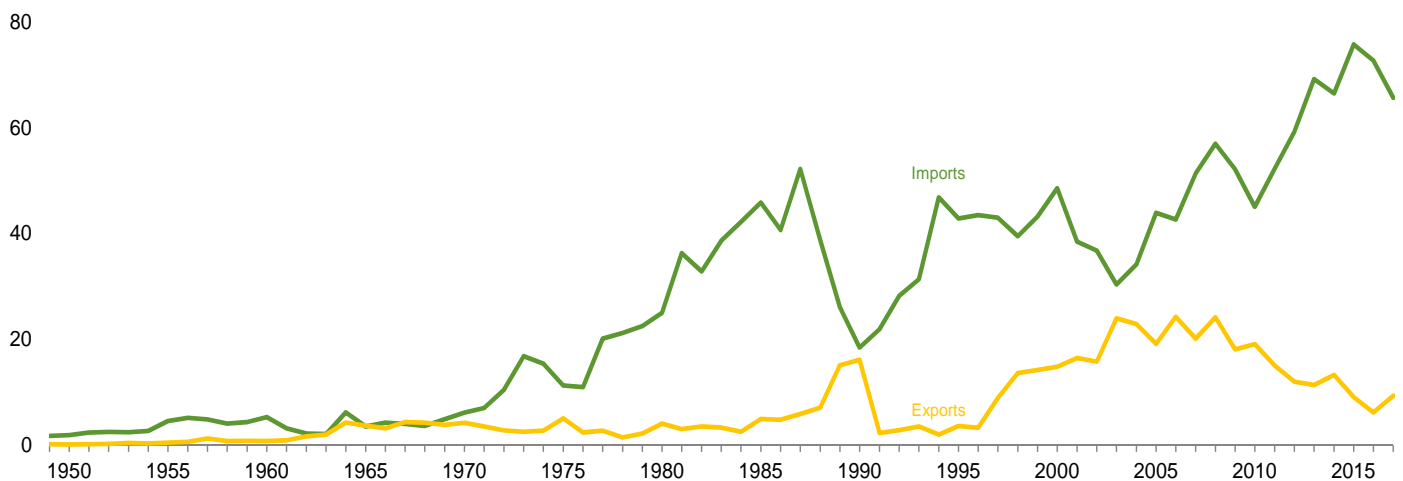
Net Generation [a] by Sector, 1989–2017



Net Generation [a] by Sector, Monthly



Trade, 1949–2017



[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	^d 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 Total	3,919	13	146	4,078	76	9	67	244	3,759	141	3,900
2016 January	339	1	12	353	7	(s)	6	26	321	^E 12	333
February	301	1	12	314	5	1	5	11	297	^E 11	308
March	291	1	12	304	6	1	5	12	286	^E 12	297
April	281	1	11	293	5	(s)	4	17	270	^E 11	280
May	304	1	12	317	6	(s)	5	26	285	^E 11	296
June	354	1	12	368	7	1	6	32	330	^E 12	342
July	398	1	13	412	8	1	7	34	372	^E 13	385
August	395	1	13	410	7	1	7	23	381	^E 13	394
September	338	1	12	351	5	1	5	8	337	^E 12	348
October	300	1	12	313	6	(s)	5	10	297	^E 11	308
November	284	1	12	297	6	(s)	6	14	277	^E 11	289
December	332	1	12	345	5	1	5	28	311	^E 12	322
Total	3,918	13	146	4,077	73	6	67	241	3,762	140	3,902
2017 January	330	1	12	343	7	(s)	7	19	318	^E 12	330
February	278	1	11	290	6	1	5	8	276	^E 11	287
March	305	1	12	318	6	1	5	20	291	^E 12	303
April	282	1	11	294	6	1	4	15	273	^E 11	284
May	310	1	12	323	5	1	4	23	292	^E 11	303
June	345	1	12	358	6	1	5	23	329	^E 12	341
July	390	1	13	404	6	1	5	29	368	^E 13	380
August	370	1	13	384	7	1	6	17	360	^E 13	373
September	323	1	11	336	5	1	5	7	322	^E 11	333
October	308	1	12	320	4	1	3	13	300	^E 11	311
November	298	1	12	310	4	1	3	19	283	^E 11	295
December	340	1	13	353	5	1	4	33	312	^E 13	325
Total	3,877	13	144	4,034	66	9	56	226	3,724	141	3,865
2018 January	361	1	13	374	5	1	4	26	340	^E 12	353
February	294	1	11	306	5	1	4	11	288	^E 11	299
March	308	1	12	321	6	1	4	22	292	^E 12	304
April	289	1	11	302	5	2	3	20	274	^E 11	285
May	327	1	12	340	5	1	4	34	298	^E 12	310
June	359	1	12	372	5	1	4	31	333	^E 12	345
July	398	1	13	412	^R 5	1	^R 4	^R 34	370	^E 13	382
August	396	1	13	410	6	1	^R 5	^R 26	376	^E 13	389
September	344	1	12	357	4	1	3	16	332	^E 12	344
9-Month Total	3,076	10	109	3,195	47	11	36	219	2,904	^E 107	3,012
2017 9-Month Total	2,933	10	108	3,050	53	7	46	162	2,829	^E 106	2,934
2016 9-Month Total	3,002	10	110	3,121	55	5	50	188	2,878	^E 106	2,983

^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. ^(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.

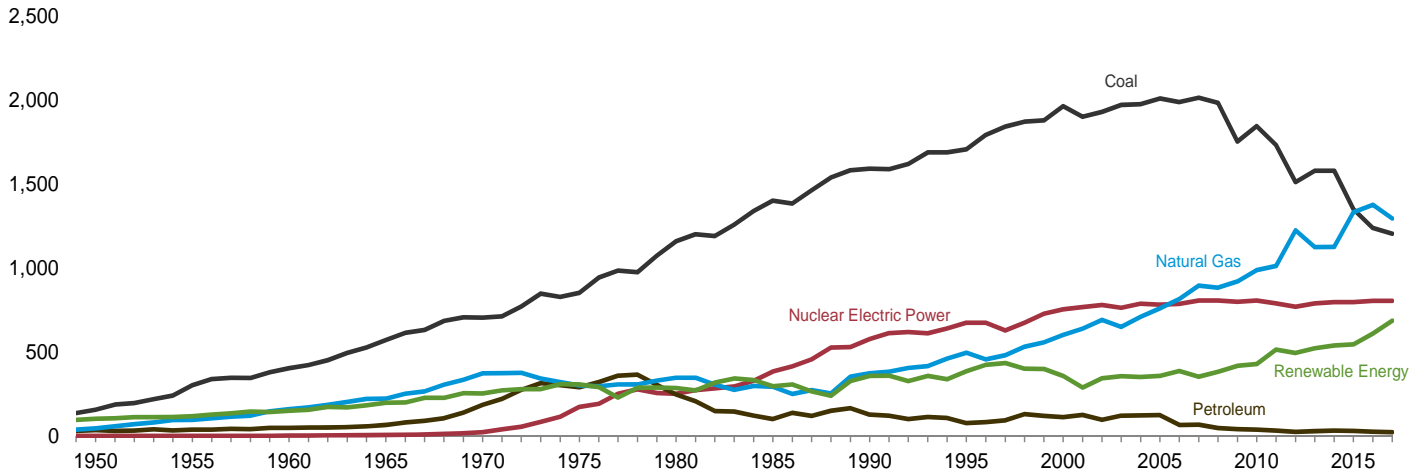
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

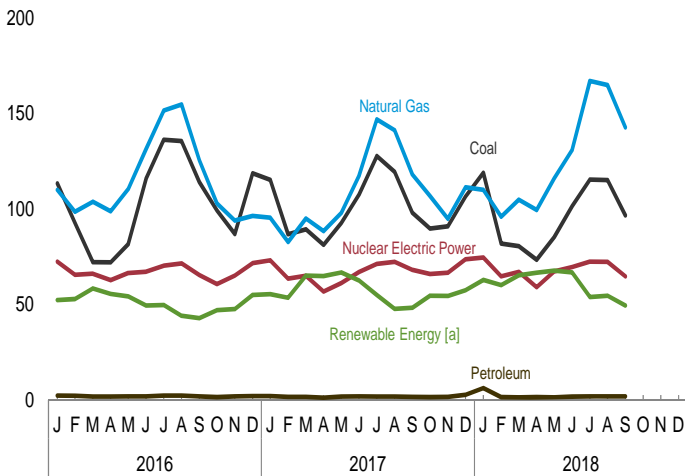
Figure 7.2 Electricity Net Generation

(Billion Kilowatthours)

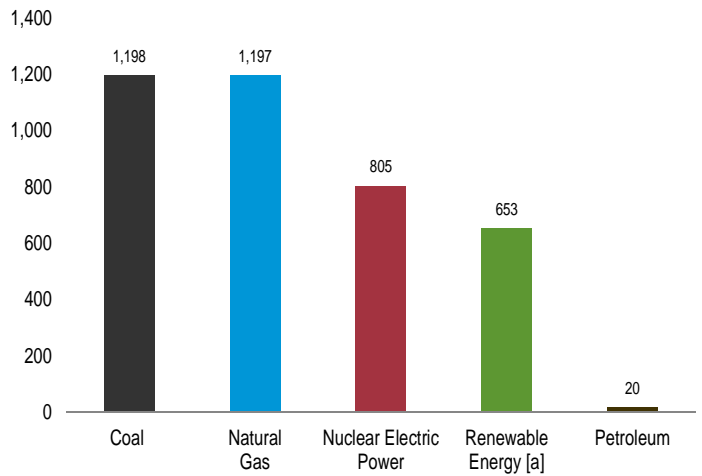
Total (All Sectors), Major Sources, 1949–2017



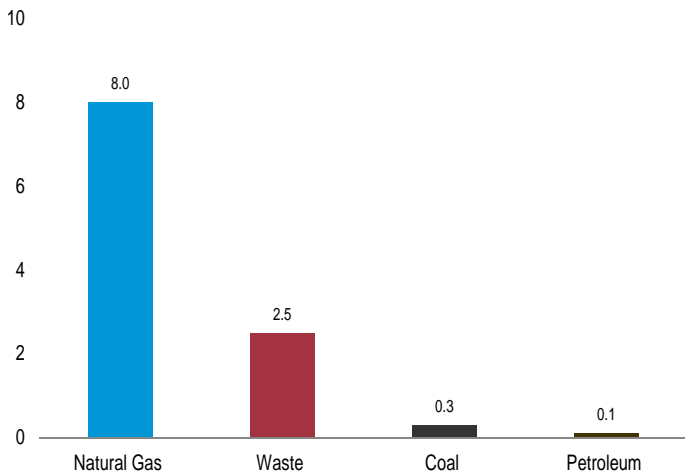
Total (All Sectors), Major Sources, Monthly



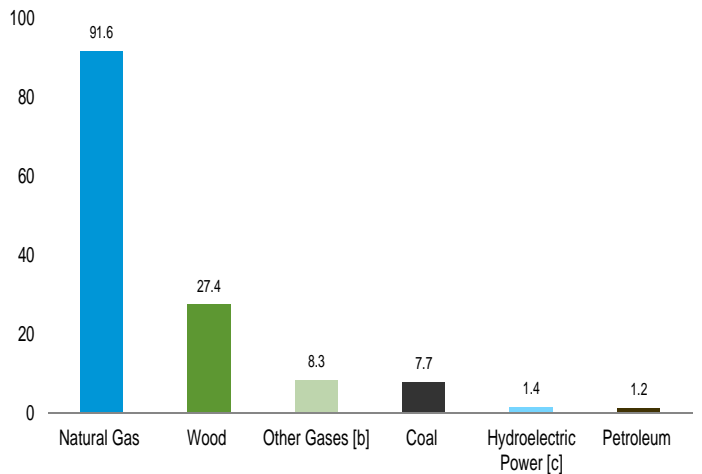
Electric Power Sector, Major Sources, 2017



Commercial Sector, Major Sources, 2017



Industrial Sector, Major Sources, 2017



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

[b] Blast furnace gas, and other manufactured and waste 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 ^g	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	{	100,885	390	NA	NA	NA	NA	334,088
1955 Total	301,363	37,138	95,285	NA	0	{	116,236	276	NA	NA	NA	NA	550,299
1960 Total	403,067	47,987	157,970	NA	518	{	149,440	140	NA	33	NA	NA	759,156
1965 Total	570,926	64,801	221,559	NA	3,657	{	196,984	269	NA	189	NA	NA	1,058,386
1970 Total	704,394	184,183	372,890	NA	21,804	{	250,957	136	220	525	NA	NA	1,535,111
1975 Total	852,786	289,095	299,778	NA	172,505	{	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total	1,161,562	245,994	346,240	NA	251,116	{	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total	1,402,128	100,202	291,946	NA	383,691	{	284,311	743	640	9,325	11	6	2,473,002
1990 Total ^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 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	113,459	2,361	110,044	1,195	72,525	-312	25,615	3,600	1,795	1,332	1,486	18,466	352,719
February	92,705	2,209	98,552	1,062	65,638	-399	24,139	3,406	1,708	1,243	2,242	20,138	313,685
March	72,173	1,801	103,890	1,197	66,149	-384	27,390	3,403	1,809	1,315	2,617	21,939	304,390
April	72,113	1,839	98,876	1,132	62,732	-452	25,878	2,967	1,811	1,209	2,880	20,799	292,894
May	81,695	1,958	110,430	1,053	66,576	-321	25,486	3,187	1,909	1,342	3,425	18,848	316,784
June	116,034	1,977	131,395	1,043	67,175	-497	23,237	3,414	1,794	1,251	3,473	16,303	367,781
July	136,316	2,322	151,554	1,077	70,349	-784	21,455	3,658	1,840	1,311	3,945	17,618	411,887
August	135,635	2,335	154,760	1,064	71,526	-902	19,570	3,722	1,860	1,324	3,969	13,589	409,701
September	114,138	1,926	125,603	1,020	65,448	-715	16,368	3,407	1,757	1,327	3,635	16,404	351,484
October	99,194	1,571	102,898	913	60,733	-561	17,339	3,176	1,693	1,353	3,191	20,335	312,945
November	86,940	1,869	93,942	1,013	65,179	-607	18,808	3,391	1,891	1,364	2,767	19,406	297,062
December	118,747	2,035	96,364	1,037	71,662	-753	22,528	3,615	1,944	1,454	2,424	23,146	345,343
Total	1,239,149	24,205	1,378,307	12,807	805,694	-6,686	267,812	40,947	21,813	15,826	36,054	226,993	4,076,675
2017 January	115,333	2,065	95,473	1,046	73,121	-435	26,788	3,505	1,948	1,383	2,030	19,840	343,190
February	86,822	1,597	82,694	977	63,560	-508	23,643	3,186	1,694	1,239	2,555	21,198	289,652
March	89,365	1,649	95,022	1,060	65,093	-521	29,272	3,457	1,854	1,385	4,245	24,993	317,935
April	81,335	1,277	88,418	1,001	56,743	-439	29,390	3,149	1,755	1,337	4,696	24,613	294,325
May	92,777	1,818	98,067	1,055	61,313	-423	32,384	3,189	1,859	1,283	5,663	22,450	322,518
June	107,508	1,902	117,317	992	67,011	-568	30,222	3,439	1,795	1,214	6,175	19,809	357,916
July	127,697	1,806	146,994	1,048	71,314	-759	26,491	3,703	1,813	1,355	5,753	15,960	404,386
August	119,488	1,734	141,209	1,134	72,384	-638	21,851	3,753	1,808	1,345	5,434	13,621	384,342
September	98,203	1,637	118,112	1,060	68,098	-606	19,067	3,294	1,696	1,297	5,115	17,855	335,861
October	89,775	1,528	106,852	999	65,995	-463	18,284	3,306	1,717	1,229	4,821	25,306	320,376
November	90,986	1,658	94,883	1,001	66,618	-478	20,565	3,430	1,795	1,289	3,409	24,082	310,315
December	106,546	2,719	111,373	1,096	73,700	-656	22,377	3,738	1,877	1,571	3,389	24,575	353,452
Total	1,205,835	21,390	1,296,415	12,469	804,950	-6,495	300,333	41,152	21,610	15,927	53,286	254,303	4,034,268
2018 January	118,939	6,241	110,064	996	74,649	-547	25,594	3,779	1,854	1,416	3,413	26,885	374,398
February	81,922	1,518	96,013	991	64,790	-315	25,532	3,398	1,761	1,333	4,120	24,077	306,142
March	80,613	1,459	104,939	1,063	67,033	-490	25,950	3,553	1,870	1,414	5,211	27,287	321,015
April	73,383	1,546	99,447	944	59,133	-377	27,488	3,107	1,766	1,255	6,257	26,803	301,791
May	85,311	1,437	116,110	1,008	67,320	-390	30,433	3,564	1,744	1,438	7,079	23,542	339,671
June	101,508	1,827	130,827	1,010	69,688	-433	27,953	3,588	1,787	1,370	7,811	24,340	372,386
July	115,472	1,895	167,066	1,102	72,456	-644	24,013	3,709	1,798	1,436	6,943	16,022	412,383
August	115,218	1,869	164,954	1,224	72,282	-747	21,398	3,565	1,797	1,429	6,982	19,507	410,485
September	96,743	1,874	142,745	1,001	64,725	-603	18,663	3,305	1,635	1,388	6,471	17,991	356,738
9-Month Total	869,110	19,666	1,132,165	9,339	612,076	-4,548	227,023	31,569	16,012	12,477	54,286	206,454	3,193,009
2017 9-Month Total	918,528	15,485	983,306	9,372	598,637	-4,898	239,108	30,678	16,221	11,838	41,667	180,340	3,050,125
2016 9-Month Total	934,267	18,729	1,085,104	9,843	608,119	-4,766	209,137	30,764	16,284	11,655	27,672	164,106	3,121,325

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

	Fossil Fuels				Nuclear Electric Power	Hydro-electric Pumped Storage ^e	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 }	95,938	390	NA	NA	NA	NA	NA	329,141
1955 Total	301,363	37,138	95,285	NA	0	{ f }	112,975	276	NA	NA	NA	NA	NA	547,038
1960 Total	403,067	47,987	157,970	NA	518	{ f }	145,833	140	NA	33	NA	NA	NA	755,549
1965 Total	570,926	64,801	221,559	NA	3,657	{ f }	193,851	269	NA	189	NA	NA	NA	1,055,252
1970 Total	704,394	184,183	372,890	NA	21,804	{ f }	247,714	136	220	525	NA	NA	NA	1,531,868
1975 Total	852,786	289,095	299,778	NA	172,505	{ f }	300,047	18	174	3,246	NA	NA	NA	1,917,649
1980 Total	1,161,562	245,994	346,240	NA	251,116	{ f }	276,021	275	158	5,073	NA	NA	NA	2,286,439
1985 Total	1,402,128	100,202	291,946	NA	383,691	{ f }	281,149	743	640	9,325	11	6	6	2,469,841
1990 Total ^k	1,572,109	118,864	309,486	621	576,862	-3,508	289,753	7,032	11,500	15,434	367	2,789	2,789	2,901,322
1995 Total	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,164	3,194,230
2000 Total	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	5,593	3,637,529
2001 Total	1,882,826	119,149	554,940	586	768,826	-8,823	213,749	8,294	12,944	13,741	543	6,737	6,737	3,580,053
2002 Total	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	13,145	14,491	555	10,354	10,354	3,698,458
2003 Total	1,952,714	113,697	567,303	2,647	763,733	-8,535	271,512	9,528	13,808	14,424	534	11,187	11,187	3,721,159
2004 Total	1,957,188	114,678	627,172	3,568	788,528	-8,488	265,064	9,736	13,062	14,811	575	14,144	14,144	3,808,360
2005 Total	1,992,054	116,482	683,829	3,777	781,986	-6,558	267,040	10,570	13,031	14,692	550	17,811	17,811	3,902,192
2006 Total	1,969,737	59,708	734,417	4,254	787,219	-6,558	286,254	10,341	13,927	14,568	508	26,589	26,589	3,908,077
2007 Total	1,998,390	61,306	814,752	4,042	806,425	-6,896	245,843	10,711	14,294	14,637	612	34,450	34,450	3,905,343
2008 Total	1,968,838	42,881	802,372	3,200	806,208	-6,288	253,096	10,638	15,379	14,840	864	55,363	55,363	3,974,349
2009 Total	1,741,123	35,811	841,006	3,058	798,855	-4,627	271,506	10,738	15,954	15,009	891	73,886	73,886	3,809,837
2010 Total	1,827,738	34,679	901,389	2,967	806,968	-5,501	258,455	11,446	16,376	15,219	1,206	94,636	94,636	3,972,386
2011 Total	1,717,891	28,202	926,290	2,939	790,204	-6,421	317,531	10,733	15,989	15,316	1,727	120,121	120,121	3,948,186
2012 Total	1,500,557	20,072	1,132,791	2,984	769,331	-4,950	273,859	11,050	16,555	15,562	4,164	140,749	140,749	3,890,358
2013 Total	1,567,722	24,510	1,028,949	4,322	789,016	-4,681	265,058	12,302	16,918	15,775	8,724	167,742	167,742	3,903,715
2014 Total	1,568,774	28,043	1,033,172	3,358	797,166	-6,174	258,046	15,027	17,602	15,877	17,304	181,496	181,496	3,937,003
2015 Total	1,340,993	26,505	1,237,656	3,715	797,178	-5,091	247,636	14,563	17,823	15,918	24,456	190,547	190,547	3,919,294
2016 January	112,624	2,217	101,786	344	72,525	-312	25,464	1,202	1,490	1,332	1,458	18,447	18,447	339,200
February	91,909	2,079	90,849	299	65,638	-399	24,006	1,183	1,424	1,243	2,201	20,118	20,118	301,122
March	71,346	1,695	95,849	360	66,149	-384	27,226	1,135	1,491	1,315	2,571	21,920	21,920	291,262
April	71,419	1,745	91,257	317	62,732	-452	25,735	883	1,501	1,209	2,831	20,781	20,781	280,548
May	80,935	1,814	102,482	313	66,576	-321	25,355	947	1,585	1,342	3,375	18,832	18,832	303,879
June	115,197	1,847	123,043	351	67,175	-497	23,125	1,094	1,516	1,251	3,418	16,290	16,290	354,445
July	135,420	2,186	142,558	346	70,349	-784	21,337	1,242	1,534	1,311	3,886	17,605	17,605	397,635
August	134,762	2,210	145,610	332	71,526	-902	19,458	1,313	1,557	1,324	3,908	13,579	13,579	395,328
September	113,347	1,822	117,197	346	65,448	-715	16,279	1,168	1,474	1,327	3,584	16,391	16,391	338,260
October	98,474	1,450	94,754	234	60,733	-561	17,229	952	1,406	1,353	3,147	20,318	20,318	300,073
November	86,275	1,737	85,907	351	65,179	-607	18,721	1,066	1,577	1,364	2,729	19,388	19,388	284,282
December	117,955	1,908	88,088	318	71,662	-753	22,390	1,234	1,628	1,454	2,389	23,122	23,122	332,044
Total	1,229,663	22,710	1,279,380	3,912	805,694	-6,686	266,326	13,420	18,183	15,826	35,497	226,790	226,790	3,918,078
2017 January	114,572	1,947	86,885	349	73,121	-435	26,635	1,189	1,646	1,383	2,011	19,822	19,822	329,751
February	86,158	1,491	75,045	308	63,560	-508	23,513	1,061	1,423	1,239	2,526	21,179	21,179	277,548
March	88,688	1,519	86,855	358	65,093	-521	29,126	1,216	1,544	1,385	4,200	24,968	24,968	304,996
April	80,743	1,179	80,578	300	56,743	-439	29,221	975	1,465	1,337	4,646	24,591	24,591	281,892
May	92,141	1,720	90,021	350	61,313	-423	32,205	977	1,554	1,283	5,605	22,429	22,429	309,762
June	106,825	1,793	108,833	324	67,011	-568	30,083	1,093	1,515	1,214	6,109	19,791	19,791	344,617
July	127,019	1,687	137,841	369	71,314	-759	26,363	1,239	1,513	1,355	5,690	15,948	15,948	390,204
August	118,810	1,610	132,376	360	72,384	-638	21,741	1,271	1,508	1,345	5,374	13,611	13,611	370,387
September	97,560	1,543	110,219	346	68,098	-606	18,978	1,088	1,422	1,297	5,059	17,840	17,840	323,400
October	89,114	1,427	98,826	326	65,995	-463	18,171	1,083	1,436	1,229	4,771	25,283	25,283	307,760
November	90,347	1,543	86,819	352	66,618	-478	20,421	1,163	1,496	1,289	3,372	24,059	24,059	297,585
December	105,860	2,582	102,457	383	73,700	-656	22,255	1,286	1,564	1,571	3,358	24,552	24,552	339,547
Total	1,197,838	20,039	1,196,754	4,126	804,950	-6,495	298,711	13,641	18,084	15,927	52,723	254,074	254,074	3,877,450
2018 January	118,151	6,049	101,257	329	74,649	-547	25,460	1,336	1,567	1,416	3,380	26,860	26,860	360,529
February	81,227	1,413	88,168	326	64,790	-315	25,397	1,174	1,500	1,333	4,079	24,054	24,054	293,736
March	79,911	1,352	96,974	346	67,033	-490	25,804	1,192	1,582	1,414	5,159	27,260	27,260	308,155
April	72,770	1,442	91,457	334	59,133	-377	27,344	887	1,492	1,255	6,192	26,777	26,777	289,283
May	84,661	1,333	107,960	361	67,320	-390	30,281	1,143	1,471	1,438	7,004	23,519	23,519	326,681
June	100,872	1,699	122,324	330	69,688	-433	27,816	1,225	1,526	1,370	7,719	24,319	24,319	359,095
July	114,807	1,760	157,967	363	72,456	-644	23,881	1,234	1,530	1,436	6,865	16,005	16,005	398,310
August	114,555	1,754	155,692	393	72,282	-747	21,275	1,185	1,528	1,429	6,900	19,489	19,489	396,235
September	96,122	1,757	134,120	319	64,725	-603	18,546	1,066	1,390	1,388	6,395	17,973	17,973	343,559
9-Month Total	863,077	18,558	1,055,920	3,100	612,076	-4,548	225,804	10,442	13,587	12,477	53,693	206,257	206,257	3,075,585
2017 9-Month Total	912,516	14,488	908,652	3,064	598,637	-4,898	237,864	10,110	13,588	11,838	41,222	180,180	180,180	2,932,558
2016 9-Month Total	926,959	17,616	1,010,631	3,009	608,119	-4,766	207,985	10,168	13,572	11,655	27,232	163,963	163,963	3,001,678

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

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

	Commercial Sector ^a					Industrial Sector ^b							
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass	Total ^g	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^h	Hydroelectric Power ⁱ	Biomass		Total ^k
				Waste ^f							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 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	9	605	212	1,022	793	135	7,653	851	130	2,392	93	12,497
February	45	9	570	192	967	750	121	7,133	763	115	2,217	92	11,597
March	46	4	579	210	1,011	781	102	7,462	837	142	2,266	108	12,117
April	24	6	551	205	961	670	87	7,067	815	128	2,079	106	11,386
May	20	6	607	218	1,019	740	138	7,341	740	119	2,238	106	11,886
June	23	5	692	202	1,089	814	125	7,661	692	99	2,310	76	12,248
July	24	9	831	216	1,263	873	127	8,165	731	104	2,408	90	12,989
August	26	7	859	215	1,298	847	118	8,291	732	92	2,398	89	13,075
September	29	4	700	206	1,114	762	101	7,706	674	65	2,231	76	12,111
October	27	5	617	202	1,021	693	117	7,527	679	88	2,220	86	11,851
November	35	8	521	210	927	630	124	7,514	662	69	2,323	104	11,852
December	42	9	598	208	1,015	750	118	7,678	720	117	2,375	108	12,283
Total	383	82	7,730	2,496	12,706	9,103	1,412	91,197	8,895	1,269	27,458	1,134	145,890
2017 January	41	14	681	213	1,098	720	104	7,907	696	126	2,308	89	12,341
February	32	8	597	188	963	632	98	7,052	668	115	2,118	83	11,142
March	33	10	652	214	1,071	644	120	7,515	702	131	2,239	95	11,868
April	20	5	574	202	976	573	93	7,266	701	146	2,169	88	11,457
May	19	7	619	225	1,069	616	91	7,428	704	155	2,205	80	11,686
June	21	6	718	207	1,135	662	104	7,765	668	124	2,340	73	12,164
July	25	7	786	222	1,227	653	112	8,367	679	115	2,457	79	12,956
August	23	9	766	218	1,202	655	116	8,067	774	93	2,475	82	12,754
September	27	7	701	202	1,107	615	86	7,191	715	75	2,204	72	11,354
October	24	6	661	197	1,079	637	94	7,366	673	84	2,217	85	11,537
November	29	8	611	207	1,020	610	108	7,453	649	121	2,261	91	11,710
December	35	24	674	218	1,114	651	113	8,242	713	99	2,446	95	12,790
Total	329	112	8,042	2,515	13,060	7,669	1,239	91,619	8,343	1,383	27,440	1,012	143,758
2018 January	44	NM	674	199	1,122	744	147	8,134	667	112	2,434	87	12,747
February	31	9	637	179	1,007	664	96	7,208	665	112	2,218	82	11,399
March	26	9	652	199	1,061	676	97	7,313	717	122	2,356	89	11,799
April	22	9	635	190	1,038	591	94	7,355	610	119	2,218	85	11,470
May	19	9	644	195	1,068	632	96	7,506	647	125	2,416	78	11,922
June	21	8	706	193	1,147	615	120	7,797	680	114	2,356	68	12,144
July	25	12	822	194	1,250	639	123	8,277	740	113	2,466	73	12,823
August	30	10	831	196	1,267	633	105	8,430	831	106	2,369	74	12,982
September	29	9	747	179	1,144	592	108	7,878	682	103	2,231	65	12,035
9-Month Total	246	121	6,348	1,725	10,103	5,787	987	69,897	6,239	1,026	21,065	700	109,321
2017 9-Month Total	241	73	6,096	1,893	9,847	5,771	923	68,558	6,308	1,079	20,515	740	107,721
2016 9-Month Total	279	59	5,994	1,876	9,743	7,029	1,054	68,478	6,835	995	20,539	836	109,904

^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 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. NM=Not meaningful.

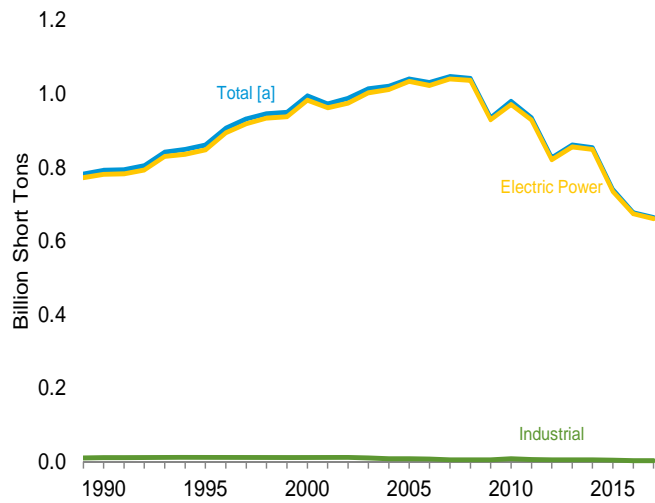
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

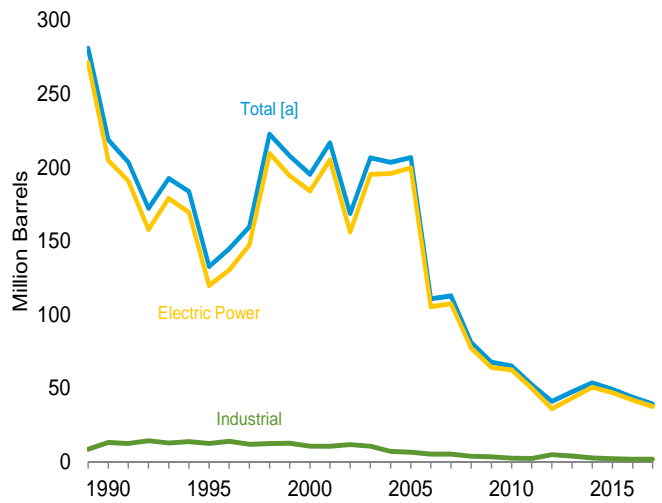
Sources: See end of section.

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation

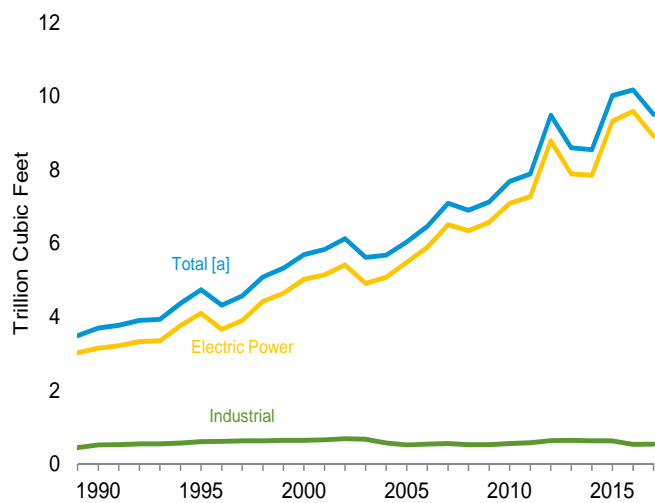
Coal by Sector, 1989–2017



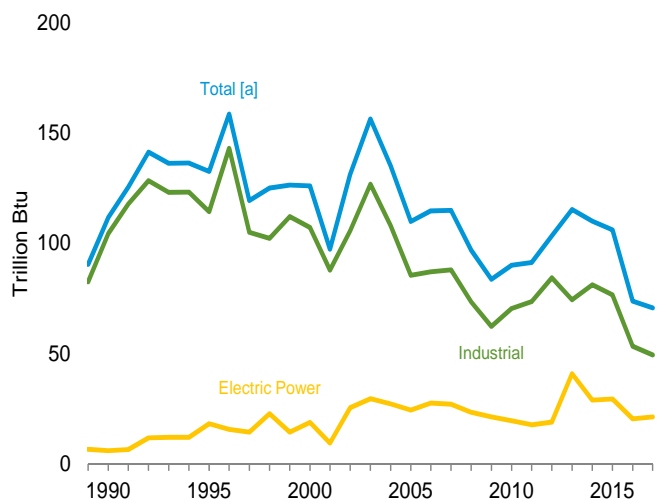
Petroleum by Sector, 1989–2017



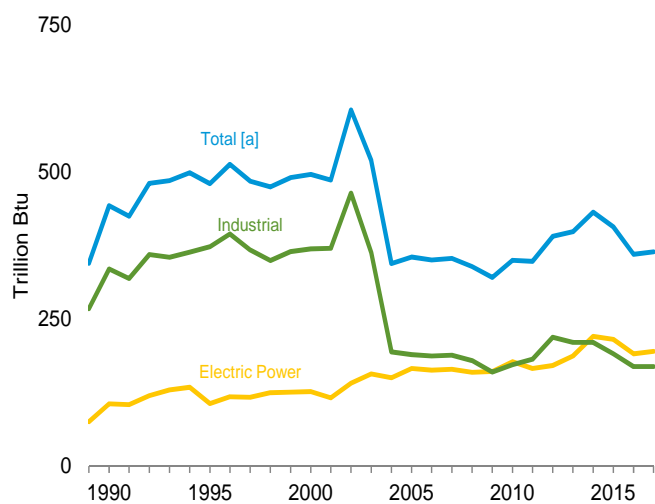
Natural Gas by Sector, 1989–2017



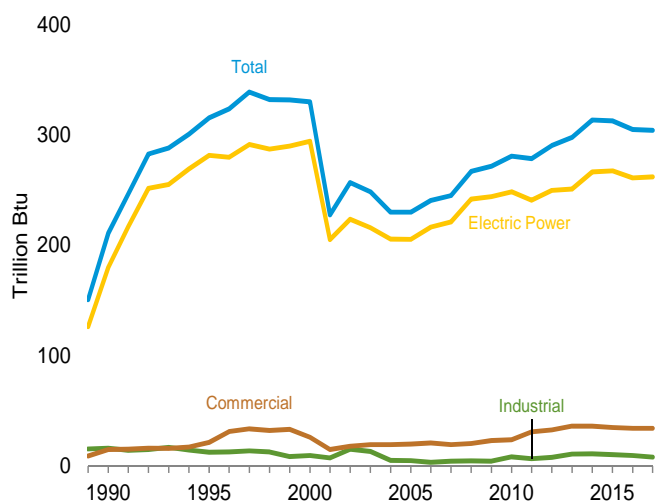
Other Gases [b] by Sector, 1989–2017



Wood by Sector, 1989–2017



Waste by Sector, 1989–2017



[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 Thousand Short Tons	Petroleum					Natural Gas ^f Billion Cubic Feet	Other Gases ^g	Biomass		Other ⁱ
		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	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 Total	739,594	12,438	14,124	2,363	4,044	49,145	10,017	106	407	313	204
2016 January	61,983	1,258	1,049	165	342	4,179	786	7	32	25	17
February	50,516	920	1,131	178	330	3,877	702	6	31	24	15
March	39,864	698	678	119	362	3,306	758	6	30	25	16
April	39,065	644	687	90	382	3,330	735	6	25	26	16
May	45,032	808	752	102	370	3,514	819	6	27	26	17
June	63,186	707	864	123	380	3,594	986	6	30	25	17
July	74,132	810	1,348	129	400	4,289	1,158	6	32	26	18
August	73,798	769	1,274	187	419	4,325	1,168	6	34	26	18
September	62,335	640	856	124	376	3,500	932	6	31	25	17
October	54,537	636	929	64	250	2,879	761	5	28	24	16
November	48,076	830	734	107	307	3,204	679	6	29	26	16
December	64,847	943	893	159	336	3,672	686	6	32	27	17
Total	677,371	9,662	11,195	1,548	4,253	43,671	10,170	74	360	305	199
2017 January	63,460	940	846	151	368	3,775	679	6	31	27	16
February	47,985	714	724	104	277	2,928	587	6	28	24	14
March	48,840	814	738	105	265	2,984	690	6	31	26	16
April	44,279	658	718	103	168	2,317	647	6	27	25	15
May	50,898	808	811	94	329	3,357	720	6	28	26	16
June	58,852	707	908	148	350	3,512	873	6	30	26	16
July	69,769	689	811	93	344	3,312	1,105	6	33	26	17
August	65,761	655	930	124	300	3,211	1,043	6	33	26	17
September	54,713	692	820	110	276	3,004	878	6	29	24	15
October	50,015	731	844	100	228	2,816	792	6	29	24	15
November	50,882	751	711	129	293	3,054	686	6	30	25	15
December	58,457	1,548	1,581	285	292	4,875	806	6	33	26	16
Total	663,911	9,707	10,442	1,547	3,490	39,144	9,508	71	364	304	190
2018 January	64,517	5,152	3,273	618	349	10,788	804	6	32	26	16
February	45,655	578	676	114	275	2,743	717	6	29	25	14
March	44,388	629	666	114	245	2,636	771	6	30	27	16
April	40,554	711	716	102	246	2,757	727	6	26	25	15
May	47,469	839	810	131	161	2,587	872	6	31	25	16
June	56,030	815	898	114	312	3,388	972	6	31	26	16
July	63,805	696	862	131	346	3,420	1,253	6	32	25	16
August	63,710	723	877	145	332	3,404	1,221	7	30	26	16
September	53,945	642	992	142	316	3,356	1,064	6	28	23	14
9-Month Total	480,074	10,785	9,771	1,610	2,583	35,080	8,401	54	269	228	138
2017 9-Month Total	504,557	6,677	7,307	1,033	2,677	28,399	7,223	53	271	229	143
2016 9-Month Total	509,911	7,253	8,639	1,218	3,361	33,915	8,044	57	271	228	150

^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		
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	Other ^j
		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 Total	735,433	12,056	13,893	2,086	3,789	46,978	9,322	29	215	268	127
2016 January	61,714	1,232	1,032	148	318	4,001	738	2	17	22	11
February	50,255	895	1,115	162	310	3,722	657	1	17	21	10
March	39,599	682	665	103	345	3,176	711	2	16	21	10
April	38,852	627	674	74	368	3,216	690	2	13	22	10
May	44,777	790	743	65	348	3,336	772	2	13	22	11
June	62,912	691	855	93	360	3,437	937	2	16	22	11
July	73,840	792	1,337	96	380	4,124	1,104	2	17	22	11
August	73,508	749	1,265	168	398	4,172	1,114	2	19	23	11
September	62,072	622	848	99	360	3,368	883	2	17	21	10
October	54,293	617	917	44	232	2,738	714	1	14	20	10
November	47,848	807	723	90	285	3,047	632	2	15	22	10
December	64,570	917	881	142	315	3,517	638	2	17	23	11
Total	674,239	9,421	11,056	1,284	4,018	41,853	9,590	20	191	261	126
2017 January	63,179	907	832	131	352	3,629	629	2	17	24	11
February	47,731	693	714	81	262	2,797	542	2	16	21	9
March	48,581	789	726	89	245	2,830	642	2	18	22	10
April	44,059	637	707	90	152	2,192	600	2	14	21	9
May	50,667	784	802	77	313	3,227	673	2	14	22	10
June	58,625	686	899	131	330	3,366	823	2	16	22	10
July	69,531	663	804	76	322	3,151	1,051	2	17	22	11
August	65,528	627	922	107	278	3,047	991	2	18	22	11
September	54,487	665	812	94	260	2,870	831	2	15	21	10
October	49,781	709	833	81	210	2,675	744	2	15	21	10
November	50,652	729	691	112	274	2,904	638	2	16	21	10
December	58,212	1,509	1,557	265	275	4,707	754	2	18	22	11
Total	661,033	9,398	10,299	1,332	3,273	37,394	8,917	21	195	262	121
2018 January	64,230	5,069	3,237	594	334	10,569	752	2	18	23	10
February	45,404	557	664	89	264	2,631	671	2	15	22	10
March	44,138	606	654	96	233	2,518	724	2	16	23	10
April	40,337	686	706	84	231	2,630	679	2	12	22	10
May	47,234	809	801	108	148	2,459	824	2	16	22	10
June	55,805	785	883	96	293	3,231	922	2	17	23	11
July	63,569	657	855	92	325	3,230	1,199	2	17	22	11
August	63,479	685	866	131	312	3,240	1,166	2	16	22	11
September	53,725	605	981	133	299	3,211	1,013	2	14	20	10
9-Month Total	477,921	10,459	9,647	1,422	2,438	33,718	7,951	17	141	199	93
2017 9-Month Total	502,388	6,452	7,218	874	2,513	27,109	6,781	16	145	198	91
2016 9-Month Total	507,529	7,080	8,534	1,007	3,186	32,552	7,606	16	145	196	94

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

^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	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	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 Total	163	260	70	35	3,999	1,907	625	77	191	10	58
2016											
January	12	14	3	3	258	164	44	5	14	1	4
February	13	13	3	3	248	142	42	5	14	1	4
March	13	6	3	3	252	124	44	5	14	1	4
April	7	8	3	3	206	106	42	5	13	1	4
May	6	8	4	3	249	170	43	5	14	1	5
June	7	7	4	3	266	151	45	4	14	1	5
July	7	11	5	3	285	154	48	4	15	1	5
August	8	10	5	3	282	143	49	4	15	1	5
September	8	7	4	3	254	125	45	4	14	1	5
October	8	7	4	3	237	135	43	4	14	1	4
November	10	11	3	3	218	146	44	4	14	1	4
December	12	13	4	3	266	142	45	4	15	1	4
Total	111	116	46	34	3,021	1,701	534	53	169	10	53
2017											
January	11	22	4	3	270	124	47	4	14	1	4
February	9	14	4	3	245	117	42	4	13	1	4
March	9	16	4	3	250	139	45	4	14	1	4
April	6	10	4	3	214	115	43	4	13	1	4
May	6	16	4	3	224	114	44	4	14	1	4
June	6	14	4	3	221	132	46	4	14	1	4
July	7	16	5	3	230	145	49	4	15	1	5
August	7	20	5	3	227	143	47	5	15	1	5
September	8	15	4	3	218	119	42	4	13	1	4
October	7	14	4	3	227	127	43	4	14	1	4
November	8	16	4	3	222	135	44	4	14	1	4
December	9	33	4	3	236	134	49	4	15	1	4
Total	95	204	50	34	2,783	1,545	541	49	169	8	49
2018											
January	12	68	4	3	274	151	48	4	15	1	4
February	9	16	4	3	243	96	42	4	13	1	3
March	8	14	4	3	243	104	43	4	14	1	4
April	6	16	4	3	210	111	44	4	14	1	3
May	6	20	4	3	230	108	44	4	15	1	4
June	6	19	4	3	219	138	46	4	14	1	3
July	7	28	5	3	229	163	49	4	15	1	3
August	9	25	5	3	222	140	49	5	14	1	4
September	8	21	5	2	212	125	46	4	13	(s)	3
9-Month Total	71	227	40	24	2,082	1,136	410	37	128	6	31
2017 9-Month Total	70	142	38	26	2,098	1,149	405	37	126	6	38
2016 9-Month Total	81	85	36	26	2,300	1,278	402	41	126	7	40

^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).

(s)=Less than 0.5 trillion Btu.

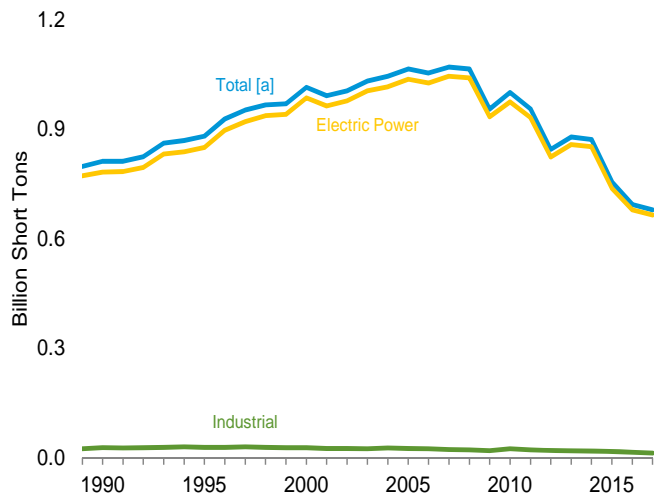
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. •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

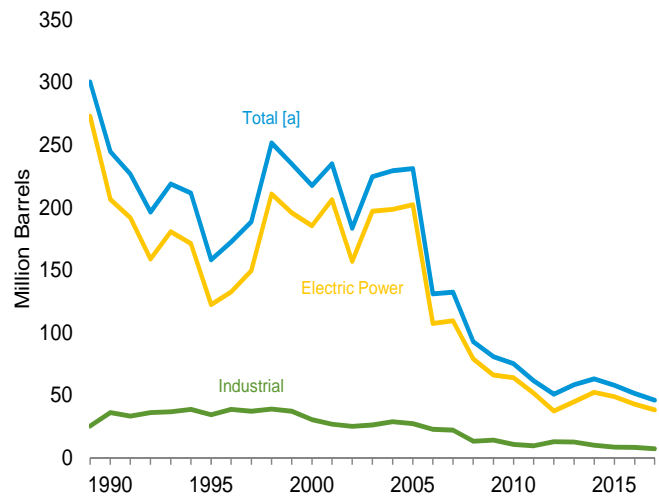
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

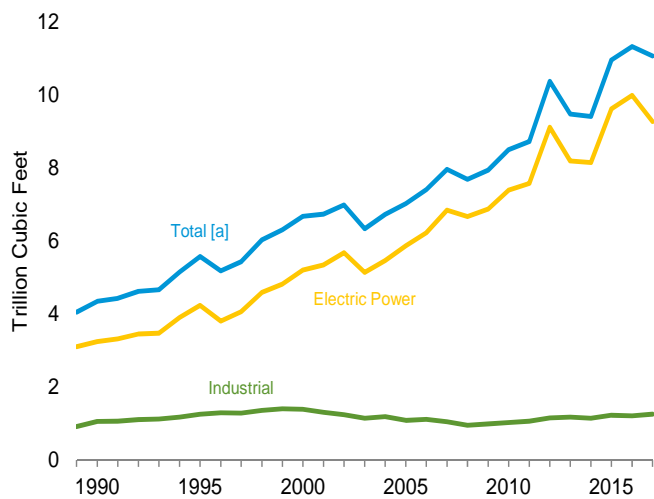
Coal by Sector, 1989–2017



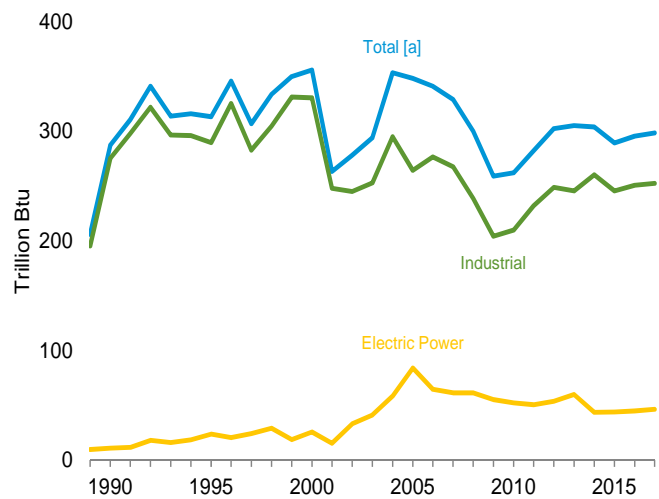
Petroleum by Sector, 1989–2017



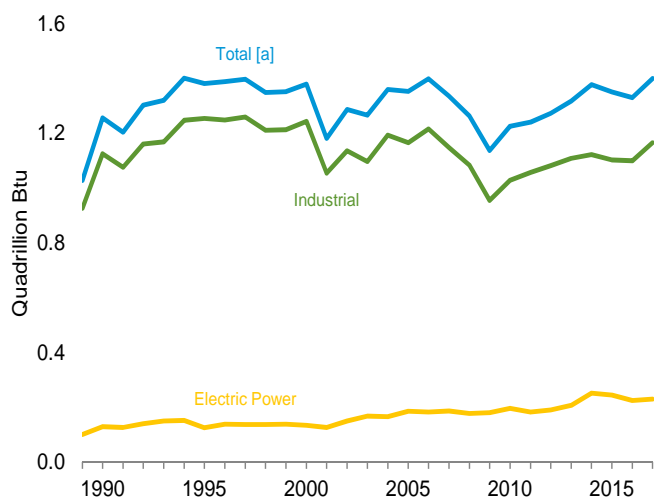
Natural Gas by Sector, 1989–2017



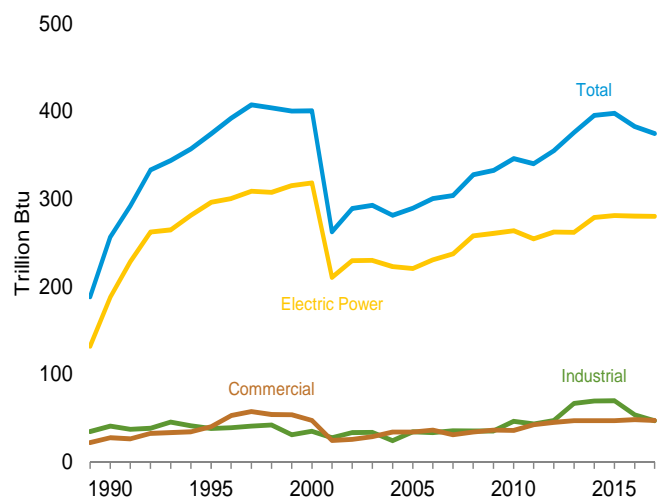
Other Gases [b] by Sector, 1989–2017



Wood by Sector, 1989–2017



Waste by Sector, 1989–2017



[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	Biomass		Other ⁱ
		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 ⁱ 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	1,053,783	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 Total	756,226	12,924	16,136	3,008	5,188	58,009	10,952	290	1,351	398	237
2016 January	63,607	1,303	1,185	215	427	4,840	888	25	116	32	20
February	52,019	1,045	1,263	238	425	4,669	794	23	110	31	18
March	41,297	736	762	175	447	3,910	854	26	110	33	19
April	40,280	681	783	131	455	3,871	823	25	100	33	20
May	46,297	876	818	166	466	4,190	912	25	105	33	20
June	64,539	768	928	179	480	4,274	1,082	25	109	30	20
July	75,604	860	1,426	186	502	4,981	1,260	25	113	31	21
August	75,232	803	1,350	230	520	4,983	1,273	25	115	32	22
September	63,592	674	915	174	451	4,016	1,027	24	106	29	20
October	55,798	674	1,017	112	342	3,514	853	23	104	31	19
November	49,331	877	808	153	406	3,867	769	24	110	33	19
December	66,362	982	977	214	431	4,327	785	26	132	34	20
Total	693,958	10,278	12,231	2,173	5,352	51,441	11,322	296	1,330	383	238
2017 January	64,930	987	943	207	449	4,381	807	26	121	35	19
February	49,183	741	790	148	347	3,412	700	23	108	30	17
March	50,132	846	825	139	355	3,584	814	25	119	33	19
April	45,408	687	787	146	242	2,829	763	24	110	31	18
May	52,034	836	878	136	406	3,881	843	26	112	31	19
June	60,005	726	973	183	441	4,087	1,008	24	116	30	19
July	70,971	710	870	129	430	3,861	1,258	25	122	31	21
August	66,975	678	988	163	390	3,780	1,192	25	124	31	21
September	55,817	723	894	139	352	3,517	1,009	24	111	28	18
October	51,238	758	919	139	314	3,386	919	25	115	30	18
November	52,142	797	873	164	373	3,696	807	25	118	32	18
December	59,743	1,678	1,769	340	368	5,629	945	26	125	33	19
Total	678,578	10,168	11,508	2,033	4,467	46,043	11,067	299	1,400	375	226
2018 January	65,921	5,472	3,578	711	421	11,866	948	26	121	34	18
February	46,922	608	748	161	338	3,206	847	24	112	31	17
March	45,630	673	748	153	307	3,110	907	26	116	34	18
April	41,661	742	790	144	323	3,293	855	24	111	31	17
May	48,566	876	894	174	225	3,069	1,002	24	116	31	18
June	57,119	852	1,037	158	378	3,937	1,105	25	117	30	19
July	64,873	743	928	191	417	3,947	1,394	26	121	30	19
August	64,742	768	991	180	401	3,944	1,363	37	121	30	19
September	55,025	684	1,091	171	389	3,888	1,198	24	110	27	17
9-Month Total	490,458	11,418	10,805	2,043	3,199	40,262	9,618	236	1,043	277	162
2017 9-Month Total	515,455	6,936	7,946	1,390	3,412	33,332	8,395	223	1,042	280	171
2016 9-Month Total	522,467	7,745	9,430	1,693	4,173	39,733	8,915	224	984	284	180

^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	Petroleum					Natural Gas ⁱ	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 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 ^k	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
2003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	140
2004 Total	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	58	165	223	138
2005 Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
2006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
2007 Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 Total	1,040,580	12,547	38,241	2,670	5,119	79,056	6,668	61	177	258	131
2009 Total	933,627	12,035	28,782	2,210	4,611	66,081	6,873	55	180	261	124
2010 Total	975,052	13,790	24,503	1,877	4,777	64,055	7,387	52	196	264	124
2011 Total	932,484	11,021	14,803	1,658	4,837	51,667	7,574	50	182	255	143
2012 Total	823,551	9,080	12,203	1,339	2,974	37,495	9,111	54	190	262	143
2013 Total	857,962	9,598	12,283	1,489	4,285	44,794	8,191	60	207	262	139
2014 Total	851,602	14,235	15,132	2,208	4,132	52,235	8,146	44	251	279	137
2015 Total	738,444	12,193	14,929	2,131	3,907	48,787	9,613	44	244	281	136
2016 January	62,135	1,240	1,058	149	329	4,093	774	4	21	23	12
February	50,661	910	1,143	176	321	3,832	690	3	20	22	11
March	39,948	691	680	111	357	3,265	745	4	19	24	11
April	39,159	631	688	75	376	3,272	719	3	15	24	11
May	45,082	796	757	65	354	3,391	804	3	16	24	12
June	63,250	697	866	94	368	3,499	970	4	18	23	12
July	74,237	797	1,345	97	389	4,186	1,140	4	20	24	12
August	73,890	754	1,277	169	408	4,241	1,151	4	21	24	12
September	62,385	627	859	100	370	3,436	915	4	19	22	11
October	54,621	623	932	45	244	2,818	744	3	16	22	11
November	48,179	813	735	92	295	3,116	662	4	18	24	11
December	65,006	930	901	151	326	3,614	671	4	21	25	12
Total	678,554	9,510	11,242	1,322	4,138	42,763	9,985	45	224	281	139
2017 January	63,595	916	856	147	362	3,728	660	4	20	26	12
February	48,048	697	730	87	272	2,872	569	3	18	22	10
March	48,925	794	733	90	256	2,898	672	4	21	24	11
April	44,358	640	716	90	162	2,255	627	4	17	22	10
May	50,952	789	812	78	324	3,297	700	4	17	24	11
June	58,920	690	910	133	340	3,435	851	4	18	24	11
July	69,882	667	815	77	332	3,220	1,082	4	20	24	12
August	65,883	630	932	109	289	3,118	1,022	4	21	23	12
September	54,780	675	822	95	270	2,942	859	4	18	22	11
October	50,099	713	847	82	221	2,746	773	4	18	22	10
November	51,013	734	707	113	285	2,979	666	4	19	23	11
December	58,538	1,536	1,585	276	286	4,828	785	4	21	24	12
Total	664,993	9,481	10,464	1,375	3,399	38,318	9,266	46	229	280	132
2018 January	64,606	5,140	3,294	622	344	10,778	785	4	20	25	11
February	45,757	561	674	90	273	2,690	701	4	18	23	11
March	44,439	611	664	97	242	2,584	756	4	19	25	11
April	40,600	691	715	86	242	2,700	707	4	15	23	11
May	47,484	817	813	108	155	2,512	853	4	19	23	11
June	56,089	791	895	97	296	3,261	952	4	20	24	12
July	63,851	661	865	93	335	3,293	1,233	4	20	23	12
August	63,750	690	902	132	322	3,333	1,200	5	19	24	12
September	53,997	609	994	133	307	3,270	1,044	4	17	21	10
9-Month Total	480,574	10,571	9,815	1,459	2,516	34,423	8,232	36	166	211	102
2017 9-Month Total	505,344	6,498	7,325	905	2,607	27,765	7,042	34	171	211	100
2016 9-Month Total	510,747	7,144	8,674	1,034	2,673	33,215	7,909	34	170	210	105

^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 Total	798	622	116	47	16,984	8,600	1,222	246	1,103	70	73
2016 January	75	68	11	4	1,397	679	103	22	95	5	6
February	75	49	10	4	1,282	788	95	20	89	5	5
March	74	21	10	4	1,275	624	99	22	90	6	5
April	46	26	9	4	1,076	573	95	22	85	5	6
May	37	22	10	4	1,178	776	98	22	89	5	6
June	46	21	11	4	1,243	754	101	21	91	3	6
July	46	45	13	4	1,321	749	107	21	92	3	6
August	49	28	14	4	1,292	714	108	21	93	4	7
September	50	16	11	4	1,157	564	101	20	86	3	6
October	50	16	10	4	1,126	680	99	20	88	5	6
November	60	47	9	4	1,093	704	99	20	91	5	6
December	75	46	10	4	1,280	667	104	22	111	5	5
Total	683	404	127	48	14,720	8,273	1,209	251	1,100	54	70
2017 January	71	68	40	4	1,264	584	107	22	100	5	5
February	58	43	35	4	1,077	496	97	20	89	4	5
March	66	50	39	4	1,141	637	103	21	98	5	5
April	42	24	37	4	1,008	550	99	20	93	4	5
May	39	34	42	4	1,043	550	102	22	95	3	5
June	40	27	53	4	1,045	625	104	20	97	3	6
July	47	30	64	4	1,042	611	112	21	101	3	6
August	43	45	61	4	1,050	618	109	22	102	3	6
September	45	35	47	4	991	539	103	20	92	3	5
October	42	33	43	4	1,098	607	104	21	97	4	5
November	52	38	37	4	1,077	679	104	21	98	5	5
December	66	88	46	4	1,139	713	115	22	103	5	5
Total	610	516	544	48	12,975	7,209	1,257	253	1,166	47	65
2018 January	70	186	48	4	1,245	902	115	22	100	5	5
February	54	50	44	4	1,111	466	102	20	93	4	4
March	51	44	44	4	1,140	482	107	22	97	5	5
April	45	38	43	4	1,015	555	104	20	95	5	4
May	41	37	44	4	1,041	520	104	20	97	4	5
June	42	36	45	4	988	640	107	21	96	3	5
July	47	58	49	4	975	596	112	22	100	3	4
August	49	50	49	4	943	561	114	32	101	3	5
September	51	42	46	3	977	576	108	21	93	3	4
9-Month Total	449	539	413	33	9,434	5,300	973	201	873	33	41
2017 9-Month Total	451	356	418	36	9,661	5,211	935	189	868	33	49
2016 9-Month Total	498	296	98	36	11,221	6,222	908	190	810	38	53

^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 symfuel.

^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).

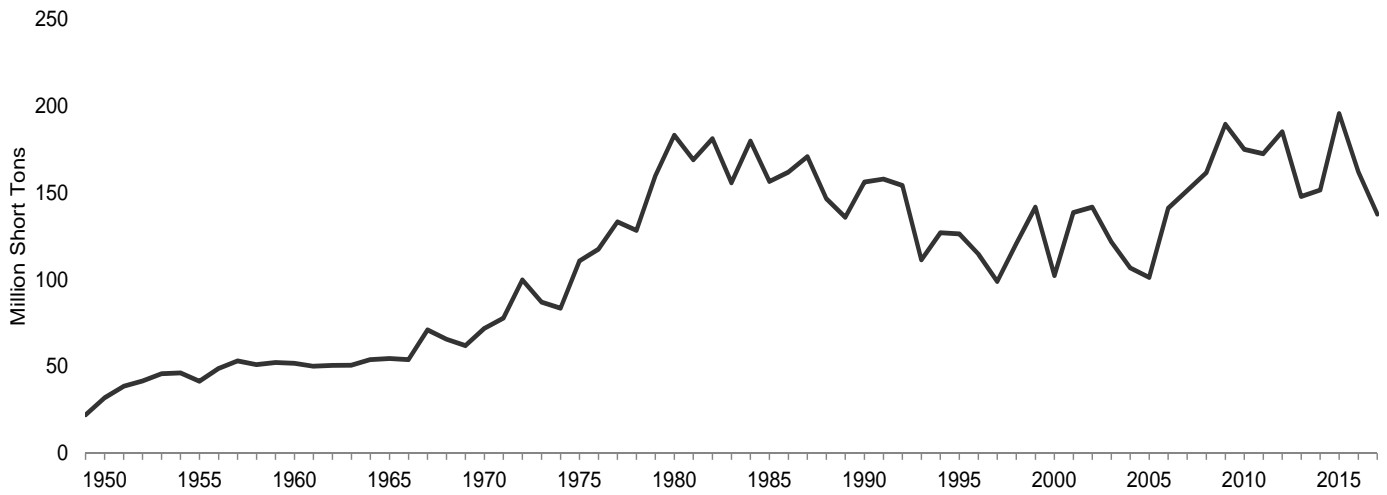
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

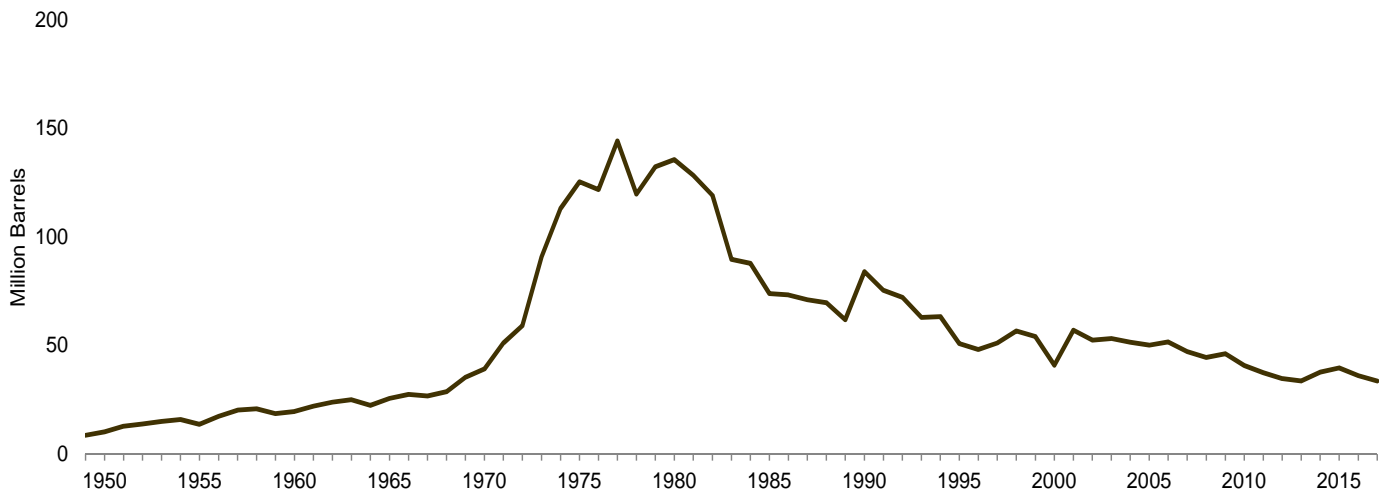
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

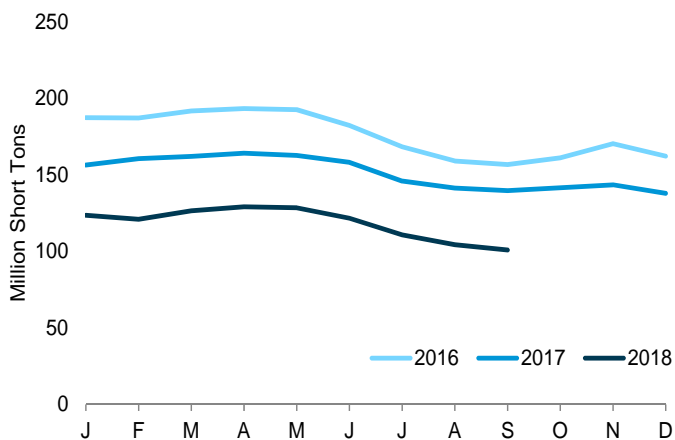
Coal, 1949–2017



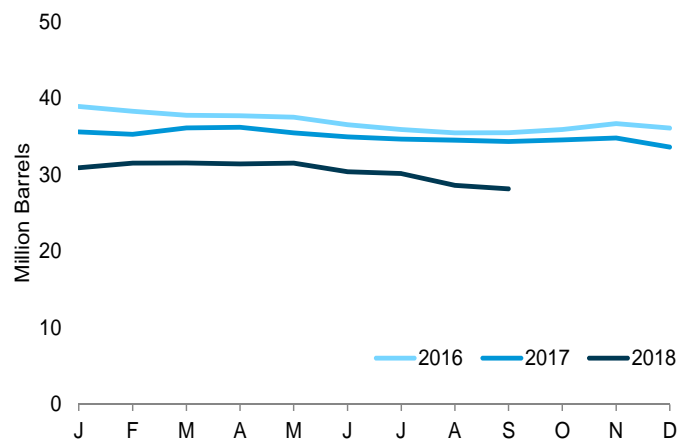
Total Petroleum, 1949–2017



Coal, Monthly



Total Petroleum, Monthly



Note: Data are for utility-sale 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 ^a	Petroleum				Total ^{e,f}
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	
	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	17,866	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 Year	195,548	17,955	12,566	2,363	1,340	39,586
2016 January	187,203	17,930	12,020	2,357	1,320	38,907
February	187,064	17,662	11,645	2,337	1,323	38,262
March	191,553	17,501	11,733	2,335	1,240	37,768
April	193,185	17,637	11,982	2,169	1,181	37,693
May	192,417	17,856	12,094	2,189	1,071	37,495
June	182,086	17,859	11,936	2,197	905	36,519
July	168,119	17,726	11,696	2,183	858	35,897
August	158,908	17,820	11,595	2,150	780	35,464
September	156,567	17,852	11,640	2,145	768	35,476
October	160,932	18,017	11,630	2,184	813	35,893
November	170,277	18,324	11,953	2,227	833	36,668
December	162,009	17,855	11,789	2,195	845	36,064
2017 January	156,214	17,718	11,858	2,186	768	35,601
February	160,502	17,588	11,744	2,168	756	35,277
March	161,815	17,336	12,681	2,157	785	36,099
April	163,937	17,362	12,439	2,168	844	36,187
May	162,542	17,265	12,170	2,143	772	35,439
June	158,014	17,082	11,993	2,133	742	34,916
July	145,811	17,150	11,740	2,143	724	34,655
August	141,204	17,091	11,531	2,129	749	34,497
September	139,571	16,844	11,382	2,120	798	34,334
October	141,463	16,806	11,292	2,128	862	34,537
November	143,424	16,980	11,381	2,140	859	34,796
December	137,687	16,356	10,930	2,008	864	33,612
2018 January	123,513	14,535	9,722	1,813	967	30,906
February	120,858	14,806	10,184	1,851	934	31,509
March	126,407	14,766	10,146	1,854	953	31,529
April	128,964	14,724	10,074	1,858	947	31,390
May	128,363	14,858	9,970	1,925	948	31,495
June	121,448	14,573	9,913	1,823	817	30,392
July	110,731	14,531	9,412	1,787	884	30,150
August	104,138	14,145	8,709	1,718	809	28,616
September	100,717	14,215	8,477	1,710	749	28,146

^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.

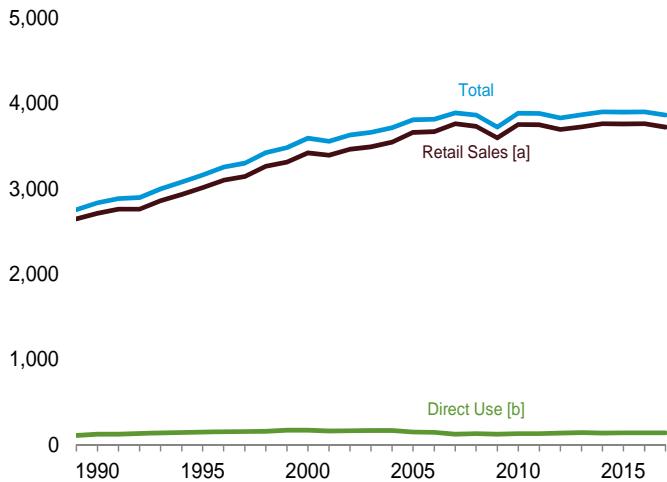
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

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."

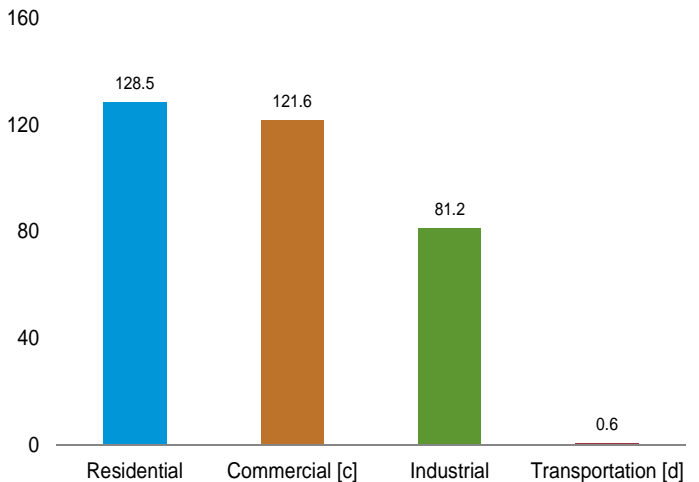
Figure 7.6 Electricity End Use

(Billion Kilowatthours)

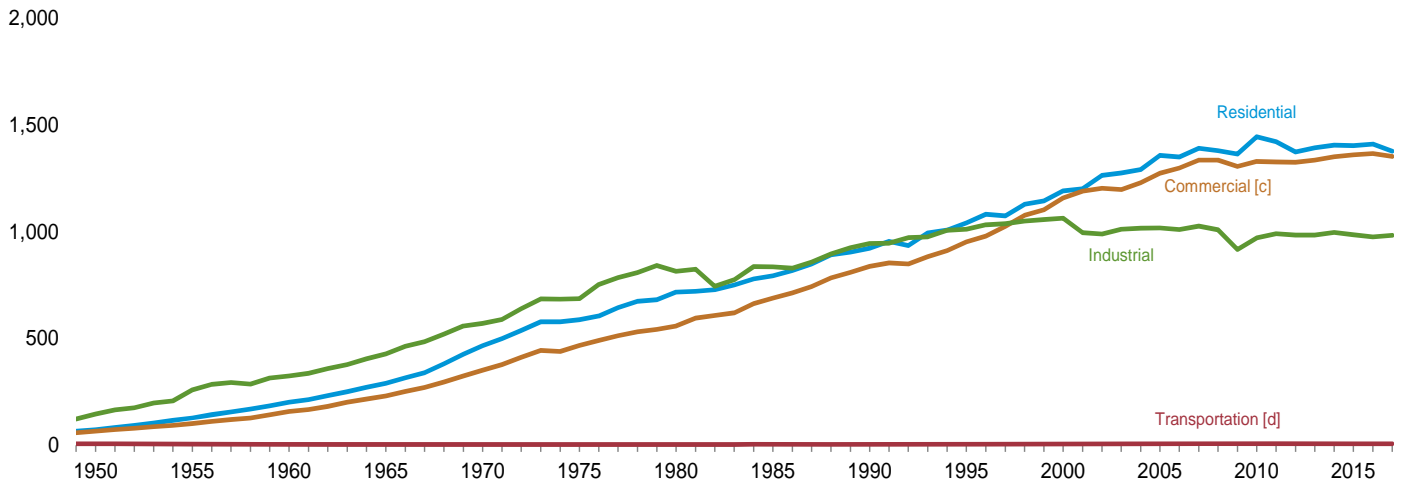
Electricity End Use Overview, 1989–2017



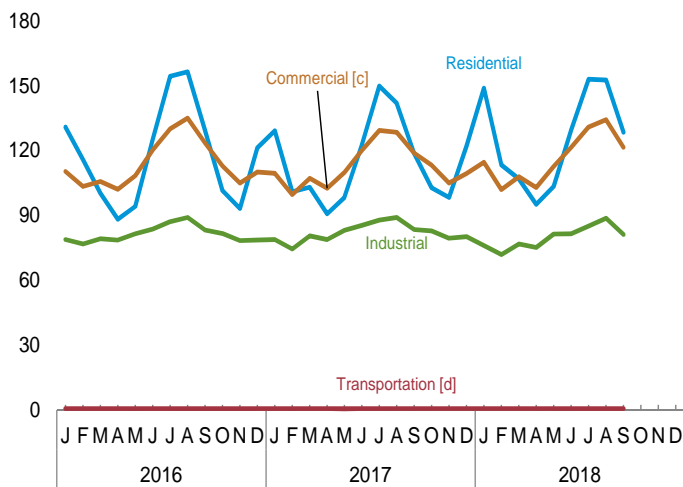
Retail Sales [a] by Sector, September 2018



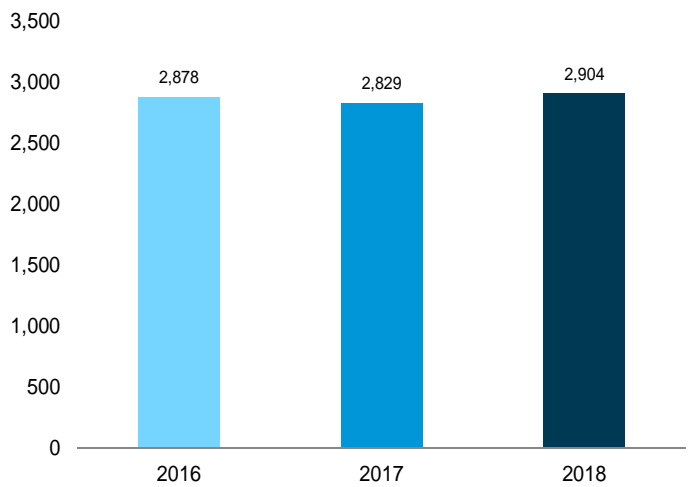
Retail Sales [a] by Sector, 1949–2017



Retail Sales [a] by Sector, Monthly



Retail Sales [a] Total, January–September



[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, inter-

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	1,359,446	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 Total	1,404,096	1,360,752	986,508	7,637	3,758,992	141,168	3,900,160
2016 January	130,972	110,410	78,848	660	320,890	E 11,921	332,811
February	115,959	103,452	76,748	646	296,806	E 11,078	307,884
March	100,227	105,739	79,237	609	285,812	E 11,576	297,388
April	88,244	102,045	78,647	595	269,531	E 10,886	280,418
May	94,198	108,437	81,491	581	284,708	E 11,379	296,087
June	125,211	120,363	83,672	631	329,878	E 11,759	341,637
July	154,409	130,038	87,076	648	372,172	E 12,567	384,739
August	156,442	135,019	89,101	631	381,192	E 12,673	393,865
September	129,363	123,493	83,259	637	336,752	E 11,661	348,413
October	101,508	112,963	81,597	613	296,681	E 11,350	308,031
November	93,244	105,060	78,421	592	277,317	E 11,268	288,585
December	121,281	110,172	78,616	653	310,722	E 11,726	322,448
Total	1,411,058	1,367,191	976,715	7,497	3,762,462	139,844	3,902,306
2017 January	129,212	109,527	78,809	667	318,215	E 12,093	330,308
February	100,968	99,675	74,534	635	275,813	E 10,892	286,705
March	103,096	107,209	80,530	645	291,479	E 11,643	303,123
April	90,725	102,625	78,899	589	272,837	E 11,188	284,025
May	98,281	109,910	83,134	583	291,908	E 11,478	303,386
June	122,543	120,054	85,399	628	328,624	E 11,967	340,591
July	149,900	129,323	87,806	630	367,659	E 12,763	380,422
August	142,007	128,527	89,134	640	360,309	E 12,558	372,867
September	118,779	118,831	83,540	618	321,768	E 11,213	332,981
October	102,811	113,326	82,815	626	299,578	E 11,353	310,931
November	98,321	105,009	79,456	598	283,383	E 11,455	294,838
December	122,005	109,342	80,242	664	312,252	E 12,512	324,764
Total	1,378,648	1,353,358	984,298	7,523	3,723,826	141,114	3,864,941
2018 January	148,978	114,634	76,059	751	340,422	E 12,480	352,902
February	113,383	102,018	71,946	643	287,990	E 11,164	299,153
March	106,939	107,902	76,810	625	292,276	E 11,572	303,848
April	95,128	102,940	75,241	608	273,917	E 11,255	285,172
May	103,453	112,622	81,461	591	298,126	E 11,689	309,815
June	129,478	121,597	81,528	628	333,231	E 11,960	345,191
July	153,071	130,955	85,094	640	369,759	E 12,663	382,422
August	152,636	134,333	88,761	686	376,416	E 12,822	389,239
September	128,458	121,600	81,216	648	331,923	E 11,860	343,782
9-Month Total	1,131,523	1,048,601	718,115	5,821	2,904,060	E 107,465	3,011,525
2017 9-Month Total	1,055,512	1,025,681	741,785	5,635	2,828,613	E 105,795	2,934,408
2016 9-Month Total	1,095,025	1,038,997	738,080	5,640	2,877,742	E 105,500	2,983,242

^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.

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 2011–2015: National Energy Board of Canada; California Independent System Operator; and EIA estimates for Texas transfers.

2016 forward: EIA, Form EIA-111, "Quarterly Electricity Imports and Exports Report"; and for forecast values, EIA Short-Term Integrated Forecasting System (STIFS).

T&D Losses and Unaccounted for

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

End Use

1949 forward: Table 7.6.

Table 7.2b Sources

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

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

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

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

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

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

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

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

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1949–1988

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

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

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

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

All Data, 1989 Forward

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

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

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

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

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

Table 7.3b Sources

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

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

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

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

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

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

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

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

Table 7.4b Sources

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

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

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

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

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

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

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

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

Table 7.6 Sources

Retail Sales, Residential and Industrial

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

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

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

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

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

2004 forward: EIA, *Electric Power Monthly (EPM)*, November 2018, 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, November 2018, 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, November 2018, 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."

2001–2017: EIA, *Electric Power Annual 2017*, October 2018, Table 2.2.

2018: 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 2018, the 2017 annual share is used.