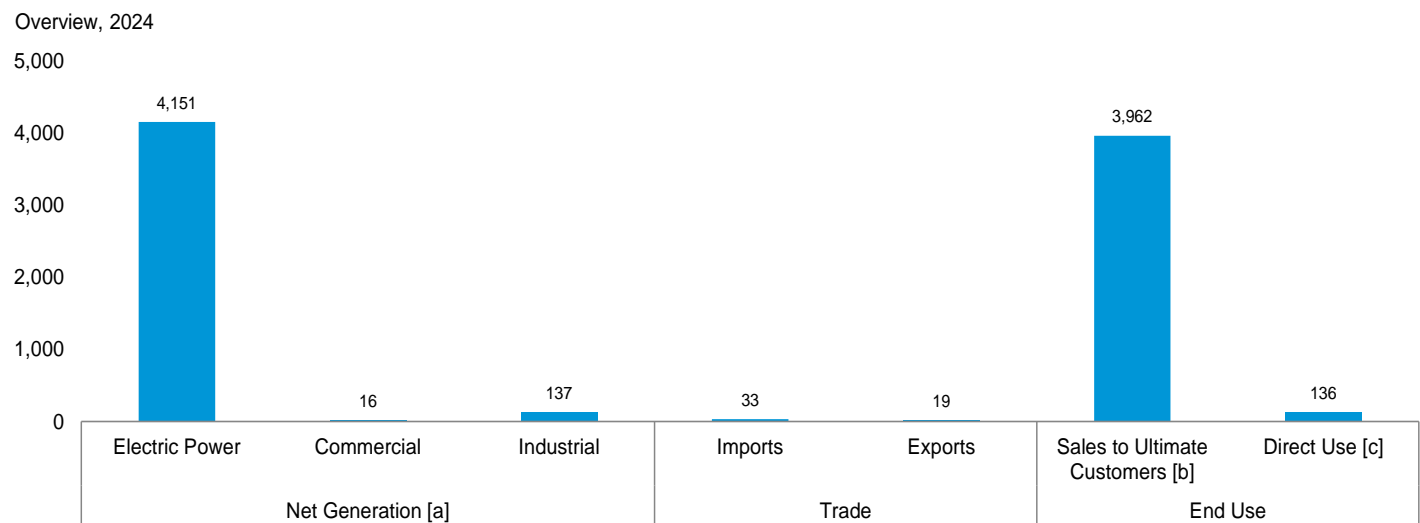


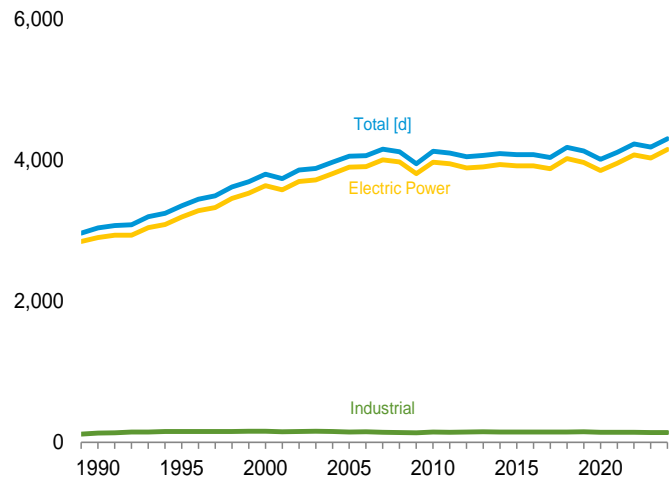
## 7. Electricity

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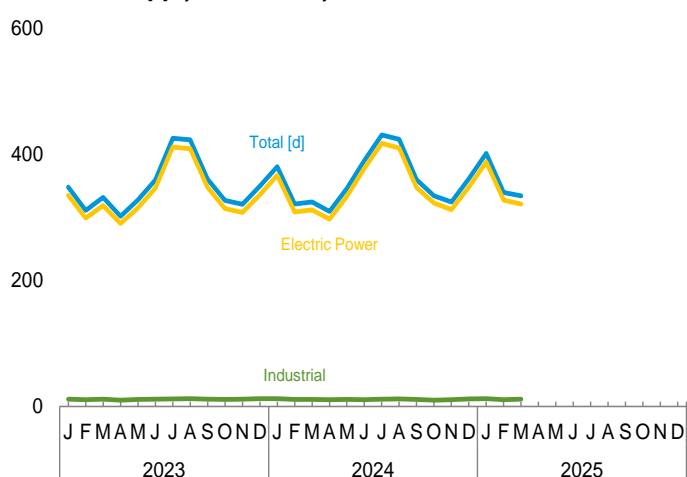
Figure 7.1 Electricity Overview  
(Billion Kilowatthours)



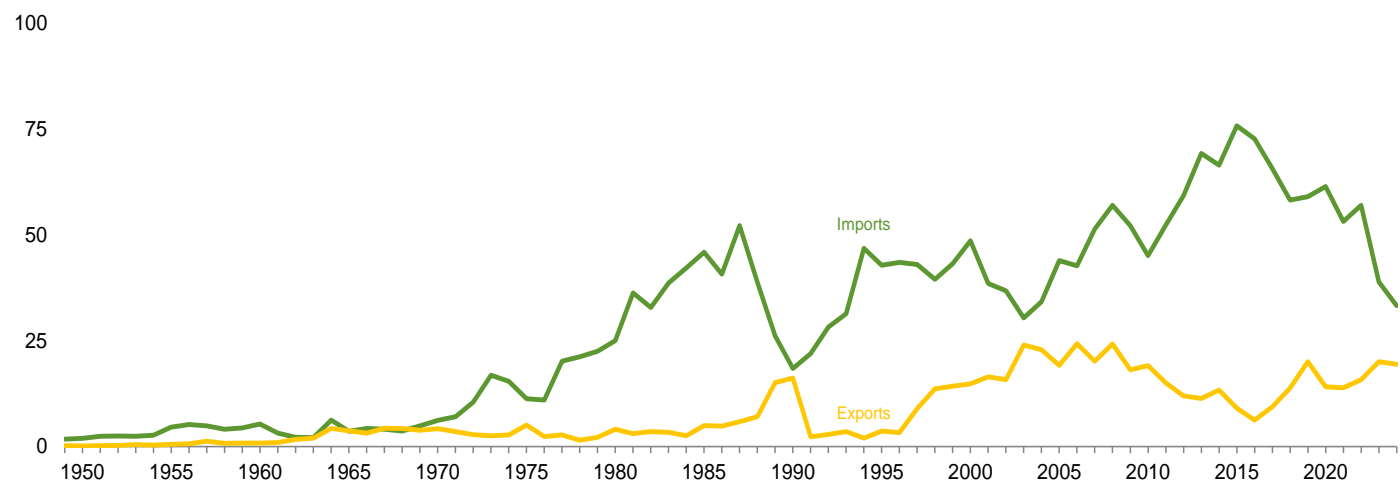
Net Generation [a] by Sector, 1989–2024



Net Generation [a] by Sector, Monthly



Trade, 1949–2024



[a] Data are for utility-scale facilities.

[b] Electricity 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 <sup>a</sup>				Trade			T&D Losses <sup>f</sup> and Unaccounted for <sup>g</sup>	End Use		
	Electric Power Sector <sup>b</sup>	Com- mercial Sector <sup>c</sup>	Indus- trial Sector <sup>d</sup>	Total	Imports <sup>e</sup>	Exports <sup>e</sup>	Net Imports <sup>e</sup>		Sales to Ultimate Customers <sup>h</sup>	Direct Use <sup>i</sup>	Total
1950 Total .....	329	NA	5	334	2	(s)	2	44	291	NA	291
1955 Total .....	547	NA	3	550	5	(s)	4	58	497	NA	497
1960 Total .....	756	NA	4	759	5	1	5	76	688	NA	688
1965 Total .....	1,055	NA	3	1,058	4	4	(s)	104	954	NA	954
1970 Total .....	1,532	NA	3	1,535	6	4	2	145	1,392	NA	1,392
1975 Total .....	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total .....	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total .....	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total .....	2,901	6	<sup>d</sup> 131	3,038	18	16	2	203	2,713	125	2,837
1995 Total .....	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
2000 Total .....	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2005 Total .....	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
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 .....	3,920	13	146	4,078	76	9	67	245	3,759	141	3,900
2016 Total .....	3,919	13	146	4,078	73	6	67	242	3,762	140	3,902
2017 Total .....	3,879	13	144	4,035	66	9	56	227	3,723	141	3,864
2018 Total .....	4,021	13	147	4,181	58	14	44	222	3,859	144	4,003
2019 Total .....	3,968	14	149	4,131	59	20	39	215	3,811	143	3,954
2020 Total .....	3,854	13	143	4,010	61	14	47	201	3,718	138	3,856
2021 Total .....	3,957	13	140	4,110	53	14	39	204	3,806	139	3,945
2022 Total .....	4,074	17	140	4,231	57	16	41	205	3,927	140	4,067
2023 January .....	335	1	12	348	4	1	3	14	325	<sup>E</sup> 11	337
February .....	299	1	11	311	4	2	2	9	293	<sup>E</sup> 11	304
March .....	319	1	12	332	4	1	3	16	306	<sup>E</sup> 11	318
April .....	290	1	10	302	4	2	2	13	281	<sup>E</sup> 10	291
May .....	315	1	11	327	4	1	3	20	299	<sup>E</sup> 11	310
June .....	346	1	12	359	3	1	2	20	329	<sup>E</sup> 12	340
July .....	411	2	12	425	3	2	1	27	387	<sup>E</sup> 12	399
August .....	409	1	12	423	3	2	1	19	392	<sup>E</sup> 12	405
September .....	347	1	12	360	2	2	(s)	2	346	<sup>E</sup> 12	358
October .....	314	1	11	327	2	2	(s)	7	308	<sup>E</sup> 11	319
November .....	308	1	12	321	2	2	1	16	294	<sup>E</sup> 11	306
December .....	336	1	12	350	3	2	1	26	313	<sup>E</sup> 12	325
Total .....	4,029	16	139	4,183	39	20	19	191	3,874	137	4,011
2024 January .....	366	1	13	380	4	2	2	26	344	<sup>E</sup> 12	356
February .....	308	1	11	321	3	2	(s)	8	302	<sup>E</sup> 11	313
March .....	312	1	11	324	2	3	(s)	17	296	<sup>E</sup> 11	307
April .....	297	1	11	309	2	2	(s)	13	285	<sup>E</sup> 11	296
May .....	333	1	11	346	2	2	(s)	22	313	<sup>E</sup> 11	324
June .....	378	1	11	390	3	1	1	26	354	<sup>E</sup> 11	365
July .....	417	1	12	430	4	2	2	24	397	<sup>E</sup> 12	409
August .....	410	2	12	424	3	1	2	21	393	<sup>E</sup> 12	405
September .....	347	1	11	360	3	1	2	8	343	<sup>E</sup> 11	354
October .....	323	1	10	334	3	1	2	10	315	<sup>E</sup> 10	326
November .....	312	1	11	324	2	1	1	20	294	<sup>E</sup> 11	304
December .....	348	1	12	361	3	1	2	25	326	<sup>E</sup> 12	338
Total .....	4,151	16	137	4,304	33	19	14	220	3,962	<sup>E</sup> 136	4,097
2025 January .....	388	1	12	402	4	<sup>R</sup> 1	3	31	361	<sup>E</sup> 12	373
February .....	327	1	11	339	3	1	2	<sup>R</sup> 11	320	<sup>E</sup> 11	330
March .....	321	1	12	334	2	2	1	17	307	<sup>E</sup> 11	318
3-Month Total .....	1,036	4	35	1,074	10	4	6	58	988	<sup>E</sup> 34	1,022
2024 3-Month Total .....	987	4	35	1,026	8	7	2	50	942	<sup>E</sup> 35	977
2023 3-Month Total .....	952	4	34	990	12	4	8	40	925	<sup>E</sup> 33	958

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

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

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

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

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

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

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

<sup>h</sup> Electricity sales to ultimate customers by electric utilities and, beginning in

1996, other energy service providers.

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

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

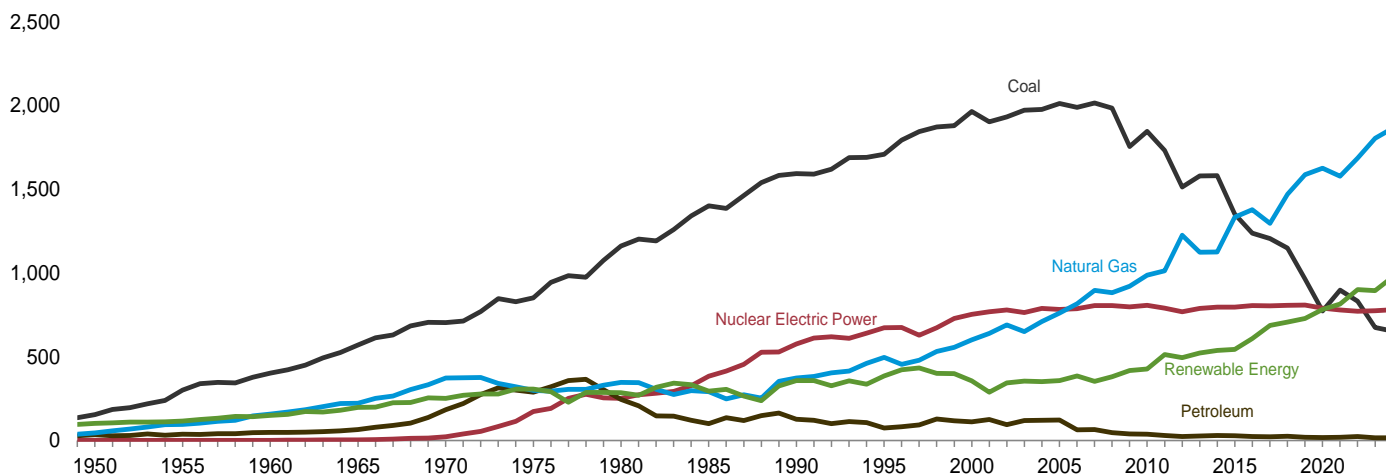
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#electricity> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

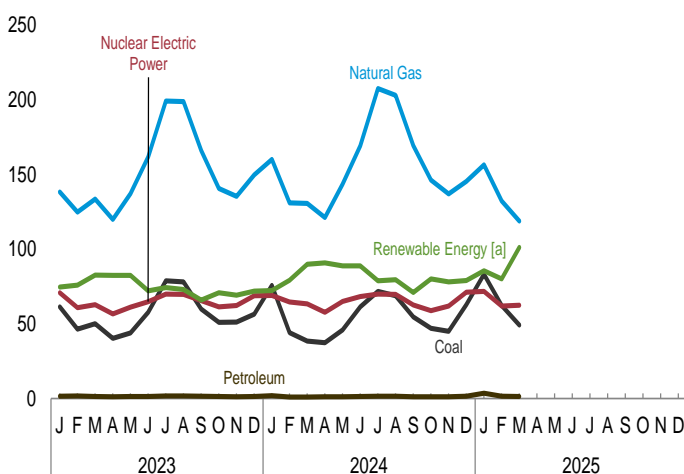
**Figure 7.2 Electricity Net Generation**

(Billion Kilowatthours)

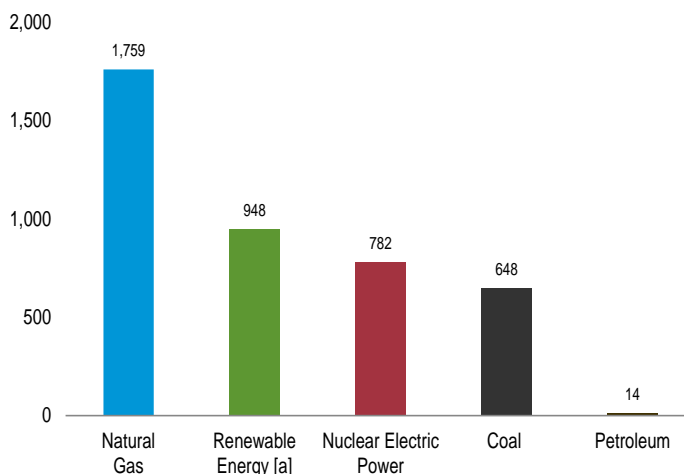
Total (All Sectors), Major Sources, 1949–2024



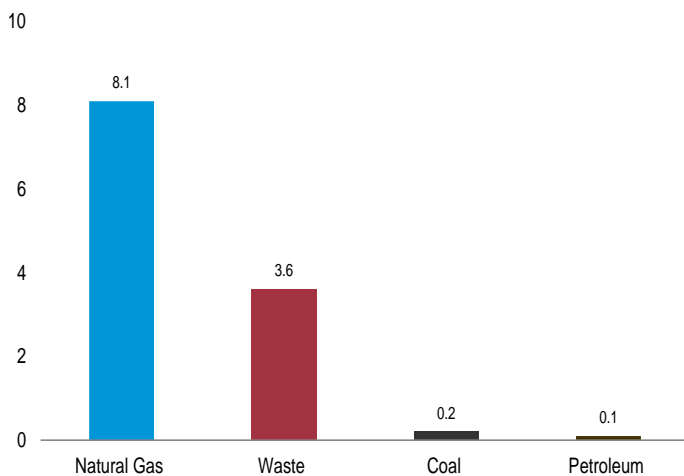
Total (All Sectors), Major Sources, Monthly



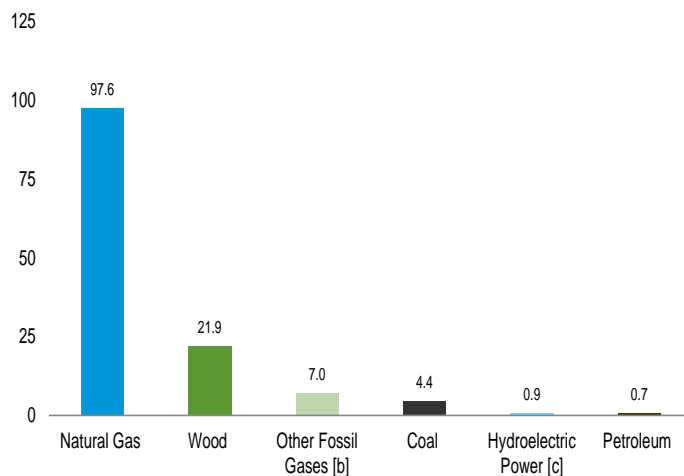
Electric Power Sector, Major Sources, 2024



Commercial Sector, Major Sources, 2024



Industrial Sector, Major Sources, 2024



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

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

[c] Conventional hydroelectric power.

Note: Data are for utility-scale facilities.

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

Sources: Tables 7.2a–7.2c.



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

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

	Fossil Fuels				Nuclear Electric Power	Hydro-electric Pumped Storage <sup>g</sup>	Renewable Energy							Total <sup>j</sup>
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Other Fossil Gases <sup>d</sup>			Conven- tional Hydro- electric Power <sup>f</sup>	Biomass		Geo- thermal	Solar <sup>i</sup>	Wind		
								Wood <sup>g</sup>	Waste <sup>h</sup>					
1950 Total .....	154,520	33,734	44,559	NA	0	( )	100,885	390	NA	NA	NA	NA	334,088	
1955 Total .....	301,363	37,138	95,285	NA	0	( )	116,236	276	NA	NA	NA	NA	550,299	
1960 Total .....	403,067	47,987	157,970	NA	518	( )	149,440	140	NA	33	NA	NA	759,156	
1965 Total .....	570,926	64,801	221,559	NA	3,657	( )	196,984	269	NA	189	NA	NA	1,058,386	
1970 Total .....	704,394	184,183	372,890	NA	21,804	( )	250,957	136	220	525	NA	NA	1,535,111	
1975 Total .....	852,786	289,095	299,778	NA	172,505	( )	303,153	18	174	3,246	NA	NA	1,920,755	
1980 Total .....	1,161,562	245,994	346,240	NA	251,116	( )	279,182	275	158	5,073	NA	NA	2,289,600	
1985 Total .....	1,402,128	100,202	291,946	NA	383,691	( )	284,311	743	640	9,325	11	6	2,473,002	
1990 Total <sup>k</sup> .....	1,594,011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,827	
1995 Total .....	1,709,426	74,554	496,058	13,870	673,402	-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	
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	
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	1,126,635	12,022	797,166	-6,174	259,367	42,340	21,650	15,877	17,691	181,655	4,093,564	
2015 Total .....	1,352,398	28,249	1,334,668	13,117	797,178	-5,091	249,080	41,929	21,703	15,918	24,893	190,719	4,078,714	
2016 Total .....	1,239,149	24,205	1,379,271	12,807	805,694	-6,686	267,812	40,947	21,813	15,826	36,054	226,993	4,077,574	
2017 Total .....	1,205,835	21,390	1,297,703	12,469	804,950	-6,495	300,333	41,124	21,610	15,927	53,287	254,303	4,035,443	
2018 Total .....	1,149,487	25,226	1,471,843	13,463	807,084	-5,905	292,524	40,936	20,896	15,967	63,825	272,667	4,180,988	
2019 Total .....	964,957	18,341	1,588,533	12,591	809,409	-5,261	287,874	38,543	18,964	15,473	71,937	295,882	4,130,574	
2020 Total .....	773,393	17,341	1,626,790	11,818	789,879	-5,321	285,274	36,219	18,493	15,890	89,199	337,938	4,009,767	
2021 Total .....	897,999	19,173	1,579,190	11,397	779,645	-5,112	251,585	36,463	17,790	15,975	115,258	378,197	4,109,699	
2022 Total .....	831,512	22,931	1,687,065	11,722	771,537	-6,028	254,789	35,466	16,383	16,087	143,792	434,297	4,230,668	
2023 January .....	61,357	1,404	138,339	945	70,870	-620	22,754	2,920	1,342	1,420	7,806	38,358	347,784	
February .....	46,374	1,628	124,892	891	60,807	-456	19,961	2,533	1,206	1,302	9,435	41,424	310,776	
March .....	50,096	1,238	133,558	1,028	62,820	-519	21,331	2,704	1,278	1,442	12,213	43,584	331,565	
April .....	40,233	1,169	119,878	866	56,662	-290	19,820	2,336	1,186	1,356	15,062	42,746	301,768	
May .....	43,804	1,210	137,296	1,011	61,155	-459	27,651	2,654	1,340	1,345	17,281	32,227	327,374	
June .....	57,772	1,267	161,851	974	64,819	-551	21,572	2,579	1,305	1,293	17,834	27,547	359,101	
July .....	78,903	1,615	199,289	1,046	69,888	-656	21,978	2,758	1,333	1,296	18,894	28,005	425,220	
August .....	78,112	1,609	199,000	1,088	69,744	-653	21,293	2,884	1,334	1,267	17,744	28,394	422,682	
September .....	59,959	1,486	166,151	983	65,560	-553	16,916	2,573	1,227	1,315	15,583	28,353	360,328	
October .....	50,933	1,283	140,655	924	61,436	-372	15,673	2,317	1,303	1,420	14,121	36,020	326,549	
November .....	51,209	1,085	135,358	959	62,258	-347	17,026	2,584	1,303	1,440	10,446	36,445	320,610	
December .....	56,365	1,238	149,798	1,062	68,854	-514	19,028	2,774	1,427	1,473	9,113	38,038	349,513	
Total .....	675,115	16,233	1,806,063	11,778	774,873	-5,990	245,002	31,615	15,585	16,367	165,530	421,141	4,183,271	
2024 January .....	75,691	1,864	160,136	1,071	69,080	-412	21,936	2,865	1,307	1,421	9,740	34,930	380,434	
February .....	44,058	981	130,987	766	64,584	-404	20,105	2,542	1,190	1,318	12,489	41,562	320,899	
March .....	38,390	978	130,604	719	63,346	-349	23,321	2,616	1,225	1,289	15,840	45,641	324,313	
April .....	37,322	1,165	121,282	767	57,621	-338	19,376	2,522	1,153	1,336	19,101	47,381	309,335	
May .....	45,913	1,182	143,618	774	64,973	-292	22,617	2,787	1,280	1,248	22,209	38,693	345,809	
June .....	61,393	1,317	169,307	880	68,192	-586	21,172	2,740	1,221	1,277	24,294	38,160	390,103	
July .....	71,686	1,447	207,717	854	69,885	-649	21,188	2,767	1,290	1,331	24,200	27,971	430,456	
August .....	68,838	1,456	203,075	861	69,760	-812	21,364	2,825	1,302	1,318	24,055	28,764	423,536	
September .....	54,628	1,133	169,393	741	62,660	-654	16,666	2,608	1,230	1,277	20,264	28,995	359,609	
October .....	46,957	1,104	146,348	620	58,773	-432	15,821	2,297	1,235	1,200	19,525	40,054	334,119	
November .....	44,995	1,084	137,041	758	61,904	-488	18,276	2,555	1,202	1,259	13,878	40,961	324,141	
December .....	62,888	1,554	145,365	995	71,200	-484	20,384	2,749	1,230	1,397	12,942	40,343	361,284	
Total .....	652,760	15,267	1,864,874	9,807	781,979	-5,900	242,226	31,875	14,866	15,671	218,538	453,454	4,304,039	
2025 January .....	83,150	3,388	156,527	978	71,739	-465	21,192	2,751	1,219	1,375	15,355	43,630	401,503	
February .....	62,262	1,503	132,340	1,000	61,829	-410	19,331	2,508	1,143	1,245	16,374	39,420	339,148	
March .....	49,134	1,256	118,920	683	62,457	-399	22,034	2,647	1,233	1,457	23,067	50,692	333,846	
3-Month Total .....	194,546	6,147	407,786	2,661	196,024	-1,274	62,558	7,906	3,595	4,077	54,797	133,742	1,074,497	
2024 3-Month Total .....	158,139	3,824	421,727	2,556	197,009	-1,165	65,362	8,023	3,722	4,028	38,069	122,133	1,025,646	
2023 3-Month Total .....	157,827	4,271	396,789	2,865	194,497	-1,595	64,047	8,157	3,826	4,163	29,453	123,366	990,125	

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

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

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

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

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

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

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

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

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

See Table 10.6.

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

<sup>k</sup> Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA=Not available.

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

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

Sources: Tables 7.2b and 7.2c.

**Table 7.2b Electricity Net Generation: Electric Power Sector**

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels				Nuclear Electric Power	Hydro-electric Pumped Storage <sup>e</sup>	Conventional Hydro-electric Power <sup>f</sup>	Renewable Energy					Total <sup>j</sup>
	Coal <sup>a</sup>	Petroleum <sup>b</sup>	Natural Gas <sup>c</sup>	Other Fossil Gases <sup>d</sup>				Biomass		Geo-thermal	Solar <sup>i</sup>	Wind	
								Wood <sup>g</sup>	Waste <sup>h</sup>				
1950 Total .....	154,520	33,734	44,559	NA	0	{ }	95,938	390	NA	NA	NA	NA	329,141
1955 Total .....	301,363	37,138	95,285	NA	0	{ }	112,975	276	NA	NA	NA	NA	547,038
1960 Total .....	403,067	47,987	157,970	NA	518	{ }	145,833	140	NA	33	NA	NA	755,549
1965 Total .....	570,926	64,801	221,559	NA	3,657	{ }	193,851	269	NA	189	NA	NA	1,055,252
1970 Total .....	704,394	184,183	372,890	NA	21,804	{ }	247,714	136	220	525	NA	NA	1,531,868
1975 Total .....	852,786	289,095	299,778	NA	172,505	{ }	300,047	18	174	3,246	NA	NA	1,917,649
1980 Total .....	1,161,562	245,994	346,240	NA	251,116	{ }	276,021	275	158	5,073	NA	NA	2,286,439
1985 Total .....	1,402,128	100,202	291,946	NA	383,691	{ }	281,149	743	640	9,325	11	6	2,469,841
1990 Total <sup>k</sup> .....	1,572,109	118,864	309,486	621	576,862	-3,508	289,753	7,032	11,500	15,434	367	2,789	2,901,322
1995 Total .....	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,194,230
2000 Total .....	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529
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
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	1,033,198	3,358	797,166	-6,174	258,046	15,027	17,602	15,877	17,304	181,496	3,936,961
2015 Total .....	1,340,993	26,505	1,238,842	3,715	797,178	-5,091	247,636	14,563	17,823	15,918	24,456	190,547	3,920,407
2016 Total .....	1,229,663	22,710	1,280,344	3,912	805,694	-6,686	266,326	13,420	18,183	15,826	35,497	226,790	3,918,977
2017 Total .....	1,197,838	20,039	1,198,014	4,126	804,950	-6,495	298,711	13,641	18,084	15,927	52,724	254,074	3,878,625
2018 Total .....	1,142,173	23,928	1,368,532	4,086	807,084	-5,905	291,148	13,385	17,623	15,934	63,253	272,396	4,020,877
2019 Total .....	958,732	17,220	1,479,858	4,037	809,409	-5,261	286,652	12,020	16,091	15,031	71,265	295,604	3,968,348
2020 Total .....	767,702	16,333	1,522,299	3,174	789,879	-5,321	284,059	11,211	15,625	15,441	88,511	337,666	3,854,170
2021 Total .....	892,440	18,308	1,476,603	3,304	779,645	-5,112	250,391	11,897	14,834	15,473	114,523	377,917	3,957,181
2022 Total .....	826,097	21,827	1,582,687	3,451	771,537	-6,028	253,627	12,002	11,739	16,087	142,847	433,994	4,073,888
2023 January .....	60,915	1,303	129,673	285	70,870	-620	22,640	994	976	1,420	7,763	38,335	334,884
February .....	45,995	1,535	116,732	238	60,807	-456	19,849	845	881	1,302	9,379	41,396	298,769
March .....	49,733	1,152	124,829	280	62,820	-519	21,198	859	933	1,442	12,138	43,555	318,696
April .....	39,877	1,109	112,301	202	56,662	-290	19,703	675	856	1,356	14,961	42,718	290,387
May .....	43,427	1,153	128,917	308	61,155	-459	27,541	839	963	1,345	17,175	32,206	314,885
June .....	57,400	1,208	152,766	273	64,819	-551	21,484	875	932	1,293	17,733	27,532	346,070
July .....	78,504	1,546	189,665	305	69,888	-656	21,885	989	954	1,296	18,788	27,996	411,451
August .....	77,734	1,544	189,336	333	69,744	-653	21,213	1,009	961	1,267	17,648	28,381	408,816
September .....	59,586	1,427	156,944	289	65,560	-553	16,851	819	889	1,315	15,500	28,342	347,210
October .....	50,575	1,222	131,868	249	61,436	-372	15,609	634	928	1,420	14,049	36,001	313,881
November .....	50,851	1,020	126,466	262	62,258	-347	16,960	779	918	1,440	10,388	36,422	307,692
December .....	55,971	1,169	140,360	316	68,854	-514	18,933	868	1,005	1,473	9,070	38,016	335,801
Total .....	670,569	15,388	1,699,856	3,340	774,873	-5,990	243,865	10,187	11,194	16,367	164,590	420,900	4,028,541
2024 January .....	75,275	1,777	150,332	292	69,080	-412	21,823	981	926	1,421	9,681	34,910	366,348
February .....	43,689	913	122,320	211	64,584	-404	20,002	777	843	1,318	12,410	41,540	308,437
March .....	37,981	920	122,059	195	63,346	-349	23,211	762	865	1,289	15,741	45,614	311,841
April .....	37,007	1,100	112,826	231	57,621	-338	19,281	695	805	1,336	18,986	47,351	297,075
May .....	45,559	1,122	135,079	192	64,973	-292	22,510	893	903	1,248	22,079	38,669	333,206
June .....	61,017	1,248	160,983	286	68,192	-586	21,067	906	883	1,277	24,156	38,137	377,754
July .....	71,274	1,381	198,555	251	69,885	-649	21,094	893	935	1,331	24,067	27,953	417,170
August .....	68,435	1,395	193,455	217	69,760	-812	21,263	911	941	1,318	23,923	28,747	409,746
September .....	54,260	1,080	160,639	250	62,660	-654	16,584	801	902	1,277	20,154	28,979	347,118
October .....	46,592	1,050	138,330	219	58,773	-432	15,744	663	880	1,200	19,420	40,033	322,622
November .....	44,621	1,017	128,707	208	61,904	-488	18,187	725	846	1,259	13,808	40,937	311,935
December .....	62,485	1,481	135,880	252	71,200	-484	20,284	889	867	1,397	12,879	40,317	347,654
Total .....	648,192	14,485	1,759,165	2,802	781,979	-5,900	241,050	9,897	10,596	15,671	217,305	453,189	4,150,907
2025 January .....	82,703	3,287	146,812	281	71,739	-465	21,092	922	872	1,375	15,285	43,603	387,678
February .....	61,870	1,436	124,041	305	61,829	-410	19,244	827	802	1,245	16,300	39,398	327,029
March .....	48,718	1,195	110,010	152	62,457	-399	21,930	821	875	1,457	22,960	50,656	321,012
3-Month Total .....	193,291	5,918	380,863	739	196,024	-1,274	62,266	2,570	2,549	4,077	54,545	133,657	1,035,720
2024 3-Month Total .....	156,945	3,610	394,711	698	197,009	-1,165	65,036	2,520	2,634	4,028	37,833	122,065	986,626
2023 3-Month Total .....	156,643	3,990	371,234	803	194,497	-1,595	63,687	2,699	2,790	4,163	29,279	123,285	952,348

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

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

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

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

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

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

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

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

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

See Table 10.6.

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

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

NA=Not available.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

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

	Commercial Sector <sup>a</sup>					Industrial Sector <sup>b</sup>							
	Coal <sup>c</sup>	Petro- leum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Total <sup>g</sup>	Coal <sup>c</sup>	Petro- leum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Fossil Gases <sup>h</sup>	Hydro- electric Power <sup>i</sup>	Biomass		Total <sup>k</sup>
				Waste <sup>f</sup>							Wood <sup>j</sup>	Waste <sup>f</sup>	
1950 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,946	NA	NA	4,946
1955 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,261	NA	NA	3,261
1960 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,607	NA	NA	3,607
1965 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,134	NA	NA	3,134
1970 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,244	NA	NA	3,244
1975 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106
1980 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1985 Total .....	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1990 Total .....	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830
1995 Total .....	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025
2000 Total .....	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
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
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 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 Total .....	329	112	8,042	2,515	13,060	7,669	1,239	91,647	8,343	1,382	27,412	1,012	143,758
2018 Total .....	303	140	8,419	2,404	13,312	7,011	1,157	94,892	9,377	1,149	27,475	868	146,798
2019 Total .....	268	121	8,610	2,129	13,689	5,957	1,000	100,065	8,554	1,033	26,433	743	148,537
2020 Total .....	240	100	8,110	2,053	13,046	5,451	908	96,381	8,644	1,001	24,916	814	142,551
2021 Total .....	280	98	7,346	2,156	12,768	5,278	767	95,240	8,093	936	24,413	800	139,750
2022 Total .....	287	112	7,830	3,838	16,737	5,128	993	96,548	8,271	899	23,289	806	140,043
<b>2023</b> January .....	28	10	619	303	1,311	414	91	8,047	660	85	1,914	63	11,590
February .....	26	19	583	268	1,210	354	75	7,577	654	86	1,680	57	10,797
March .....	20	7	606	282	1,260	343	79	8,122	748	104	1,838	63	11,609
April .....	21	4	560	274	1,210	334	57	7,017	665	87	1,655	57	10,170
May .....	17	5	591	317	1,314	359	53	7,789	703	84	1,811	60	11,175
June .....	9	4	656	325	1,378	362	56	8,429	701	69	1,693	49	11,654
July .....	12	5	777	332	1,522	387	64	8,847	741	69	1,758	48	12,247
August .....	12	4	740	326	1,465	366	61	8,923	755	57	1,862	48	12,401
September .....	15	4	701	297	1,365	358	55	8,506	694	46	1,741	41	11,753
October .....	18	5	621	315	1,318	340	56	8,166	675	40	1,675	60	11,351
November .....	18	5	604	320	1,303	340	59	8,287	697	45	1,796	65	11,615
December .....	23	7	686	335	1,411	370	62	8,751	746	72	1,896	88	12,302
<b>Total</b> .....	<b>220</b>	<b>78</b>	<b>7,744</b>	<b>3,693</b>	<b>16,066</b>	<b>4,327</b>	<b>767</b>	<b>98,463</b>	<b>8,438</b>	<b>844</b>	<b>21,320</b>	<b>698</b>	<b>138,664</b>
<b>2024</b> January .....	32	NM	699	319	1,428	384	73	9,105	780	85	1,868	62	12,659
February .....	21	6	654	287	1,302	348	62	8,014	555	78	1,759	60	11,161
March .....	19	7	676	290	1,339	389	52	7,869	524	83	1,850	71	11,132
April .....	13	NM	576	287	1,235	303	57	7,880	536	73	1,827	62	11,024
May .....	NM	7	620	315	1,350	346	54	7,918	582	80	1,889	63	11,254
June .....	11	8	686	294	1,396	365	61	7,638	594	75	1,824	43	10,953
July .....	14	NM	771	304	1,496	398	61	8,392	604	65	1,856	51	11,790
August .....	16	5	777	313	1,511	387	56	8,843	645	75	1,904	49	12,280
September .....	17	3	687	283	1,340	351	50	8,068	491	64	1,793	45	11,150
October .....	14	4	629	297	1,296	352	50	7,390	401	60	1,627	58	10,201
November .....	16	6	618	296	1,277	358	61	7,717	550	64	1,818	59	10,929
December .....	18	NM	678	303	1,357	385	63	8,807	744	71	1,851	60	12,273
<b>Total</b> .....	<b>200</b>	<b>81</b>	<b>8,069</b>	<b>3,587</b>	<b>16,327</b>	<b>4,367</b>	<b>701</b>	<b>97,639</b>	<b>7,006</b>	<b>874</b>	<b>21,867</b>	<b>683</b>	<b>136,805</b>
<b>2025</b> January .....	28	NM	687	290	1,367	419	82	9,028	697	71	1,817	58	12,458
February .....	22	NM	611	286	1,258	370	58	7,688	695	65	1,671	56	10,861
March .....	17	6	628	297	1,305	399	54	8,282	530	80	1,818	61	11,529
<b>3-Month Total</b> .....	<b>67</b>	<b>NM</b>	<b>1,926</b>	<b>872</b>	<b>3,930</b>	<b>1,188</b>	<b>195</b>	<b>24,998</b>	<b>1,922</b>	<b>216</b>	<b>5,305</b>	<b>175</b>	<b>34,847</b>
<b>2024 3-Month Total</b> .....	<b>72</b>	<b>26</b>	<b>2,028</b>	<b>895</b>	<b>4,069</b>	<b>1,122</b>	<b>187</b>	<b>24,988</b>	<b>1,858</b>	<b>246</b>	<b>5,478</b>	<b>193</b>	<b>34,951</b>
<b>2023 3-Month Total</b> .....	<b>74</b>	<b>36</b>	<b>1,808</b>	<b>853</b>	<b>3,781</b>	<b>1,110</b>	<b>245</b>	<b>23,747</b>	<b>2,061</b>	<b>276</b>	<b>5,432</b>	<b>183</b>	<b>33,996</b>

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

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

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

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

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

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

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

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

fossil fuels. Through 2010, also includes propane gas.

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

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

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

NA=Not available. NM=Not meaningful.

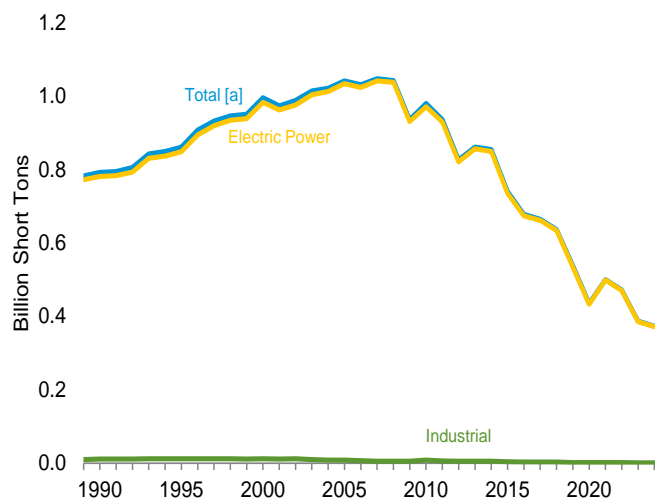
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is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

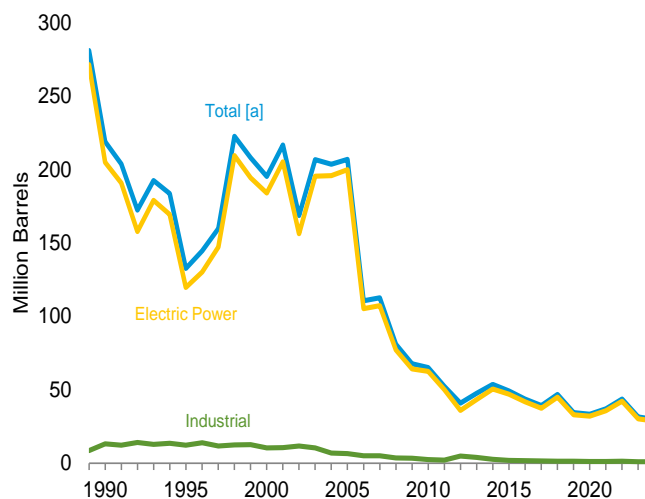
Sources: See end of section.

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

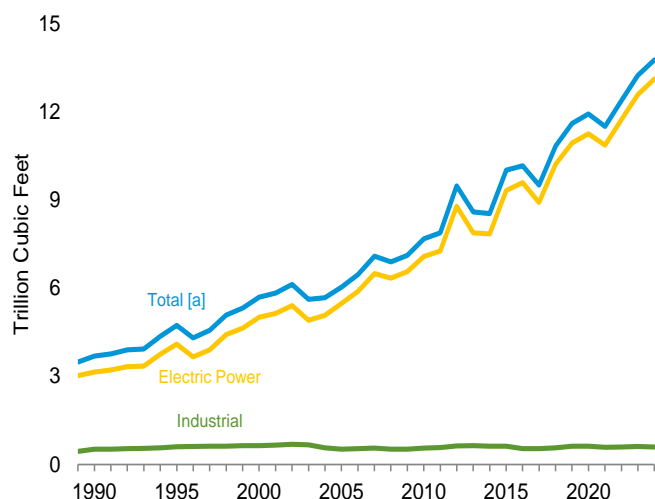
Coal by Sector, 1989–2024



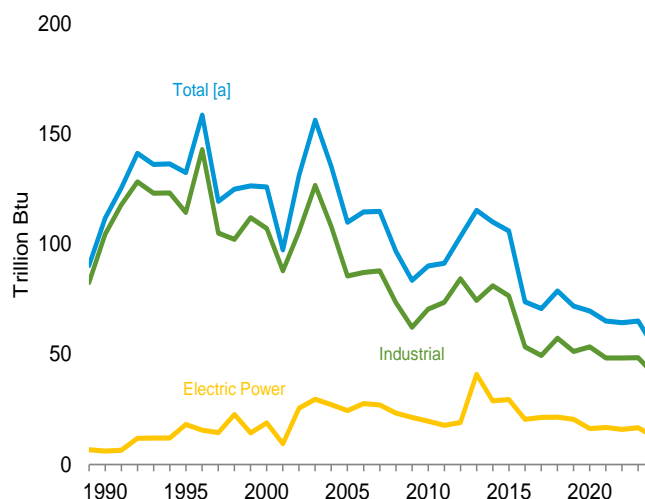
Petroleum by Sector, 1989–2024



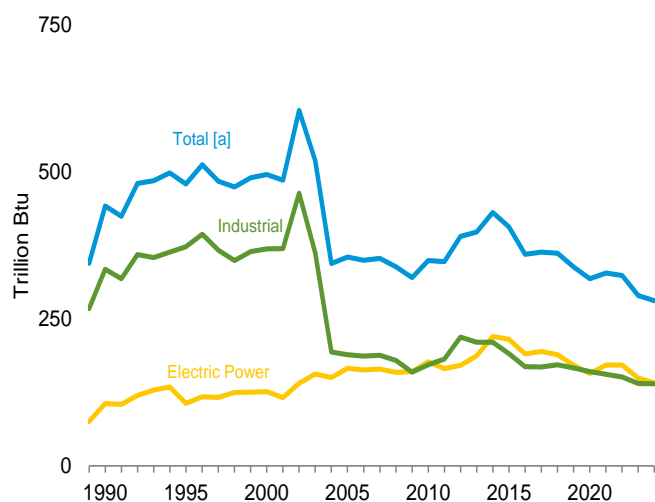
Natural Gas by Sector, 1989–2024



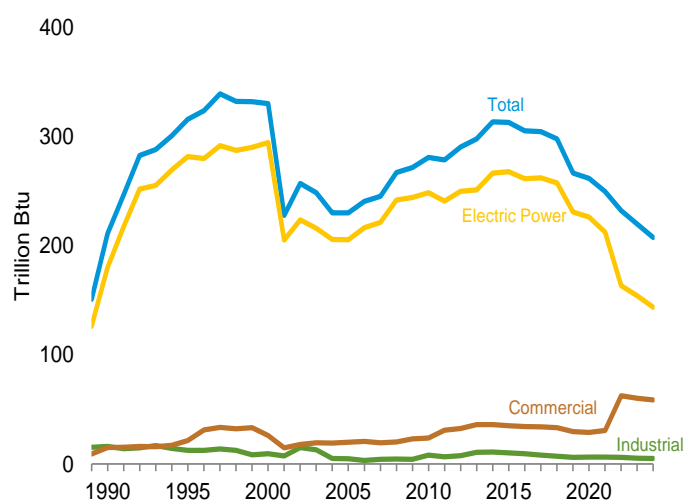
Other Fossil Gases [b] by Sector, 1989–2024



Wood by Sector, 1989–2024



Waste by Sector, 1989–2024



[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 <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>j</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billions Cubic Feet	Trillions Btu			
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total .....	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
2000 Total .....	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	46
2005 Total .....	1,041,448	20,651	141,518	2,968	8,330	206,785	6,036	110	355	230	173
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 Total .....	677,371	9,662	11,195	1,548	4,253	43,671	10,170	74	360	305	199
2017 Total .....	663,911	9,707	10,442	1,547	3,490	39,144	9,508	71	364	304	190
2018 Total .....	636,213	14,223	12,407	1,985	3,623	46,727	10,842	79	362	298	190
2019 Total .....	537,620	9,620	9,251	1,965	2,724	34,454	11,613	72	338	267	199
2020 Total .....	435,351	7,991	8,299	1,719	3,077	33,391	11,928	70	318	262	193
2021 Total .....	500,367	10,623	8,998	2,012	3,070	36,982	11,503	65	328	250	187
2022 Total .....	471,576	14,738	11,909	2,112	2,985	43,684	12,384	64	324	232	157
2023 January .....	35,506	839	787	195	179	2,718	987	5	27	19	13
February .....	26,854	1,101	1,131	201	163	3,248	886	5	23	17	11
March .....	28,671	734	789	154	135	2,350	960	6	24	18	12
April .....	22,889	725	739	141	124	2,224	883	5	21	17	11
May .....	25,484	838	739	112	144	2,408	1,015	6	24	19	12
June .....	33,541	769	760	151	162	2,489	1,204	5	24	18	12
July .....	44,412	724	897	156	266	3,108	1,500	6	26	19	13
August .....	43,887	824	821	144	265	3,114	1,498	6	27	19	13
September .....	34,223	636	883	147	238	2,854	1,225	5	24	18	12
October .....	29,580	703	958	164	125	2,450	1,041	5	20	18	12
November .....	29,549	747	787	137	80	2,071	986	5	23	18	12
December .....	32,031	793	778	134	147	2,440	1,059	6	25	20	13
Total .....	386,626	9,431	10,068	1,836	2,028	31,474	13,245	65	290	220	147
2024 January .....	42,428	1,718	1,061	259	138	3,730	1,163	6	26	18	12
February .....	25,926	622	712	136	114	2,041	940	4	22	16	11
March .....	22,274	678	697	134	63	1,825	945	4	23	17	11
April .....	21,253	953	701	359	103	2,530	907	4	21	16	11
May .....	26,227	852	775	104	118	2,323	1,069	4	25	18	12
June .....	34,450	814	794	118	169	2,569	1,264	5	24	17	12
July .....	40,501	873	877	130	185	2,803	1,556	5	24	18	12
August .....	39,427	948	855	110	181	2,816	1,517	5	25	18	12
September .....	31,629	692	807	99	108	2,137	1,249	4	23	17	11
October .....	27,462	773	856	103	80	2,132	1,090	3	20	17	11
November .....	26,455	731	789	113	80	2,034	1,014	4	23	16	11
December .....	35,423	1,068	1,019	147	122	2,842	1,061	5	25	17	12
Total .....	373,454	10,723	9,942	1,813	1,461	29,782	13,774	53	281	207	140
2025 January .....	45,855	3,073	1,508	373	223	6,071	1,155	5	25	17	12
February .....	35,141	1,094	883	167	130	2,793	956	5	22	15	10
March .....	27,920	730	768	119	146	2,346	861	4	23	17	11
3-Month Total .....	108,916	4,897	3,158	659	499	11,211	2,972	14	70	49	33
2024 3-Month Total .....	90,627	3,019	2,469	529	316	7,596	3,047	14	71	52	35
2023 3-Month Total .....	91,032	2,674	2,706	550	477	8,316	2,833	16	75	54	36

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

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

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

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

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

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

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

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

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

tire-derived fuels).

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

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

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

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

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

Sources: Tables 7.3b and 7.3c.

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

	Coal <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>j</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu		
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	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
2005 Total .....	1,033,567	19,450	138,337	2,591	7,877	199,760	5,485	24	166	205	116
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 Total .....	674,239	9,421	11,056	1,284	4,018	41,853	9,590	20	191	261	126
2017 Total .....	661,033	9,398	10,299	1,332	3,273	37,394	8,917	21	195	262	121
2018 Total .....	633,593	13,795	12,259	1,757	3,444	45,030	10,224	21	189	257	125
2019 Total .....	535,382	9,254	9,163	1,724	2,545	32,868	10,939	21	171	231	133
2020 Total .....	433,477	7,609	8,228	1,523	2,917	31,947	11,258	16	157	226	132
2021 Total .....	498,614	10,246	8,908	1,798	2,942	35,660	10,872	17	171	212	124
2022 Total .....	469,833	14,325	11,687	1,836	2,849	42,096	11,740	16	171	163	75
2023 January .....	35,359	806	764	166	168	2,576	933	1	15	13	6
February .....	26,729	1,051	1,110	188	154	3,121	837	1	12	12	6
March .....	28,551	696	773	139	123	2,221	906	1	12	13	6
April .....	22,771	702	725	127	117	2,139	835	1	10	12	6
May .....	25,356	812	730	96	136	2,317	963	2	12	13	6
June .....	33,419	745	751	129	155	2,399	1,148	2	13	13	6
July .....	44,277	700	888	136	256	3,002	1,441	2	14	13	7
August .....	43,760	798	810	126	256	3,015	1,438	2	15	13	7
September .....	34,097	612	872	131	230	2,766	1,168	1	12	12	6
October .....	29,456	680	947	147	117	2,359	986	1	9	13	6
November .....	29,426	722	773	122	72	1,980	932	1	11	12	6
December .....	31,897	762	761	119	138	2,335	1,001	2	13	14	6
Total .....	385,098	9,087	9,905	1,627	1,922	30,229	12,588	17	149	154	74
2024 January .....	42,288	1,676	1,036	245	131	3,611	1,103	1	14	13	6
February .....	25,798	592	700	111	108	1,944	887	1	11	11	6
March .....	22,135	649	685	121	57	1,738	892	1	11	12	6
April .....	21,147	921	687	344	97	2,435	855	1	10	11	5
May .....	26,106	820	762	89	112	2,231	1,016	1	13	12	6
June .....	34,324	780	781	103	160	2,466	1,213	1	12	12	6
July .....	40,362	851	866	114	176	2,712	1,500	1	12	13	6
August .....	39,291	924	842	99	173	2,731	1,458	1	13	13	6
September .....	31,500	672	797	85	102	2,063	1,196	1	12	12	6
October .....	27,334	754	848	88	NM	NM	1,041	1	10	12	6
November .....	26,330	711	776	98	71	1,943	963	1	11	11	6
December .....	35,286	1,042	1,001	134	113	2,742	1,003	1	13	11	6
Total .....	371,901	10,390	9,779	1,631	1,374	28,670	13,128	12	141	144	69
2025 January .....	45,704	3,033	1,484	353	216	5,948	1,095	1	13	12	6
February .....	35,016	1,061	865	162	124	2,710	906	1	11	11	5
March .....	27,780	709	754	106	140	2,269	807	1	12	11	6
3-Month Total .....	108,500	4,804	3,103	621	480	10,926	2,808	3	36	34	17
2024 3-Month Total .....	90,221	2,917	2,421	476	296	7,293	2,881	3	36	36	17
2023 3-Month Total .....	90,639	2,553	2,646	494	445	7,918	2,676	4	39	38	18

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

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

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

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

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

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

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

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

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

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

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

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

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.



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

	Commercial Sector <sup>a</sup>				Industrial Sector <sup>b</sup>						
	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
				Waste <sup>f</sup>					Wood <sup>h</sup>	Waste <sup>f</sup>	
Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu				
1990 Total .....	417	953	28	15	10,740	13,103	517	104	335	16	36
1995 Total .....	569	649	43	21	12,171	12,265	601	114	373	13	40
2000 Total .....	514	823	37	26	11,706	10,459	640	107	369	10	45
2005 Total .....	377	585	34	20	7,504	6,440	518	85	189	5	46
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 Total .....	111	116	46	34	3,021	1,701	534	53	169	10	53
2017 Total .....	95	204	50	34	2,783	1,545	541	49	169	8	49
2018 Total .....	87	279	53	33	2,534	1,418	565	57	172	7	46
2019 Total .....	76	257	56	30	2,161	1,329	618	51	167	6	45
2020 Total .....	72	242	52	29	1,802	1,202	619	53	160	6	40
2021 Total .....	87	256	46	31	1,666	1,066	585	48	156	6	39
2022 Total .....	87	269	49	63	1,655	1,319	595	48	151	6	18
2023 January .....	9	26	4	5	138	116	50	4	12	(s)	1
February .....	8	36	4	5	118	91	45	4	11	(s)	1
March .....	6	16	4	5	114	113	50	4	12	(s)	1
April .....	7	11	4	5	111	74	44	4	11	(s)	1
May .....	6	15	4	5	122	76	49	4	12	(s)	1
June .....	3	11	4	5	120	79	52	4	11	(s)	1
July .....	4	13	5	5	131	93	55	4	12	(s)	1
August .....	4	13	5	5	123	86	55	4	12	(s)	1
September .....	5	12	4	5	121	76	52	4	11	(s)	1
October .....	6	13	4	5	117	77	51	4	11	(s)	1
November .....	6	15	4	5	117	76	51	4	12	(s)	1
December .....	7	22	4	5	127	83	54	4	12	1	1
Total .....	69	203	49	60	1,460	1,042	608	48	140	5	12
2024 January .....	10	28	4	5	130	91	56	4	12	(s)	1
February .....	7	15	4	5	121	82	49	3	11	(s)	1
March .....	7	18	4	5	132	70	49	3	12	1	1
April .....	4	19	3	5	102	76	49	3	11	(s)	1
May .....	3	21	4	5	118	72	48	3	12	(s)	1
June .....	4	23	4	5	122	80	47	3	12	(s)	1
July .....	5	NM	5	5	133	81	52	3	12	(s)	1
August .....	6	11	5	5	131	74	54	4	12	(s)	1
September .....	6	8	4	5	123	66	49	3	11	(s)	1
October .....	5	9	4	5	124	70	45	2	11	(s)	1
November .....	5	11	4	5	119	80	47	3	12	(s)	1
December .....	6	NM	4	5	131	83	53	4	12	(s)	1
Total .....	67	189	49	59	1,487	923	598	41	140	5	11
2025 January .....	8	NM	4	5	143	96	55	4	11	(s)	1
February .....	7	NM	4	4	118	69	46	4	11	(s)	1
March .....	5	10	4	5	135	67	51	3	11	(s)	1
3-Month Total .....	21	NM	12	14	395	232	152	11	33	1	2
2024 3-Month Total .....	23	61	12	15	383	242	154	11	35	1	3
2023 3-Month Total .....	23	78	12	14	370	320	145	12	35	1	3

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

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

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

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

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

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

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

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

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

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

NM=Not meaningful. (s)=Less than 0.5 trillion Btu.

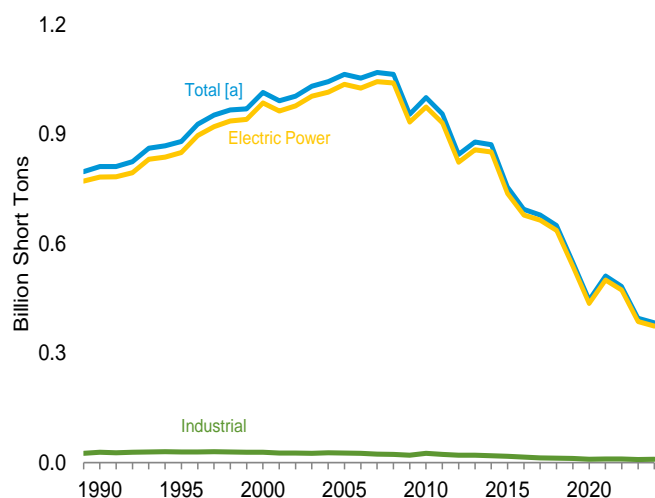
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data are for fuels consumed to produce electricity. Through 1988, data are not available. •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

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

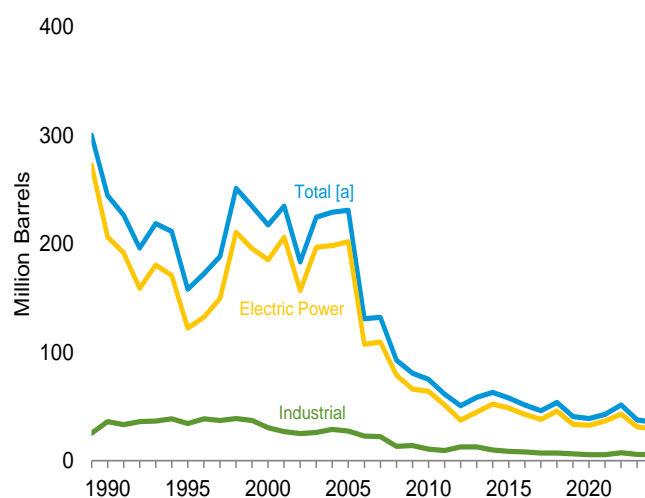
Sources: • **1989–1997:** U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998–2000:** EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • **2001–2003:** EIA, Form EIA-906, "Power Plant Report." • **2004–2007:** EIA, Form EIA-906,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

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

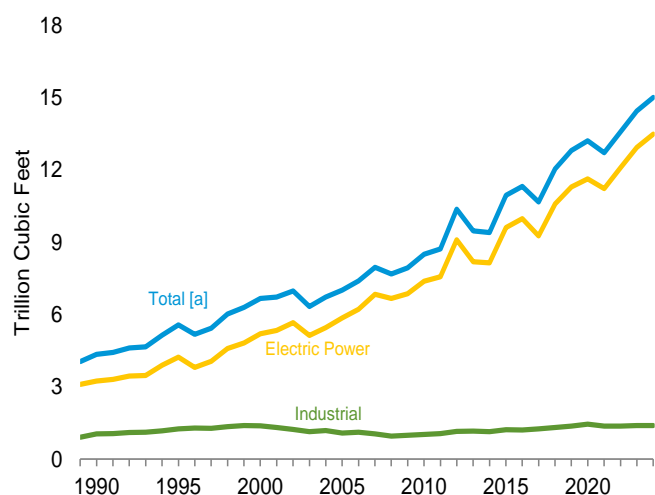
Coal by Sector, 1989–2024



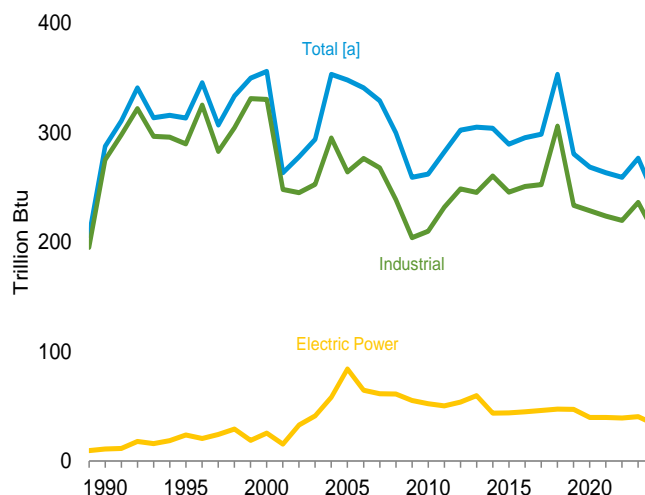
Petroleum by Sector, 1989–2024



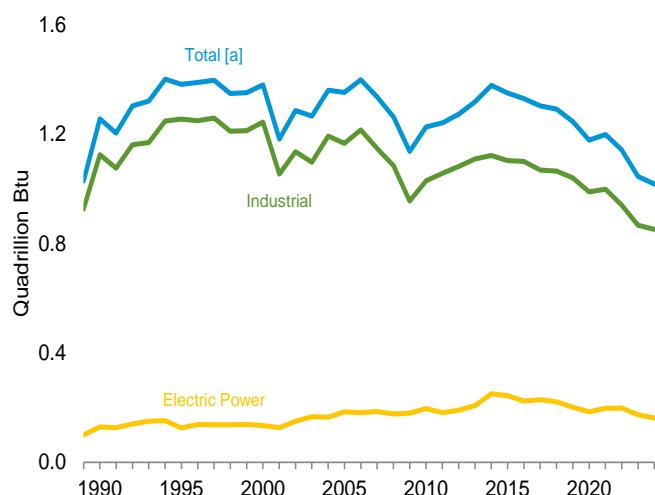
Natural Gas by Sector, 1989–2024



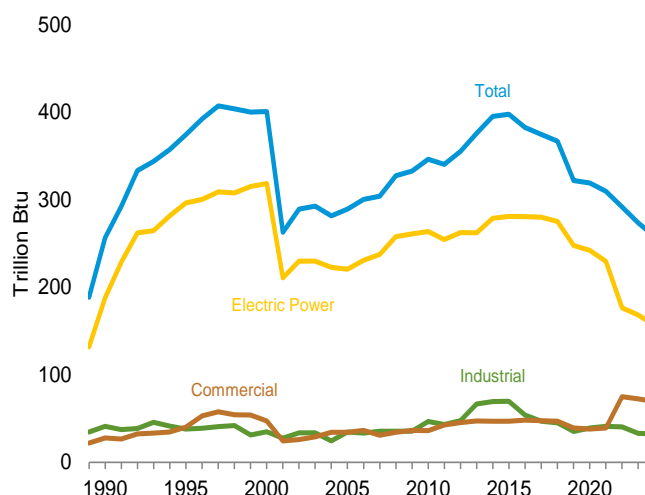
Other Fossil Gases [b] by Sector, 1989–2024



Wood by Sector, 1989–2024



Waste by Sector, 1989–2024



[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 <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>j</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu		
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	811,538	20,194	209,081	1,332	2,832	244,765	4,346	288	1,256	257	86
1995 Total .....	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
2000 Total .....	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2005 Total .....	1,065,281	24,446	156,915	4,270	9,113	231,193	7,021	348	1,353	289	237
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 Total .....	693,958	10,278	12,231	2,173	5,352	51,441	11,322	296	1,330	383	238
2017 Total .....	678,578	10,168	11,508	2,033	4,467	46,043	10,677	299	1,303	375	226
2018 Total .....	650,027	15,066	13,584	2,578	4,552	53,988	12,048	353	1,291	367	226
2019 Total .....	550,017	10,369	10,049	2,580	3,563	40,811	12,809	281	1,246	322	234
2020 Total .....	445,753	8,604	8,974	2,160	3,856	39,020	13,221	269	1,178	319	226
2021 Total .....	511,669	11,340	9,895	2,470	3,830	42,855	12,724	264	1,199	310	218
2022 Total .....	482,931	15,599	14,715	2,626	3,702	51,452	13,590	259	1,143	292	187
2023 January .....	36,428	932	1,051	243	228	3,366	1,092	22	96	25	15
February .....	27,641	1,177	1,400	228	201	3,810	982	21	84	22	14
March .....	29,511	846	970	187	195	2,977	1,063	23	91	23	14
April .....	23,599	778	989	166	175	2,810	976	22	80	22	14
May .....	26,227	875	840	138	200	2,852	1,110	23	88	24	15
June .....	34,273	804	856	186	213	2,911	1,303	23	83	22	15
July .....	45,223	758	1,005	189	318	3,541	1,606	24	88	22	16
August .....	44,658	858	958	177	321	3,599	1,602	24	90	22	16
September .....	34,975	679	1,015	178	290	3,324	1,325	25	85	21	14
October .....	30,313	739	1,082	196	178	2,909	1,138	25	82	23	15
November .....	30,308	805	949	164	129	2,565	1,089	21	88	23	15
December .....	32,833	911	974	164	200	3,050	1,168	23	91	25	16
Total .....	395,989	10,161	12,089	2,218	2,649	37,715	14,455	277	1,045	274	178
2024 January .....	43,324	1,857	1,362	291	197	4,497	1,279	23	90	24	15
February .....	26,700	695	860	175	152	2,489	1,041	20	79	21	13
March .....	23,151	763	865	166	99	2,292	1,048	21	86	22	14
April .....	21,978	1,015	871	390	147	3,008	1,002	19	83	21	13
May .....	26,929	931	957	134	165	2,848	1,167	21	86	22	14
June .....	35,182	905	978	148	218	3,118	1,363	21	81	20	14
July .....	41,276	901	996	163	235	3,233	1,662	21	84	21	15
August .....	40,239	974	991	135	233	3,267	1,625	21	89	21	15
September .....	32,355	716	937	128	150	2,529	1,350	19	86	20	13
October .....	28,205	807	1,000	133	120	2,540	1,190	18	79	22	13
November .....	27,243	763	972	145	124	2,502	1,117	18	86	21	14
December .....	36,248	1,116	1,252	174	173	3,405	1,172	21	89	22	14
Total .....	382,831	11,442	12,040	2,181	2,013	35,727	15,015	243	1,017	258	166
2025 January .....	46,756	3,183	1,742	412	273	6,703	1,269	21	87	22	14
February .....	35,935	1,185	1,087	179	169	3,296	1,055	20	77	20	12
March .....	28,753	769	940	146	190	2,803	962	21	85	22	13
3-Month Total .....	111,444	5,137	3,768	737	632	12,802	3,286	62	250	64	39
2024 3-Month Total .....	93,175	3,315	3,087	632	449	9,277	3,368	63	254	68	42
2023 3-Month Total .....	93,580	2,954	3,422	659	624	10,153	3,138	67	272	70	43

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sources: Tables 7.4b and 7.4c.

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

	Coal <sup>a</sup>	Petroleum					Natural Gas <sup>f</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>j</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	Total <sup>e</sup>			Wood <sup>h</sup>	Waste <sup>i</sup>	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion Btu		
1950 Total .....	91,871	5,423	69,998	NA	NA	75,421	629	NA	5	NA	NA
1955 Total .....	143,759	5,412	69,862	NA	NA	75,274	1,153	NA	3	NA	NA
1960 Total .....	176,685	3,824	84,371	NA	NA	88,195	1,725	NA	2	NA	NA
1965 Total .....	244,788	4,928	110,274	NA	NA	115,203	2,321	NA	3	NA	NA
1970 Total .....	320,182	24,123	311,381	NA	636	338,686	3,932	NA	1	2	NA
1975 Total .....	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total .....	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total .....	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total <sup>k</sup> .....	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total .....	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
2000 Total .....	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	1
2005 Total .....	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
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 Total .....	678,554	9,510	11,242	1,322	4,138	42,763	9,985	45	224	281	139
2017 Total .....	664,993	9,481	10,464	1,375	3,399	38,318	9,266	46	229	280	132
2018 Total .....	637,217	13,967	12,446	1,855	3,549	46,013	10,599	47	221	275	136
2019 Total .....	538,606	9,336	9,352	1,750	2,655	33,712	11,299	47	201	248	145
2020 Total .....	435,827	7,673	8,382	1,543	3,057	32,885	11,632	40	185	242	144
2021 Total .....	501,435	10,359	9,115	1,835	3,075	36,686	11,229	40	197	229	134
2022 Total .....	472,834	14,463	12,031	1,864	2,965	43,181	12,092	39	198	176	81
2023 January .....	35,569	817	792	168	178	2,666	963	3	17	15	7
February .....	26,903	1,063	1,134	190	166	3,215	866	3	15	14	6
March .....	28,758	703	794	141	135	2,315	936	3	16	14	7
April .....	22,900	711	748	128	128	2,226	862	3	12	13	6
May .....	25,509	819	755	98	146	2,402	989	4	14	14	7
June .....	33,579	751	774	131	164	2,477	1,177	4	15	14	7
July .....	44,480	704	912	137	266	3,083	1,473	4	16	14	7
August .....	43,954	802	833	127	267	3,096	1,470	4	16	14	7
September .....	34,277	615	896	132	241	2,850	1,198	3	13	13	6
October .....	29,618	685	979	149	125	2,440	1,015	3	12	14	7
November .....	29,584	727	797	124	80	2,050	962	3	13	14	7
December .....	32,076	767	789	121	149	2,421	1,032	4	15	15	7
Total .....	387,205	9,165	10,202	1,647	2,045	31,241	12,940	40	174	168	80
2024 January .....	42,490	1,693	1,060	249	145	3,729	1,136	3	16	14	7
February .....	25,963	596	717	113	116	2,006	917	2	12	13	6
March .....	22,323	652	705	123	64	1,803	922	3	13	13	6
April .....	21,289	925	705	347	102	2,488	880	3	12	12	6
May .....	26,253	825	785	91	120	2,302	1,045	2	14	13	6
June .....	34,464	786	804	105	169	2,539	1,244	3	14	13	6
July .....	40,519	856	888	115	185	2,784	1,534	3	14	13	7
August .....	39,471	928	862	102	183	2,805	1,493	3	15	14	7
September .....	31,640	675	815	87	109	2,121	1,228	3	13	13	6
October .....	27,465	763	872	90	NM	NM	1,071	3	11	13	6
November .....	26,470	715	804	100	78	2,011	992	3	13	13	6
December .....	35,457	1,046	1,034	137	122	2,827	1,033	3	14	13	6
Total .....	373,803	10,461	10,053	1,657	1,471	29,523	13,497	34	162	156	75
2025 January .....	45,901	3,071	1,512	355	224	6,057	1,128	3	15	13	6
February .....	35,185	1,101	894	163	132	2,819	934	4	13	12	6
March .....	27,932	712	769	107	149	2,332	834	3	13	13	6
3-Month Total .....	109,018	4,884	3,175	625	505	11,209	2,895	10	42	38	18
2024 3-Month Total .....	90,776	2,941	2,483	484	326	7,537	2,976	8	41	40	19
2023 3-Month Total .....	91,230	2,583	2,720	499	479	8,197	2,764	9	47	43	20

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

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

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

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

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

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

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

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

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

tire-derived fuels).

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

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

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

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Sources: See end of section.

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

	Commercial Sector <sup>a</sup>				Industrial Sector <sup>b</sup>						
	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Biomass	Coal <sup>c</sup>	Petroleum <sup>d</sup>	Natural Gas <sup>e</sup>	Other Fossil Gases <sup>g</sup>	Biomass		Other <sup>i</sup>
				Waste <sup>f</sup>					Wood <sup>h</sup>	Waste <sup>f</sup>	
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1990 Total .....	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86
1995 Total .....	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
2000 Total .....	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2005 Total .....	1,922	1,630	68	34	25,875	27,380	1,084	264	1,166	34	94
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 Total .....	683	404	127	48	14,720	8,273	1,209	251	1,100	54	70
2017 Total .....	610	516	154	48	12,975	7,209	1,257	253	1,069	47	65
2018 Total .....	577	681	135	47	12,233	7,294	1,314	306	1,065	45	62
2019 Total .....	519	707	135	39	10,892	6,393	1,374	234	1,040	35	61
2020 Total .....	473	527	131	38	9,453	5,609	1,458	229	989	39	55
2021 Total .....	534	614	117	39	9,700	5,555	1,379	224	999	41	55
2022 Total .....	535	830	123	75	9,563	7,441	1,375	220	941	40	32
2023 January .....	51	95	10	6	808	606	120	19	79	4	2
February .....	44	68	9	5	694	527	107	18	69	3	2
March .....	39	42	10	6	714	620	117	20	75	3	2
April .....	36	18	9	6	664	567	106	19	68	3	2
May .....	28	25	9	6	691	425	113	20	73	3	2
June .....	22	27	10	6	672	406	117	19	67	2	2
July .....	26	29	11	6	718	429	122	20	71	2	2
August .....	26	29	11	6	677	474	122	20	74	2	2
September .....	27	32	10	6	671	442	117	22	71	2	2
October .....	27	30	10	6	668	438	114	21	69	3	2
November .....	34	52	10	6	691	464	117	18	74	3	3
December .....	39	135	11	7	718	494	126	19	76	4	3
Total .....	400	582	119	72	8,384	5,891	1,396	236	867	33	26
2024 January .....	54	121	11	6	780	646	131	19	73	3	2
February .....	39	61	10	6	698	422	114	17	66	3	2
March .....	36	81	10	6	792	408	115	18	73	3	2
April .....	30	61	9	6	659	460	113	16	72	3	2
May .....	19	86	9	6	658	460	113	19	72	3	1
June .....	29	96	10	6	689	484	110	18	67	2	2
July .....	31	NM	10	6	726	431	117	18	69	2	3
August .....	32	17	10	6	736	445	121	19	74	2	2
September .....	31	14	9	5	683	394	113	16	72	2	1
October .....	29	16	9	6	711	414	110	15	67	3	1
November .....	32	22	9	6	740	468	115	15	73	3	2
December .....	35	NM	11	6	756	536	128	18	74	3	2
Total .....	398	636	119	69	8,630	5,568	1,399	209	852	32	22
2025 January .....	47	NM	11	6	808	575	130	18	72	3	2
February .....	41	42	10	5	710	434	112	17	64	3	1
March .....	36	25	10	6	785	446	119	18	71	3	2
3-Month Total .....	124	NM	30	17	2,302	1,455	360	53	207	9	5
2024 3-Month Total .....	128	264	32	18	2,271	1,476	360	55	212	10	6
2023 3-Month Total .....	135	205	30	17	2,215	1,752	344	58	224	10	6

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

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

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

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

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

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

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

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

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

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

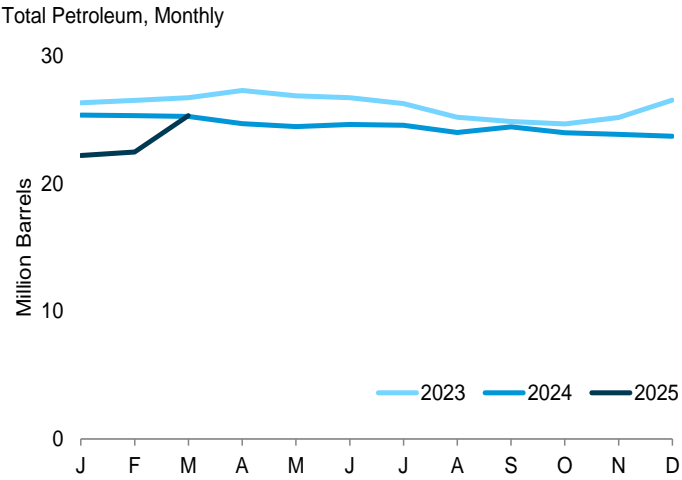
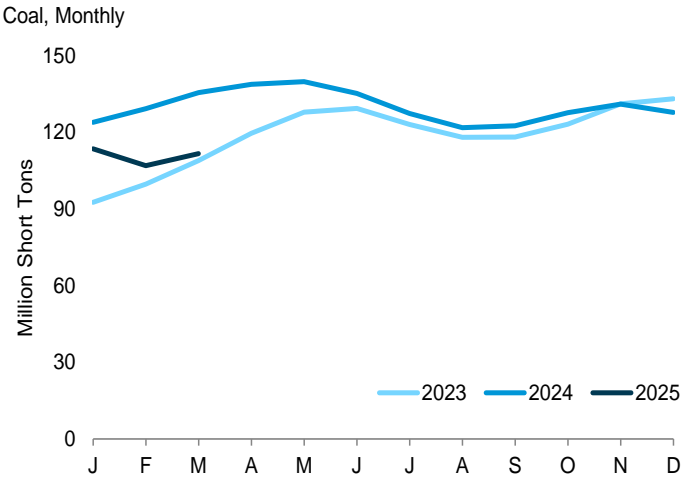
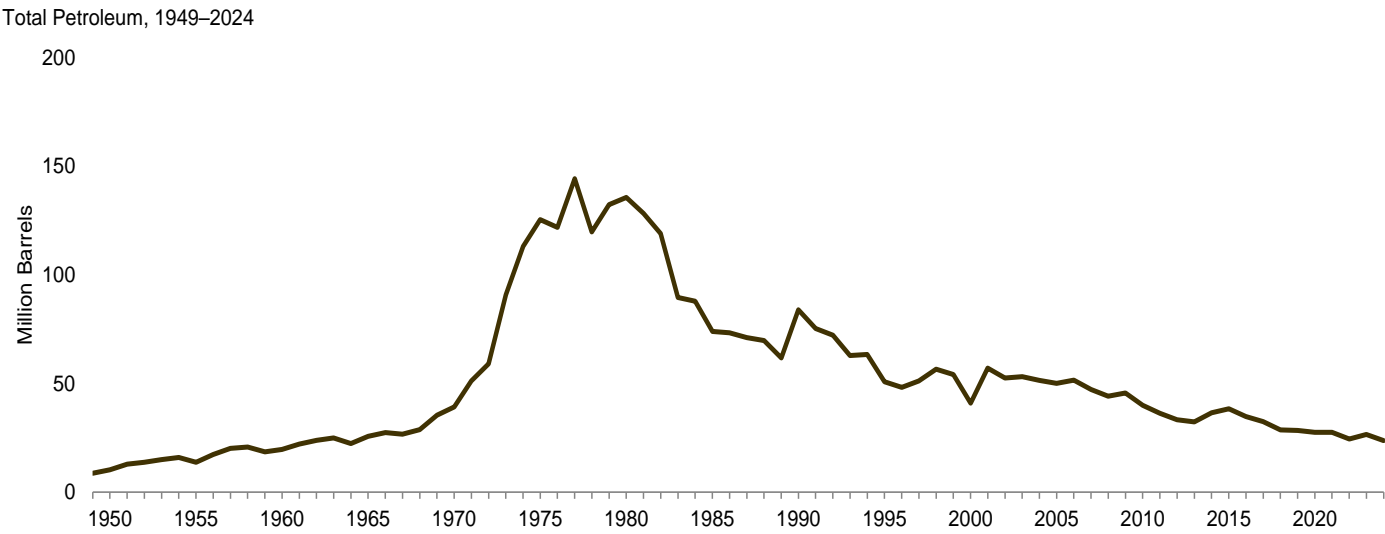
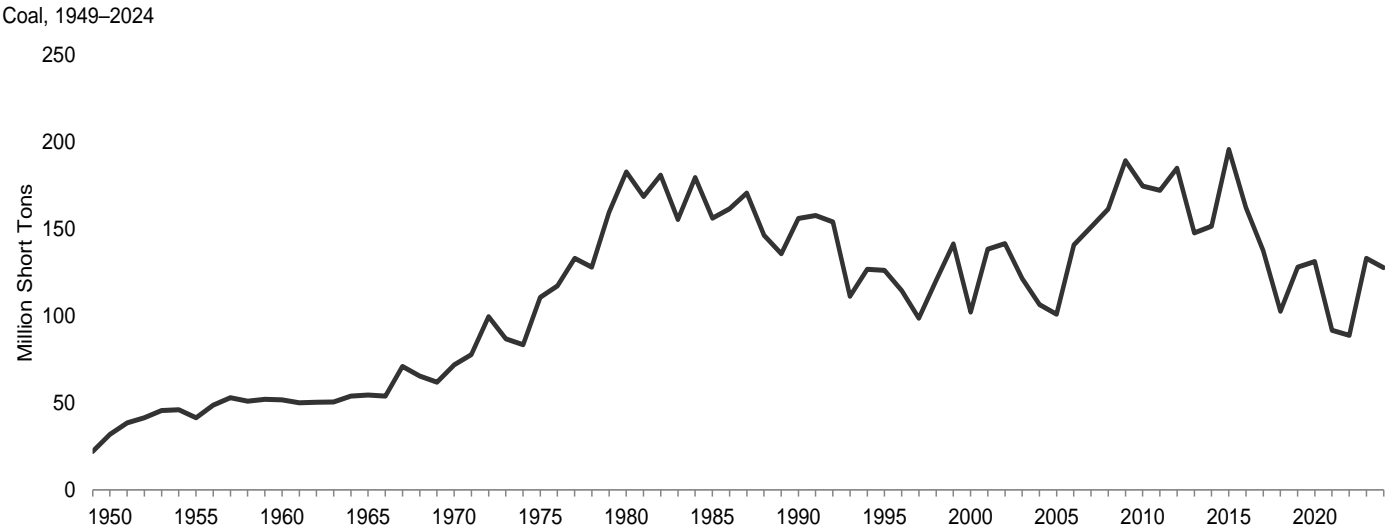
NM=Not meaningful.

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



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 <sup>a</sup>	Petroleum				Total <sup>e,f</sup>
		Distillate Fuel Oil <sup>b</sup>	Residual Fuel Oil <sup>c</sup>	Other Liquids <sup>d</sup>	Petroleum Coke <sup>e</sup>	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels
1950 Year .....	31,842	NA	NA	NA	NA	10,201
1955 Year .....	41,391	NA	NA	NA	NA	13,671
1960 Year .....	51,735	NA	NA	NA	NA	19,572
1965 Year .....	54,525	NA	NA	NA	NA	25,647
1970 Year .....	71,908	NA	NA	NA	239	39,151
1975 Year .....	110,724	16,432	108,825	NA	31	125,413
1980 Year .....	183,010	30,023	105,351	NA	52	135,635
1985 Year .....	156,376	16,386	57,304	NA	49	73,933
1990 Year .....	156,166	16,471	67,030	NA	94	83,970
1995 Year .....	126,304	15,392	35,102	NA	65	50,821
2000 Year <sup>g</sup> .....	102,296	15,127	24,748	NA	211	40,932
2005 Year .....	101,137	18,778	27,624	NA	530	50,062
2010 Year .....	174,917	16,758	16,629	1,454	1,019	39,936
2011 Year .....	172,387	16,649	15,491	1,603	508	36,282
2012 Year .....	185,116	16,433	12,999	1,430	495	33,336
2013 Year .....	147,884	16,068	12,926	1,393	390	32,336
2014 Year .....	151,792	18,309	12,764	1,249	827	36,459
2015 Year .....	195,912	17,955	12,566	1,173	1,340	38,396
2016 Year .....	162,476	17,855	11,789	949	845	34,818
2017 Year .....	137,721	16,342	10,930	816	864	32,407
2018 Year .....	102,793	16,436	8,785	756	539	28,674
2019 Year .....	128,102	16,733	8,549	678	471	28,317
2020 Year .....	131,431	17,116	8,269	678	298	27,552
2021 Year .....	91,884	18,220	7,038	744	302	27,513
2022 Year .....	88,861	16,521	5,777	513	318	24,404
<b>2023</b> January .....	92,714	17,716	6,116	578	385	26,335
February .....	99,760	17,879	6,190	554	380	26,522
March .....	109,041	17,475	6,056	528	534	26,731
April .....	119,671	17,419	6,103	546	644	27,286
May .....	128,001	17,331	5,995	556	600	26,881
June .....	129,404	17,536	5,977	554	533	26,730
July .....	123,131	17,393	6,144	527	440	26,266
August .....	118,113	16,777	6,120	520	356	25,195
September .....	118,271	16,837	6,115	517	279	24,863
October .....	123,265	16,796	5,944	516	284	24,675
November .....	131,208	16,888	5,907	540	369	25,180
<b>December</b> .....	<b>133,253</b>	<b>17,628</b>	<b>6,058</b>	<b>717</b>	<b>427</b>	<b>26,539</b>
<b>2024</b> January .....	124,057	17,338	5,845	623	312	25,366
February .....	129,331	17,235	5,940	610	308	25,327
March .....	135,669	17,045	5,965	597	333	25,272
April .....	138,908	16,679	5,988	484	309	24,694
May .....	139,971	16,520	5,917	478	312	24,473
June .....	135,368	16,776	5,792	460	322	24,639
July .....	127,494	16,631	5,558	462	384	24,573
August .....	121,858	16,181	5,417	458	390	24,008
September .....	122,669	16,457	5,319	444	444	24,437
October .....	127,816	16,107	5,295	433	428	23,974
November .....	131,112	16,157	5,248	426	404	23,853
<b>December</b> .....	<b>127,911</b>	<b>16,048</b>	<b>5,058</b>	<b>415</b>	<b>438</b>	<b>23,713</b>
<b>2025</b> January .....	113,635	15,207	4,541	468	395	22,193
February .....	106,984	15,596	4,379	470	405	22,471
March .....	111,776	18,239	4,778	467	368	25,325

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

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

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

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

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

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

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

NA=Not available.

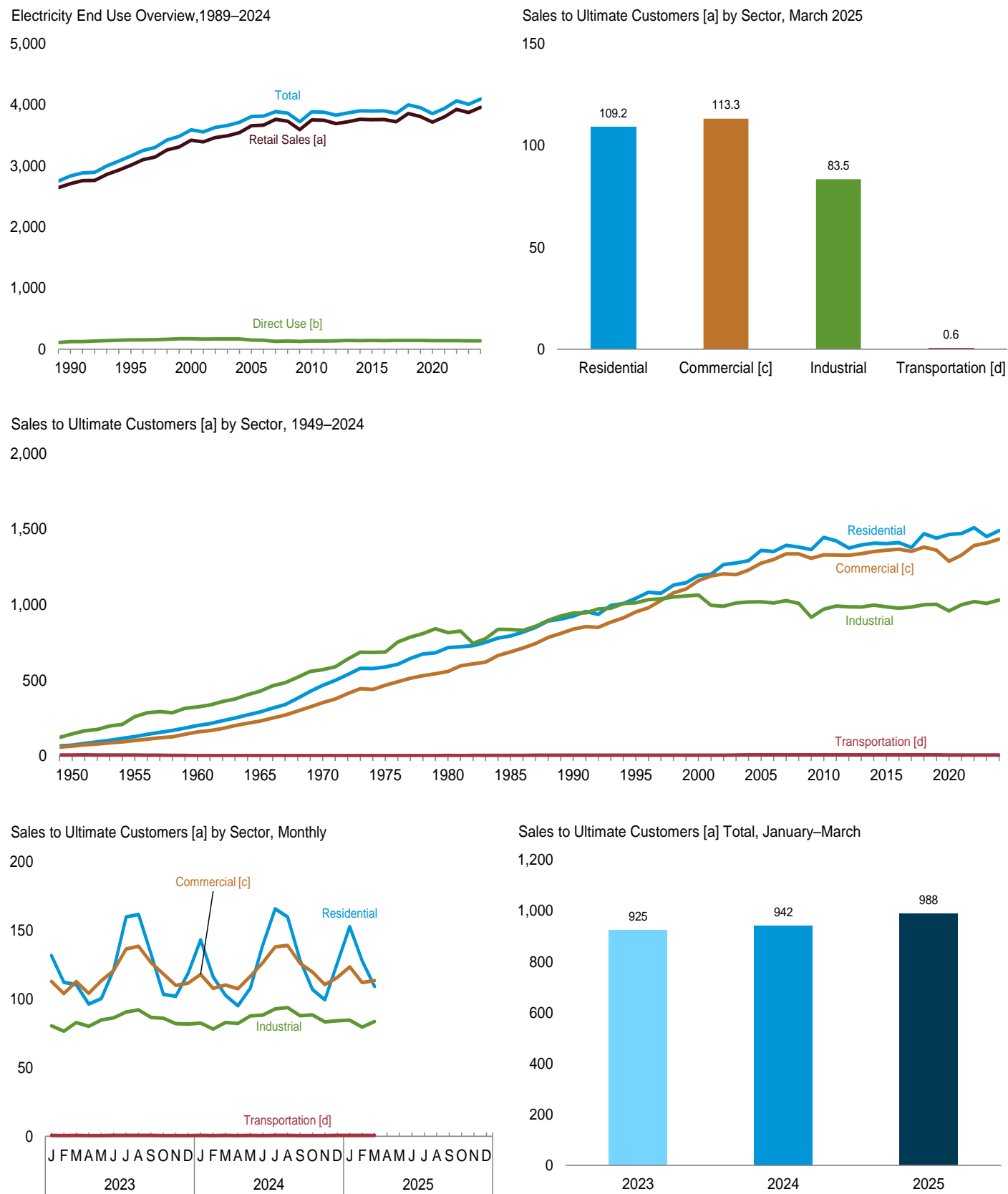
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose

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

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

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

Figure 7.6 Electricity End Use  
(Billion Kilowatthours)



[a] Electricity 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 and Electric Vehicle Use**  
(Million Kilowatthours)

	Sales to Ultimate Customers <sup>a</sup>					Direct Use <sup>g</sup>	Total End Use <sup>h</sup>	Electric Vehicle Use <sup>b,i</sup>
	Residential <sup>b</sup>	Commercial <sup>b,c</sup>	Industrial <sup>b,d</sup>	Transportation <sup>e</sup>	Total Sales <sup>f</sup>			
1950 Total .....	72,200	E 65,971	146,479	E 6,793	291,443	NA	291,443	NA
1955 Total .....	128,401	E 102,547	259,974	E 5,826	496,748	NA	496,748	NA
1960 Total .....	201,463	E 159,144	324,402	E 3,066	688,075	NA	688,075	NA
1965 Total .....	291,013	E 231,126	428,727	E 2,923	953,789	NA	953,789	NA
1970 Total .....	466,291	E 352,041	570,854	E 3,115	1,392,300	NA	1,392,300	NA
1975 Total .....	588,140	E 468,296	687,680	E 2,974	1,747,091	NA	1,747,091	NA
1980 Total .....	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	NA
1985 Total .....	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	NA
1990 Total .....	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	NA
1995 Total .....	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	NA
2000 Total .....	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	NA
2005 Total .....	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984	NA
2010 Total .....	1,445,708	1,330,199	971,221	7,712	3,754,841	131,910	3,886,752	NA
2011 Total .....	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600	NA
2012 Total .....	1,374,515	1,327,101	985,714	7,320	3,694,650	137,657	3,832,306	NA
2013 Total .....	1,394,812	1,337,079	985,352	7,625	3,724,868	143,462	3,868,330	NA
2014 Total .....	1,407,208	1,352,158	997,576	7,758	3,764,700	138,574	3,903,274	NA
2015 Total .....	1,404,096	1,360,752	986,508	7,637	3,758,992	141,168	3,900,160	NA
2016 Total .....	1,411,058	1,367,191	976,715	7,497	3,762,462	139,837	3,902,298	NA
2017 Total .....	1,378,648	1,352,888	984,298	7,523	3,723,356	140,959	3,864,315	NA
2018 Total .....	1,469,093	1,381,755	1,000,673	7,665	3,859,185	143,904	4,003,089	E 1,582
2019 Total .....	1,440,289	1,360,877	1,002,353	7,632	3,811,150	143,270	3,954,421	E 2,060
2020 Total .....	1,464,605	1,287,440	959,082	6,548	3,717,674	138,246	3,855,921	E 2,900
2021 Total .....	1,470,487	1,328,439	1,000,613	6,334	3,805,874	138,915	3,944,789	E 3,519
2022 Total .....	1,509,233	1,390,873	1,020,464	6,599	3,927,169	139,726	4,066,895	E 5,252
2023 January .....	131,638	112,790	80,408	579	325,415	E 11,416	336,830	E 527
February .....	112,105	103,830	76,449	561	292,946	E 10,625	303,571	E 512
March .....	110,417	112,643	82,817	577	306,454	E 11,388	317,842	E 592
April .....	96,196	104,091	80,011	513	280,811	E 10,070	290,882	E 546
May .....	100,231	113,243	84,704	529	298,706	E 11,051	309,757	E 602
June .....	121,320	120,707	86,193	579	328,798	E 11,531	340,329	E 621
July .....	159,715	136,394	90,526	621	387,256	E 12,184	399,440	E 662
August .....	161,460	138,390	92,009	578	392,436	E 12,270	404,706	E 678
September .....	132,807	126,546	86,472	652	346,476	E 11,608	358,084	E 661
October .....	103,314	118,208	85,978	565	308,065	E 11,210	319,276	E 704
November .....	101,907	109,756	82,036	549	294,248	E 11,431	305,679	E 714
December .....	118,917	111,512	81,652	561	312,642	E 12,134	324,776	E 776
Total .....	1,450,025	1,408,109	1,009,256	6,864	3,874,253	136,918	4,011,172	E 7,596
2024 January .....	142,948	117,809	82,351	611	343,718	E 12,465	356,183	E 912
February .....	116,110	107,740	78,050	541	302,441	E 11,028	313,469	E 823
March .....	102,625	110,056	82,911	599	296,191	E 11,036	307,227	E 926
April .....	95,053	107,380	82,104	538	285,075	E 10,848	295,923	E 874
May .....	107,862	116,427	87,687	597	312,573	E 11,153	323,726	E 947
June .....	139,149	126,303	88,265	571	354,287	E 10,927	365,214	E 952
July .....	165,592	137,860	92,706	641	396,800	E 11,757	408,556	E 1,014
August .....	159,643	138,936	93,673	625	392,877	E 12,203	405,080	E 1,031
September .....	128,326	125,917	87,834	566	342,643	E 11,053	353,696	E 989
October .....	106,874	119,616	88,327	571	315,389	E 10,173	325,563	E 1,067
November .....	99,356	110,381	83,252	560	293,549	E 10,801	304,349	E 1,033
December .....	126,068	115,583	84,093	604	326,348	E 12,061	338,409	E 1,172
Total .....	1,489,607	1,434,007	1,031,253	7,024	3,961,890	E 135,505	4,097,395	E 11,740
2025 January .....	152,648	123,313	84,528	634	361,123	E 12,233	373,356	E 1,541
February .....	127,797	111,922	79,414	609	319,742	E 10,724	330,466	E 1,385
March .....	109,176	113,325	83,535	616	306,652	E 11,357	318,009	NA
3-Month Total .....	389,622	348,560	247,477	1,859	987,517	E 34,313	1,021,831	NA
2024 3-Month Total .....	361,683	335,605	243,312	1,751	942,350	E 34,529	976,879	E 2,661
2023 3-Month Total .....	354,160	329,263	239,674	1,717	924,814	E 33,428	958,243	E 1,631

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

<sup>b</sup> Electricity sales to the residential, commercial, and industrial sectors, based on class of service, including sales of electricity to operate and move electric vehicles. See Note 4, "Experimental Estimates of Electric Vehicle Use," at end of section.

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

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

<sup>e</sup> Sales to public railroads and railway systems only. Excludes the estimated amount of electricity used to operate and move electric vehicles.

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

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

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

<sup>h</sup> The sum of "Total Sales to Ultimate Customers" and "Direct Use."

<sup>i</sup> Electricity used to operate and move on-road light-duty electric vehicles (less than or equal to 8,500 pounds). Excludes motor gasoline consumption by plug-in hybrid electric vehicles. Electric vehicle use is estimated independently and should not be added to the sales or total end use columns as it will result in double counting. See Note 4, "Experimental Estimates of Electric Vehicle Use," at end of section.

E=Estimate. NA=Not available.

Notes: • See Note 1, "Coverage of Electricity Statistics," at end of section.  
• See Note 4, "Experimental Estimates of Electric Vehicle Use," 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.

Electric vehicle use data after February 2025 were not available in time for publication.

**Table 7.7a Electric Net Summer Capacity: Total (All Sectors)**

(Sum of Tables 7.7b, 7.7c, and 7.7d; Million Kilowatts)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage	Renewable Energy							Battery Storage	Total <sup>i</sup>	
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Total <sup>d</sup>			Conven- tional Hydro- electric Power <sup>e</sup>	Biomass		Geo- thermal	Solar <sup>h</sup>	Wind	Total			
								Wood <sup>f</sup>	Waste <sup>g</sup>							
1950 Year .....	NA	NA	NA	50.0	0.0	(e)	19.2	(s)	(j)	NA	NA	NA	19.2	NA	69.2	
1955 Year .....	NA	NA	NA	86.8	.0	(e)	27.4	(s)	(j)	NA	NA	NA	27.4	NA	114.2	
1960 Year .....	NA	NA	NA	130.8	.4	(e)	35.8	.1	(j)	(s)	NA	NA	35.9	NA	167.1	
1965 Year .....	NA	NA	NA	182.9	.8	(e)	51.0	.1	(j)	(s)	NA	NA	51.1	NA	234.8	
1970 Year .....	NA	NA	NA	265.4	7.0	(e)	63.8	.1	(j)	.1	NA	NA	64.0	NA	336.4	
1975 Year .....	NA	NA	NA	375.1	37.3	(e)	78.4	.1	(j)	.5	NA	NA	79.0	NA	491.3	
1980 Year .....	NA	NA	NA	444.1	51.8	(e)	81.7	.1	(j)	.9	NA	NA	82.7	NA	578.6	
1985 Year .....	NA	NA	NA	485.0	79.4	(e)	88.9	.2	(j)	.2	1.6	(k)	(s)	90.8	NA	655.2
1990 Year .....	307.4	77.9	140.8	527.8	99.6		19.5	73.9	5.5	2.5	2.7	.3	1.8	86.8	NA	734.1
1995 Year .....	311.4	66.6	174.5	554.2	99.5		21.4	78.6	6.8	3.5	3.0	.3	1.7	93.9	NA	769.5
2000 Year .....	315.1	61.8	219.6	598.9	97.9		19.5	79.4	6.1	3.9	2.8	.4	2.4	94.9	NA	811.7
2005 Year .....	313.4	58.5	383.1	757.1	100.0		21.3	77.5	6.2	3.6	2.3	.4	8.7	98.7	NA	978.0
2010 Year .....	317.3	55.6	405.1	780.3	101.2		22.2	78.8	7.0	4.4	2.4	.9	39.1	132.6	(s)	1,039.1
2011 Year .....	317.6	51.5	415.2	786.2	101.4		22.3	78.7	7.1	4.5	2.4	1.5	45.7	139.9	.1	1,051.3
2012 Year .....	309.7	47.2	422.4	781.2	101.9		22.4	78.7	7.5	4.8	2.6	3.2	59.1	155.9	.1	1,063.0
2013 Year .....	303.3	43.5	425.4	774.3	99.2		22.4	79.2	8.4	5.0	2.6	6.6	60.0	161.8	.1	1,060.1
2014 Year .....	299.1	41.1	432.2	774.3	98.6		22.5	79.7	8.4	5.2	2.5	10.3	64.2	170.3	.2	1,068.4
2015 Year .....	279.7	36.8	439.4	758.5	98.7		22.6	79.7	9.0	5.1	2.5	13.7	72.6	182.5	.3	1,064.1
2016 Year .....	266.6	34.4	446.8	750.3	99.6		22.8	79.9	8.9	5.1	2.5	22.0	81.3	199.7	.6	1,074.3
2017 Year .....	256.5	33.3	456.0	748.2	99.6		22.8	79.8	8.8	5.1	2.5	27.0	87.6	210.8	.7	1,084.4
2018 Year .....	242.8	32.2	470.2	747.8	99.4		22.8	79.9	8.7	5.0	2.4	31.9	94.4	222.3	.9	1,094.7
2019 Year .....	228.7	31.4	476.6	739.1	98.1		22.8	79.8	8.4	4.7	2.6	37.5	103.6	236.5	1.0	1,099.1
2020 Year .....	215.6	27.6	485.8	731.2	96.5		23.0	79.9	8.3	4.6	2.6	48.1	118.4	261.9	1.5	1,115.7
2021 Year .....	209.8	28.2	491.9	731.8	95.5		23.0	79.9	7.9	4.5	2.6	61.6	132.8	289.2	4.7	1,145.9
2022 Year .....	189.3	30.8	502.4	724.2	94.7		23.0	80.1	7.8	4.3	2.6	72.9	141.4	309.1	9.0	1,161.4
2023 January .....	186.8	29.6	503.6	722.0	94.6		23.1	80.0	7.9	4.3	2.7	74.3	141.5	310.7	9.2	1,161.0
February .....	186.8	29.6	504.9	723.2	94.6		23.1	80.0	7.9	4.2	2.7	74.9	142.2	311.9	9.3	1,163.5
March .....	186.0	29.6	504.8	722.3	94.6		23.1	80.0	7.9	4.2	2.6	75.4	142.7	312.8	9.6	1,163.9
April .....	186.0	29.6	506.4	723.9	94.6		23.1	80.0	7.9	4.2	2.7	76.4	143.0	314.1	9.8	1,167.0
May .....	184.5	29.6	505.5	721.5	94.6		23.1	80.0	7.9	4.2	2.7	77.5	143.8	315.9	9.9	1,166.5
June .....	182.4	29.4	506.4	720.1	94.6		23.1	80.0	7.9	4.2	2.7	79.1	143.7	317.5	10.8	1,167.6
July .....	181.7	29.4	507.2	720.2	95.7		23.1	80.0	7.8	4.2	2.7	80.4	144.2	319.3	12.3	1,172.1
August .....	181.1	29.5	507.2	719.6	95.7		23.1	80.0	7.8	4.2	2.7	81.1	144.3	320.0	12.8	1,172.8
September .....	180.2	29.5	506.8	718.4	95.7		23.1	80.0	7.8	4.2	2.7	82.1	144.4	321.1	13.5	1,173.3
October .....	179.8	29.5	506.8	717.9	95.7		23.1	80.0	7.8	4.1	2.7	83.9	145.2	323.7	13.8	1,175.7
November .....	179.8	29.5	507.5	718.6	95.7		23.1	80.0	7.7	4.2	2.7	84.9	145.2	324.6	14.2	1,177.7
December .....	178.4	29.4	507.5	717.3	95.7		23.1	80.0	7.7	4.1	2.7	92.0	147.4	334.0	16.0	1,187.6
2024 January .....	176.8	29.4	508.5	716.6	95.7		23.1	79.8	7.6	4.1	2.7	94.8	148.4	337.5	15.9	1,190.3
February .....	176.8	29.4	508.5	716.6	95.7		23.1	79.8	7.6	4.1	2.7	95.4	148.6	338.3	15.9	1,191.1
March .....	176.4	29.4	507.8	715.4	95.7		23.2	79.8	7.6	4.1	2.7	98.3	148.8	341.4	17.0	1,194.1
April .....	175.7	29.4	507.8	714.8	96.8		23.2	79.8	7.6	4.1	2.7	99.7	149.9	343.9	17.7	1,197.7
May .....	175.3	29.4	508.0	714.4	96.8		23.2	79.8	7.6	4.1	2.7	102.3	150.1	346.6	18.8	1,201.3
June .....	175.1	29.3	506.6	712.8	96.8		23.2	79.8	7.6	4.1	2.7	104.9	150.2	349.3	20.0	1,203.6
July .....	175.1	29.3	507.4	713.6	96.8		23.2	79.8	7.6	4.0	2.7	105.9	150.9	350.9	20.8	1,206.8
August .....	175.1	29.3	507.4	713.6	96.8		23.2	79.8	7.6	4.0	2.7	107.1	151.1	352.3	21.7	1,209.1
September .....	175.1	29.3	507.4	713.6	96.8		23.2	79.8	7.6	4.0	2.7	109.5	151.2	354.8	22.7	1,212.5
October .....	173.9	29.3	507.3	712.3	96.8		23.2	79.8	7.6	4.0	2.7	112.6	151.2	358.0	23.4	1,215.2
November .....	173.9	29.3	507.4	712.4	96.8		23.2	79.8	7.6	4.0	2.7	117.5	151.2	362.9	23.9	1,220.6
December .....	173.9	29.3	507.8	712.9	96.8		23.2	79.8	7.6	4.0	2.7	122.6	152.7	369.5	26.1	1,229.8
2025 January .....	171.9	29.0	508.9	711.8	96.8		23.2	79.9	7.5	4.0	2.7	125.7	153.3	373.0	26.7	1,232.9
February .....	171.3	28.5	509.6	711.3	97.6		23.2	79.9	7.5	4.0	2.7	127.4	153.8	375.3	27.3	1,236.0
March .....	172.5	28.5	507.5	710.3	98.4		23.2	79.9	7.5	4.0	2.7	130.0	153.8	377.8	28.4	1,239.5

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

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

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

<sup>d</sup> Includes other fossil gases (blast furnace gas, other manufactured and waste gases derived from fossil fuels, and, through 2010, propane gas), which are not separately shown.

<sup>e</sup> Through 1988, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

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

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

<sup>h</sup> Electric net summer capacity from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic capacity.

<sup>i</sup> Includes chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, flywheels, and, beginning in 2001, non-renewable waste (municipal

solid waste from non-biogenic sources, and tire-derived fuels), which are not separately shown.

<sup>j</sup> Through 1984, waste is included in "Wood."

<sup>k</sup> Through 1988, solar is included in "Wind."

<sup>l</sup> Through 1988, all 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 0.05 million kilowatts.

Notes: • Data are at end of period. • For plants that use multiple sources of energy, capacity is assigned to the energy source reported as the predominant one.

• Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See "Net summer capacity" in Glossary. • 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: Tables 7.7b–7.7d.



**Table 7.7b Electric Net Summer Capacity: Electric Power Sector**  
(Subset of Table 7.7a; Million Kilowatts)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage	Renewable Energy							Battery Storage	Total <sup>i</sup>
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Total <sup>d</sup>			Conven- tional Hydro- electric Power <sup>e</sup>	Biomass		Geo- thermal	Solar <sup>h</sup>	Wind	Total		
								Wood <sup>f</sup>	Waste <sup>g</sup>						
1950 Year .....	NA	NA	NA	50.0	0.0	( <sup>e</sup> )	19.2	( <sup>s</sup> )	( <sup>j</sup> )	NA	NA	NA	19.2	NA	69.2
1955 Year .....	NA	NA	NA	86.8	.0	( <sup>e</sup> )	27.4	( <sup>s</sup> )	( <sup>j</sup> )	NA	NA	NA	27.4	NA	114.2
1960 Year .....	NA	NA	NA	130.8	.4	( <sup>e</sup> )	35.8	.1	( <sup>j</sup> )	( <sup>s</sup> )	NA	NA	35.9	NA	167.1
1965 Year .....	NA	NA	NA	182.9	.8	( <sup>e</sup> )	51.0	.1	( <sup>j</sup> )	( <sup>s</sup> )	NA	NA	51.1	NA	234.8
1970 Year .....	NA	NA	NA	265.4	7.0	( <sup>e</sup> )	63.8	.1	( <sup>j</sup> )	.1	NA	NA	64.0	NA	336.4
1975 Year .....	NA	NA	NA	375.1	37.3	( <sup>e</sup> )	78.4	.1	( <sup>j</sup> )	.5	NA	NA	79.0	NA	491.3
1980 Year .....	NA	NA	NA	444.1	51.8	( <sup>e</sup> )	81.7	.1	( <sup>j</sup> )	.9	NA	NA	82.7	NA	578.6
1985 Year .....	NA	NA	NA	485.0	79.4	( <sup>e</sup> )	88.9	.2	( <sup>j</sup> )	.2	1.6	( <sup>k</sup> )	90.8	NA	655.2
1990 Year .....	302.3	76.8	129.9	509.3	99.6	19.5	73.3	1.2	2.1	2.7	.3	1.8	81.4	NA	709.9
1995 Year .....	306.0	65.4	161.9	533.7	99.5	21.4	77.4	1.8	3.0	3.0	.3	1.7	87.3	NA	741.8
2000 Year .....	310.2	60.7	204.7	575.9	97.9	19.5	78.2	1.7	3.3	2.8	.4	2.4	88.8	NA	782.1
2005 Year .....	309.0	57.4	367.5	734.3	100.0	21.3	76.9	1.6	3.0	2.3	.4	8.7	92.9	NA	948.6
2010 Year .....	312.9	54.6	389.8	757.5	101.2	22.2	78.5	2.1	3.7	2.4	.9	39.1	126.6	( <sup>s</sup> )	1,009.2
2011 Year .....	313.7	50.4	399.7	763.8	101.4	22.3	78.3	2.0	3.8	2.4	1.5	45.6	133.6	.1	1,021.3
2012 Year .....	305.9	45.7	406.6	758.2	101.9	22.4	78.1	2.3	4.0	2.6	3.1	59.0	149.0	.1	1,032.0
2013 Year .....	299.9	42.4	409.2	751.7	99.2	22.4	78.5	2.9	4.1	2.6	6.4	59.9	154.5	.1	1,029.0
2014 Year .....	295.9	40.1	415.6	751.7	98.6	22.5	79.4	2.9	4.2	2.5	10.1	64.2	163.3	.2	1,037.6
2015 Year .....	277.0	35.7	423.0	736.0	98.7	22.6	79.4	3.1	4.2	2.5	13.4	72.5	175.0	.3	1,032.9
2016 Year .....	264.3	33.2	430.4	728.2	99.6	22.8	79.6	3.2	4.2	2.5	21.6	81.2	192.3	.6	1,043.6
2017 Year .....	254.4	32.1	439.5	726.3	99.6	22.8	79.4	3.0	4.2	2.5	26.6	87.5	203.3	.7	1,053.6
2018 Year .....	240.7	30.8	453.7	725.6	99.4	22.8	79.6	2.9	4.2	2.4	31.5	94.3	214.8	.8	1,063.7
2019 Year .....	226.8	30.0	459.5	716.7	98.1	22.8	79.5	2.7	3.9	2.5	37.0	103.5	229.1	1.0	1,068.0
2020 Year .....	214.0	26.2	468.2	708.7	96.5	23.0	79.6	2.7	3.8	2.5	47.6	118.0	254.3	1.5	1,084.2
2021 Year .....	208.3	26.8	473.5	708.9	95.5	23.0	79.6	2.4	3.7	2.5	61.0	132.6	281.9	4.7	1,114.3
2022 Year .....	187.9	29.2	483.6	701.1	94.7	23.0	79.8	2.4	2.9	2.6	72.2	141.3	301.3	8.9	1,129.2
<b>2023</b> January .....	185.4	28.2	484.9	698.8	94.6	23.1	79.7	2.4	2.9	2.7	73.7	141.4	302.8	9.2	1,128.6
February .....	185.4	28.2	486.0	700.0	94.6	23.1	79.7	2.4	2.8	2.7	74.3	142.1	303.9	9.3	1,131.0
March .....	184.6	28.2	486.1	699.2	94.6	23.1	79.7	2.4	2.8	2.6	74.8	142.5	304.8	9.6	1,131.5
April .....	184.6	28.2	487.6	700.8	94.6	23.1	79.7	2.4	2.8	2.7	75.7	142.8	306.2	9.7	1,134.6
May .....	183.1	28.1	486.7	698.3	94.6	23.1	79.7	2.4	2.8	2.7	76.8	143.6	308.0	9.9	1,134.2
June .....	180.9	28.0	487.7	697.0	94.6	23.1	79.7	2.4	2.8	2.7	78.5	143.6	309.6	10.8	1,135.4
July .....	180.3	28.0	488.5	697.2	95.7	23.1	79.7	2.3	2.8	2.7	79.8	144.1	311.4	12.3	1,139.8
August .....	179.7	28.0	488.5	696.6	95.7	23.1	79.7	2.3	2.8	2.7	80.5	144.2	312.1	12.8	1,140.5
September .....	178.8	28.0	488.1	695.3	95.7	23.1	79.7	2.3	2.8	2.7	81.5	144.3	313.2	13.5	1,141.1
October .....	178.3	28.0	488.1	694.8	95.7	23.1	79.7	2.3	2.8	2.7	83.2	145.1	315.8	13.7	1,143.4
November .....	178.3	28.0	488.8	695.5	95.7	23.1	79.7	2.3	2.8	2.7	84.2	145.1	316.8	14.1	1,145.5
December .....	177.0	28.0	488.9	694.3	95.7	23.1	79.7	2.3	2.7	2.7	91.3	147.3	326.1	15.9	1,155.4
<b>2024</b> January .....	175.4	28.0	489.8	693.6	95.7	23.1	79.5	2.3	2.7	2.7	94.1	148.3	329.7	15.8	1,158.1
February .....	175.4	28.0	489.8	693.6	95.7	23.1	79.5	2.3	2.7	2.7	94.7	148.5	330.4	15.9	1,158.9
March .....	174.9	28.0	489.1	692.4	95.7	23.2	79.5	2.3	2.7	2.7	97.6	148.6	333.5	16.9	1,162.0
April .....	174.3	28.0	489.2	691.9	96.8	23.2	79.5	2.3	2.7	2.7	99.0	149.8	336.0	17.6	1,165.7
May .....	173.8	28.0	489.4	691.5	96.8	23.2	79.5	2.3	2.7	2.7	101.6	150.0	338.8	18.7	1,169.2
June .....	173.6	27.9	488.0	689.8	96.8	23.2	79.5	2.3	2.7	2.7	104.2	150.0	341.5	20.0	1,171.5
July .....	173.6	27.9	488.8	690.6	96.8	23.2	79.5	2.3	2.7	2.7	105.2	150.7	343.1	20.7	1,174.7
August .....	173.6	27.8	488.8	690.6	96.8	23.2	79.5	2.3	2.7	2.7	106.4	150.9	344.5	21.7	1,177.0
September .....	173.6	27.8	488.8	690.6	96.8	23.2	79.5	2.3	2.7	2.7	108.7	151.1	347.0	22.6	1,180.4
October .....	172.5	27.8	488.8	689.4	96.8	23.2	79.5	2.3	2.7	2.7	111.9	151.1	350.2	23.3	1,183.1
November .....	172.5	27.8	488.9	689.5	96.8	23.2	79.5	2.3	2.7	2.7	116.8	151.1	355.1	23.9	1,188.6
December .....	172.5	27.8	489.4	690.1	96.8	23.2	79.5	2.3	2.7	2.7	121.8	152.6	361.7	26.0	1,197.9
<b>2025</b> January .....	170.5	27.6	490.6	689.0	96.8	23.2	79.6	2.2	2.7	2.7	125.0	153.1	365.3	26.6	1,201.2
February .....	169.9	27.1	491.2	688.6	97.6	23.2	79.6	2.2	2.7	2.7	126.7	153.7	367.6	27.2	1,204.3
March .....	171.1	27.1	489.1	687.6	98.4	23.2	79.6	2.2	2.7	2.7	129.3	153.7	370.1	28.4	1,207.7

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

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

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

<sup>d</sup> Includes other fossil gases (blast furnace gas, other manufactured and waste gases derived from fossil fuels, and, through 2010, propane gas), which are not separately shown.

<sup>e</sup> Through 1988, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

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

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

<sup>h</sup> Electric net summer capacity from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic capacity.

<sup>i</sup> Includes chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, flywheels, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels), which are not

separately shown.

<sup>j</sup> Through 1984, waste is included in "Wood."

<sup>k</sup> Through 1988, solar is included in "Wind."

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

NA=Not available. (s)=Less than 0.05 million kilowatts.

Notes: • Data are at end of period. • For plants that use multiple sources of energy, capacity is assigned to the energy source reported as the predominant one.

• Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See "Net summer capacity" in Glossary. • 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 7.7c Electric Net Summer Capacity: Commercial Sector**  
(Subset of Table 7.7a; Million Kilowatts)

	Fossil Fuels				Nuclear Electric Power	Hydro- electric Pumped Storage	Renewable Energy							Battery Storage	Total <sup>h</sup>
	Coal <sup>a</sup>	Petro- leum <sup>b</sup>	Natural Gas <sup>c</sup>	Total <sup>d</sup>			Conven- tional Hydro- electric Power	Biomass		Geo- thermal	Solar <sup>g</sup>	Wind	Total		
								Wood <sup>e</sup>	Waste <sup>f</sup>						
1990 Year .....	0.3	0.2	0.7	1.2	—	—	(s)	(s)	0.2	—	—	—	0.2	—	1.4
1995 Year .....	.3	.2	1.2	1.8	—	—	(s)	(s)	.3	—	—	—	.3	—	2.1
2000 Year .....	.3	.3	1.2	1.8	—	—	(s)	(s)	.4	—	—	—	.4	—	2.2
2005 Year .....	.4	.3	1.0	1.8	—	—	(s)	(s)	.4	—	—	—	.5	—	2.2
2010 Year .....	.4	.4	1.2	1.9	—	—	(s)	(s)	.5	—	(s)	(s)	.5	—	2.5
2011 Year .....	.4	.4	1.3	2.1	—	—	(s)	(s)	.6	—	.1	(s)	.7	—	2.8
2012 Year .....	.4	.4	1.5	2.4	—	—	(s)	(s)	.6	—	.1	(s)	.8	—	3.2
2013 Year .....	.3	.5	1.8	2.6	—	—	(s)	(s)	.7	—	.2	(s)	1.0	—	3.6
2014 Year .....	.3	.5	1.8	2.6	—	—	(s)	.1	.7	—	.2	.1	1.1	—	3.7
2015 Year .....	.2	.5	1.9	2.6	—	—	(s)	.1	.7	—	.3	.1	1.2	(s)	3.8
2016 Year .....	.2	.5	2.0	2.7	—	—	.1	.1	.7	—	.3	.1	1.2	(s)	3.9
2017 Year .....	.2	.6	2.0	2.8	—	—	.1	.1	.7	—	.3	.1	1.2	(s)	4.1
2018 Year .....	.1	.8	2.2	3.1	—	—	.1	.1	.7	(s)	.3	.1	1.3	(s)	4.5
2019 Year .....	.1	.9	2.2	3.2	—	—	.1	.1	.7	(s)	.4	.1	1.3	(s)	4.6
2020 Year .....	.1	.9	2.3	3.3	—	—	.1	.1	.7	(s)	.4	.1	1.3	(s)	4.6
2021 Year .....	.1	.9	2.3	3.3	—	—	.1	.1	.7	(s)	.4	.1	1.5	(s)	4.8
2022 Year .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
2023 January .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
February .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
March .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
April .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
May .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
June .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
July .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
August .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
September .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
October .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
November .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
December .....	(s)	1.0	2.3	3.4	—	—	.1	.1	1.3	—	.4	.1	2.0	(s)	5.4
2024 January .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.4
February .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.4
March .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.4
April .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.4
May .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.5
June .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.3	—	.5	.1	2.0	(s)	5.5
July .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	2.0	(s)	5.5
August .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	2.0	(s)	5.5
September .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	2.0	(s)	5.5
October .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	2.0	(s)	5.4
November .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	2.0	(s)	5.4
December .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.5	.1	1.9	(s)	5.4
2025 January .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.4	.1	1.9	(s)	5.4
February .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.4	.1	1.9	(s)	5.4
March .....	(s)	1.0	2.4	3.4	—	—	.1	.1	1.2	—	.4	.1	1.9	(s)	5.4

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

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

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

<sup>d</sup> Includes other fossil gases (blast furnace gas, other manufactured and waste gases derived from fossil fuels, and, through 2010, propane gas), which are not separately shown.

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

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

<sup>g</sup> Electric net summer capacity from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic capacity.

<sup>h</sup> Includes chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, flywheels, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels), which are not

separately shown.

— =No data reported. (s)=Less than 0.05 million kilowatts.

Notes: • Data are at end of period. • For plants that use multiple sources of energy, capacity is assigned to the energy source reported as the predominant one. • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See "Net summer capacity" in Glossary. • 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 1989 and monthly data beginning in 2008.

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." • **2001–2007:** EIA, Form EIA-860, "Annual Electric Generator Report." • **2008 forward:** EIA, Form EIA-860, "Annual Electric Generator Report," and Form EIA-860M, "Monthly Update to the Annual Electric Generator Report."

**Table 7.7d Electric Net Summer Capacity: Industrial Sector**  
(Subset of Table 7.7a; Million Kilowatts)

	Fossil Fuels				Nuclear Electric Power	Hydro-electric Pumped Storage	Renewable Energy							Battery Storage	Total <sup>h</sup>
	Coal <sup>a</sup>	Petro-leum <sup>b</sup>	Natural Gas <sup>c</sup>	Total <sup>d</sup>			Conven-tional Hydro-electric Power	Biomass		Geo-thermal	Solar <sup>g</sup>	Wind	Total		
								Wood <sup>e</sup>	Waste <sup>f</sup>						
1990 Year .....	4.8	0.9	10.3	17.3	—	—	0.6	4.3	0.2	—	—	—	5.1	—	22.9
1995 Year .....	5.0	1.0	11.3	18.7	—	—	1.1	4.9	.2	—	—	—	6.3	—	25.5
2000 Year .....	4.6	.8	13.7	21.2	—	—	1.1	4.4	.2	—	—	—	5.7	—	27.3
2005 Year .....	4.0	.8	14.5	21.0	—	—	.7	4.5	.2	—	—	—	5.4	—	27.2
2010 Year .....	4.0	.7	14.2	20.8	—	—	.3	4.9	.2	—	(s)	(s)	5.5	—	27.4
2011 Year .....	3.5	.7	14.3	20.4	—	—	.3	5.0	.2	—	(s)	(s)	5.6	—	27.1
2012 Year .....	3.3	1.0	14.3	20.5	—	—	.6	5.2	.2	—	(s)	(s)	6.1	—	27.8
2013 Year .....	3.0	.7	14.4	20.0	—	—	.7	5.5	.2	—	(s)	(s)	6.4	—	27.5
2014 Year .....	2.9	.6	14.7	20.0	—	—	.3	5.4	.2	—	(s)	(s)	5.9	—	27.2
2015 Year .....	2.5	.7	14.5	19.8	—	—	.3	5.8	.2	—	(s)	(s)	6.4	—	27.4
2016 Year .....	2.1	.7	14.5	19.4	—	—	.3	5.7	.2	—	(s)	(s)	6.2	—	26.8
2017 Year .....	2.0	.6	14.5	19.1	—	—	.3	5.7	.2	—	(s)	(s)	6.3	(s)	26.7
2018 Year .....	2.0	.6	14.4	19.1	—	—	.2	5.8	.1	—	(s)	(s)	6.2	(s)	26.6
2019 Year .....	1.7	.5	14.8	19.2	—	—	.2	5.6	.1	—	.1	(s)	6.0	(s)	26.5
2020 Year .....	1.5	.5	15.3	19.3	—	—	.2	5.6	.1	—	.1	(s)	6.3	(s)	26.8
2021 Year .....	1.4	.5	16.1	19.6	—	—	.2	5.4	.1	—	.1	(s)	5.9	(s)	26.8
2022 Year .....	1.4	.6	16.4	19.7	—	—	.2	5.3	.1	—	.2	.1	5.8	(s)	26.8
2023 January .....	1.4	.5	16.4	19.8	—	—	.2	5.4	.1	—	.2	.1	5.9	(s)	27.0
February .....	1.4	.5	16.5	19.9	—	—	.2	5.4	.1	—	.2	.1	5.9	(s)	27.0
March .....	1.4	.5	16.4	19.7	—	—	.2	5.4	.1	—	.2	.1	5.9	(s)	26.9
April .....	1.4	.5	16.4	19.7	—	—	.2	5.4	.1	—	.2	.1	5.9	(s)	26.9
May .....	1.4	.5	16.4	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.9
June .....	1.4	.5	16.3	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.8
July .....	1.4	.5	16.3	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.8
August .....	1.4	.5	16.3	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.8
September .....	1.4	.5	16.3	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.8
October .....	1.4	.5	16.3	19.7	—	—	.2	5.3	.1	—	.2	.1	5.9	(s)	26.8
November .....	1.4	.5	16.3	19.7	—	—	.2	5.2	.1	—	.2	.1	5.8	(s)	26.8
December .....	1.4	.5	16.3	19.7	—	—	.2	5.2	.1	—	.2	.1	5.9	(s)	26.8
2024 January .....	1.4	.5	16.3	19.7	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.7
February .....	1.4	.5	16.3	19.7	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.7
March .....	1.4	.5	16.3	19.7	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.7
April .....	1.4	.5	16.2	19.5	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
May .....	1.4	.5	16.2	19.5	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
June .....	1.4	.5	16.2	19.5	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
July .....	1.4	.5	16.2	19.6	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
August .....	1.4	.5	16.2	19.6	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
September .....	1.4	.5	16.2	19.6	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
October .....	1.4	.5	16.1	19.5	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
November .....	1.4	.5	16.1	19.5	—	—	.2	5.2	.1	—	.3	.1	5.8	(s)	26.6
December .....	1.4	.5	16.0	19.3	—	—	.2	5.2	.1	—	.3	.1	5.9	(s)	26.5
2025 January .....	1.4	.5	15.9	19.3	—	—	.2	5.1	.1	—	.3	.1	5.8	(s)	26.4
February .....	1.4	.5	16.0	19.3	—	—	.2	5.1	.1	—	.3	.1	5.8	(s)	26.3
March .....	1.4	.5	16.0	19.3	—	—	.2	5.1	.1	—	.3	.1	5.8	(s)	26.4

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

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

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

<sup>d</sup> Includes other fossil gases (blast furnace gas, other manufactured and waste gases derived from fossil fuels, and, through 2010, propane gas), which are not separately shown.

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

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

<sup>g</sup> Electric net summer capacity from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic capacity.

<sup>h</sup> Includes chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, flywheels, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels), which are not

separately shown.

— =No data reported. (s)=Less than 0.05 million kilowatts.

Notes: • Data are at end of period. • For plants that use multiple sources of energy, capacity is assigned to the energy source reported as the predominant one. • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • See "Net summer capacity" in Glossary. • 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 1989 and monthly data beginning in 2008.

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." • **2001–2007:** EIA, Form EIA-860, "Annual Electric Generator Report." • **2008 forward:** EIA, Form EIA-860, "Annual Electric Generator Report," and Form EIA-860M, "Monthly Update to the Annual Electric Generator Report."

**Table 7.8a Capacity Factors and Usage Factors at Electric Generators: Total (All Sectors)**  
(Percent)

	Capacity Factors <sup>a</sup>												Usage Factors <sup>b</sup>	
	Coal <sup>c,d</sup>	Petro- leum <sup>c,e</sup>	Natural Gas <sup>f</sup>			Nuclear Electric Power <sup>g</sup>	Conven- tional Hydro- electric Power	Bio- mass <sup>c,h</sup>	Geo- thermal	Solar		Wind <sup>i</sup>	Hydro- electric Pumped Storage	Battery Storage
			Com- bined Cycle	Gas Turbine	Steam Turbine					Photo- voltaic <sup>i</sup>	Thermal			
2008 Year .....	72.4	9.7	40.3	7.6	12.1	91.1	37.1	64.0	74.3	19.2	19.5	31.7	—	—
2009 Year .....	64.2	9.3	43.9	6.8	10.9	90.3	39.6	62.9	73.0	20.0	23.6	28.1	—	—
2010 Year .....	67.1	8.4	44.3	7.8	11.1	91.1	37.5	62.5	71.6	20.2	24.5	29.7	—	—
2011 Year .....	62.8	7.4	44.3	7.9	11.7	89.1	45.8	61.4	71.5	19.0	23.9	32.1	—	—
2012 Year .....	56.2	7.6	52.2	8.9	13.3	86.6	39.6	62.1	68.3	20.4	23.6	31.8	—	—
2013 Year .....	59.4	6.6	48.8	8.3	11.2	90.8	38.8	60.3	71.8	24.5	17.4	32.4	9.8	.7
2014 Year .....	60.5	6.7	48.6	8.3	10.3	91.7	37.2	61.0	72.0	25.6	18.3	34.0	10.2	1.7
2015 Year .....	54.3	6.7	55.8	9.8	11.3	92.3	35.7	60.5	71.9	25.5	21.7	32.2	10.2	3.6
2016 Year .....	52.8	5.9	55.4	11.0	12.3	92.3	38.2	59.9	71.6	25.0	22.1	34.5	11.2	3.8
2017 Year .....	53.1	6.3	51.2	9.6	10.7	92.3	43.0	60.8	73.2	25.6	21.8	34.6	11.4	6.8
2018 Year .....	53.6	6.6	55.1	11.9	12.6	92.5	41.9	61.1	76.0	25.1	23.6	34.6	10.8	5.2
2019 Year .....	47.5	5.5	57.4	11.4	14.1	93.4	41.2	60.3	69.6	24.3	21.2	34.4	10.4	5.4
2020 Year .....	40.5	5.2	57.1	11.6	14.2	92.4	40.7	59.5	69.1	24.2	20.6	35.3	10.5	5.2
2021 Year .....	49.1	5.5	55.0	11.7	12.5	92.8	36.0	61.1	69.8	24.4	20.5	34.4	10.2	6.1
2022 Year .....	48.4	5.4	56.6	12.9	15.6	92.7	36.3	58.7	69.0	24.4	23.1	35.9	11.1	6.4
2023 January .....	44.6	3.7	57.4	9.3	9.6	100.7	38.2	58.6	71.2	14.2	7.7	36.3	9.2	6.9
February .....	37.3	4.6	57.1	9.2	10.3	95.7	37.1	57.4	72.4	18.6	10.9	43.1	9.6	6.5
March .....	36.2	3.6	53.6	10.5	11.5	89.3	35.9	55.2	73.2	21.5	14.0	40.6	9.2	7.0
April .....	30.6	3.5	47.9	11.2	13.4	83.2	34.4	51.0	70.6	26.8	27.8	41.2	8.8	7.2
May .....	32.6	3.4	53.0	12.4	15.4	86.9	46.5	55.1	66.9	29.5	27.4	30.0	10.9	6.5
June .....	44.5	4.1	63.7	15.0	22.1	95.2	37.5	55.7	66.5	30.9	34.6	26.4	13.8	6.4
July .....	58.3	5.5	74.0	19.4	31.7	99.1	36.9	56.8	64.6	30.9	35.0	25.9	15.7	6.5
August .....	58.0	5.4	74.1	19.0	31.0	97.9	35.8	58.1	63.1	28.7	28.3	26.2	15.5	6.4
September .....	46.4	5.4	66.2	13.6	22.4	95.1	29.4	54.5	67.4	25.6	27.7	27.1	13.3	6.3
October .....	38.6	3.6	53.7	12.6	16.3	86.3	26.3	51.6	70.4	22.0	26.1	33.1	8.7	7.0
November .....	39.7	3.0	54.8	11.5	14.1	90.3	29.6	57.0	73.7	16.7	15.7	34.6	8.3	6.7
December .....	42.3	3.3	60.0	10.1	10.8	96.7	32.1	59.5	72.9	13.5	9.9	34.6	8.0	6.3
Average .....	42.4	4.1	59.7	12.9	17.4	93.0	35.0	55.8	69.4	23.2	22.1	33.2	10.9	6.6
2024 January .....	56.8	4.6	63.7	12.4	16.1	97.2	36.9	60.3	69.8	13.8	7.3	31.6	9.5	5.4
February .....	36.0	3.1	56.1	9.8	11.6	97.0	36.2	56.9	69.2	18.7	11.7	40.0	9.7	6.4
March .....	29.3	3.0	50.7	10.9	13.9	89.0	39.3	54.9	63.3	21.8	20.4	41.1	7.4	6.9
April .....	29.9	3.5	46.5	13.5	16.0	83.3	33.7	54.5	67.8	26.4	31.6	43.8	9.1	7.3
May .....	35.6	3.9	53.4	13.8	20.5	90.2	38.1	57.9	61.3	29.1	38.1	34.5	12.5	6.9
June .....	49.0	4.3	64.9	16.3	27.3	97.9	36.8	57.7	64.8	31.7	39.1	35.2	15.5	7.1
July .....	54.9	6.1	74.6	24.0	33.6	97.1	35.7	57.9	65.1	30.4	33.0	24.8	16.7	7.9
August .....	53.1	5.4	73.8	21.7	33.1	96.9	36.0	59.1	64.4	29.9	32.6	25.6	16.3	8.2
September .....	43.9	3.7	66.8	15.3	22.7	89.9	29.0	56.6	64.4	25.5	31.8	26.6	12.9	7.5
October .....	37.3	3.5	54.8	14.2	19.4	81.6	26.6	51.5	58.5	23.2	22.8	35.6	8.3	8.4
November .....	35.9	3.5	53.8	13.4	16.9	88.9	31.8	56.4	63.4	16.4	13.8	37.6	8.7	8.3
December .....	48.5	4.0	57.5	10.6	14.6	98.9	34.3	57.8	68.1	14.2	11.7	35.6	9.3	8.0
Average .....	42.6	4.1	59.7	14.7	20.5	92.3	34.5	56.8	65.0	23.4	24.6	34.3	11.3	7.5
2025 January .....	62.6	6.8	61.4	13.7	19.4	99.6	35.7	57.6	67.8	16.4	8.6	38.4	9.7	7.9
February .....	52.6	4.1	57.9	11.8	16.7	94.3	36.0	59.3	68.2	19.0	15.0	38.1	10.4	7.9
March .....	37.7	3.5	46.8	9.8	12.2	85.3	37.1	56.9	72.2	23.7	16.5	44.3	8.8	8.6

<sup>a</sup> Capacity factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (net generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>b</sup> Usage factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (gross generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>c</sup> Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

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

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

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels. Capacity factors for natural gas internal combustion engine, energy storage, fuel cell, and other plants are not displayed.

<sup>g</sup> See Table 8.1 for nuclear capacity factors for 1957–2007.

<sup>h</sup> Wood and wood-derived fuels, municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through

2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

<sup>i</sup> Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

<sup>j</sup> Onshore wind plants, and, beginning in 2017, offshore wind plants.

— = No data reported.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Monthly factors are based on a time-adjusted total net summer capacity of generators in operation for the entire month. Annual factors are based on a time-weighted average of the monthly time-adjusted capacity. • For plants that use multiple energy sources or technologies, capacity is assigned to the reported combination of predominant energy source and technology. • See EIA's *Electric Power Annual*, "Technical notes," for further information. • See "Capacity factor" in Glossary. • 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 2008.

Sources: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."

**Table 7.8b Capacity Factors and Usage Factors at Electric Generators: Electric Power Sector (Percent)**

	Capacity Factors <sup>a</sup>												Usage Factors <sup>b</sup>	
	Coal <sup>c,d</sup>	Petro- leum <sup>c,e</sup>	Natural Gas <sup>f</sup>			Nuclear Electric Power <sup>g</sup>	Conven- tional Hydro- electric Power	Bio- mass <sup>c,h</sup>	Geo- thermal	Solar		Wind <sup>i</sup>	Hydro- electric Pumped Storage	Battery Storage
			Combined Cycle	Gas Turbine	Steam Turbine					Photo- voltaic <sup>j</sup>	Thermal			
2008 Year .....	72.6	9.4	39.5	5.2	11.6	91.1	37.0	65.5	74.3	19.7	19.5	31.7	—	—
2009 Year .....	64.4	9.1	43.5	4.4	10.4	90.3	39.5	64.6	73.0	20.3	23.6	28.1	—	—
2010 Year .....	67.3	8.1	43.5	5.2	10.6	91.1	37.5	63.4	71.6	20.3	24.5	29.8	—	—
2011 Year .....	62.9	7.1	43.6	5.1	11.2	89.1	45.7	62.5	71.5	19.0	23.9	32.1	—	—
2012 Year .....	56.4	7.1	51.7	6.0	12.7	86.6	39.5	63.4	68.3	20.4	23.6	31.8	—	—
2013 Year .....	59.5	6.3	48.0	5.0	10.4	90.8	38.6	60.0	71.8	24.7	17.4	32.4	9.8	.7
2014 Year .....	60.7	6.4	48.0	5.2	9.5	91.7	37.1	61.5	72.0	25.8	18.3	34.0	10.2	1.7
2015 Year .....	54.3	6.3	55.5	6.8	10.8	92.3	35.6	59.5	71.9	25.7	21.7	32.2	10.2	3.6
2016 Year .....	52.9	5.6	54.9	8.2	11.6	92.3	38.1	59.2	71.6	25.1	22.1	34.5	11.2	3.8
2017 Year .....	53.2	6.1	50.6	6.6	10.1	92.3	43.0	60.2	73.2	25.7	21.8	34.6	11.4	6.9
2018 Year .....	53.7	6.4	54.6	9.0	11.9	92.5	41.8	60.2	76.0	25.2	23.6	34.6	10.8	5.3
2019 Year .....	47.5	5.3	57.0	8.3	13.2	93.4	41.1	59.5	68.9	24.4	21.2	34.4	10.4	5.5
2020 Year .....	40.5	5.0	56.8	8.3	13.3	92.4	40.7	58.9	68.4	24.3	20.6	35.3	10.5	5.2
2021 Year .....	49.2	5.4	54.8	8.3	11.4	92.8	35.9	61.8	69.5	24.4	20.5	34.4	10.2	6.2
2022 Year .....	48.5	5.2	56.3	9.7	14.7	92.7	36.3	58.0	69.0	24.4	23.1	36.0	11.1	6.5
2023 January .....	44.6	3.5	57.1	6.1	8.7	100.7	38.2	58.5	71.2	14.2	7.7	36.3	9.2	7.0
February .....	37.2	4.6	56.8	5.8	9.3	95.7	37.1	57.9	72.4	18.6	10.9	43.1	9.6	6.5
March .....	36.2	3.5	53.3	7.4	10.5	89.3	35.8	55.2	73.2	21.5	14.0	40.6	9.2	7.0
April .....	30.5	3.5	47.7	8.5	12.5	83.2	34.3	48.9	70.6	26.9	27.8	41.2	8.8	7.2
May .....	32.5	3.3	52.9	9.3	14.6	86.9	46.4	54.8	66.9	29.6	27.4	30.0	10.9	6.5
June .....	44.5	4.1	63.6	11.7	21.5	95.2	37.4	56.8	66.5	31.0	34.6	26.4	13.8	6.4
July .....	58.5	5.5	74.2	16.2	31.3	99.1	36.9	60.0	64.6	31.0	35.0	25.9	15.7	6.5
August .....	58.2	5.4	74.3	15.7	30.6	97.9	35.8	60.3	63.1	28.8	28.3	26.3	15.5	6.5
September .....	46.5	5.5	66.2	10.1	21.7	95.1	29.4	54.3	67.4	25.6	27.7	27.1	13.3	6.3
October .....	38.7	4.8	52.6	7.2	12.4	83.7	24.1	53.5	65.3	22.9	26.4	31.6	8.4	6.8
November .....	39.8	2.9	54.5	8.2	13.1	90.3	29.6	55.2	73.7	16.8	15.7	34.6	8.3	6.8
December .....	42.3	3.2	59.8	6.7	9.6	96.7	32.0	57.7	72.9	13.5	9.9	34.6	8.0	6.3
Average .....	42.5	4.0	59.5	9.6	16.6	93.0	34.9	55.7	69.4	23.3	22.1	33.2	10.9	6.7
2024 January .....	57.0	4.5	63.5	8.9	15.0	97.2	36.8	59.4	69.8	13.8	7.3	31.6	9.5	5.4
February .....	36.0	3.0	55.8	6.4	10.4	97.0	36.1	54.2	69.2	18.7	11.7	40.0	9.7	6.5
March .....	29.3	2.9	50.4	7.9	12.9	89.0	39.2	51.8	63.3	21.8	20.4	41.1	7.4	6.9
April .....	29.9	3.5	46.1	10.6	15.1	83.3	33.7	49.2	67.8	26.4	31.6	43.8	9.1	7.3
May .....	35.6	3.8	53.2	10.9	19.8	90.2	38.0	56.7	61.3	29.1	38.1	34.5	12.5	7.0
June .....	49.0	4.3	65.1	13.4	26.7	97.9	36.8	57.8	64.8	31.8	39.1	35.2	15.5	7.1
July .....	55.1	6.1	75.0	21.3	33.1	97.1	35.6	56.8	65.1	30.5	33.0	24.8	16.7	7.9
August .....	53.2	5.5	73.9	19.0	32.5	96.9	35.9	58.0	64.4	29.9	32.6	25.6	16.3	8.2
September .....	43.9	3.7	66.8	12.3	21.9	89.9	29.0	55.8	64.4	25.5	31.8	26.6	12.9	7.5
October .....	37.3	3.5	54.7	11.5	18.6	81.6	26.6	49.4	58.5	23.2	22.8	35.6	8.3	8.4
November .....	35.8	3.4	53.6	10.5	16.0	88.9	31.8	52.8	63.4	16.4	13.8	37.6	8.7	8.4
December .....	48.6	4.0	57.3	7.0	13.5	98.9	34.3	55.4	68.1	14.2	11.7	35.6	9.3	8.0
Average .....	42.6	4.0	59.6	11.7	19.7	92.3	34.5	54.8	65.0	23.4	24.6	34.3	11.3	7.5
2025 January .....	62.8	6.8	61.1	10.2	18.4	99.6	35.6	56.4	67.8	16.5	8.6	38.4	9.7	7.9
February .....	52.7	4.0	57.6	8.5	15.6	94.3	36.0	57.5	68.2	19.0	15.0	38.1	10.4	7.9
March .....	37.7	3.4	46.3	6.6	11.0	85.3	37.0	55.0	72.2	23.8	16.5	44.3	8.8	8.6

<sup>a</sup> Capacity factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (net generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>b</sup> Usage factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (gross generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>c</sup> Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

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

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

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels. Capacity factors for natural gas internal combustion engine, energy storage, fuel cell, and other plants are not displayed.

<sup>g</sup> See Table 8.1 for nuclear capacity factors for 1957–2007.

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

sources, and tire-derived fuels).

<sup>i</sup> Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

<sup>j</sup> Onshore wind plants, and, beginning in 2017, offshore wind plants.

— = No data reported.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Monthly factors are based on a time-adjusted total net summer capacity of generators in operation for the entire month. Annual factors are based on a time-weighted average of the monthly time-adjusted capacity. • For plants that use multiple energy sources or technologies, capacity is assigned to the reported combination of predominant energy source and technology. • See EIA's *Electric Power Annual*, "Technical notes," for further information. • See "Capacity factor" in Glossary. • 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. • 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 2008.

Sources: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."

**Table 7.8c Capacity Factors and Usage Factors at Electric Generators: Commercial Sector**  
(Percent)

	Capacity Factors <sup>a</sup>											Usage Factors <sup>b</sup>		
	Coal <sup>c,d</sup>	Petro- leum <sup>c,e</sup>	Natural Gas <sup>f</sup>			Nuclear Electric Power	Conven- tional Hydro- electric Power	Bio- mass <sup>c,g</sup>	Geo- thermal	Solar		Wind <sup>i</sup>	Hydro- electric Pumped Storage	Battery Storage
			Com- bined Cycle	Gas Turbine	Steam Turbine					Photo- voltaic <sup>h</sup>	Thermal			
2008 Year .....	36.5	3.6	52.2	43.9	36.8	—	31.6	56.2	—	9.9	—	—	—	—
2009 Year .....	28.1	3.6	53.6	43.1	33.6	—	38.0	57.3	—	4.8	—	2.0	—	—
2010 Year .....	34.5	3.2	54.6	53.8	32.2	—	42.7	55.7	—	11.1	—	17.6	—	—
2011 Year .....	32.1	2.3	50.9	58.8	33.4	—	17.0	60.1	—	18.7	—	24.2	—	—
2012 Year .....	31.8	1.9	54.5	52.2	26.7	—	17.0	60.0	—	19.5	—	22.4	—	—
2013 Year .....	31.7	1.9	52.8	51.9	33.7	—	28.2	60.3	—	20.6	—	22.4	—	—
2014 Year .....	30.2	2.4	48.6	55.1	31.5	—	20.5	57.4	—	19.9	—	25.5	—	—
2015 Year .....	35.0	2.6	51.7	53.2	28.6	—	18.6	56.0	—	18.7	—	24.4	—	—
2016 Year .....	29.4	1.5	53.3	49.7	32.1	—	33.3	52.5	—	20.5	—	26.3	—	4.8
2017 Year .....	29.8	1.3	53.4	54.0	29.5	—	36.5	52.2	—	19.5	—	26.8	—	5.4
2018 Year .....	31.4	.7	51.5	56.2	32.0	—	34.7	50.1	—	18.7	—	27.5	—	5.2
2019 Year .....	30.2	.7	51.0	52.6	35.1	—	28.7	52.3	—	18.2	—	27.8	—	1.0
2020 Year .....	27.4	.4	43.3	50.1	32.2	—	32.8	52.0	—	17.4	—	28.3	—	4.4
2021 Year .....	30.8	.4	40.7	54.2	25.5	—	34.1	49.3	—	17.0	—	28.3	—	(s)
2022 Year .....	29.7	.6	44.6	55.1	24.5	—	34.7	60.8	—	17.4	—	28.1	—	1.1
2023 January .....	45.0	.3	40.9	52.4	25.5	—	44.0	57.6	—	8.4	—	24.5	—	.6
February .....	45.0	.6	45.3	53.8	27.6	—	43.6	54.4	—	12.6	—	32.1	—	.6
March .....	39.0	.4	43.5	47.9	24.0	—	46.4	51.7	—	15.4	—	31.0	—	.5
April .....	42.5	.2	39.0	47.4	23.1	—	47.0	51.6	—	21.0	—	32.4	—	.6
May .....	37.1	.2	40.3	50.4	20.2	—	40.1	57.0	—	21.6	—	24.3	—	.8
June .....	24.4	.2	52.0	54.9	20.1	—	30.5	60.5	—	20.7	—	14.9	—	1.2
July .....	34.2	.3	55.1	64.7	23.2	—	36.5	60.6	—	21.1	—	8.1	—	1.6
August .....	33.9	.2	54.7	60.3	22.2	—	36.8	59.2	—	18.8	—	12.5	—	1.2
September .....	36.8	.2	55.0	58.5	22.5	—	29.0	56.2	—	16.8	—	13.9	—	1.0
October .....	35.6	.4	40.1	45.7	21.2	—	23.6	59.6	—	15.7	—	24.1	—	.9
November .....	43.4	.3	41.4	54.5	21.4	—	34.2	60.1	—	11.5	—	21.4	—	.5
December .....	44.5	.4	42.6	54.5	23.1	—	35.1	60.8	—	7.7	—	23.9	—	.4
Average .....	38.7	.3	46.1	54.3	22.7	—	38.2	57.3	—	15.8	—	21.4	—	.8
2024 January .....	42.6	.5	47.7	60.1	27.1	—	42.3	59.4	—	9.8	—	20.8	—	.2
February .....	39.7	.3	48.1	59.0	26.0	—	40.9	55.5	—	14.6	—	22.3	—	.1
March .....	40.5	.4	46.6	55.8	25.5	—	42.1	52.0	—	17.3	—	27.3	—	.2
April .....	33.0	.4	43.1	46.4	21.1	—	36.0	53.6	—	20.5	—	34.2	—	.2
May .....	19.7	.2	43.2	50.2	20.2	—	42.3	57.6	—	22.2	—	27.7	—	.3
June .....	28.6	.2	51.5	52.8	22.7	—	46.9	56.6	—	24.1	—	28.1	—	.3
July .....	31.4	.4	54.9	55.9	26.6	—	42.8	58.7	—	21.9	—	21.4	—	.6
August .....	38.6	.3	55.3	57.0	25.6	—	40.3	59.9	—	21.9	—	18.6	—	.5
September .....	36.9	.3	52.6	51.5	24.4	—	29.1	55.9	—	18.9	—	18.1	—	.3
October .....	32.7	.3	45.3	45.8	20.8	—	28.3	56.3	—	17.8	—	20.0	—	.3
November .....	39.7	.3	43.8	48.2	24.5	—	41.1	58.1	—	11.9	—	24.9	—	.2
December .....	37.3	.7	46.0	52.4	28.3	—	48.2	57.6	—	10.5	—	28.7	—	.3
Average .....	35.0	.4	48.2	52.9	24.4	—	40.0	56.8	—	17.6	—	24.3	—	.3
2025 January .....	39.6	.6	46.3	53.6	31.3	—	48.4	55.6	—	12.3	—	28.8	—	.4
February .....	37.0	.5	42.9	53.6	29.5	—	41.9	60.9	—	13.4	—	25.6	—	.3
March .....	29.3	.3	41.0	51.0	23.3	—	38.9	57.5	—	17.8	—	28.5	—	.2

<sup>a</sup> Capacity factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (net generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>b</sup> Usage factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (gross generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>c</sup> Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

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

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

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels. Capacity factors for natural gas internal combustion engine, energy storage, fuel cell, and other plants are not displayed.

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

sources, and tire-derived fuels).

<sup>h</sup> Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

<sup>i</sup> Onshore wind plants, and, beginning in 2017, offshore wind plants.

— =No data reported. (s)=Less than 0.5 percent.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Monthly factors are based on a time-adjusted total net summer capacity of generators in operation for the entire month. Annual factors are based on a time-weighted average of the monthly time-adjusted capacity. • For plants that use multiple energy sources or technologies, capacity is assigned to the reported combination of predominant energy source and technology. • See EIA's *Electric Power Annual*, "Technical notes," for further information. • See "Capacity factor" in Glossary. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • 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 2008.

Sources: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."

**Table 7.8d Capacity Factors and Usage Factors at Electric Generators: Industrial Sector**  
(Percent)

	Capacity Factors <sup>a</sup>												Usage Factors <sup>b</sup>	
	Coal <sup>c,d</sup>	Petro- leum <sup>c,e</sup>	Natural Gas <sup>f</sup>			Nuclear Electric Power	Conven- tional Hydro- electric Power	Bio- mass <sup>c,g</sup>	Geo- thermal	Solar		Wind <sup>i</sup>	Hydro- electric Pumped Storage	Battery Storage
			Com- bined Cycle	Gas Turbine	Steam Turbine					Photo- voltaic <sup>h</sup>	Thermal			
2008 Year .....	51.8	32.6	55.2	53.1	45.2	—	54.9	63.1	—	—	—	—	—	—
2009 Year .....	46.6	33.4	52.9	54.3	46.9	—	61.6	61.7	—	—	—	—	—	—
2010 Year .....	54.3	33.9	62.4	69.6	54.3	—	55.9	62.2	—	19.3	—	—	—	—
2011 Year .....	50.6	29.5	61.1	69.7	56.8	—	61.0	60.2	—	30.3	—	11.6	—	—
2012 Year .....	48.8	38.2	64.5	71.0	57.0	—	43.4	60.9	—	25.2	—	25.6	—	—
2013 Year .....	49.8	30.0	70.7	75.1	50.2	—	61.1	60.7	—	25.6	—	25.6	—	—
2014 Year .....	49.9	27.5	67.5	71.0	48.8	—	52.4	60.9	—	24.3	—	26.4	—	—
2015 Year .....	48.2	28.1	66.1	72.7	41.2	—	57.6	62.2	—	20.6	—	25.1	—	—
2016 Year .....	46.3	25.2	69.7	73.0	40.3	—	51.4	61.7	—	16.7	—	25.3	—	—
2017 Year .....	46.7	24.4	68.9	74.9	37.7	—	55.9	62.7	—	14.8	—	27.0	—	.9
2018 Year .....	45.6	26.2	71.8	75.3	40.8	—	62.8	63.6	—	12.1	—	25.8	—	.8
2019 Year .....	41.6	26.3	73.4	75.9	44.2	—	55.0	62.2	—	17.2	—	25.3	—	15.3
2020 Year .....	41.9	23.2	67.0	74.5	44.0	—	53.2	61.2	—	16.3	—	39.7	—	2.4
2021 Year .....	42.0	19.6	63.8	74.1	45.1	—	49.9	62.1	—	16.3	—	23.2	—	(s)
2022 Year .....	42.0	26.3	67.0	73.2	41.7	—	49.1	59.0	—	19.9	—	26.2	—	2.6
2023 January .....	41.0	18.7	67.1	69.9	37.6	—	55.0	58.9	—	12.1	—	25.3	—	2.9
February .....	38.8	16.9	67.6	72.5	40.7	—	61.6	57.6	—	15.8	—	35.1	—	5.6
March .....	34.9	18.1	64.6	69.9	45.5	—	66.7	56.1	—	18.9	—	31.2	—	4.5
April .....	35.6	13.4	54.6	63.6	41.8	—	58.1	52.8	—	26.8	—	27.3	—	4.5
May .....	36.9	14.1	58.9	71.9	41.8	—	54.4	54.8	—	26.6	—	20.8	—	2.0
June .....	40.0	13.4	67.1	79.2	45.3	—	45.6	53.5	—	27.7	—	17.4	—	5.9
July .....	39.5	15.2	68.8	80.5	46.3	—	44.2	52.8	—	28.2	—	11.2	—	3.5
August .....	37.5	15.1	68.3	83.6	45.1	—	36.4	55.7	—	25.6	—	15.3	—	3.4
September .....	37.6	13.1	69.0	79.8	46.6	—	30.8	54.2	—	22.9	—	11.7	—	5.0
October .....	34.9	12.8	65.7	70.9	43.7	—	26.0	51.8	—	18.4	—	23.2	—	5.2
November .....	35.0	13.8	68.8	74.2	47.9	—	30.1	58.0	—	15.2	—	30.2	—	4.1
December .....	37.1	13.5	70.9	75.2	45.2	—	46.9	60.8	—	11.6	—	24.8	—	2.4
Average .....	37.4	14.8	65.9	74.3	44.0	—	46.3	55.6	—	20.7	—	22.7	—	—
2024 January .....	37.2	16.4	71.0	80.8	50.4	—	55.6	61.4	—	13.1	—	23.7	—	—
February .....	37.5	15.2	68.4	74.7	47.1	—	54.3	59.9	—	17.8	—	28.7	—	—
March .....	38.3	13.8	61.8	68.6	45.6	—	53.6	58.6	—	20.8	—	31.9	—	—
April .....	31.9	14.5	64.4	71.6	44.6	—	48.7	59.6	—	25.3	—	31.9	—	—
May .....	35.7	13.0	60.5	71.7	46.1	—	51.6	59.2	—	27.8	—	24.4	—	—
June .....	39.0	15.6	59.6	71.4	50.0	—	50.4	57.9	—	30.4	—	24.6	—	—
July .....	39.6	16.7	64.3	75.8	50.9	—	42.5	58.7	—	28.7	—	16.5	—	—
August .....	38.5	13.7	71.1	76.3	52.2	—	48.7	60.0	—	28.2	—	17.3	—	—
September .....	36.5	13.8	65.4	74.2	48.9	—	42.7	57.6	—	24.1	—	19.2	—	—
October .....	35.9	14.6	56.1	67.4	45.5	—	39.0	52.3	—	21.9	—	25.4	—	—
November .....	38.1	16.4	62.6	72.2	44.9	—	43.2	59.4	—	15.4	—	27.9	—	—
December .....	40.3	14.8	67.7	82.1	47.4	—	46.4	60.0	—	13.5	—	27.1	—	—
Average .....	37.4	14.9	64.4	73.9	47.8	—	48.0	58.7	—	22.3	—	24.9	—	—
2025 January .....	40.5	18.2	72.1	83.3	49.6	—	46.0	59.3	—	15.7	—	30.2	—	—
February .....	40.1	14.4	68.3	77.1	48.3	—	46.3	60.7	—	18.3	—	27.7	—	—
March .....	38.6	15.5	67.7	74.3	46.2	—	51.9	58.5	—	22.9	—	36.5	—	—

<sup>a</sup> Capacity factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (net generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>b</sup> Usage factors are a measure of how often electric generators operate over a specific period of time, using a ratio of actual output (gross generation) to the maximum possible output over that same time period (using time-adjusted capacity).

<sup>c</sup> Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

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

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

<sup>f</sup> Natural gas, plus a small amount of supplemental gaseous fuels. Capacity factors for natural gas internal combustion engine, energy storage, fuel cell, and other plants are not displayed.

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

sources, and tire-derived fuels).

<sup>h</sup> Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

<sup>i</sup> Onshore wind plants, and, beginning in 2017, offshore wind plants.

— = No data reported. (s) = Less than 0.5 percent.

Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • Monthly factors are based on a time-adjusted total net summer capacity of generators in operation for the entire month. Annual factors are based on a time-weighted average of the monthly time-adjusted capacity. • For plants that use multiple energy sources or technologies, capacity is assigned to the reported combination of predominant energy source and technology. • See EIA's *Electric Power Annual*, "Technical notes," for further information. • See "Capacity factor" in Glossary. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • 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 2008.

Sources: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."



**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 small-scale facilities—those with a combined generator nameplate capacity of less than 1 megawatt. For data on small-scale solar photovoltaic (PV) generation in the residential, commercial, and industrial sectors, see Table 10.6.

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

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

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

**Note 4. Experimental Estimates of Electric Vehicle Use.** These are experimental estimates of on-road light-duty electric vehicle (EV) electricity consumption to operate and move the vehicle. These estimates are based on models and are subject to model error. The electricity consumed by light-duty EVs is not identified as a separate class of service by electric utilities. Instead, the electricity consumption by light-duty EVs is accounted for based on the location of where the vehicle is charged. This results in electric utilities reporting light-duty EV consumption as part of the Residential, Commercial, and Industrial Sales to Ultimate Customers. Estimates are for light-duty Battery Electric Vehicles and Plug-in Hybrid Electric Vehicles that weigh less than or equal to 8,500 pounds. Estimates exclude plug-in hybrid motor gasoline consumption, on-road medium- and heavy-duty EVs, and off-road EVs such as golf carts and forklifts. For more information, see the detailed estimation methodology at <https://www.eia.gov/electricity/monthly/pdf/technotes-appendix-d.pdf>.

## Table 7.1 Sources

### *Net Generation, Electric Power Sector*

1949 forward: Table 7.2b.

### *Net Generation, Commercial and Industrial Sectors*

1949 forward: Table 7.2c.

### *Trade*

1949–September 1977: Unpublished Federal Power Commission data.



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

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

1982 and 1983: DOE, ERA, *Electricity Exchanges Across International Borders*.

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

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

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

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

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

June 2011–2015: 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

### *Sales to Ultimate Customers, 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)* May 2025, Table 5.1.

### *Sales to Ultimate Customers, Commercial*

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

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

2004 forward: EIA, EPM, May 2025, Table 5.1.

### *Sales to Ultimate Customers, Transportation*

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

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

2004 forward: EIA, EPM May 2025, 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."

2001–2023: EIA, *Electric Power Annual* 2024, October 2024, Table 2.2.

### *Direct Use, Monthly*

1989 forward: Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2024, the 2023 annual share is used.

### *Electric Vehicle Use*

2018 forward: EIA, EPM, May 2025, Table D1.

## Table 7.7b Sources

### *Net Summer Capacity, Nuclear Power*

1949 forward: Table 8.1.

### *All Other Data*

1949–1984: U.S. Energy Information Administration (EIA) estimates.

1985–1988: EIA, Form EIA-860, "Annual Electric Generator Report."

1989–1997: EIA, Form EIA-860, "Annual Electric Generator Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

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

2001–2007: EIA, Form EIA-860, "Annual Electric Generator Report."

2008 forward: EIA, Form EIA-860, "Annual Electric Generator Report," and Form EIA-860M, "Monthly Update to the Annual Electric Generator Report."