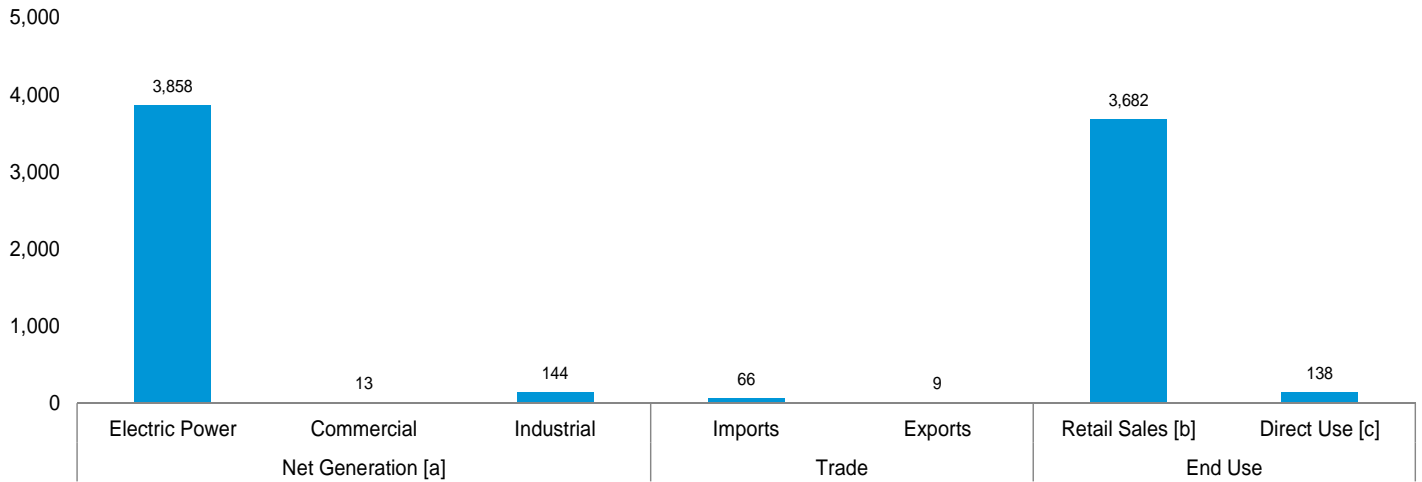


7. Electricity

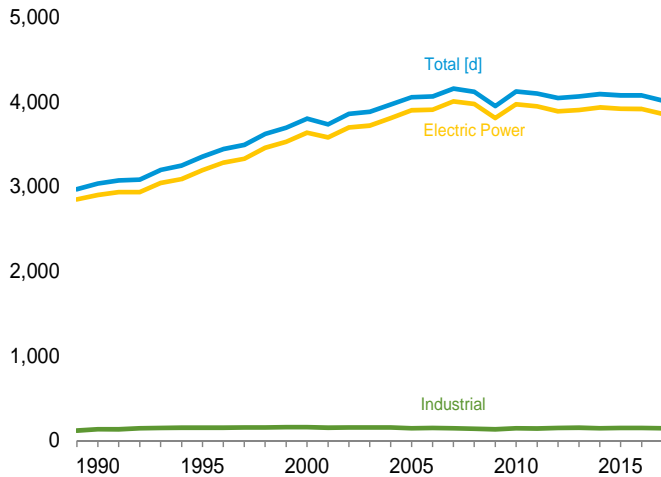
Figure 7.1 Electricity Overview

(Billion Kilowatthours)

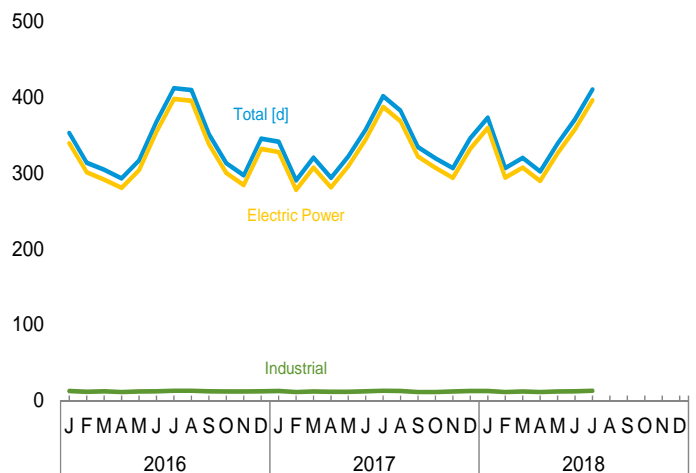
Overview, 2017



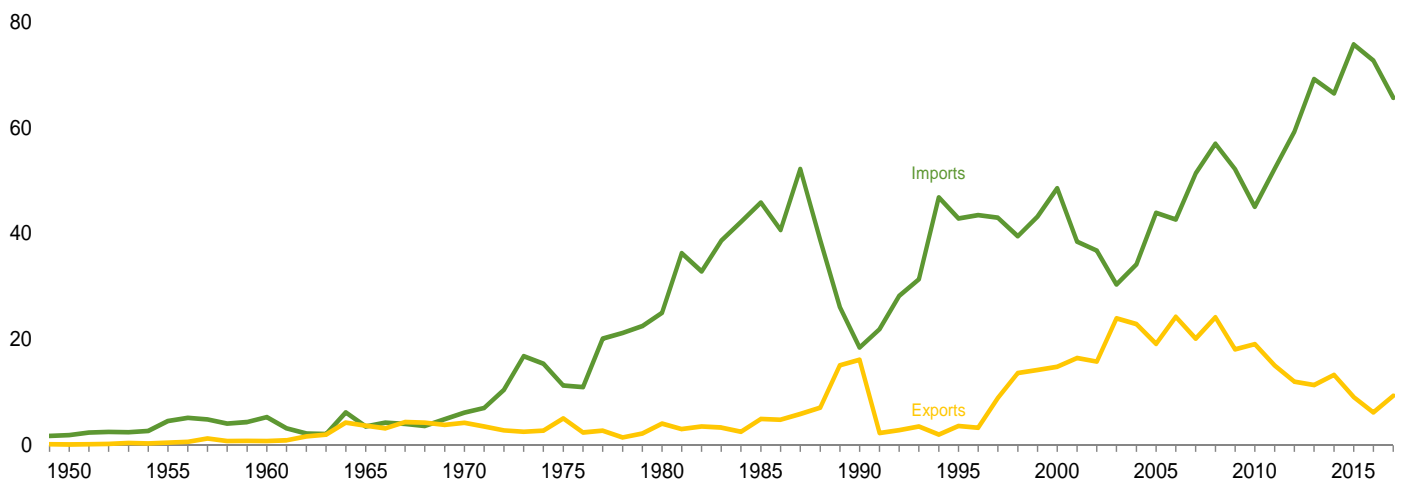
Net Generation [a] by Sector, 1989–2017



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	328	1	12	342	7	(s)	7	21	315	^E 12	327
February	278	1	11	290	6	1	5	11	274	^E 11	284
March	307	1	12	320	6	1	5	25	289	^E 12	300
April	281	1	12	294	6	1	4	18	269	^E 11	280
May	309	1	12	322	5	1	4	25	290	^E 11	301
June	344	1	12	357	6	1	5	27	324	^E 12	336
July	387	1	13	402	6	1	5	32	362	^E 12	375
August	368	1	13	382	7	1	6	19	357	^E 12	369
September	322	1	11	334	5	1	5	9	319	^E 11	330
October	307	1	11	319	4	1	3	16	296	^E 11	307
November	294	1	12	307	4	1	3	19	280	^E 11	291
December	332	1	13	346	5	1	4	30	308	^E 12	320
Total	3,858	13	144	4,015	66	9	56	251	3,682	^E 138	3,820
2018 January	359	1	13	373	5	1	4	25	340	^E 12	352
February	294	1	11	306	5	1	4	^R 11	288	^E 11	299
March	307	1	12	320	^R 6	1	4	^R 23	290	^E 11	302
April	290	1	11	302	5	^R 2	^R 3	^R 20	274	^E 11	285
May	326	1	12	339	5	1	^R 4	^R 34	297	^E 11	309
June	358	1	12	371	^R 5	1	^R 4	^R 30	333	^E 12	345
July	396	1	13	410	^F 6	^F 1	^F 6	34	369	^E 12	382
7-Month Total	2,331	7	84	2,422	^E 37	^E 8	^E 29	178	2,192	^E 81	2,273
2017 7-Month Total	2,235	7	84	2,326	41	6	36	159	2,123	^E 81	2,204
2016 7-Month Total	2,268	7	85	2,360	42	4	39	158	2,160	^E 81	2,241

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

^b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

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

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

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

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

^g Data collection frame differences and nonsampling error.

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

in 1996, other energy service providers.

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

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

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

• Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 3, "Electricity Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

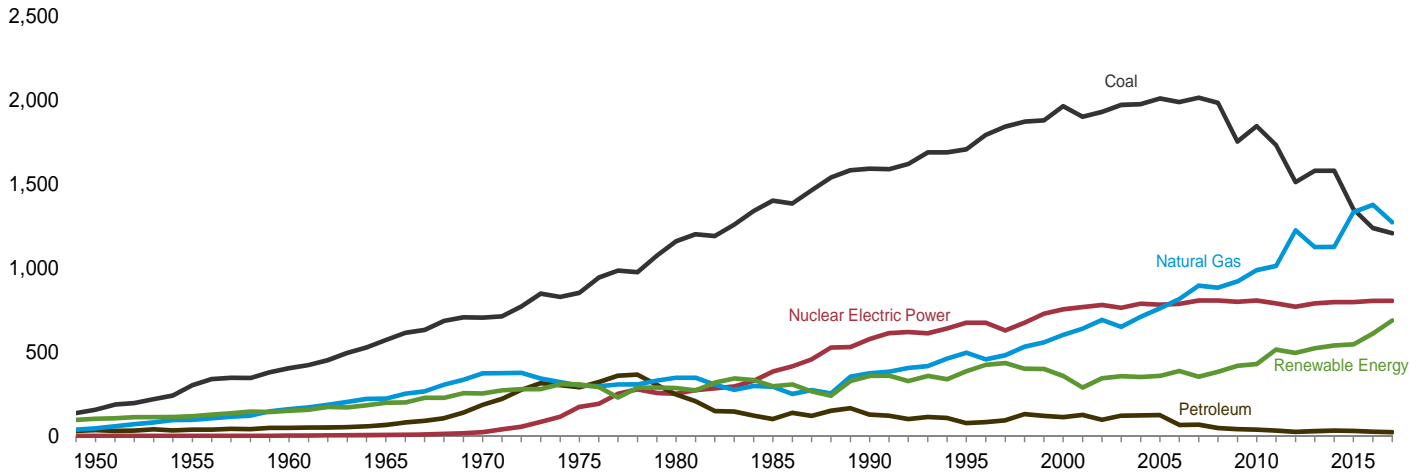
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

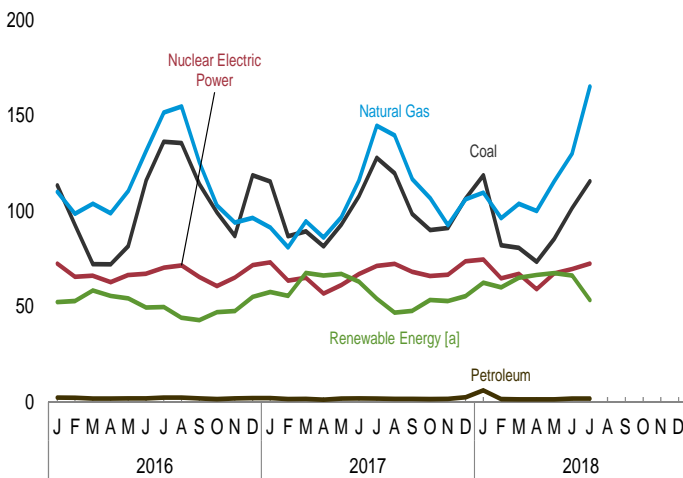
Figure 7.2 Electricity Net Generation

(Billion Kilowatthours)

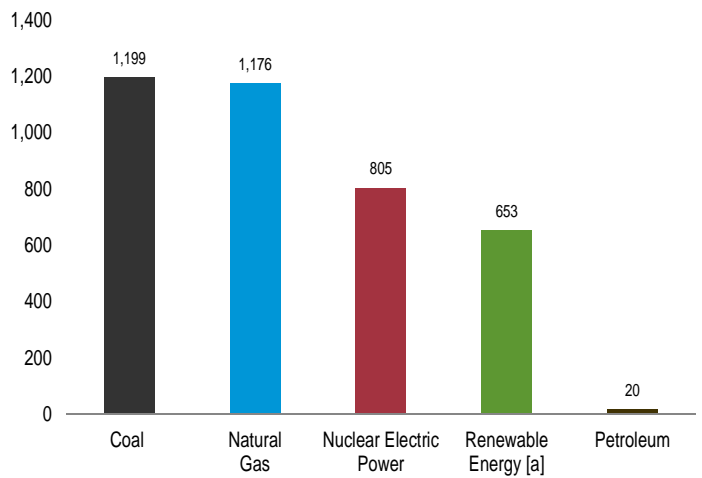
Total (All Sectors), Major Sources, 1949–2017



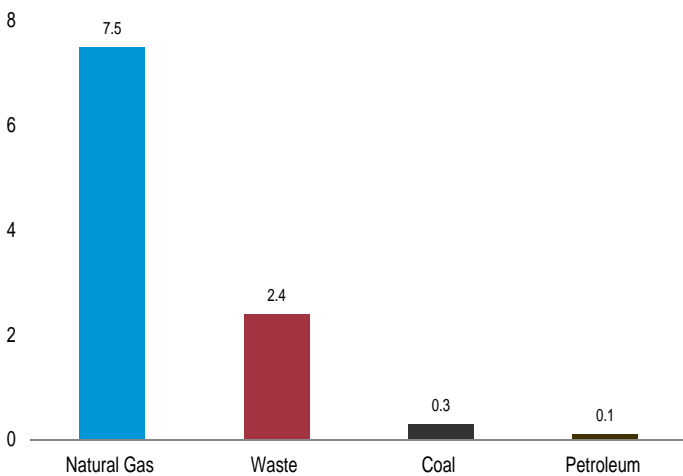
Total (All Sectors), Major Sources, Monthly



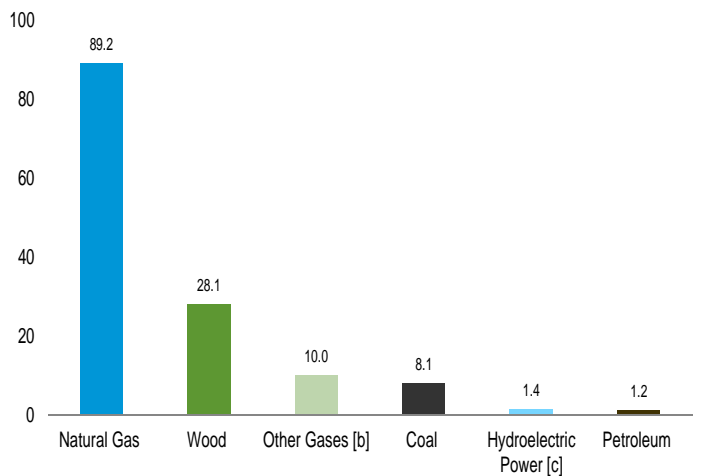
Electric Power Sector, Major Sources, 2017



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 ^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)	100,885	390	NA	NA	NA	NA	NA	334,088
1955 Total	301,363	37,138	95,285	NA	0	(f)	116,236	276	NA	NA	NA	NA	NA	550,299
1960 Total	403,067	47,987	157,970	NA	518	(f)	149,440	140	NA	33	NA	NA	NA	759,156
1965 Total	570,926	64,801	221,559	NA	3,657	(f)	196,984	269	NA	189	NA	NA	NA	1,058,386
1970 Total	704,394	184,183	372,890	NA	21,804	(f)	250,957	136	220	525	NA	NA	NA	1,535,111
1975 Total	852,786	289,095	299,778	NA	172,505	(f)	303,153	18	174	3,246	NA	NA	NA	1,920,755
1980 Total	1,161,562	245,994	346,240	NA	251,116	(f)	279,182	275	158	5,073	NA	NA	NA	2,289,600
1985 Total	1,402,128	100,202	291,946	NA	383,691	(f)	284,311	743	640	9,325	11	6	2,473,002	
1990 Total ^k	1,594,011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,827	
1995 Total	1,709,426	74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,487	
2000 Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105	
2001 Total	1,903,956	124,880	639,129	9,039	768,826	-8,823	216,961	35,200	14,548	13,741	543	6,737	3,736,644	
2002 Total	1,933,130	94,567	691,006	11,463	780,064	-8,743	264,329	38,665	15,044	14,491	555	10,354	3,858,452	
2003 Total	1,973,737	119,406	649,908	15,600	763,733	-8,535	275,806	37,529	15,812	14,424	534	11,187	3,983,185	
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	115,501	2,074	91,447	1,120	73,121	-435	27,853	3,589	1,863	1,399	2,152	20,749	341,518	
February	86,873	1,592	81,040	1,191	63,560	-508	24,542	3,405	1,647	1,241	2,497	22,228	290,297	
March	89,427	1,686	94,708	1,257	65,093	-521	30,221	3,662	1,760	1,380	4,433	26,133	320,291	
April	81,533	1,288	86,178	1,157	56,743	-439	29,320	3,373	1,671	1,357	4,774	25,753	293,752	
May	92,881	1,774	96,777	1,182	61,313	-423	32,177	3,438	1,743	1,295	5,766	22,642	321,645	
June	107,728	1,880	116,061	1,211	67,011	-568	30,424	3,625	1,695	1,265	6,252	19,711	357,390	
July	127,959	1,747	144,720	1,261	71,314	-759	25,745	3,922	1,760	1,368	5,505	15,765	401,510	
August	119,780	1,724	139,610	1,321	72,384	-638	21,241	3,880	1,775	1,357	5,401	13,089	382,140	
September	98,404	1,665	116,728	1,120	68,098	-606	18,965	3,404	1,649	1,325	5,168	17,268	334,219	
October	90,087	1,533	106,867	1,014	65,995	-463	17,211	3,569	1,693	1,261	4,830	24,821	319,443	
November	91,151	1,616	92,585	1,198	66,618	-478	19,840	3,560	1,721	1,334	3,120	23,320	306,660	
December	106,578	2,513	106,144	1,127	73,700	-656	22,507	3,859	1,795	1,393	3,059	22,776	345,939	
Total	1,207,901	21,091	1,272,864	14,159	804,950	-6,495	300,045	43,284	20,773	15,976	52,958	254,254	4,014,804	
2018 January	118,696	6,135	109,601	1,060	74,649	-547	25,422	3,847	1,767	1,373	3,262	26,834	373,213	
February	82,051	1,509	96,317	1,092	64,790	-315	25,593	3,461	1,686	1,303	4,037	23,936	306,458	
March	80,691	1,414	103,884	1,193	67,033	-490	25,887	3,630	1,806	1,385	5,099	27,275	319,917	
April	73,489	1,446	100,004	976	59,087	-377	27,615	3,163	1,709	1,212	6,111	26,757	302,229	
May	85,403	1,450	115,639	1,045	67,320	-390	30,291	3,637	1,679	1,409	7,091	23,405	339,056	
June	101,584	1,828	130,004	1,111	69,688	-433	27,415	3,648	1,706	1,336	7,815	24,411	371,221	
July	115,565	1,850	165,196	1,236	72,456	-644	23,706	3,789	1,716	1,397	6,869	15,897	410,148	
7-Month Total	657,477	15,633	820,646	7,714	475,023	-3,197	185,930	25,174	12,069	9,414	40,285	168,514	2,422,243	
2017 7-Month Total	701,901	12,040	710,930	8,378	458,155	-3,653	200,281	25,013	12,140	9,306	31,379	152,980	2,326,404	
2016 7-Month Total	684,495	14,467	804,741	7,759	471,145	-3,148	173,200	23,635	12,667	9,004	20,068	134,113	2,360,140	

^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 ⁱ	
	Coal ^a	Petroleum ^b	Natural Gas ^c	Other Gases ^d			Conven- tional 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	329,141
1955 Total	301,363	37,138	95,285	NA	0	(f)	112,975	276	NA	NA	NA	NA	547,038
1960 Total	403,067	47,987	157,970	NA	518	(f)	145,833	140	NA	33	NA	NA	755,549
1965 Total	570,926	64,801	221,559	NA	3,657	(f)	193,851	269	NA	189	NA	NA	1,055,252
1970 Total	704,394	184,183	372,890	NA	21,804	(f)	247,714	136	220	525	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	1,917,649
1980 Total	1,161,562	245,994	346,240	NA	251,116	(f)	276,021	275	158	5,073	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	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	2,901,322
1995 Total	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,194,230
2000 Total	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529
2001 Total	1,882,826	119,149	554,940	586	768,826	-8,823	213,749	8,294	12,944	13,741	543	6,737	3,580,053
2002 Total	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	13,145	14,491	555	10,354	3,698,458
2003 Total	1,952,714	113,697	567,303	2,647	763,733	-8,535	271,512	9,528	13,808	14,424	534	11,187	3,721,159
2004 Total	1,957,188	114,678	627,172	3,568	788,528	-8,488	265,064	9,736	13,062	14,811	575	14,144	3,808,360
2005 Total	1,992,054	116,482	683,829	3,777	781,986	-6,558	267,040	10,570	13,031	14,692	550	17,811	3,902,192
2006 Total	1,969,737	59,708	734,417	4,254	787,219	-6,558	286,254	10,341	13,927	14,568	508	26,589	3,908,077
2007 Total	1,998,390	61,306	814,752	4,042	806,425	-6,896	245,843	10,711	14,294	14,637	612	34,450	4,005,343
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	3,974,349
2009 Total	1,741,123	35,811	841,006	3,058	798,855	-4,627	271,506	10,738	15,954	15,009	891	73,886	3,809,837
2010 Total	1,827,738	34,679	901,389	2,967	806,968	-5,501	258,455	11,446	16,376	15,219	1,206	94,636	3,972,386
2011 Total	1,717,891	28,202	926,290	2,939	790,204	-6,421	317,531	10,733	15,989	15,316	1,727	120,121	3,948,186
2012 Total	1,500,557	20,072	1,132,791	2,984	769,331	-4,950	273,859	11,050	16,555	15,562	4,164	140,749	3,890,358
2013 Total	1,567,722	24,510	1,028,949	4,322	789,016	-4,681	265,058	12,302	16,918	15,775	8,724	167,742	3,903,715
2014 Total	1,568,774	28,043	1,033,172	3,358	797,166	-6,174	258,046	15,027	17,602	15,877	17,304	181,496	3,937,003
2015 Total	1,340,993	26,505	1,237,656	3,715	797,178	-5,091	247,636	14,563	17,823	15,918	24,456	190,547	3,919,294
2016 January	112,624	2,217	101,786	344	72,525	-312	25,464	1,202	1,490	1,332	1,458	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	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	291,262
April	71,419	1,745	91,257	317	62,732	-452	25,735	883	1,501	1,209	2,831	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	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	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	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	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	338,260
October	98,474	1,450	94,754	234	60,733	-561	17,229	952	1,406	1,353	3,147	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	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	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	3,918,078
2017 January	114,703	1,961	82,914	351	73,121	-435	27,707	1,209	1,569	1,399	2,128	20,732	327,977
February	86,179	1,493	73,522	336	63,560	-508	24,409	1,143	1,380	1,241	2,469	22,211	277,981
March	88,726	1,561	86,697	373	65,093	-521	30,069	1,311	1,464	1,380	4,381	26,109	307,195
April	80,921	1,199	78,475	300	56,743	-439	29,170	1,107	1,392	1,357	4,721	25,731	281,222
May	92,224	1,655	88,942	347	61,313	-423	32,015	1,198	1,455	1,295	5,698	22,622	308,920
June	106,998	1,763	107,928	344	67,011	-568	30,275	1,288	1,430	1,265	6,174	19,694	344,188
July	127,232	1,618	136,039	377	71,314	-759	25,604	1,391	1,478	1,368	5,435	15,752	387,462
August	119,052	1,608	131,278	370	72,384	-638	21,115	1,358	1,490	1,357	5,334	13,078	368,413
September	97,726	1,568	109,084	333	68,098	-606	18,852	1,187	1,386	1,325	5,103	17,253	321,859
October	89,384	1,444	99,152	316	65,995	-463	17,096	1,306	1,412	1,261	4,771	24,799	307,032
November	90,490	1,495	84,628	364	66,618	-478	19,706	1,272	1,435	1,334	3,085	23,300	293,828
December	105,857	2,398	97,506	368	73,700	-656	22,370	1,335	1,495	1,393	3,027	22,757	332,180
Total	1,199,492	19,764	1,176,165	4,177	804,950	-6,495	298,388	15,106	17,386	15,976	52,326	254,039	3,858,258
2018 January	117,898	5,978	100,994	330	74,649	-547	25,286	1,379	1,484	1,373	3,229	26,811	359,483
February	81,358	1,413	88,659	330	64,790	-315	25,457	1,215	1,429	1,303	3,994	23,914	294,131
March	79,984	1,304	96,118	354	67,033	-490	25,740	1,248	1,519	1,385	5,047	27,249	307,104
April	72,869	1,338	92,201	334	59,087	-377	27,469	920	1,431	1,212	6,045	26,733	289,832
May	84,753	1,353	107,653	373	67,320	-390	30,139	1,188	1,407	1,409	7,012	23,381	326,172
June	100,952	1,706	121,670	336	69,688	-433	27,277	1,265	1,445	1,336	7,717	24,387	357,980
July	114,899	1,732	156,302	373	72,456	-644	23,573	1,288	1,448	1,397	6,789	15,879	396,135
7-Month Total	652,713	14,824	763,597	2,429	475,023	-3,197	184,941	8,504	10,161	9,414	39,833	168,355	2,330,838
2017 7-Month Total	696,984	11,251	654,517	2,426	458,155	-3,653	199,249	8,64					

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

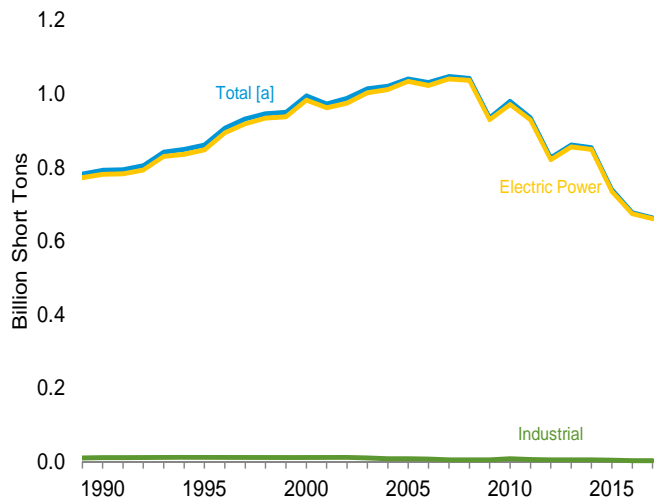
	Commercial Sector ^a					Industrial Sector ^b							
	Coal ^c	Petroleum ^d	Natural Gas ^e	Biomass	Total ^g	Coal ^c	Petroleum ^d	Natural Gas ^e	Other Gases ^h	Hydroelectric Power ⁱ	Biomass		Total ^k
				Waste ^f							Wood ^j	Waste ^l	
1950 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,946	NA	NA	4,946
1955 Total	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	7,905	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	15	648	204	1,057	757	98	7,885	769	123	2,372	90	12,484
February	32	8	566	185	934	662	90	6,952	855	112	2,254	82	11,381
March	32	11	638	205	1,066	669	114	7,372	885	127	2,349	91	12,030
April	19	6	532	194	934	593	82	7,171	857	124	2,261	85	11,596
May	19	8	583	212	1,036	637	111	7,252	835	135	2,233	76	11,689
June	23	7	645	198	1,075	706	110	7,489	867	124	2,330	68	12,127
July	29	8	703	210	1,150	699	120	7,977	884	121	2,524	72	12,897
August	27	10	698	211	1,137	700	106	7,634	951	109	2,514	75	12,590
September	27	9	651	195	1,058	652	88	6,993	787	98	2,214	68	11,301
October	24	8	627	200	1,039	680	82	7,087	698	102	2,258	81	11,373
November	27	8	595	202	986	634	112	7,362	834	120	2,282	84	11,846
December	36	NM	626	210	1,046	685	99	8,013	759	119	2,517	89	12,714
Total	335	114	7,512	2,427	12,518	8,074	1,213	89,188	9,982	1,413	28,108	960	144,028
2018 January	42	NM	640	199	1,078	756	119	7,968	730	113	2,459	84	12,652
February	30	9	588	178	959	662	87	7,071	762	114	2,240	79	11,368
March	25	10	610	200	1,021	681	99	7,156	839	124	2,376	87	11,792
April	21	10	591	197	1,003	599	98	7,211	642	121	2,241	82	11,394
May	20	8	609	196	1,039	630	89	7,378	672	126	2,444	76	11,845
June	21	8	670	197	1,121	610	114	7,664	775	114	2,375	64	12,120
July	23	12	780	198	1,212	643	106	8,114	863	114	2,492	71	12,801
7-Month Total	183	96	4,487	1,365	7,433	4,581	713	52,562	5,284	827	16,626	543	83,972
2017 7-Month Total	195	63	4,314	1,409	7,253	4,723	726	52,099	5,952	865	16,323	563	84,205
2016 7-Month Total	225	48	4,436	1,455	7,331	5,421	835	52,481	5,429	837	15,910	672	84,719

^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

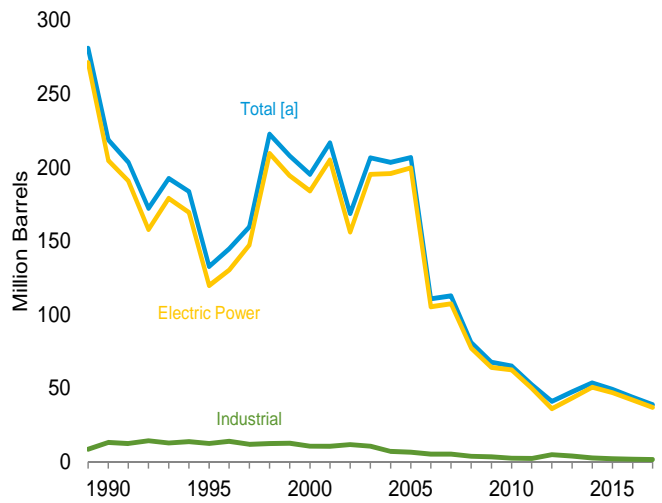
fossil fuels. Through 2010, also includes propane gas.
ⁱ Conventional hydroelectric power.
^j Wood and wood-derived fuels.
^k Includes photovoltaic (PV) energy, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (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

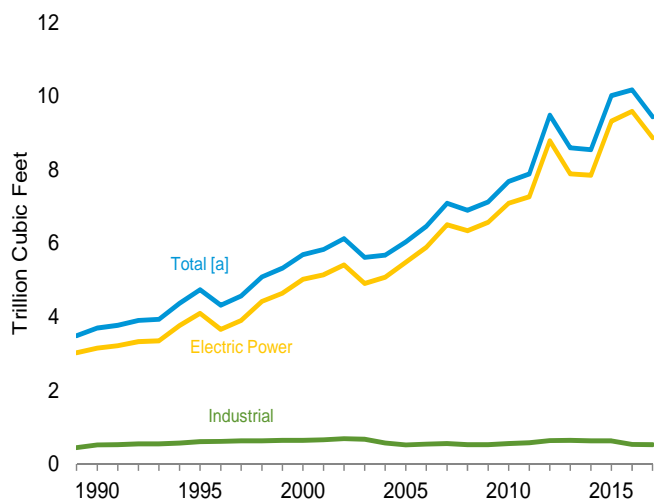
Coal by Sector, 1989–2017



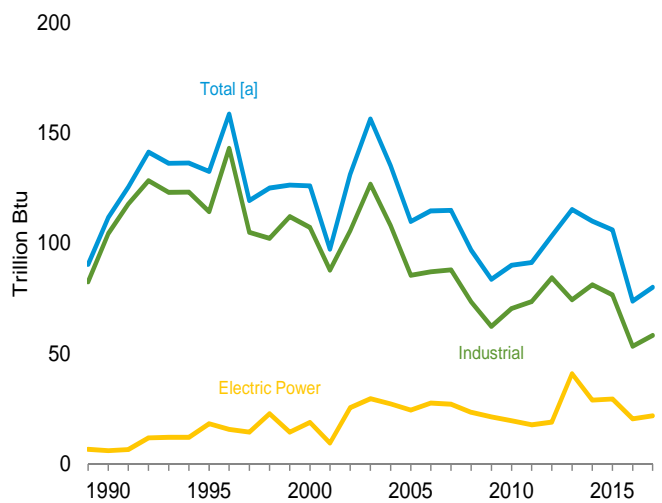
Petroleum by Sector, 1989–2017



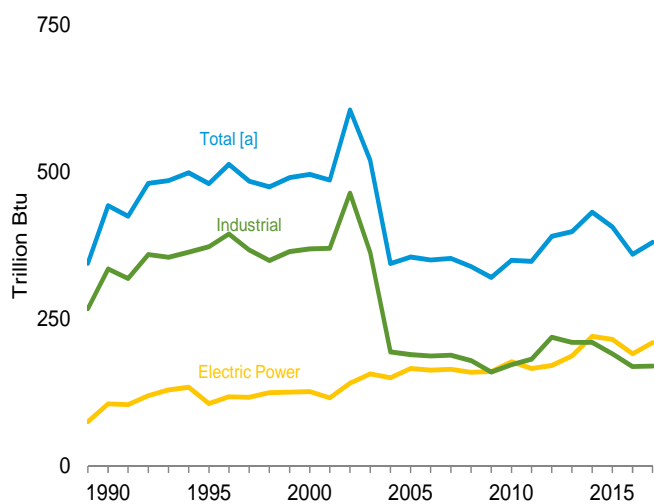
Natural Gas by Sector, 1989–2017



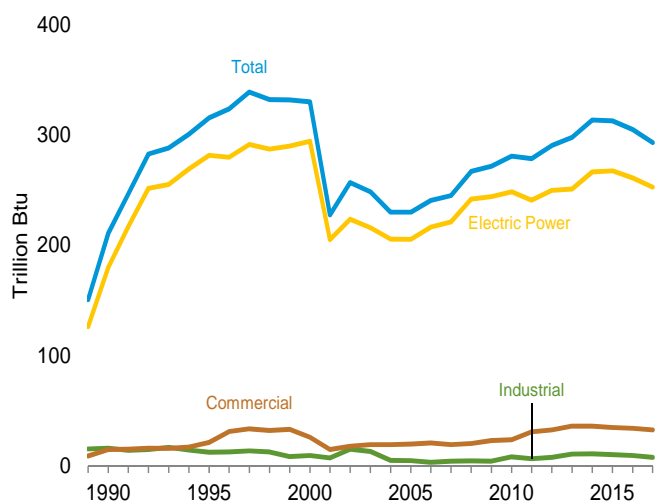
Other Gases [b] by Sector, 1989–2017



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	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	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	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	17
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	63,394	959	853	165	355	3,752	664	6	32	26	15
February	47,878	734	735	100	263	2,883	573	7	30	23	14
March	48,700	817	750	107	273	3,037	693	7	33	25	15
April	44,216	678	735	106	153	2,283	640	7	29	23	15
May	50,843	802	846	105	320	3,352	723	7	30	24	15
June	58,884	676	914	149	341	3,444	871	7	32	25	16
July	69,775	691	814	348	332	3,515	1,092	7	34	25	17
August	65,801	666	931	127	282	3,136	1,049	7	34	25	17
September	54,702	758	827	137	262	3,033	876	6	29	24	14
October	50,129	766	853	111	221	2,833	794	6	32	24	14
November	50,864	742	736	140	267	2,951	679	7	31	24	15
December	58,292	1,439	1,422	197	280	4,460	785	6	33	25	16
Total	663,479	9,727	10,415	1,792	3,349	38,679	9,441	80	380	293	182
2018											
January	64,556	5,157	3,208	611	344	10,695	812	6	33	25	16
February	45,738	588	674	115	272	2,738	684	6	30	24	14
March	44,444	636	663	115	226	2,546	755	7	31	25	16
April	40,607	706	713	99	224	2,636	725	6	27	24	15
May	47,563	840	807	133	176	2,661	867	6	32	25	16
June	56,087	818	893	115	310	3,377	972	7	32	25	16
July	63,859	701	859	131	339	3,386	1,245	7	33	24	16
7-Month Total	362,854	9,446	7,818	1,318	1,891	28,039	6,059	44	218	171	107
2017 7-Month Total	383,691	5,356	5,646	1,080	2,037	22,266	5,257	48	219	172	106
2016 7-Month Total	373,778	5,844	6,509	906	2,566	26,089	5,944	44	207	177	115

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

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

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

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

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

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

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

^h Wood and wood-derived fuels.

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

tire-derived fuels).

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

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

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

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

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

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

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

	Coal ^a	Petroleum					Natural Gas ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
1950 Total	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total	320,182	24,123	311,381	NA	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	63,117	928	840	145	341	3,618	613	2	17	22	10
February	47,633	714	726	79	249	2,766	529	2	16	20	9
March	48,456	792	738	90	254	2,892	646	2	18	22	10
April	44,008	658	723	92	139	2,170	595	2	15	20	9
May	50,619	777	836	87	302	3,208	677	2	17	21	10
June	58,650	652	904	131	322	3,295	823	2	18	21	10
July	69,533	663	807	331	310	3,350	1,041	2	19	22	10
August	65,560	634	923	110	264	2,985	1,001	2	19	22	11
September	54,469	727	821	121	246	2,899	832	2	16	20	9
October	49,889	742	843	92	205	2,704	749	2	18	21	10
November	50,628	719	721	123	247	2,800	632	2	17	20	10
December	58,036	1,401	1,401	179	266	4,319	734	2	18	21	10
Total	660,600	9,416	10,280	1,579	3,146	37,005	8,871	22	210	253	119
2018 January	64,273	5,087	3,172	593	332	10,511	761	2	19	22	10
February	45,480	566	662	90	263	2,633	639	2	16	21	10
March	44,187	612	651	96	213	2,424	710	2	17	22	10
April	40,384	680	704	81	208	2,504	678	2	13	21	10
May	47,323	811	800	110	164	2,538	820	2	17	21	10
June	55,857	789	881	97	291	3,223	923	2	18	21	11
July	63,616	662	852	92	322	3,217	1,193	2	18	20	11
7-Month Total	361,120	9,207	7,721	1,160	1,793	27,050	5,723	13	117	148	72
2017 7-Month Total	382,017	5,184	5,572	955	1,918	21,298	4,924	13	120	148	69
2016 7-Month Total	371,950	5,708	6,421	741	2,428	25,012	5,609	12	109	152	73

^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	12	22	4	3	265	111	47	5	14	1	3
February	10	14	3	3	235	104	41	5	14	1	3
March	9	17	4	3	235	128	43	5	14	1	4
April	5	11	3	3	202	102	43	5	14	1	4
May	6	16	3	3	219	128	43	5	14	1	4
June	7	15	4	3	226	134	44	5	14	1	4
July	8	18	4	3	234	148	47	5	15	1	4
August	8	22	4	3	233	129	45	5	15	1	4
September	8	17	4	3	225	118	41	4	13	1	3
October	7	16	4	3	233	113	41	4	14	1	3
November	7	16	4	3	229	135	43	5	14	1	4
December	10	24	4	3	246	117	47	5	15	1	4
Total	96	206	45	33	2,783	1,467	525	58	170	8	44
2018 January	12	60	4	3	272	NM	47	4	15	1	4
February	8	17	4	2	249	88	41	4	14	1	3
March	7	14	4	3	250	107	42	5	14	1	4
April	6	17	4	3	217	115	43	4	14	1	3
May	6	19	4	3	235	104	44	4	15	1	4
June	6	19	4	3	223	135	45	5	14	1	3
July	7	28	5	3	236	140	47	5	15	1	3
7-Month Total	52	174	27	18	1,682	814	309	31	101	5	24
2017 7-Month Total	56	112	26	19	1,617	855	307	35	99	5	26
2016 7-Month Total	65	68	27	20	1,764	1,010	308	32	97	6	30

^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).

NM=Not meaningful.

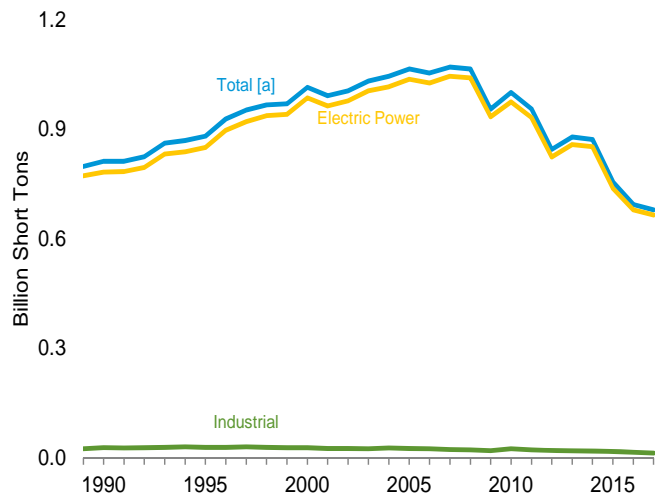
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. •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

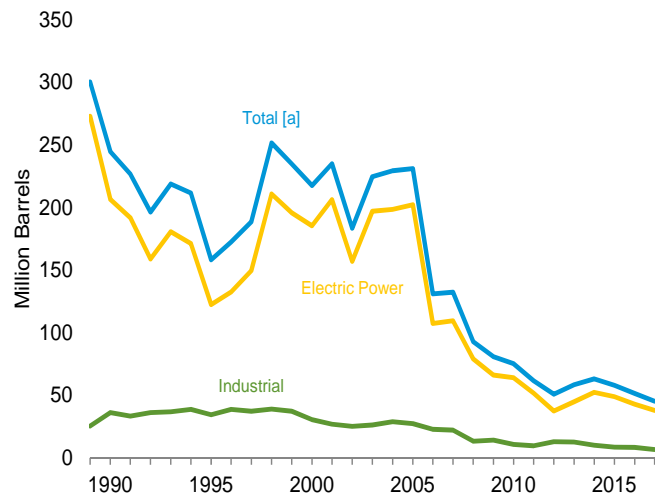
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

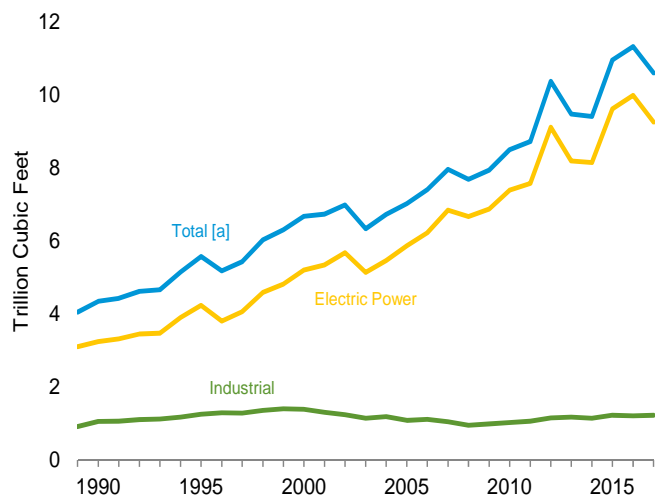
Coal by Sector, 1989–2017



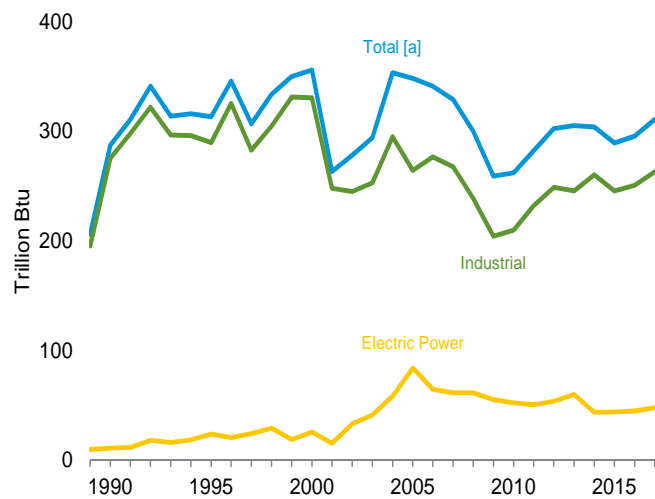
Petroleum by Sector, 1989–2017



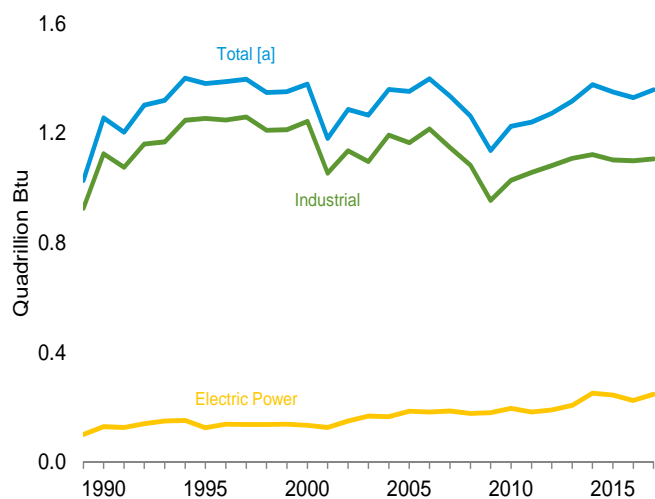
Natural Gas by Sector, 1989–2017



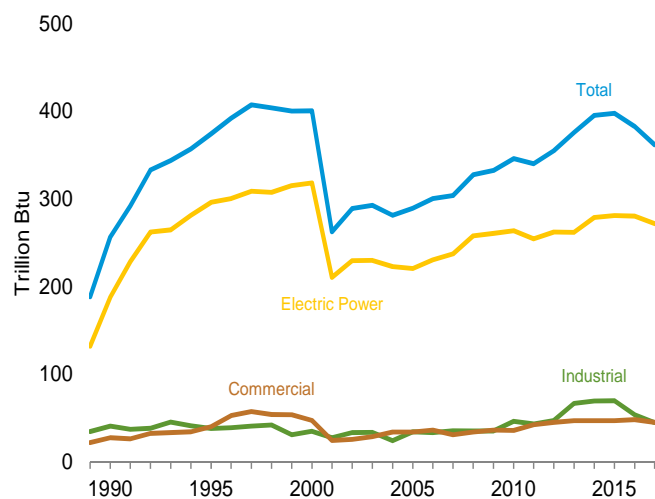
Other Gases [b] by Sector, 1989–2017



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	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	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	4,670	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	64,904	1,009	949	225	428	4,326	765	26	117	34	19
February	49,106	762	799	144	325	3,332	665	25	109	30	17
March	50,057	849	819	143	358	3,600	792	27	114	32	18
April	45,432	705	805	146	222	2,768	731	24	107	30	17
May	52,064	837	919	153	396	3,891	814	26	109	29	18
June	60,092	703	994	189	433	4,049	964	26	113	29	18
July	71,001	718	871	389	412	4,035	1,192	27	118	30	19
August	67,048	696	998	167	367	3,695	1,147	27	120	30	20
September	55,857	787	885	170	337	3,526	970	25	107	27	17
October	51,406	798	923	155	302	3,387	889	25	111	30	17
November	52,184	790	829	175	338	3,485	774	26	112	31	17
December	59,631	1,572	1,569	253	348	5,135	892	26	121	32	19
Total	678,780	10,227	11,362	2,310	4,266	45,228	10,597	311	1,359	362	216
2018 January	65,989	5,425	3,499	697	412	11,683	919	27	117	33	18
February	47,008	620	740	165	334	3,193	780	25	109	30	17
March	45,715	683	737	156	284	2,994	857	27	113	33	18
April	41,740	738	779	141	296	3,137	820	33	108	31	17
May	48,699	880	877	177	236	3,114	962	25	112	30	18
June	57,187	858	1,009	162	371	3,884	1,069	26	113	29	19
July	64,958	751	915	194	404	3,881	1,350	27	117	28	19
7-Month Total	371,296	9,954	8,555	1,694	2,336	31,885	6,756	191	789	212	126
2017 7-Month Total	392,655	5,583	6,157	1,390	2,574	26,000	5,924	181	787	213	126
2016 7-Month Total	383,643	6,268	7,164	1,289	3,202	30,733	6,614	175	763	223	138

^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 ^f	Other Gases ^g	Biomass		Other ⁱ
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e			Wood ^h	Waste ⁱ	
		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	201	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	63,548	939	864	160	351	3,718	647	4	21	24	11
February	47,965	719	741	84	259	2,842	559	4	19	22	10
March	48,826	798	745	91	265	2,961	679	4	22	24	11
April	44,324	662	731	93	149	2,234	624	4	18	21	10
May	50,926	783	846	88	313	3,280	706	4	20	22	11
June	58,952	658	914	134	332	3,366	854	4	21	23	11
July	69,900	668	818	332	320	3,421	1,074	4	22	23	12
August	65,934	639	932	111	275	3,057	1,034	4	22	23	12
September	54,780	734	831	122	256	2,968	862	4	19	21	10
October	50,214	749	857	93	216	2,778	780	4	21	22	10
November	50,992	727	738	124	258	2,877	663	4	20	22	10
December	58,388	1,440	1,428	189	277	4,444	768	4	21	23	11
Total	664,749	9,519	10,446	1,621	3,272	37,947	9,250	48	247	272	130
2018 January	64,650	5,171	3,228	621	343	10,734	795	4	22	24	11
February	45,823	571	672	91	272	2,692	670	4	19	22	11
March	44,496	619	661	98	223	2,492	743	4	20	24	11
April	40,652	686	713	82	219	2,576	708	4	16	22	11
May	47,590	820	811	110	170	2,592	851	4	19	22	11
June	56,144	796	893	98	294	3,255	955	4	20	23	12
July	63,904	667	861	93	332	3,282	1,229	4	21	22	12
7-Month Total	363,258	9,331	7,839	1,194	1,852	27,624	5,950	28	138	159	79
2017 7-Month Total	384,440	5,230	5,659	981	1,990	21,822	5,143	28	142	160	76
2016 7-Month Total	374,472	5,764	6,538	766	2,494	25,538	5,842	26	130	164	81

^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	66	71	12	4	1,290	537	107	22	96	5	5
February	54	48	10	4	1,087	442	97	21	89	5	4
March	58	56	10	4	1,172	583	103	23	92	5	5
April	40	29	9	4	1,068	504	98	21	88	4	5
May	40	40	9	4	1,098	571	99	22	89	3	5
June	46	32	10	4	1,094	650	100	22	91	2	5
July	53	36	11	4	1,047	579	107	23	96	2	6
August	49	51	11	4	1,065	587	103	23	98	3	6
September	47	41	10	4	1,030	517	98	22	87	2	5
October	43	39	10	4	1,149	570	100	21	90	4	4
November	50	43	10	4	1,142	565	102	21	92	5	5
December	62	84	11	4	1,181	608	113	22	99	5	5
Total	607	569	121	45	13,424	6,712	1,226	263	1,107	45	58
2018 January	69	208	11	4	1,270	NM	112	23	95	5	5
February	53	54	10	3	1,132	447	99	21	89	4	4
March	51	47	10	4	1,169	455	104	23	92	5	5
April	45	41	10	4	1,043	520	102	29	91	4	4
May	40	39	9	4	1,069	483	102	21	93	4	5
June	41	39	10	4	1,003	590	104	22	92	2	5
July	46	62	12	4	1,008	537	110	23	96	2	5
7-Month Total	345	490	73	26	7,693	3,771	734	162	648	27	32
2017 7-Month Total	358	312	70	27	7,857	3,866	710	154	641	27	34
2016 7-Month Total	399	252	74	28	8,772	4,944	698	149	631	32	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).

NM=Not meaningful.

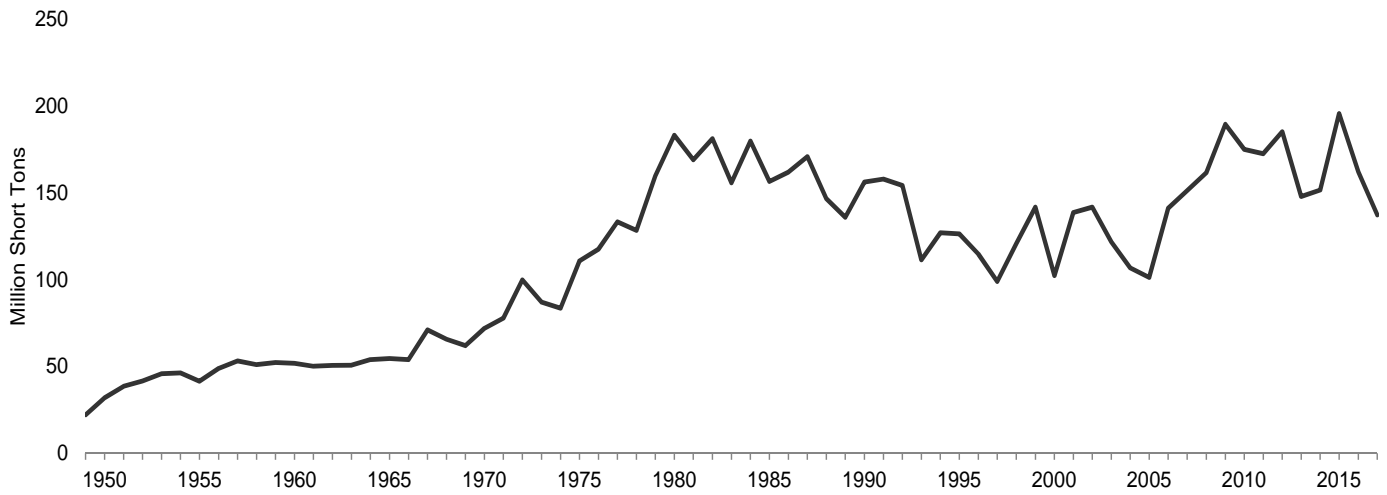
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is 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 and monthly data beginning in 1989.

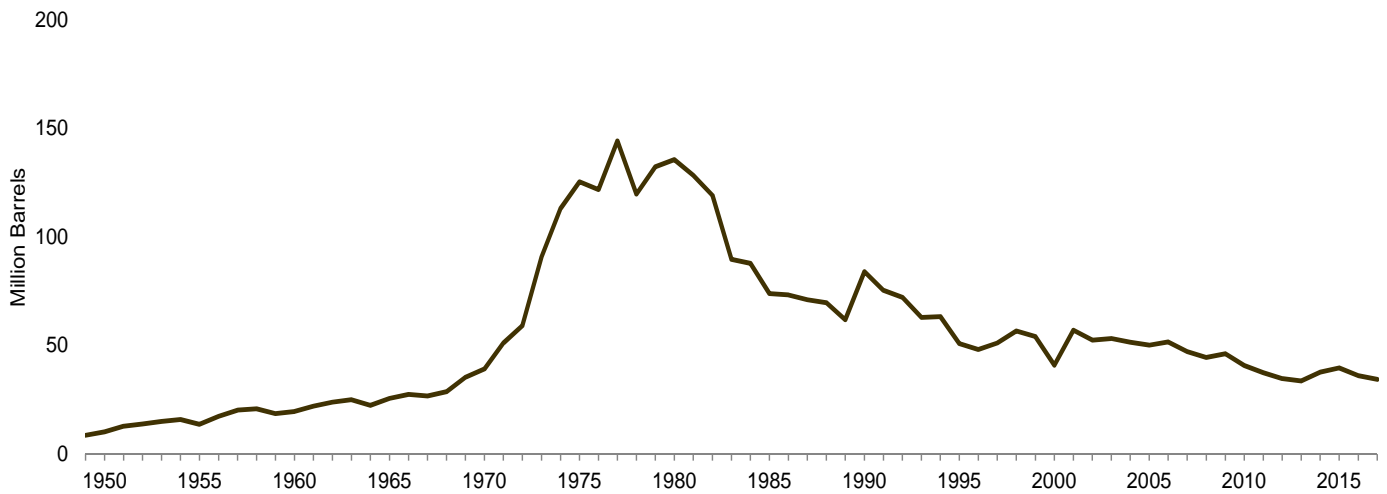
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

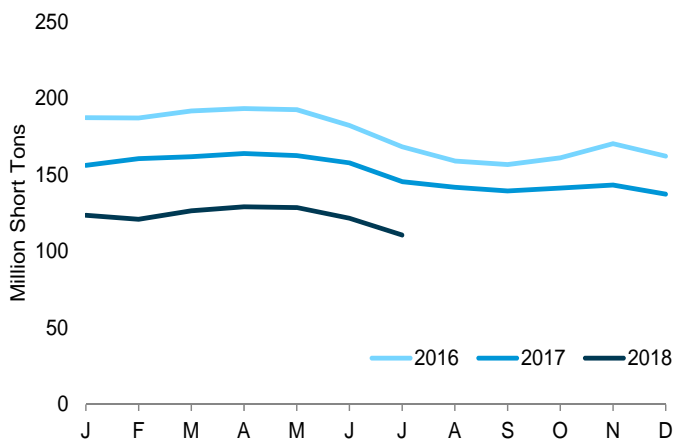
Coal, 1949–2017



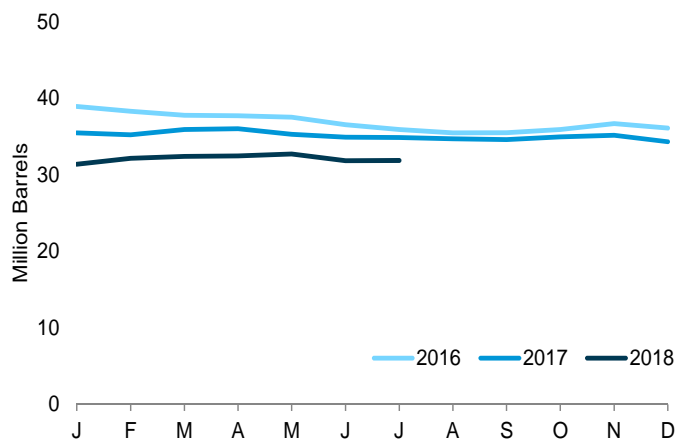
Total Petroleum, 1949–2017



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 Thousand Short Tons	Petroleum				Total ^{e,f} Thousand Barrels
		Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	
		Thousand Barrels			Thousand Short Tons	
1950 Year	31,842	NA	NA	NA	NA	10,201
1955 Year	41,391	NA	NA	NA	NA	13,671
1960 Year	51,735	NA	NA	NA	NA	19,572
1965 Year	54,525	NA	NA	NA	NA	25,647
1970 Year	71,908	NA	NA	NA	239	39,151
1975 Year	110,724	16,432	108,825	NA	31	125,413
1980 Year	183,010	30,023	105,351	NA	52	135,635
1985 Year	156,376	16,386	57,304	NA	49	73,933
1990 Year	156,166	16,471	67,030	NA	94	83,970
1995 Year	126,304	15,392	35,102	NA	65	50,821
2000 Year ^g	102,296	15,127	24,748	NA	211	40,932
2001 Year	138,496	20,486	34,594	NA	390	57,031
2002 Year	141,714	17,413	25,723	800	1,711	52,490
2003 Year	121,567	19,153	25,820	779	1,484	53,170
2004 Year	106,669	19,275	26,596	879	937	51,434
2005 Year	101,137	18,778	27,624	1,012	530	50,062
2006 Year	140,964	18,013	28,823	1,380	674	51,583
2007 Year	151,221	18,395	24,136	1,902	554	47,203
2008 Year	161,589	17,761	21,088	1,955	739	44,498
2009 Year	189,467	17,886	19,068	2,257	1,394	46,181
2010 Year	174,917	16,758	16,629	2,319	1,019	40,800
2011 Year	172,387	16,649	15,491	2,707	508	37,387
2012 Year	185,116	16,433	12,999	2,792	495	34,698
2013 Year	147,884	16,068	12,926	2,679	390	33,622
2014 Year	151,548	18,309	12,764	2,432	827	37,643
2015 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	156,175	17,496	11,847	2,125	794	35,440
February	160,448	17,287	11,710	2,097	822	35,204
March	161,690	17,006	12,542	2,075	855	35,897
April	163,723	16,948	12,306	2,071	933	35,991
May	162,309	16,817	12,036	2,027	881	35,287
June	157,719	16,644	11,890	2,016	868	34,887
July	145,376	16,804	11,691	1,975	875	34,845
August	141,720	16,644	11,500	1,928	919	34,667
September	139,315	16,354	11,379	1,914	988	34,588
October	141,204	16,378	11,325	1,943	1,058	34,934
November	143,210	16,388	11,377	1,906	1,089	35,117
December	137,155	15,833	10,992	1,898	1,113	34,288
2018 January	123,499	14,730	9,829	1,818	999	31,369
February	120,866	14,979	10,283	1,850	1,001	32,116
March	126,398	14,962	10,252	1,854	1,061	32,372
April	128,980	14,881	10,186	1,858	1,106	32,455
May	128,440	15,102	10,099	1,930	1,111	32,684
June	121,473	14,846	10,044	1,825	1,022	31,827
July	110,485	14,818	9,551	1,789	1,138	31,846

^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.

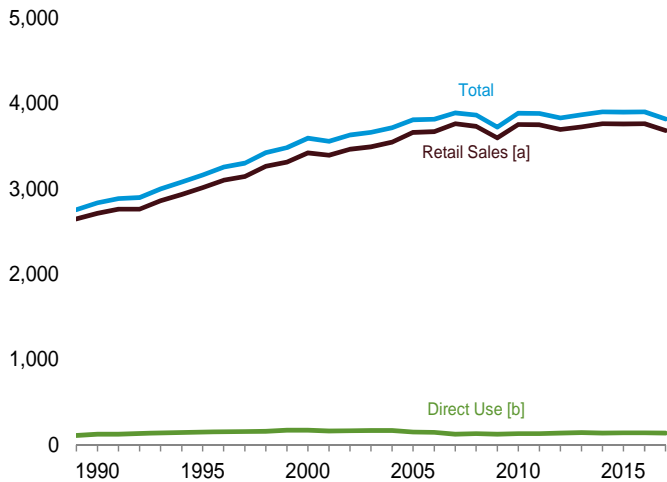
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

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."

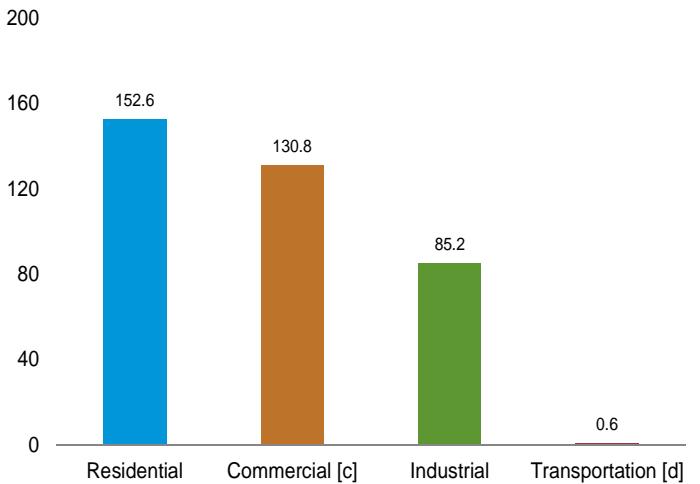
Figure 7.6 Electricity End Use

(Billion Kilowatthours)

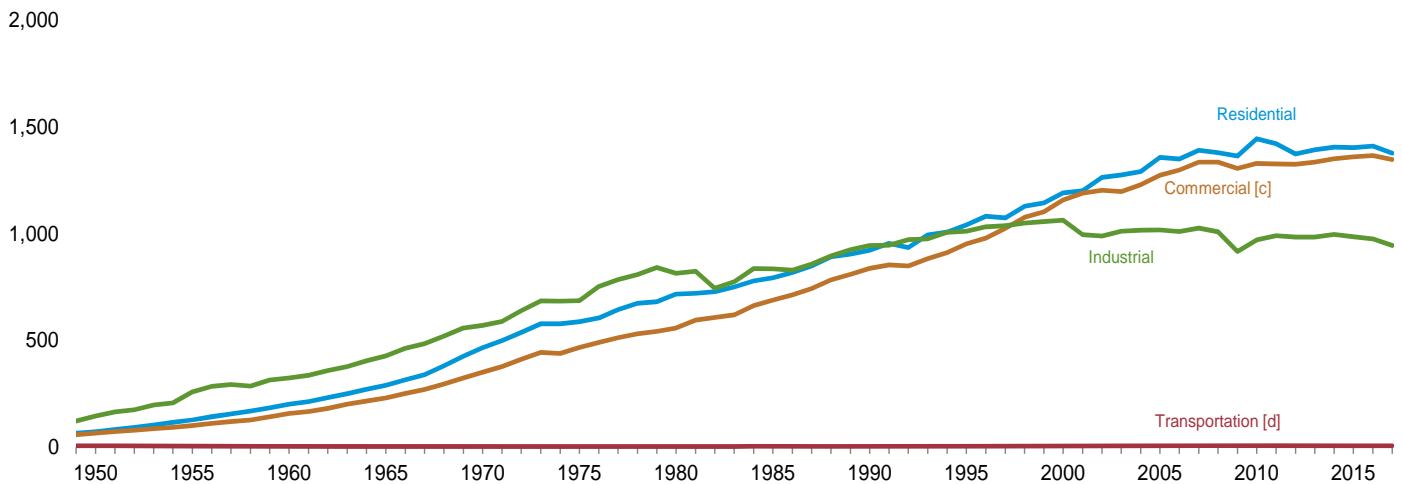
Electricity End Use Overview, 1989–2017



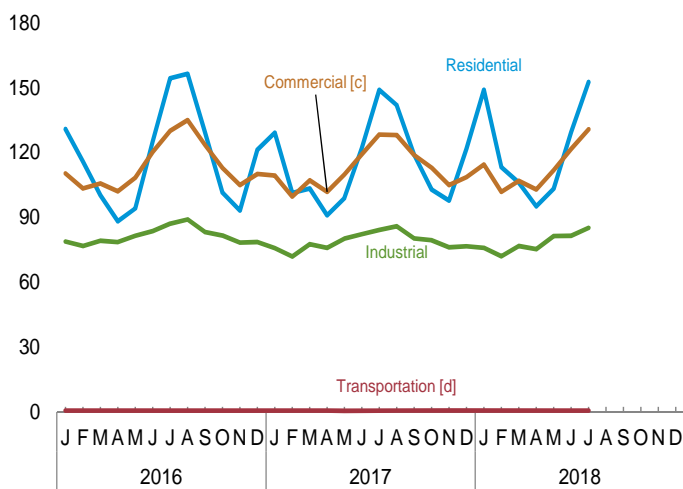
Retail Sales [a] by Sector, July 2018



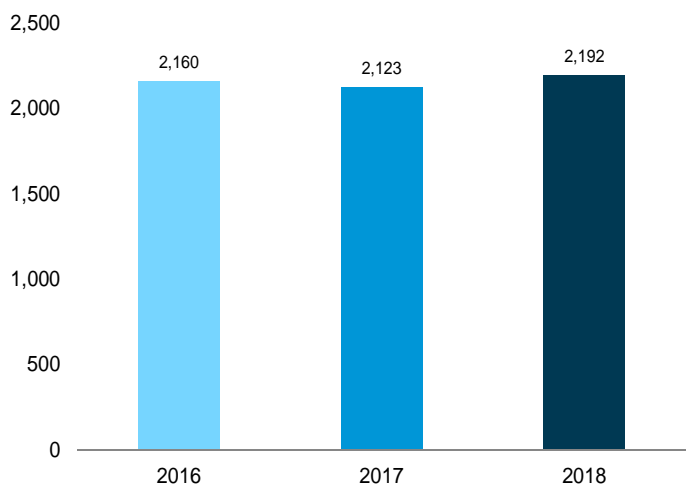
Retail Sales [a] by Sector, 1949–2017



Retail Sales [a] by Sector, Monthly



Retail Sales [a] Total, January–July



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

[b] See “Direct Use” in Glossary.

[c] Commercial sector, including public street and highway lighting, 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	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357
2001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107
2002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650
2003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029
2004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949
2005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984
2006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845
2007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231
2008 Total	1,380,662	1,336,133	1,009,516	7,653	3,733,965	132,197	3,866,161
2009 Total	1,364,758	1,306,853	917,416	7,768	3,596,795	126,938	3,723,733
2010 Total	1,445,708	1,330,199	971,221	7,712	3,754,841	131,910	3,886,752
2011 Total	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600
2012 Total	1,374,515	1,327,101	985,714	7,320	3,694,650	137,657	3,832,306
2013 Total	1,394,812	1,337,079	985,352	7,625	3,724,868	143,462	3,868,330
2014 Total	1,407,208	1,352,158	997,576	7,758	3,764,700	138,574	3,903,274
2015 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	129,253	109,414	75,814	666	315,148	E 11,940	327,088
February	101,349	99,607	71,958	636	273,550	E 10,859	284,410
March	103,434	107,171	77,587	644	288,836	E 11,547	300,383
April	90,966	101,796	75,917	590	269,269	E 11,049	280,318
May	98,977	109,912	80,147	583	289,619	E 11,221	300,839
June	122,034	119,289	82,224	629	324,176	E 11,641	335,817
July	149,075	128,324	84,240	630	362,268	E 12,387	374,655
August	142,026	128,144	85,905	641	356,716	E 12,104	368,820
September	119,077	118,836	80,260	619	318,793	E 10,898	329,691
October	102,983	113,036	79,471	626	296,116	E 10,944	307,060
November	97,870	104,959	76,195	598	279,622	E 11,315	290,937
December	121,775	108,720	76,724	663	307,882	E 12,133	320,014
Total	1,378,819	1,349,208	946,443	7,524	3,681,995	E 138,037	3,820,032
2018 January	148,985	114,531	75,948	748	340,212	E 12,106	352,319
February	113,334	101,791	71,996	638	287,759	E 10,870	298,629
March	106,061	106,965	76,785	625	290,435	E 11,298	301,733
April	95,132	102,941	75,342	608	274,023	E 10,931	284,954
May	103,356	111,951	81,402	591	297,299	E 11,361	308,660
June	129,487	121,659	81,561	628	333,335	E 11,675	345,010
July	152,639	130,850	85,218	640	369,346	E 12,356	381,703
7-Month Total	848,993	790,688	548,251	4,478	2,192,410	E 80,597	2,273,007
2017 7-Month Total	795,088	775,513	547,888	4,377	2,122,866	E 80,644	2,203,510
2016 7-Month Total	809,221	780,485	565,720	4,371	2,159,797	E 81,167	2,240,964

^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)*, September 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, September 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, September 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."

2001–2016: EIA, *Electric Power Annual 2016*, August 2018, Table 2.2.

2017: Sum of monthly estimates.

Direct Use, Monthly

1989 forward: Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2017 and 2018, the 2016 annual share is used.

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