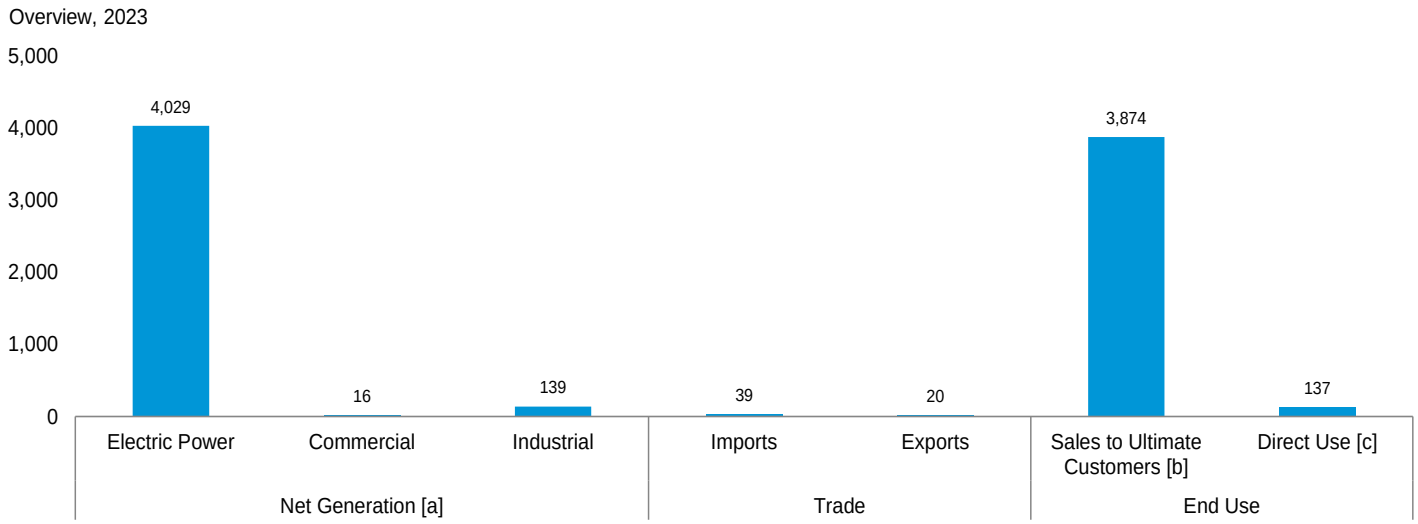
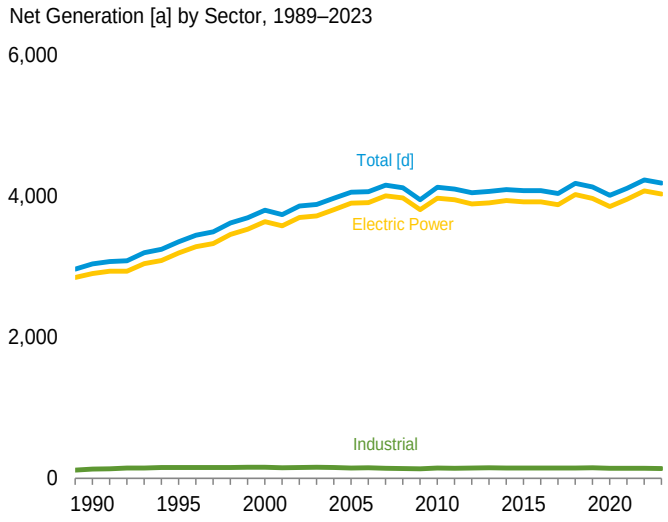
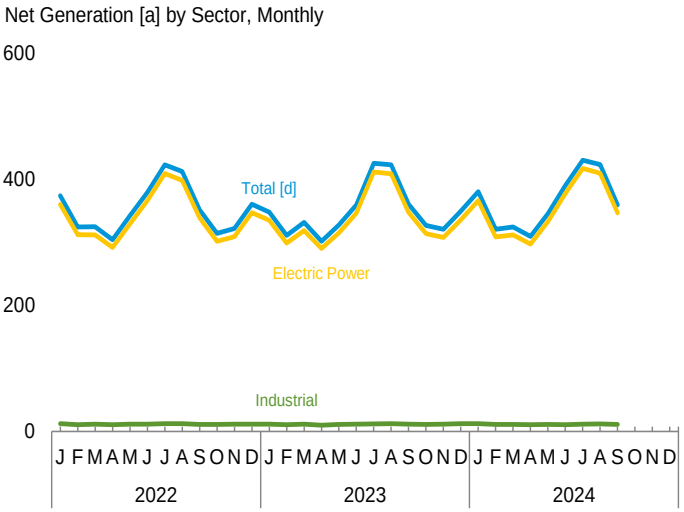
7. Electricity

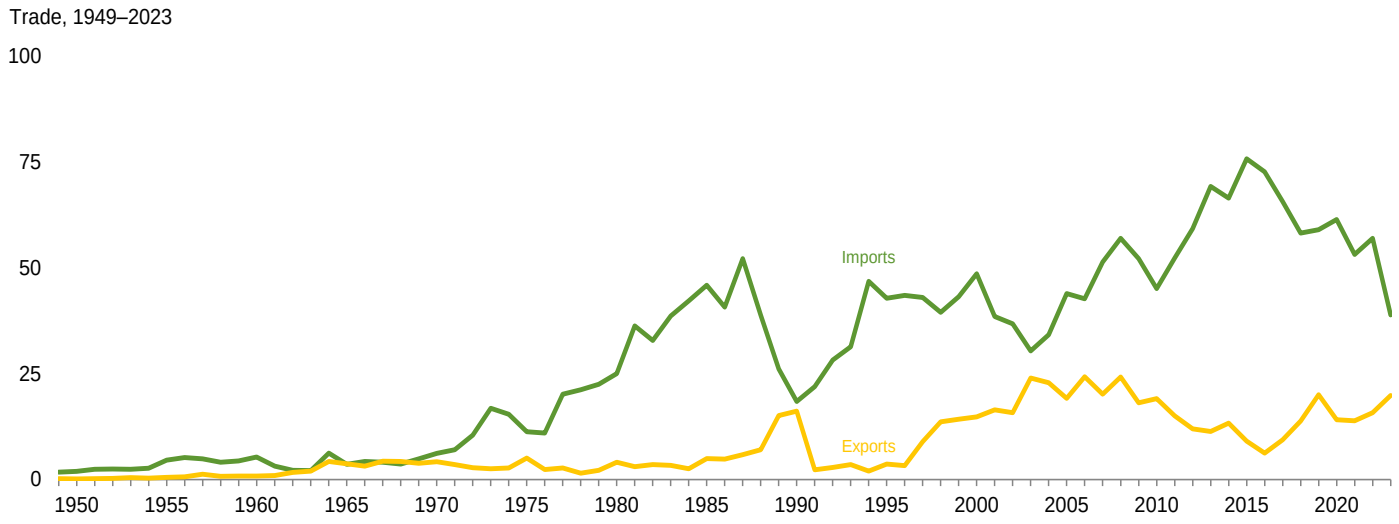
Figure 7.1 Electricity Overview

(Billion Kilowatthours)









[a] Data are for utility-scale facilities.
[b] Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.
[c] See "Direct Use" in Glossary.
[d] Includes commercial sector.
Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.
Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

	Net Generation[a]				Trade			T&D Losses[f] and Unaccounted for[g]	End Use		
	Electric Power Sector[b]	Commercial Sector[c]	Industrial Sector[d]	Total	Imports[e]	Exports[e]	Net Imports[e]		Sales to Ultimate Customers[h]	Direct Use[i]	Total
1950 Total	**329**	**NA**	**5**	**334**	**2**	**(s)**	**2**	**44**	**291**	**NA**	**291**
1955 Total	**547**	**NA**	**3**	**550**	**5**	**(s)**	**4**	**58**	**497**	**NA**	**497**
1960 Total	**756**	**NA**	**4**	**759**	**5**	**1**	**5**	**76**	**688**	**NA**	**688**
1965 Total	**1,055**	**NA**	**3**	**1,058**	**4**	**4**	**(s)**	**104**	**954**	**NA**	**954**
1970 Total	**1,532**	**NA**	**3**	**1,535**	**6**	**4**	**2**	**145**	**1,392**	**NA**	**1,392**
1975 Total	**1,918**	**NA**	**3**	**1,921**	**11**	**5**	**6**	**180**	**1,747**	**NA**	**1,747**
1980 Total	**2,286**	**NA**	**3**	**2,290**	**25**	**4**	**21**	**216**	**2,094**	**NA**	**2,094**
1985 Total	**2,470**	**NA**	**3**	**2,473**	**46**	**5**	**41**	**190**	**2,324**	**NA**	**2,324**
1990 Total	**2,901**	**6**	**[d] 131**	**3,038**	**18**	**16**	**2**	**203**	**2,713**	**125**	**2,837**
1995 Total	**3,194**	**8**	**151**	**3,353**	**43**	**4**	**39**	**229**	**3,013**	**151**	**3,164**
2000 Total	**3,638**	**8**	**157**	**3,802**	**49**	**15**	**34**	**244**	**3,421**	**171**	**3,592**
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**	**4,079**	**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**	**139**	**3,856**
2021 Total	**3,957**	**13**	**140**	**4,110**	**53**	**14**	**39**	**204**	**3,806**	**139**	**3,945**
2022 January	360	1	13	374	4	1	3	26	339	[E] 12	351
February	312	1	11	324	3	2	2	9	306	[E] 11	317
March	312	1	12	325	4	2	2	11	304	[E] 12	316
April	292	1	11	304	4	1	2	11	285	[E] 11	296
May	329	1	11	342	4	2	3	24	310	[E] 11	321
June	366	1	12	379	6	1	4	25	347	[E] 12	359
July	409	2	13	423	7	1	5	27	389	[E] 13	402
August	398	2	12	412	7	1	6	16	390	[E] 13	402
September	339	1	11	352	5	1	4	4	341	[E] 11	352
October	301	1	11	314	4	1	3	8	297	[E] 11	308
November	309	1	12	322	4	1	3	21	292	[E] 12	304
December	347	1	12	360	5	1	4	25	328	[E] 12	340
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	[E] 11	337
February	299	1	11	311	4	2	2	9	293	[E] 11	304
March	319	1	12	332	4	1	3	16	306	[E] 11	318
April	290	1	10	302	4	2	2	13	281	[E] 10	291
May	315	1	11	327	4	1	3	20	299	[E] 11	310
June	346	1	12	359	3	1	2	20	329	[E] 12	340
July	411	2	12	425	3	2	1	27	387	[E] 12	399
August	409	1	12	423	3	2	1	19	392	[E] 12	405
September	347	1	12	360	2	2	(s)	2	346	[E] 12	358
October	314	1	11	327	2	2	(s)	7	308	[E] 11	319
November	308	1	12	321	2	2	1	16	294	[E] 11	306
December	336	1	12	350	3	2	1	26	313	[E] 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	343	[E] 12	356
February	308	1	11	321	3	2	(s)	8	302	[E] 11	313
March	312	1	11	324	2	3	(s)	18	295	[E] 11	306
April	297	1	11	309	2	2	(s)	[R] 15	283	[E] 11	294
May	333	1	11	346	2	2	(s)	22	312	[E] 11	323
June	378	1	11	390	3	1	1	27	353	[E] 11	364
July	417	1	12	430	5	1	3	28	394	[E] 12	406
August	410	2	12	423	4	1	3	24	390	[E] 12	[R] 402
September	347	1	11	359	3	1	2	10	340	[E] 11	351
9-Month Total	**3,167**	**12**	**103**	**3,283**	**27**	**16**	**11**	**178**	**3,013**	**[E] 102**	**3,115**
2023 9-Month Total	**3,071**	**12**	**103**	**3,187**	**31**	**14**	**17**	**142**	**2,959**	**[E] 102**	**3,061**
2022 9-Month Total	**3,117**	**13**	**105**	**3,235**	**44**	**13**	**32**	**151**	**3,010**	**[E] 105**	**3,115**

[a] 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.

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

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

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

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

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

[g] Data collection frame differences and nonsampling error.

[h] Electricity sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.

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

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours and greater than -0.5 billon kilowatthours.

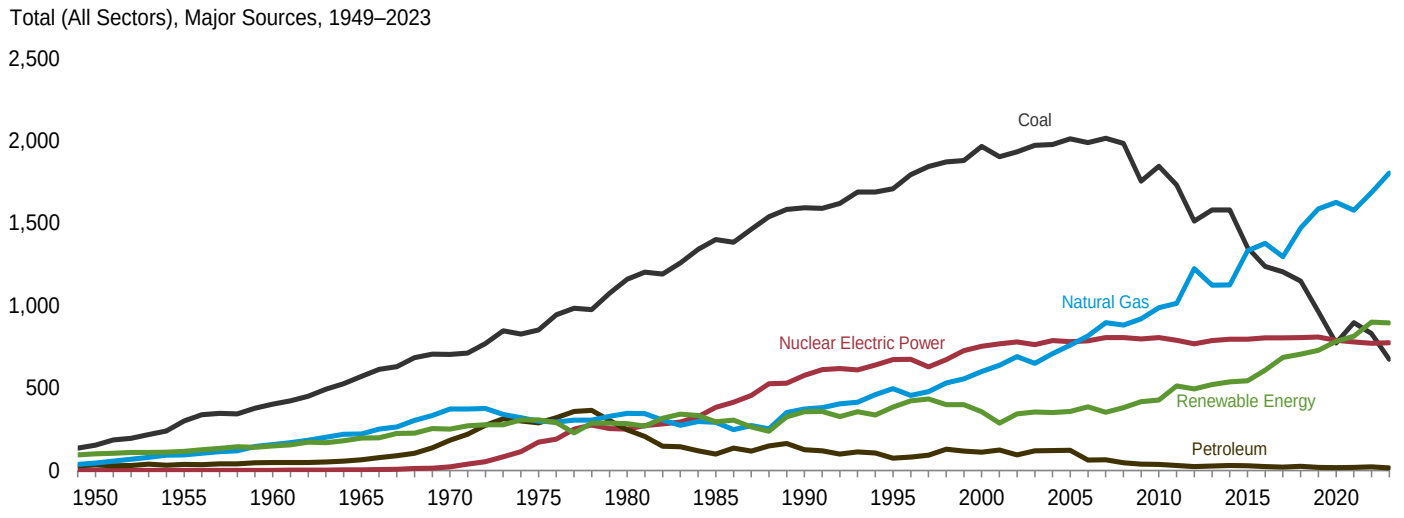
Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 3, "Electricity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

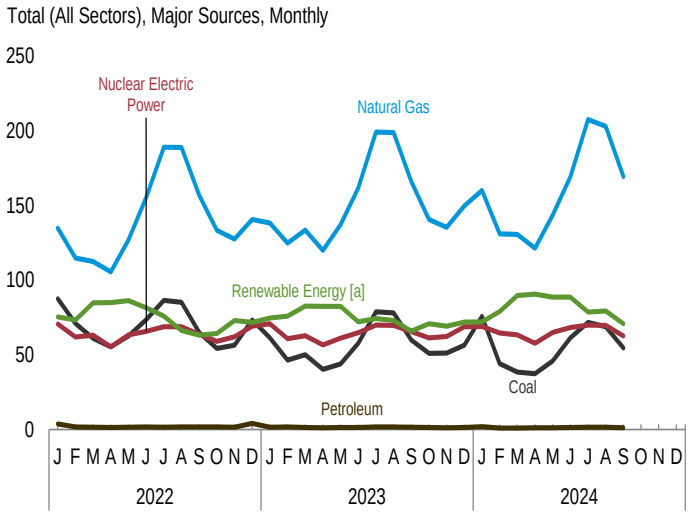
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

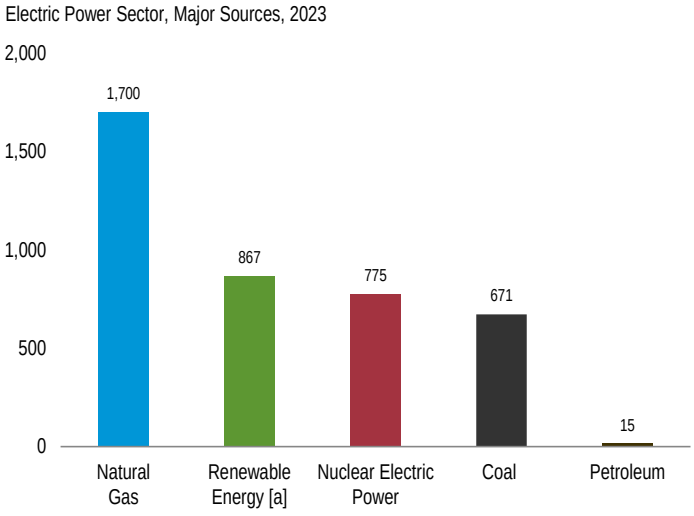
Sources: See end of section.

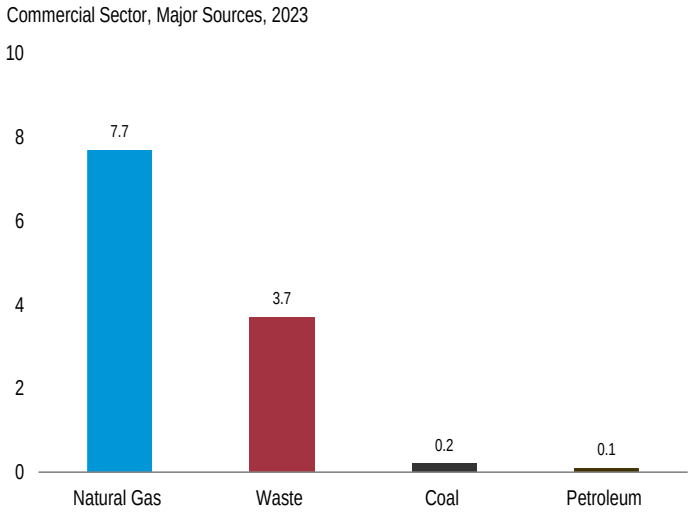
Figure 7.2 Electricity Net Generation

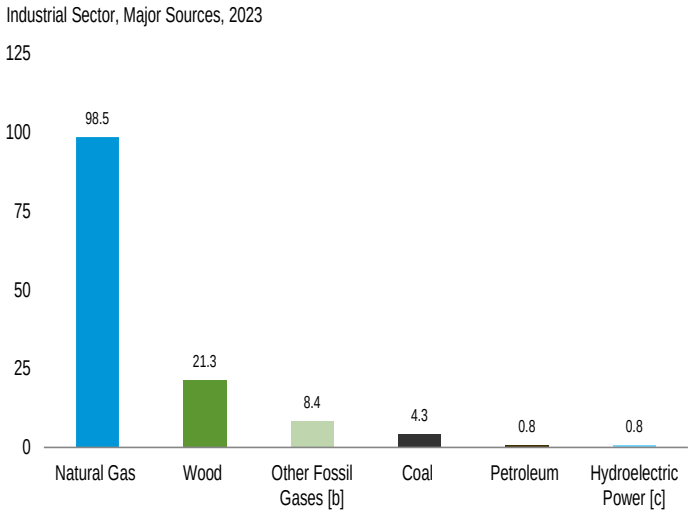
(Billion Kilowatthours)











[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						Renewable Energy						
								Biomass					
	Coal[a]	Petroleum[b]	Natural Gas[c]	Other Fossil Gases[d]	Nuclear Electric Power	Hydroelectric Pumped Storage[e]	Conventional Hydroelectric Power[f]	Wood[g]	Waste[h]	Geothermal	Solar[i]	Wind	Total[j]
1950 Total	154,520	33,734	44,559	NA	0	([f])	100,885	390	NA	NA	NA	NA	334,088
1955 Total	301,363	37,138	95,285	NA	0	([f])	116,236	276	NA	NA	NA	NA	550,299
1960 Total	403,067	47,987	157,970	NA	518	([f])	149,440	140	NA	33	NA	NA	759,156
1965 Total	570,926	64,801	221,559	NA	3,657	([f])	196,984	269	NA	189	NA	NA	1,058,386
1970 Total	704,394	184,183	372,890	NA	21,804	([f])	250,957	136	220	525	NA	NA	1,535,111
1975 Total	852,786	289,095	299,778	NA	172,505	([f])	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total	1,161,562	245,994	346,240	NA	251,116	([f])	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total	1,402,128	100,202	291,946	NA	383,691	([f])	284,311	743	640	9,325	11	6	2,473,002
1990 Total[k]	1,594,011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13,260	15,434	367	2,789	3,037,827
1995 Total	1,709,426	74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,487
2000 Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
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 January	87,588	3,669	134,948	1,005	70,577	-493	24,198	3,106	1,432	1,470	7,822	37,416	373,766
February	70,966	1,735	114,945	886	61,852	-412	21,321	2,897	1,306	1,243	9,027	37,645	324,311
March	61,019	1,459	112,477	953	63,154	-318	24,436	2,934	1,426	1,286	11,694	43,031	324,530
April	55,329	1,277	105,506	921	55,290	-265	20,066	2,736	1,342	1,282	13,402	46,167	303,994
May	62,532	1,431	127,091	1,036	63,382	-467	23,359	2,907	1,371	1,327	15,120	42,124	342,184
June	73,463	1,580	155,517	987	65,715	-589	25,988	3,045	1,373	1,276	16,052	33,768	379,134
July	86,415	1,532	189,042	1,083	68,857	-768	24,567	3,276	1,406	1,341	15,765	29,475	422,975
August	85,215	1,577	188,860	1,008	68,897	-640	21,133	3,206	1,379	1,354	14,502	24,718	412,133
September	64,998	1,590	156,948	987	63,733	-598	17,026	2,864	1,315	1,329	13,286	27,331	351,655
October	54,228	1,561	133,492	968	58,945	-434	14,367	2,624	1,368	1,298	11,942	32,745	313,949
November	56,377	1,479	127,523	911	62,041	-495	17,898	2,865	1,318	1,397	8,403	41,199	321,780
December	73,381	4,039	140,716	978	69,094	-548	20,430	3,005	1,348	1,482	6,777	38,680	360,257
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	1,863	160,174	1,071	69,080	-412	21,924	2,851	1,307	1,421	9,730	34,828	380,335
February	44,058	981	130,989	766	64,584	-404	20,101	2,539	1,190	1,318	12,476	41,446	320,763
March	38,390	976	130,609	719	63,346	-349	23,315	2,618	1,225	1,288	15,797	45,502	324,136
April	37,323	1,163	121,406	767	57,621	-338	19,377	2,521	1,153	1,335	19,054	47,236	309,269
May	45,914	1,188	143,621	774	64,973	-292	22,613	2,742	1,280	1,245	22,114	38,589	345,572
June	61,393	1,316	169,315	880	68,192	-586	21,170	2,697	1,222	1,270	24,193	38,061	389,865
July	71,687	1,446	207,735	854	69,885	-649	21,186	2,726	1,291	1,326	24,115	27,910	430,288
August	68,838	1,461	203,094	861	69,760	-812	21,359	2,780	1,303	1,313	23,960	28,695	423,355
September	54,526	1,133	169,382	741	62,660	-654	16,660	2,566	1,231	1,272	20,099	28,910	359,190
9-Month Total	497,821	11,528	1,436,326	7,434	590,102	-4,496	187,706	24,039	11,203	11,788	171,538	331,177	3,282,774
2023 9-Month Total	516,608	12,627	1,380,253	8,833	582,326	-4,758	193,276	23,939	11,551	12,035	131,851	310,638	3,186,598
2022 9-Month Total	647,525	15,851	1,285,334	8,866	581,456	-4,550	202,094	26,972	12,349	11,910	116,671	321,674	3,234,681

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

[e] Pumped storage facility production minus energy used for pumping.

[f] Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

[g] Wood and wood-derived fuels.

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

[i] Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generation. See Table 10.6.

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

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

NA=Not available.

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

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

Sources: Tables 7.2b and 7.2c.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels						Renewable Energy						
								Biomass					
	Coal[a]	Petroleum[b]	Natural Gas[c]	Other Fossil Gases[d]	Nuclear Electric Power	Hydroelectric Pumped Storage[e]	Conventional Hydroelectric Power[f]	Wood[g]	Waste[h]	Geothermal	Solar[i]	Wind	Total[j]
1950 Total	154,520	33,734	44,559	NA	0	([f])	95,938	390	NA	NA	NA	NA	329,141
1955 Total	301,363	37,138	95,285	NA	0	([f])	112,975	276	NA	NA	NA	NA	547,038
1960 Total	403,067	47,987	157,970	NA	518	([f])	145,833	140	NA	33	NA	NA	755,549
1965 Total	570,926	64,801	221,559	NA	3,657	([f])	193,851	269	NA	189	NA	NA	1,055,252
1970 Total	704,394	184,183	372,890	NA	21,804	([f])	247,714	136	220	525	NA	NA	1,531,868
1975 Total	852,786	289,095	299,778	NA	172,505	([f])	300,047	18	174	3,246	NA	NA	1,917,649
1980 Total	1,161,562	245,994	346,240	NA	251,116	([f])	276,021	275	158	5,073	NA	NA	2,286,439
1985 Total	1,402,128	100,202	291,946	NA	383,691	([f])	281,149	743	640	9,325	11	6	2,469,841
1990 Total[k]	1,572,109	118,864	309,486	621	576,862	-3,508	289,753	7,032	11,500	15,434	367	2,789	2,901,322
1995 Total	1,686,056	68,146	419,179	1,927	673,402	-2,725	305,410	7,597	17,986	13,378	497	3,164	3,194,230
2000 Total	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529
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	337,153	3,853,656
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 January	87,114	3,564	125,609	292	70,577	-493	24,097	1,042	1,032	1,470	7,772	37,386	359,855
February	70,538	1,651	106,942	251	61,852	-412	21,216	1,019	947	1,243	8,969	37,613	312,158
March	60,541	1,381	103,941	270	63,154	-318	24,302	964	1,032	1,286	11,618	42,997	311,530
April	54,915	1,200	97,597	291	55,290	-265	19,943	825	952	1,282	13,312	46,134	291,814
May	62,061	1,349	118,690	365	63,382	-467	23,248	929	973	1,327	15,022	42,096	329,317
June	72,986	1,498	146,881	281	65,715	-589	25,897	1,037	994	1,276	15,946	33,746	366,018
July	85,936	1,448	179,569	342	68,857	-768	24,489	1,170	1,018	1,341	15,662	29,458	408,874
August	84,733	1,500	179,279	277	68,897	-640	21,050	1,157	990	1,354	14,403	24,706	398,041
September	64,564	1,510	148,410	306	63,733	-598	16,948	992	949	1,329	13,199	27,315	338,966
October	53,805	1,481	125,017	276	58,945	-434	14,301	870	973	1,298	11,865	32,721	301,419
November	55,978	1,392	118,778	236	62,041	-495	17,818	940	927	1,397	8,345	41,168	308,815
December	72,925	3,853	131,973	264	69,094	-548	20,318	1,057	953	1,482	6,735	38,653	347,081
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	1,776	150,371	292	69,080	-412	21,811	967	927	1,421	9,673	34,808	366,249
February	43,689	912	122,322	211	64,584	-404	19,997	773	843	1,318	12,399	41,424	308,302
March	37,981	918	122,064	195	63,346	-349	23,205	764	865	1,288	15,700	45,475	311,667
April	37,008	1,099	112,951	231	57,621	-338	19,282	693	805	1,335	18,942	47,207	297,013
May	45,560	1,127	135,082	192	64,973	-292	22,506	849	903	1,245	21,987	38,565	332,971
June	61,017	1,247	160,991	286	68,192	-586	21,066	863	884	1,270	24,059	38,038	377,519
July	71,274	1,380	198,573	251	69,885	-649	21,093	852	936	1,326	23,985	27,892	417,005
August	68,435	1,399	193,473	217	69,760	-812	21,257	868	942	1,313	23,831	28,679	409,568
September	54,158	1,080	160,627	250	62,660	-654	16,578	759	903	1,272	19,989	28,894	346,700
9-Month Total	**494,397**	**10,939**	**1,356,453**	**2,123**	**590,102**	**-4,496**	**186,796**	**7,388**	**8,006**	**11,788**	**170,565**	**330,981**	**3,166,995**
2023 9-Month Total	**513,171**	**11,976**	**1,301,162**	**2,513**	**582,326**	**-4,758**	**192,364**	**7,906**	**8,344**	**12,035**	**131,083**	**310,460**	**3,071,168**
2022 9-Month Total	**643,389**	**15,101**	**1,206,918**	**2,676**	**581,456**	**-4,550**	**201,190**	**9,134**	**8,887**	**11,910**	**115,902**	**321,453**	**3,116,572**

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

[e] Pumped storage facility production minus energy used for pumping.

[f] Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

[g] Wood and wood-derived fuels.

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

[i] Electricity net generation from solar thermal and photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generation. See Table 10.6.

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

[k] Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilites 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[a]					Industrial Sector[b]							
				Biomass							Biomass		
	Coal[c]	Petroleum[d]	Natural Gas[e]	Waste[f]	Total[g]	Coal[c]	Petroleum[d]	Natural Gas[e]	Other Fossil Gases[h]	Hydroelectric Power[i]	Wood[j]	Waste[f]	Total[k]
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**	**143,064**
2021 Total	**280**	**98**	**7,346**	**2,156**	**12,768**	**5,278**	**767**	**95,240**	**8,093**	**936**	**24,413**	**800**	**139,750**
2022 January	29	24	655	325	1,403	445	82	8,683	713	77	2,049	75	12,508
February	19	8	563	292	1,232	409	NM	7,440	635	83	1,864	67	10,921
March	18	6	606	317	1,328	459	71	7,931	683	111	1,960	77	11,673
April	13	7	559	318	1,308	402	70	7,350	630	102	1,901	71	10,871
May	10	8	611	325	1,381	461	75	7,790	671	84	1,961	72	11,485
June	27	9	672	322	1,455	450	74	7,964	706	63	1,988	57	11,661
July	26	8	807	331	1,592	453	77	8,667	741	53	2,088	57	12,510
August	29	8	822	325	1,595	453	69	8,759	731	61	2,022	63	12,498
September	30	5	696	313	1,417	404	75	7,842	680	60	1,860	53	11,272
October	28	5	571	326	1,300	396	76	7,903	692	51	1,748	69	11,230
November	28	7	601	322	1,330	372	81	8,144	675	62	1,914	70	11,635
December	30	19	668	320	1,397	425	168	8,075	714	92	1,936	75	11,779
Total	**287**	**112**	**7,830**	**3,838**	**16,737**	**5,128**	**993**	**96,548**	**8,271**	**899**	**23,289**	**806**	**140,043**
2023 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
Total	**220**	**78**	**7,744**	**3,693**	**16,066**	**4,327**	**767**	**98,463**	**8,438**	**844**	**21,320**	**698**	**138,664**
2024 January	32	NM	699	319	1,428	384	73	9,105	780	85	1,868	62	12,658
February	21	6	654	287	1,301	348	62	8,014	555	78	1,759	60	11,160
March	19	7	676	290	1,339	389	52	7,869	524	83	1,850	71	11,130
April	13	NM	576	287	1,235	303	57	7,880	536	73	1,827	62	11,022
May	NM	7	620	315	1,350	346	54	7,918	582	80	1,889	63	11,251
June	11	8	686	294	1,395	365	61	7,638	594	75	1,824	43	10,951
July	14	NM	771	304	1,495	398	61	8,392	604	65	1,856	51	11,787
August	16	5	777	313	1,510	387	57	8,844	645	75	1,902	49	12,276
September	17	3	687	283	1,340	351	50	8,068	491	64	1,793	45	11,150
9-Month Total	**152**	**62**	**6,145**	**2,691**	**12,393**	**3,272**	**527**	**73,727**	**5,310**	**678**	**16,569**	**506**	**103,386**
2023 9-Month Total	**160**	**61**	**5,833**	**2,723**	**12,034**	**3,277**	**590**	**73,259**	**6,321**	**688**	**15,953**	**485**	**103,396**
2022 9-Month Total	**202**	**81**	**5,990**	**2,870**	**12,711**	**3,935**	**669**	**72,426**	**6,190**	**694**	**17,692**	**592**	**105,399**

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

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

[c] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

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

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

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

[g] Includes a small amount of conventional hydroelectric power, 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.

[h] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

[i] Conventional hydroelectric power.

[j] Wood and wood-derived fuels.

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

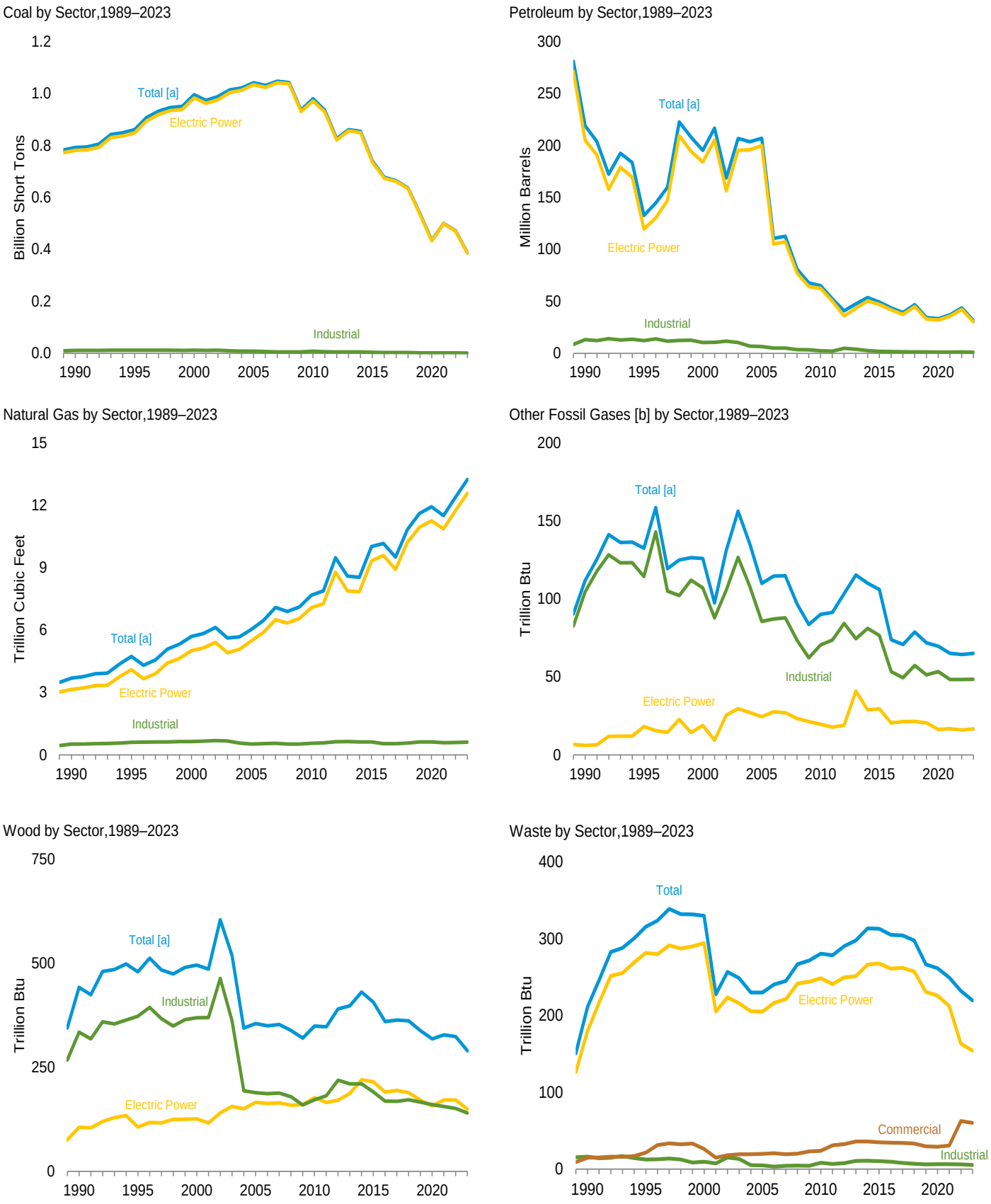
NA=Not available. NM=Not meaningful.

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



[a] Includes commercial sector.
[b] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.
Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.
Sources: Tables 7.3a-7.3c.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation: Total (All Sectors) (Sum of Tables 7.3b and 7.3c)

	Coal[a]	Petroleum					Natural Gas[f]	Other Fossil Gases[g]	Biomass		Other[j]
		Distillate Fuel Oil[b]	Residual Fuel Oil[c]	Other Liquids[d]	Petroleum Coke[e]	Total[e]			Wood[h]	Waste[i]	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1950 Total	**91,871**	**5,423**	**69,998**	**NA**	**NA**	**75,421**	**629**	**NA**	**5**	**NA**	**NA**
1955 Total	**143,759**	**5,412**	**69,862**	**NA**	**NA**	**75,274**	**1,153**	**NA**	**3**	**NA**	**NA**
1960 Total	**176,685**	**3,824**	**84,371**	**NA**	**NA**	**88,195**	**1,725**	**NA**	**2**	**NA**	**NA**
1965 Total	**244,788**	**4,928**	**110,274**	**NA**	**NA**	**115,203**	**2,321**	**NA**	**3**	**NA**	**NA**
1970 Total	**320,182**	**24,123**	**311,381**	**NA**	**636**	**338,686**	**3,932**	**NA**	**1**	**2**	**NA**
1975 Total	**405,962**	**38,907**	**467,221**	**NA**	**70**	**506,479**	**3,158**	**NA**	**(s)**	**2**	**NA**
1980 Total	**569,274**	**29,051**	**391,163**	**NA**	**179**	**421,110**	**3,682**	**NA**	**3**	**2**	**NA**
1985 Total	**693,841**	**14,635**	**158,779**	**NA**	**231**	**174,571**	**3,044**	**NA**	**8**	**7**	**NA**
1990 Total[k]	**792,457**	**18,143**	**190,652**	**437**	**1,914**	**218,800**	**3,692**	**112**	**442**	**211**	**36**
1995 Total	**860,594**	**19,615**	**95,507**	**680**	**3,355**	**132,578**	**4,738**	**133**	**480**	**316**	**42**
2000 Total	**994,933**	**31,675**	**143,381**	**1,450**	**3,744**	**195,228**	**5,691**	**126**	**496**	**330**	**46**
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 January	48,671	2,591	2,392	234	240	6,419	973	5	29	20	14
February	39,951	1,063	856	147	248	3,305	824	5	27	19	12
March	34,396	862	727	142	216	2,810	800	5	27	20	13
April	30,904	694	591	123	225	2,534	768	5	24	19	13
May	35,210	834	678	76	248	2,826	947	6	26	19	13
June	41,748	928	623	153	281	3,108	1,169	6	28	20	13
July	49,433	949	881	190	219	3,117	1,431	6	30	20	14
August	48,356	890	812	195	241	3,102	1,408	5	30	20	13
September	37,302	714	861	163	280	3,140	1,150	5	26	19	12
October	31,458	751	900	164	263	3,129	972	5	24	19	13
November	32,398	783	778	139	227	2,836	928	5	26	19	13
December	41,750	3,679	1,809	387	296	7,357	1,016	5	28	19	13
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	1,164	6	25	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	908	4	21	16	11
May	26,228	853	775	104	118	2,324	1,069	4	24	18	12
June	34,450	814	794	118	169	2,569	1,264	5	24	17	12
July	40,501	874	875	131	185	2,803	1,557	5	24	18	12
August	39,427	956	851	119	181	2,829	1,517	5	25	18	12
September	31,572	692	807	99	108	2,137	1,249	4	22	17	11
9-Month Total	**284,058**	**8,159**	**7,272**	**1,460**	**1,179**	**22,787**	**10,612**	**40**	**209**	**157**	**106**
2023 9-Month Total	**295,467**	**7,189**	**7,546**	**1,401**	**1,676**	**24,513**	**10,159**	**49**	**222**	**164**	**109**
2022 9-Month Total	**365,970**	**9,524**	**8,422**	**1,422**	**2,199**	**30,362**	**9,468**	**49**	**247**	**175**	**118**

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
[b] Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.
[c] Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.
[d] Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.
[e] Petroleum coke is converted from short tons to barrels by multiplying by 5.
[f] Natural gas, plus a small amount of supplemental gaseous fuels.
[g] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
[h] Wood and wood-derived fuels.
[i] Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
[j] Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
[k] Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

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

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

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

Sources: 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[a]	Petroleum					Natural Gas[f]	Other Fossil Gases[g]	Biomass		Other[j]
		Distillate Fuel Oil[b]	Residual Fuel Oil[c]	Other Liquids[d]	Petroleum Coke[e]	Total[e]			Wood[h]	Waste[i]	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1950 Total	**91,871**	**5,423**	**69,998**	**NA**	**NA**	**75,421**	**629**	**NA**	**5**	**NA**	**NA**
1955 Total	**143,759**	**5,412**	**69,862**	**NA**	**NA**	**75,274**	**1,153**	**NA**	**3**	**NA**	**NA**
1960 Total	**176,685**	**3,824**	**84,371**	**NA**	**NA**	**88,195**	**1,725**	**NA**	**2**	**NA**	**NA**
1965 Total	**244,788**	**4,928**	**110,274**	**NA**	**NA**	**115,203**	**2,321**	**NA**	**3**	**NA**	**NA**
1970 Total	**320,182**	**24,123**	**311,381**	**NA**	**636**	**338,686**	**3,932**	**NA**	**1**	**2**	**NA**
1975 Total	**405,962**	**38,907**	**467,221**	**NA**	**70**	**506,479**	**3,158**	**NA**	**(s)**	**2**	**NA**
1980 Total	**569,274**	**29,051**	**391,163**	**NA**	**179**	**421,110**	**3,682**	**NA**	**3**	**2**	**NA**
1985 Total	**693,841**	**14,635**	**158,779**	**NA**	**231**	**174,571**	**3,044**	**NA**	**8**	**7**	**NA**
1990 Total[k]	**781,301**	**16,394**	**183,285**	**25**	**1,008**	**204,745**	**3,147**	**6**	**106**	**180**	**(s)**
1995 Total	**847,854**	**18,066**	**88,895**	**441**	**2,452**	**119,663**	**4,094**	**18**	**106**	**282**	**2**
2000 Total	**982,713**	**29,722**	**138,047**	**403**	**3,155**	**183,946**	**5,014**	**19**	**126**	**294**	**1**
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 January	48,518	2,527	2,374	218	229	6,266	916	1	15	14	7
February	39,807	1,034	839	135	235	3,181	775	1	15	13	6
March	34,239	831	707	131	205	2,695	747	1	14	15	7
April	30,777	667	574	108	215	2,423	718	1	12	13	6
May	35,059	804	661	61	235	2,701	895	2	13	14	6
June	41,592	894	606	137	271	2,991	1,115	1	15	14	6
July	49,282	914	864	173	208	2,992	1,372	2	16	14	6
August	48,204	861	798	179	230	2,988	1,348	1	16	14	6
September	37,163	690	843	143	270	3,027	1,097	1	14	13	6
October	31,323	726	882	150	252	3,015	920	1	12	13	6
November	32,267	758	760	125	214	2,713	875	1	13	13	6
December	41,602	3,619	1,778	277	286	7,103	962	1	15	13	6
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	1,104	1	13	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	856	1	10	11	5
May	26,107	821	762	89	112	2,232	1,017	1	12	12	6
June	34,324	780	781	103	160	2,466	1,213	1	12	12	6
July	40,363	852	864	115	176	2,712	1,500	1	12	13	6
August	39,291	931	837	108	173	2,743	1,459	1	12	13	6
September	31,444	672	797	85	102	2,063	1,196	1	11	12	6
9-Month Total	**282,895**	**7,893**	**7,148**	**1,321**	**1,116**	**21,944**	**10,123**	**9**	**102**	**109**	**52**
2023 9-Month Total	**294,318**	**6,922**	**7,423**	**1,238**	**1,594**	**23,555**	**9,669**	**13**	**116**	**115**	**55**
2022 9-Month Total	**364,642**	**9,222**	**8,267**	**1,284**	**2,098**	**29,265**	**8,983**	**12**	**131**	**124**	**57**

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

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

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

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

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

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

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

[h] Wood and wood-derived fuels.

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

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

[k] Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

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

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

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

Sources: See end of section.

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

	Commercial Sector[a]				Industrial Sector[b]						
				Biomass					Biomass		
	Coal[c]	Petroleum[d]	Natural Gas[e]	Waste[f]	Coal[c]	Petroleum[d]	Natural Gas[e]	Other Fossil Gases[g]	Wood[h]	Waste[f]	Other[i]
	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 January	8	46	4	5	145	107	52	4	13	1	2
February	7	18	4	5	137	105	45	4	12	1	2
March	5	16	4	5	151	98	49	4	13	1	2
April	4	18	4	5	124	93	46	4	12	1	1
May	3	22	4	5	148	104	48	4	13	1	2
June	9	22	4	5	147	95	50	4	13	(s)	2
July	8	22	5	5	143	102	54	4	14	(s)	2
August	9	19	5	5	142	96	54	4	13	(s)	1
September	9	13	4	5	130	100	49	4	12	(s)	1
October	8	14	4	5	126	101	48	4	11	1	1
November	8	15	4	5	122	107	49	4	12	1	1
December	9	43	4	5	139	210	49	4	13	1	1
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 R	(s)	1
February	8	36	4	5	118	91	45	4	11 R	(s)	1
March	6	16	4	5	114	113	50	4	12 R	(s)	1
April	7	11	4	5	111	74	44	4	11	(s)	1
May	6	15	4	5	122	76	49	4	12 R	(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 R	(s)	1
November	6	15	4	5	117	76	51	4	12 R	(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 R	(s)	1
February	7	15	4	5	121	82	49	3	11 R	(s)	1
March	7	18	4	5	132	70	49	3	12	1	1
April	4	19	3	5	102	76	49	3	11 R	(s)	1
May	3	21	4	5	118	72	48	3	12 R	(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	75	54	4	12	(s)	1
September	6	8	4	5	123	66	49	3	11	(s)	1
9-Month Total	**51**	**153**	**37**	**44**	**1,112**	**690**	**452**	**31**	**106**	**4**	**8**
2022 9-Month Total	**50**	**153**	**37**	**45**	**1,099**	**805**	**453**	**36**	**105**	**4**	**9**
2021 9-Month Total	**61**	**196**	**37**	**47**	**1,267**	**901**	**448**	**37**	**115**	**4**	**14**

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

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

[c] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

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

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

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

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

[h] Wood and wood-derived fuels.

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

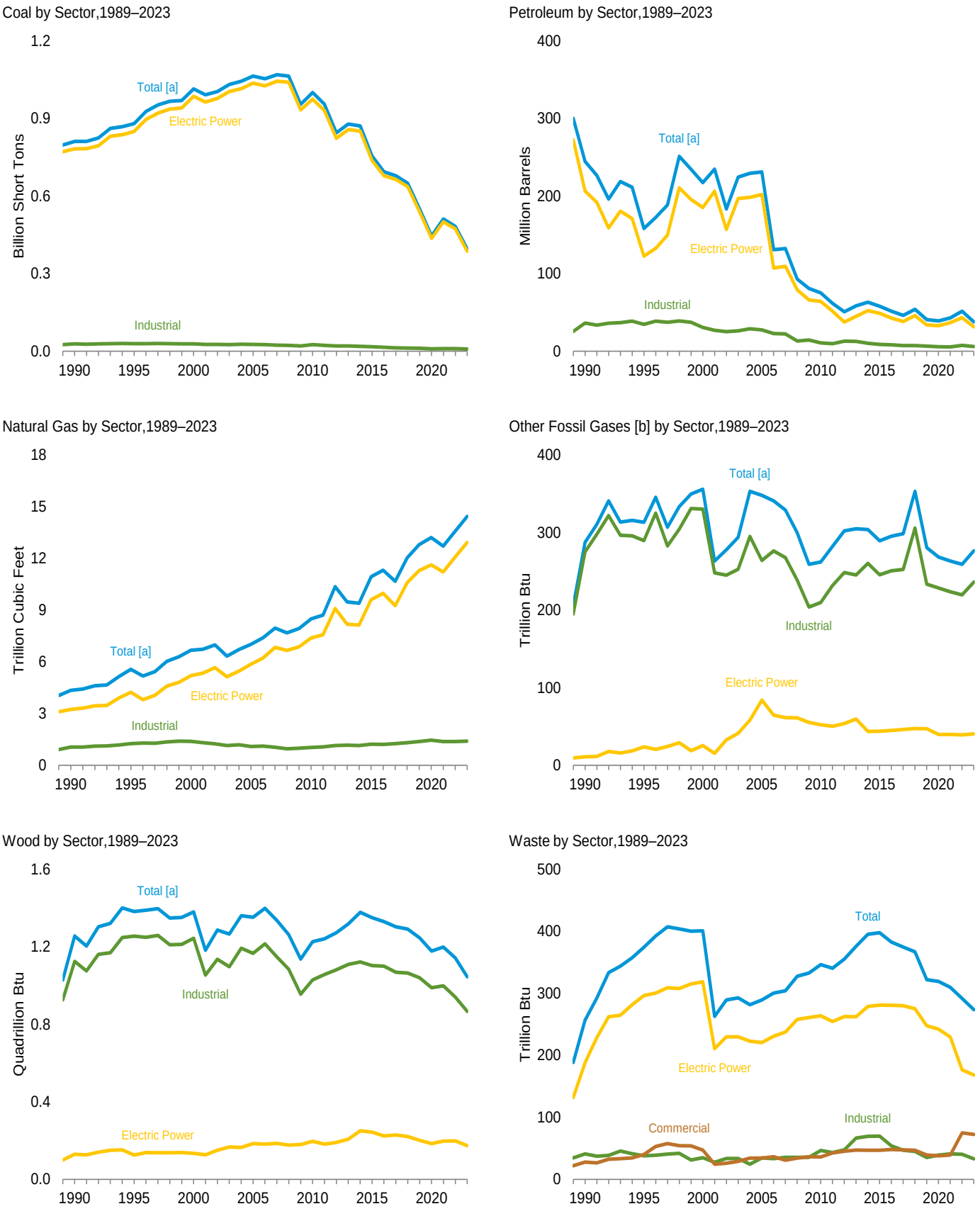
R=Revised. NM=Not meaningful. (s)=Less than 0.5 trillion Btu.

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



[a] Includes commercial sector.
[b] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Note: Data are for utility-scale facilities.
Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.
Sources: Tables 7.4a-7.4c.

Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors) (Sum of Tables 7.4b and 7.4c)

	Coal[a]	Petroleum					Natural Gas[f]	Other Fossil Gases[g]	Biomass		Other[j]
		Distillate Fuel Oil[b]	Residual Fuel Oil[c]	Other Liquids[d]	Petroleum Coke[e]	Total[e]			Wood[h]	Waste[i]	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1950 Total	**91,871**	**5,423**	**69,998**	**NA**	**NA**	**75,421**	**629**	**NA**	**5**	**NA**	**NA**
1955 Total	**143,759**	**5,412**	**69,862**	**NA**	**NA**	**75,274**	**1,153**	**NA**	**3**	**NA**	**NA**
1960 Total	**176,685**	**3,824**	**84,371**	**NA**	**NA**	**88,195**	**1,725**	**NA**	**2**	**NA**	**NA**
1965 Total	**244,788**	**4,928**	**110,274**	**NA**	**NA**	**115,203**	**2,321**	**NA**	**3**	**NA**	**NA**
1970 Total	**320,182**	**24,123**	**311,381**	**NA**	**636**	**338,686**	**3,932**	**NA**	**1**	**2**	**NA**
1975 Total	**405,962**	**38,907**	**467,221**	**NA**	**70**	**506,479**	**3,158**	**NA**	**(s)**	**2**	**NA**
1980 Total	**569,274**	**29,051**	**391,163**	**NA**	**179**	**421,110**	**3,682**	**NA**	**3**	**2**	**NA**
1985 Total	**693,841**	**14,635**	**158,779**	**NA**	**231**	**174,571**	**3,044**	**NA**	**8**	**7**	**NA**
1990 Total[k]	**811,538**	**20,194**	**209,081**	**1,332**	**2,832**	**244,765**	**4,346**	**288**	**1,256**	**257**	**86**
1995 Total	**881,012**	**21,697**	**112,168**	**1,322**	**4,590**	**158,140**	**5,572**	**313**	**1,382**	**374**	**97**
2000 Total	**1,015,398**	**34,572**	**156,673**	**2,904**	**4,669**	**217,494**	**6,677**	**356**	**1,380**	**401**	**109**
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 January	49,742	2,776	2,582	284	295	7,119	1,085	23	101	26	16
February	40,880	1,115	1,011	180	315	3,879	922	20	93	24	15
March	35,381	912	985	171	275	3,445	902	22	95	27	16
April	31,802	733	847	162	282	3,150	860	21	93	24	15
May	36,114	882	908	107	315	3,475	1,043	23	96	24	16
June	42,640	968	894	187	333	3,716	1,266	22	97	23	16
July	50,387	1,012	1,138	231	270	3,730	1,537	23	101	24	17
August	49,318	932	979	229	310	3,691	1,514	22	100	24	16
September	38,207	744	1,099	197	330	3,689	1,246	21	91	22	15
October	32,391	798	1,134	199	325	3,754	1,067	21	89	24	15
November	33,301	832	1,010	169	298	3,499	1,026	20	93	24	15
December	42,768	3,895	2,128	512	355	8,307	1,120	21	96	25	15
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	1,280	23	89	24	15
February	26,700	695	860	175	152	2,489	1,041	20	78	21	13
March	23,151	763	865	166	99	2,292	1,048	21	85	22	14
April	21,978	1,015	871	390	147	3,008	1,003	19	83	21	13
May	26,929	932	957	134	165	2,848	1,168	21	85	22	14
June	35,182	905	978	148	218	3,119	1,363	21	80	20	14
July	41,276	902	995	164	235	3,233	1,662	21	83	21	15
August	40,239	982	989	144	233	3,281	1,625	21	88	21	15
September	32,298	716	937	128	150	2,529	1,350	19	85	20	13
9-Month Total	**291,078**	**8,766**	**8,813**	**1,739**	**1,596**	**27,295**	**11,539**	**185**	**758**	**194**	**125**
2023 9-Month Total	**302,535**	**7,707**	**9,084**	**1,693**	**2,141**	**29,191**	**11,060**	**207**	**785**	**203**	**132**
2022 9-Month Total	**374,472**	**10,074**	**10,443**	**1,747**	**2,726**	**35,893**	**10,377**	**197**	**866**	**219**	**141**

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

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

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

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

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

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

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

[h] Wood and wood-derived fuels.

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

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

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

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

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

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

Sources: 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[a]	Petroleum					Natural Gas[f]	Other Fossil Gases[g]	Biomass		Other[j]
		Distillate Fuel Oil[b]	Residual Fuel Oil[c]	Other Liquids[d]	Petroleum Coke[e]	Total[e]			Wood[h]	Waste[i]	
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu			
1950 Total	**91,871**	**5,423**	**69,998**	**NA**	**NA**	**75,421**	**629**	**NA**	**5**	**NA**	**NA**
1955 Total	**143,759**	**5,412**	**69,862**	**NA**	**NA**	**75,274**	**1,153**	**NA**	**3**	**NA**	**NA**
1960 Total	**176,685**	**3,824**	**84,371**	**NA**	**NA**	**88,195**	**1,725**	**NA**	**2**	**NA**	**NA**
1965 Total	**244,788**	**4,928**	**110,274**	**NA**	**NA**	**115,203**	**2,321**	**NA**	**3**	**NA**	**NA**
1970 Total	**320,182**	**24,123**	**311,381**	**NA**	**636**	**338,686**	**3,932**	**NA**	**1**	**2**	**NA**
1975 Total	**405,962**	**38,907**	**467,221**	**NA**	**70**	**506,479**	**3,158**	**NA**	**(s)**	**2**	**NA**
1980 Total	**569,274**	**29,051**	**391,163**	**NA**	**179**	**421,110**	**3,682**	**NA**	**3**	**2**	**NA**
1985 Total	**693,841**	**14,635**	**158,779**	**NA**	**231**	**174,571**	**3,044**	**NA**	**8**	**7**	**NA**
1990 Total[k]	**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 January	48,805	2,563	2,425	228	239	6,410	949	3	18	16	7
February	40,063	1,044	859	136	254	3,307	804	3	17	15	6
March	34,498	840	738	133	216	2,788	777	3	16	16	7
April	31,012	672	598	109	223	2,495	743	4	14	14	7
May	35,264	810	686	63	244	2,778	923	4	15	14	7
June	41,817	900	631	139	278	3,060	1,145	3	17	15	7
July	49,556	921	886	174	211	3,034	1,405	4	19	15	7
August	48,469	865	821	183	239	3,062	1,380	3	19	15	7
September	37,409	695	870	144	279	3,102	1,125	3	16	14	6
October	31,554	731	912	151	260	3,096	946	3	14	14	6
November	32,503	763	791	126	228	2,821	902	3	15	14	6
December	41,883	3,658	1,815	278	295	7,226	992	3	17	15	7
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	1,137	3	15	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	12	13	6
April	21,288	925	705	347	102	2,488	882	3	11	12	6
May	26,253	825	785	91	120	2,303	1,046	2	13	13	6
June	34,464	786	804	105	169	2,539	1,244	3	13	13	6
July	40,519	857	886	116	185	2,784	1,534	3	14	13	7
August	39,471	935	857	111	183	2,816	1,494	3	14	14	7
September	31,584	675	815	87	109	2,121	1,228	3	13	13	6
9-Month Total	**284,355**	**7,945**	**7,335**	**1,340**	**1,193**	**22,588**	**10,404**	**25**	**118**	**118**	**57**
2023 9-Month Total	**295,928**	**6,986**	**7,637**	**1,253**	**1,691**	**24,330**	**9,932**	**30**	**134**	**125**	**60**
2022 9-Month Total	**366,893**	**9,311**	**8,513**	**1,308**	**2,181**	**30,037**	**9,251**	**31**	**150**	**133**	**61**

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
[b] Fuel oil nos. 1, 2, and 4. For 1949–1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980–2000, electric utility data also include small amounts of kerosene and jet fuel.
[c] Fuel oil nos. 5 and 6. For 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.
[d] Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.
[e] Petroleum coke is converted from short tons to barrels by multiplying by 5.
[f] Natural gas, plus a small amount of supplemental gaseous fuels.
[g] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
[h] Wood and wood-derived fuels.
[i] Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
[j] Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
[k] Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes: • Data are for utility-scale facilities. See Note 1, "Coverage of Electricity Statistics," at end of section. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

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

	Commercial Sector[a]				Industrial Sector[b]						
				Biomass					Biomass		
	Coal[c]	Petroleum[d]	Natural Gas[e]	Waste[f]	Coal[c]	Petroleum[d]	Natural Gas[e]	Other Fossil Gases[g]	Wood[h]	Waste[f]	Other[i]
	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 January	56	168	11	6	881	540	124	19	83	4	3
February	55	57	10	6	762	515	108	17	75	4	3
March	37	57	10	6	845	599	115	19	78	4	3
April	25	52	9	6	765	603	108	17	78	4	2
May	27	65	9	6	824	632	111	19	81	4	3
June	42	48	10	6	781	608	112	18	79	2	3
July	44	66	12	7	787	630	121	19	83	2	3
August	46	48	12	6	803	581	122	19	81	3	3
September	47	25	10	6	751	562	111	18	74	2	2
October	46	28	9	6	791	630	112	18	74	3	2
November	52	35	10	6	746	642	115	18	77	4	3
December	57	181	11	6	828	900	117	18	78	4	2
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	448	121	19	74	2	2
September	31	14	9	5	683	394	113	16	72	2	1
9-Month Total	**301**	**555**	**89**	**52**	**6,422**	**4,153**	**1,046**	**160**	**637**	**23**	**17**
2022 9-Month Total	**299**	**365**	**89**	**54**	**6,308**	**4,496**	**1,039**	**177**	**648**	**23**	**18**
2021 9-Month Total	**380**	**586**	**94**	**56**	**7,199**	**5,269**	**1,032**	**166**	**712**	**29**	**24**

[a] Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
[b] Industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
[c] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
[d] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
[e] Natural gas, plus a small amount of supplemental gaseous fuels.
[f] Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
[g] Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
[h] Wood and wood-derived fuels.
[i] Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

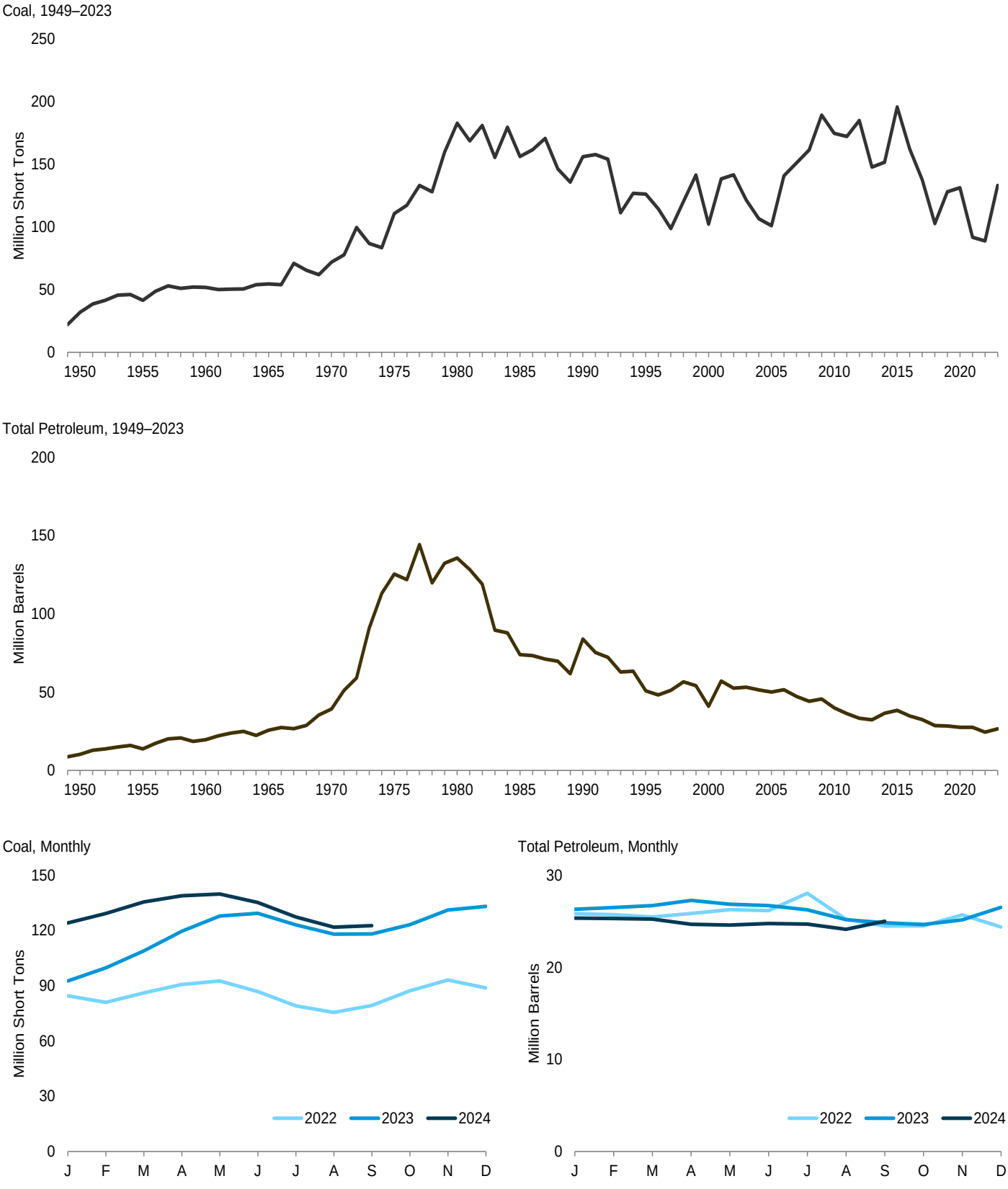
NM=Not meaningful.

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

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

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

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector



Note: Data are for utility-sale facilities.
Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.
Source: Table 7.5.

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

	Coal[a]	Petroleum				
		Distillate Fuel Oil[b]	Residual Fuel Oil[c]	Other Liquids[d]	Petroleum Coke[e]	Total[e,f]
	Thousand Short Tons	Thousand Barrels			Thousand Short Tons	Thousand Barrels
1950 Year	**31,842**	**NA**	**NA**	**NA**	**NA**	**10,201**
1955 Year	**41,391**	**NA**	**NA**	**NA**	**NA**	**13,671**
1960 Year	**51,735**	**NA**	**NA**	**NA**	**NA**	**19,572**
1965 Year	**54,525**	**NA**	**NA**	**NA**	**NA**	**25,647**
1970 Year	**71,908**	**NA**	**NA**	**NA**	**239**	**39,151**
1975 Year	**110,724**	**16,432**	**108,825**	**NA**	**31**	**125,413**
1980 Year	**183,010**	**30,023**	**105,351**	**NA**	**52**	**135,635**
1985 Year	**156,376**	**16,386**	**57,304**	**NA**	**49**	**73,933**
1990 Year	**156,166**	**16,471**	**67,030**	**NA**	**94**	**83,970**
1995 Year	**126,304**	**15,392**	**35,102**	**NA**	**65**	**50,821**
2000 Year[g]	**102,296**	**15,127**	**24,748**	**NA**	**211**	**40,932**
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 January	84,541	17,370	6,108	688	336	25,848
February	81,034	17,448	6,106	697	299	25,745
March	86,143	17,332	5,772	652	350	25,503
April	90,746	17,185	5,920	654	424	25,877
May	92,692	17,530	5,816	680	454	26,295
June	86,869	17,297	6,119	662	423	26,195
July	79,172	19,050	6,070	587	474	28,075
August	75,570	16,460	5,834	501	490	25,243
September	79,354	16,218	5,775	490	405	24,508
October	87,342	16,263	6,014	494	351	24,524
November	93,203	16,970	6,192	517	408	25,718
December	**88,861**	**16,521**	**5,777**	**513**	**318**	**24,404**
2023 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
December	**133,253**	**17,628**	**6,058**	**717**	**427**	**26,539**
2024 January	124,175	17,337	5,846	623	312	25,365
February	129,330	17,234	5,941	610	308	25,327
March	135,677	17,044	5,966	597	333	25,272
April	139,008	16,677	5,989	484	309	24,693
May	139,985	16,657	5,926	481	312	24,622
June	135,366	16,912	5,801	463	322	24,786
July	127,493	16,765	5,568	465	384	24,720
August	121,857	16,309	5,427	460	390	24,148
September	122,752	17,036	5,331	447	444	25,032

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

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

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

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

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

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

[g] Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

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

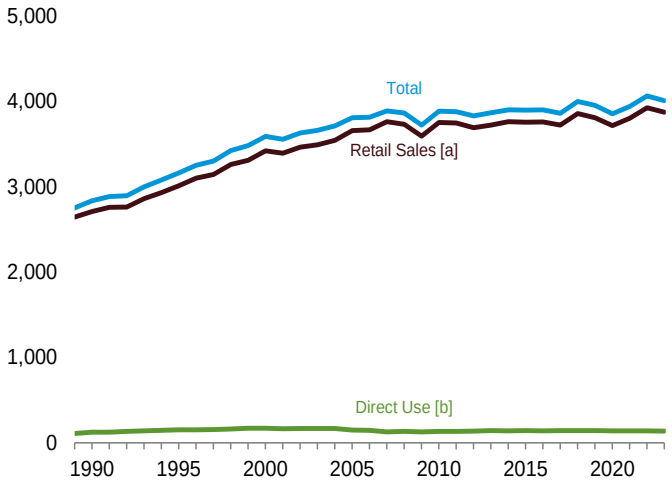
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

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

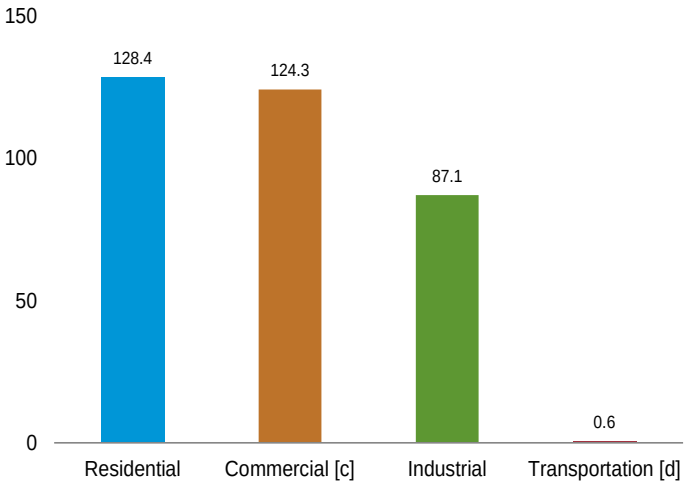
Figure 7.6 Electricity End Use

(Billion Kilowatthours)

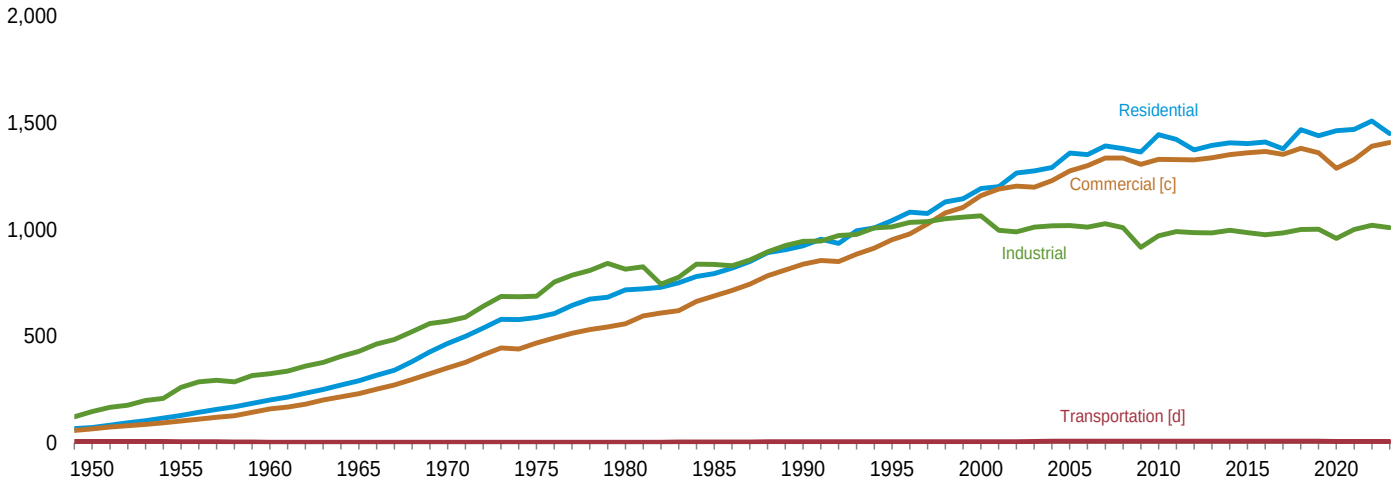
Electricity End Use Overview,1989–2023



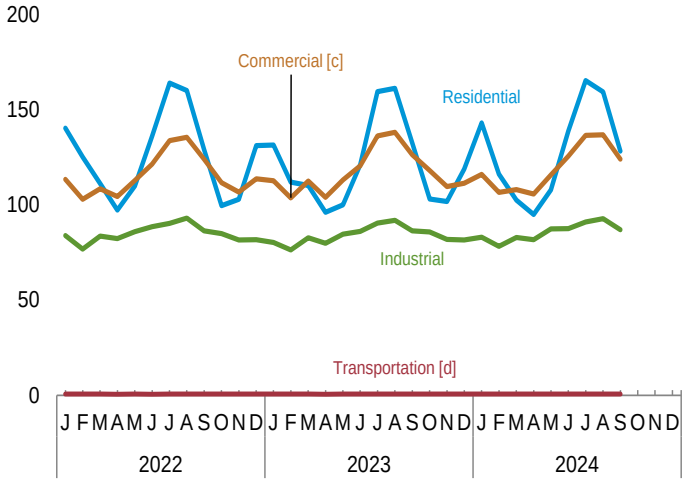
Sales to Ultimate Customers [a] by Sector, September 2024



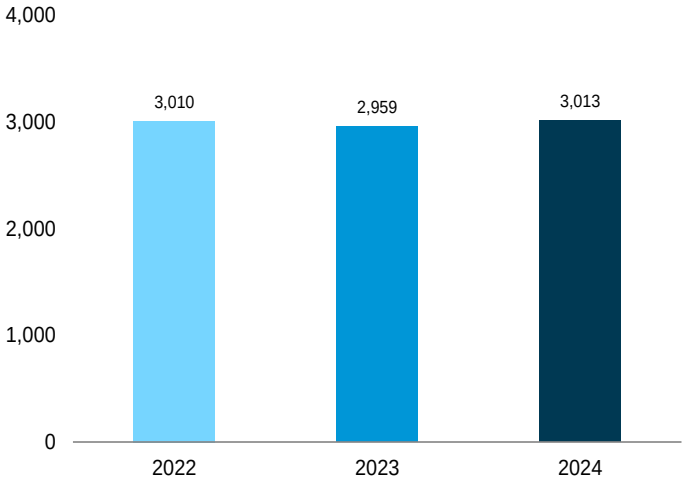
Sales to Ultimate Customers [a] by Sector, 1949–2023



Sales to Ultimate Customers [a] by Sector, Monthly



Sales to Ultimate Customers [a] Total, January–September



[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, interdepartmental 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[a]							
	Residential[b]	Commercial[b,c]	Industrial[b,d]	Transportation[e]	Total Sales[f]	Direct Use[g]	Total End Use[h]	*Electric Vehicle Use*[b,i]
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**	**138,703**	**3,856,377**	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 January	140,504	113,605	83,982	565	338,656	E 12,397	351,053	E *377*
February	125,342	103,063	76,893	566	305,863	E 10,831	316,694	E *366*
March	111,439	108,603	83,679	579	304,300	E 11,587	315,887	E *409*
April	97,432	104,566	82,422	513	284,933	E 10,855	295,788	E *381*
May	110,071	113,007	86,090	529	309,697	E 11,467	321,164	E *412*
June	136,310	121,567	88,716	513	347,106	E 11,690	358,796	E *417*
July	164,277	133,952	90,420	566	389,214	E 12,567	401,782	E *444*
August	160,271	135,676	93,143	536	389,626	E 12,560	402,186	E *453*
September	129,241	124,195	86,550	558	340,544	E 11,309	351,853	E *453*
October	99,792	111,851	85,017	535	297,196	E 11,167	308,363	E *483*
November	103,152	106,858	81,701	546	292,258	E 11,555	303,812	E *498*
December	131,402	113,929	81,852	593	327,776	E 11,742	339,518	E *559*
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	143,267	116,194	83,099	611	343,171	E 12,464	R 355,635	E *831*
February	116,351	106,678	78,345	541	301,916	E 11,027	R 312,942	E *756*
March	102,726	108,217	82,980	599	294,522	E 11,034	R 305,555	E *853*
April	95,126	105,888	81,881	538	283,432	E 10,846	R 294,278	E *808*
May	107,999	115,903	87,533	597	312,031	E 11,151	R 323,182	E *876*
June	139,067	125,818	87,651	568	353,104	E 10,925	R 364,029	E *888*
July	165,564	136,759	91,160	641	394,124	E 11,754	R 405,878	E *942*
August	159,644	136,966	92,969	640	390,219	E 12,200	R 402,419	E *951*
September	128,429	124,259	87,127	564	340,380	E 11,052	351,432	E *921*
9-Month Total	**1,158,174**	**1,076,682**	**772,745**	**5,298**	**3,012,899**	E **102,451**	**3,115,350**	E ***7,828***
2023 9-Month Total	**1,125,888**	**1,068,633**	**759,589**	**5,188**	**2,959,298**	E **102,143**	**3,061,440**	E ***5,401***
2022 9-Month Total	**1,174,887**	**1,058,234**	**771,894**	**4,925**	**3,009,940**	E **105,262**	**3,115,201**	E ***3,712***

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

[b] 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.

[c] Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

[d] Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

[e] Sales to public railroads and railway systems only. Excludes the estimated amount of electricity used to operate and move electric vehicles.

[f] The sum of "Residential," "Commercial," "Industrial," and "Transportation."

[g] 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.

[h] The sum of "Total Sales to Ultimate Customers" and "Direct Use."

[i] 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.

R=Revised. 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.

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	Hydroelectric Pumped Storage	Renewable Energy							Battery Storage	Total[l]
							Conventional Hydroelectric Power[e]	Biomass		Geothermal	Solar[h]	Wind	Total		
	Coal[a]	Petroleum[b]	Natural Gas[c]	Total[d]				Wood[f]	Waste[g]						
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**	**.2**	**1.6**	**(k)**	**(s)**	**90.8**	**NA**	**655.2**
1990 Year[l]	**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 January	202.0	31.3	498.4	733.4	95.4	23.0	80.0	7.8	4.5	2.6	62.8	133.7	291.5	5.0	1,149.7
February	202.0	31.3	498.5	733.4	95.4	23.0	80.0	7.8	4.5	2.6	63.2	134.0	292.0	5.1	1,150.4
March	200.8	31.2	498.2	732.0	95.4	23.0	80.1	7.8	4.4	2.6	64.1	135.1	294.1	5.3	1,151.3
April	200.4	31.1	498.2	731.5	95.4	23.0	80.1	7.8	4.4	2.6	64.6	137.4	296.9	6.1	1,154.3
May	198.9	31.1	500.4	732.1	95.4	23.0	80.1	7.8	4.4	2.6	65.4	137.6	297.9	6.1	1,155.9
June	195.9	31.0	501.5	730.1	94.7	23.0	80.1	7.8	4.4	2.6	66.6	138.0	299.5	6.6	1,155.3
July	195.9	31.0	502.6	731.2	94.7	23.0	80.1	7.8	4.4	2.6	67.2	138.0	300.1	6.9	1,157.3
August	194.9	31.0	502.5	730.0	94.7	23.0	80.1	7.8	4.4	2.7	67.9	138.0	300.8	7.5	1,157.5
September	192.4	30.9	502.4	727.5	94.7	23.0	80.1	7.8	4.4	2.7	68.7	138.0	301.6	8.0	1,156.2
October	192.4	30.8	502.4	727.4	94.7	23.0	80.1	7.8	4.4	2.6	69.2	138.0	302.1	8.6	1,157.3
November	192.3	30.8	502.7	727.6	94.7	23.0	80.1	7.8	4.4	2.6	70.0	139.7	304.7	8.7	1,160.1
December	**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	177.4	29.5	508.6	717.3	95.7	23.1	79.8	7.7	4.1	2.7	94.7	148.3	337.4	15.8	1,190.8
February	177.4	29.5	508.6	717.3	95.7	23.1	79.8	7.7	4.1	2.7	95.3	148.5	338.2	15.9	1,191.6
March	177.2	29.5	507.8	716.4	95.7	23.2	79.8	7.7	4.1	2.7	98.2	148.7	341.3	16.9	1,194.9
April	176.6	29.4	507.8	715.7	96.8	23.2	79.8	7.7	4.1	2.7	99.6	149.8	343.8	17.6	1,198.5
May	176.1	29.4	507.9	715.3	96.8	23.2	79.8	7.7	4.1	2.7	102.0	150.0	346.4	18.7	1,201.8
June	175.9	29.3	506.5	713.6	96.8	23.2	79.8	7.7	4.1	2.7	104.7	150.1	349.0	19.9	1,204.1
July	175.9	29.3	507.3	714.4	96.8	23.2	79.8	7.7	4.0	2.7	105.6	150.8	350.7	20.6	1,207.2
August	175.9	29.3	507.3	714.4	96.8	23.2	79.8	7.7	4.0	2.7	106.8	151.0	352.0	21.6	1,209.5
September	175.6	29.3	507.3	714.2	96.8	23.2	79.8	7.7	4.0	2.7	109.0	151.1	354.3	22.4	1,212.4

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] 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.

[e] Through 1988, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

[f] Wood and wood-derived fuels.

[g] 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).

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

[i] 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.

[j] Through 1984, waste is included in "Wood."

[k] Through 1988, solar is included in "Wind."

[l] 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	Hydroelectric Pumped Storage	Renewable Energy							Battery Storage	Total[l]
							Conventional Hydroelectric Power[e]	Biomass		Geothermal	Solar[h]	Wind	Total		
	Coal[a]	Petroleum[b]	Natural Gas[c]	Total[d]				Wood[f]	Waste[g]						
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**	**.2**	**1.6**	**(k)**	**(s)**	**90.8**	**NA**	**655.2**
1990 Year[l]	**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**	**(s)**	**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 January	200.6	29.8	479.6	710.4	95.4	23.0	79.7	2.4	3.1	2.6	62.3	133.6	283.7	4.9	1,117.6
February	200.6	29.8	479.7	710.4	95.4	23.0	79.7	2.4	3.1	2.6	62.6	133.8	284.3	5.0	1,118.3
March	199.4	29.7	479.4	708.8	95.4	23.0	79.8	2.4	3.0	2.6	63.6	135.0	286.4	5.3	1,119.1
April	198.9	29.6	479.4	708.3	95.4	23.0	79.8	2.4	3.0	2.6	64.0	137.3	289.1	6.0	1,122.1
May	197.4	29.6	481.6	708.9	95.4	23.0	79.8	2.4	3.0	2.6	64.8	137.5	290.1	6.0	1,123.7
June	194.4	29.4	482.7	706.9	94.7	23.0	79.8	2.4	3.0	2.6	66.0	137.9	291.7	6.5	1,123.1
July	194.4	29.4	483.8	708.0	94.7	23.0	79.8	2.4	3.0	2.6	66.6	137.9	292.3	6.9	1,125.1
August	193.4	29.4	483.7	706.9	94.7	23.0	79.8	2.4	3.0	2.7	67.3	137.9	293.0	7.4	1,125.2
September	191.0	29.4	483.7	704.4	94.7	23.0	79.8	2.4	3.0	2.7	68.1	137.9	293.8	7.9	1,123.9
October	191.0	29.3	483.7	704.3	94.7	23.0	79.8	2.4	3.0	2.6	68.6	137.9	294.3	8.6	1,125.1
November	190.8	29.3	484.0	704.5	94.7	23.0	79.8	2.4	3.0	2.6	69.4	139.6	296.8	8.7	1,127.8
December	**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**
2023 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**
2024 January	176.0	28.0	489.9	694.3	95.7	23.1	79.5	2.3	2.7	2.7	94.0	148.2	329.5	15.8	1,158.6
February	176.0	28.0	489.9	694.3	95.7	23.1	79.5	2.3	2.7	2.7	94.6	148.4	330.3	15.8	1,159.5
March	175.8	28.0	489.2	693.4	95.7	23.2	79.5	2.3	2.7	2.7	97.5	148.5	333.4	16.9	1,162.7
April	175.1	28.0	489.3	692.8	96.8	23.2	79.5	2.3	2.7	2.7	98.9	149.7	335.9	17.5	1,166.4
May	174.7	28.0	489.4	692.3	96.8	23.2	79.5	2.3	2.7	2.7	101.3	149.9	338.5	18.6	1,169.7
June	174.5	27.9	487.9	690.6	96.8	23.2	79.5	2.3	2.7	2.7	104.0	150.0	341.2	19.9	1,171.9
July	174.5	27.9	488.7	691.5	96.8	23.2	79.5	2.3	2.7	2.7	104.9	150.7	342.8	20.6	1,175.1
August	174.5	27.9	488.7	691.5	96.8	23.2	79.5	2.3	2.7	2.7	106.1	150.8	344.2	21.5	1,177.4
September	174.2	27.9	488.7	691.2	96.8	23.2	79.5	2.3	2.7	2.7	108.2	151.0	346.5	22.4	1,180.3

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] 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.

[e] Through 1988, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

[f] Wood and wood-derived fuels.

[g] 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).

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

[i] 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.

[j] Through 1984, waste is included in "Wood."

[k] Through 1988, solar is included in "Wind."

[l] 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[h]
							Conventional Hydro-electric Power	Biomass		Geo-thermal	Solar[g]	Wind	Total		
	Coal[a]	Petroleum[b]	Natural Gas[c]	Total[d]				Wood[e]	Waste[f]						
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 January	(s)	1.0	2.3	3.3	–	–	.1	.1	1.3	–	.4	.1	2.0	(s)	5.4
February	(s)	1.0	2.3	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**	**2.4**	**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	2.3	3.4	–	–	.1	.1	1.3	–	.4	.1	2.0	(s)	5.4
February	(s)	1.0	2.3	3.4	–	–	.1	.1	1.3	–	.4	.1	2.0	(s)	5.4
March	(s)	1.0	2.3	3.4	–	–	.1	.1	1.3	–	.4	.1	2.0	(s)	5.4
April	(s)	1.0	2.3	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	–	.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)	5.4
August	(s)	1.0	2.4	3.4	–	–	.1	.1	1.2	–	.5	.1	2.0	(s)	5.4
September	(s)	1.0	2.4	3.4	–	–	.1	.1	1.2	–	.5	.1	2.0	(s)	5.4

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] 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.

[e] Wood and wood-derived fuels.

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

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

[h] 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[h]
							Conventional Hydro-electric Power	Biomass		Geo-thermal	Solar[g]	Wind	Total		
	Coal[a]	Petroleum[b]	Natural Gas[c]	Total[d]				Wood[e]	Waste[f]						
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 January	1.4	.6	16.4	19.7	–	–	.2	5.2	.1	–	.1	(s)	5.8	(s)	26.7
February	1.4	.6	16.4	19.7	–	–	.2	5.2	.1	–	.1	(s)	5.8	(s)	26.7
March	1.4	.6	16.4	19.8	–	–	.2	5.2	.1	–	.1	(s)	5.8	(s)	26.8
April	1.4	.6	16.4	19.8	–	–	.2	5.2	.1	–	.1	(s)	5.8	(s)	26.8
May	1.4	.6	16.4	19.8	–	–	.2	5.2	.1	–	.1	.1	5.8	(s)	26.8
June	1.4	.6	16.4	19.8	–	–	.2	5.2	.1	–	.2	.1	5.8	(s)	26.8
July	1.4	.6	16.4	19.8	–	–	.2	5.3	.1	–	.2	.1	5.8	(s)	26.8
August	1.4	.6	16.4	19.8	–	–	.2	5.3	.1	–	.2	.1	5.8	(s)	26.8
September	1.4	.6	16.4	19.8	–	–	.2	5.3	.1	–	.2	.1	5.8	(s)	26.8
October	1.4	.6	16.4	19.7	–	–	.2	5.3	.1	–	.2	.1	5.8	(s)	26.8
November	1.4	.6	16.4	19.7	–	–	.2	5.3	.1	–	.2	.1	5.8	(s)	26.8
December	**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	5.9	(s)	26.8
February	1.4	.5	16.3	19.7	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.8
March	1.4	.5	16.3	19.7	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.8
April	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7
May	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7
June	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7
July	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7
August	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7
September	1.4	.5	16.2	19.6	–	–	.2	5.2	.1	–	.3	.1	5.9	(s)	26.7

[a] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[b] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[c] Natural gas, plus a small amount of supplemental gaseous fuels.

[d] 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.

[e] Wood and wood-derived fuels.

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

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

[h] 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[a]												Usage Factors[b]	
			Natural Gas[f]							Solar				
	Coal[c,d]	Petroleum[c,e]	Combined Cycle	Gas Turbine	Steam Turbine	Nuclear Electric Power[g]	Conventional Hydroelectric Power	Biomass[c,h]	Geothermal	Photovoltaic[i]	Thermal	Wind[j]	Hydroelectric Pumped Storage	Battery Storage
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**	**86.1**	**39.6**	**62.1**	**68.3**	**20.4**	**23.6**	**32.4**	**–**	**–**
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**	**93.5**	**41.2**	**60.3**	**69.6**	**24.3**	**21.2**	**34.8**	**10.4**	**5.4**
2020 Year	**40.5**	**5.2**	**57.1**	**11.6**	**14.2**	**92.5**	**40.7**	**59.5**	**69.1**	**24.2**	**20.6**	**35.4**	**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 January	57.4	7.4	55.6	11.3	14.8	99.4	40.6	60.8	75.1	16.8	11.3	37.5	9.5	5.5
February	52.2	5.7	52.4	9.6	11.7	96.5	39.6	61.9	70.3	21.2	15.9	41.6	8.9	6.6
March	41.0	3.9	46.6	8.2	8.5	89.0	41.0	58.3	65.7	24.4	23.1	42.7	9.1	5.7
April	38.5	4.0	44.2	9.6	9.6	80.5	34.8	56.7	67.1	28.5	30.1	46.6	7.3	6.0
May	42.1	4.9	49.6	12.5	14.6	89.3	39.2	56.8	67.4	30.9	33.5	41.1	10.9	6.4
June	52.5	5.2	61.2	16.9	20.2	96.4	45.1	60.3	67.0	33.2	34.9	33.9	14.8	7.1
July	59.6	4.9	70.5	20.1	28.1	97.8	41.2	61.6	67.1	31.2	26.2	28.6	15.9	6.9
August	59.2	5.2	72.4	18.5	22.4	97.8	35.5	60.4	67.9	28.4	25.3	24.0	16.4	6.6
September	47.3	5.4	63.9	13.8	16.3	93.5	29.5	57.5	68.6	26.5	26.7	27.3	13.2	6.1
October	38.7	5.1	53.0	10.2	13.3	83.7	24.1	53.8	65.3	22.9	26.4	31.6	8.4	6.7
November	40.9	5.2	52.0	11.2	13.7	91.0	31.0	57.8	72.6	16.5	14.1	40.8	9.2	6.7
December	51.4	7.7	56.8	12.5	14.1	98.1	34.3	59.3	74.1	12.5	9.0	36.8	9.6	6.5
Average	**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	56.7	4.6	63.6	12.4	16.1	97.1	36.9	59.6	70.2	13.8	7.3	31.6	9.5	5.4
February	35.9	3.1	56.1	9.8	11.6	96.9	36.2	56.3	69.7	18.7	11.7	39.9	9.7	6.5
March	29.4	3.0	50.7	10.9	13.9	89.0	39.3	54.4	63.6	21.7	20.4	41.0	7.4	6.9
April	29.8	3.5	46.6	13.5	16.0	83.2	33.7	53.9	68.2	26.3	31.6	43.7	9.1	7.3
May	35.5	3.9	53.4	13.8	20.5	90.2	38.1	56.8	61.6	29.1	38.1	34.5	12.5	6.7
June	48.8	4.3	64.9	16.3	27.3	97.8	36.8	56.6	65.1	31.7	39.1	35.1	15.5	6.9
July	54.7	6.1	74.6	24.0	33.6	97.0	35.7	56.8	65.8	30.4	33.0	24.8	16.7	7.8
August	52.9	5.5	73.8	21.8	33.1	96.8	36.0	58.1	65.0	29.9	32.6	25.5	16.2	7.8
September	43.6	3.7	66.7	15.3	22.7	89.9	29.0	55.5	65.1	25.4	31.8	26.6	12.9	7.7

[a] 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).

[b] 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).

[c] Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

[d] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[e] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[f] 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.

[g] See Table 8.1 for nuclear capacity factors for 1957–2007.

[h] 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).

[i] Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

[j] 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[a]												Usage Factors[b]	
			Natural Gas[f]							Solar				
	Coal[c,d]	Petroleum[c,e]	Combined Cycle	Gas Turbine	Steam Turbine	Nuclear Electric Power[g]	Conventional Hydroelectric Power	Biomass[c,h]	Geothermal	Photovoltaic[i]	Thermal	Wind[j]	Hydroelectric Pumped Storage	Battery Storage
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**	**32.4**	–	–
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 January	57.5	7.2	55.2	7.9	13.7	99.4	40.6	58.9	75.1	16.8	11.3	37.6	9.5	5.5
February	52.3	5.4	52.0	6.1	10.8	96.5	39.6	61.1	70.3	21.2	15.9	41.6	8.9	6.6
March	41.0	3.7	46.1	5.0	7.4	89.0	40.9	56.9	65.7	24.5	23.1	42.7	9.1	5.8
April	38.5	3.7	43.7	6.6	8.5	80.5	34.7	53.3	67.1	28.6	30.1	46.6	7.3	6.1
May	42.1	4.6	49.3	9.4	13.7	89.3	39.2	54.5	67.4	31.0	33.5	41.1	10.9	6.4
June	52.6	5.0	61.1	13.7	19.5	96.4	45.1	60.3	67.0	33.3	34.9	33.9	14.8	7.1
July	59.7	4.6	70.7	16.8	27.6	97.8	41.3	62.6	67.1	31.3	26.2	28.7	15.9	6.9
August	59.3	5.0	72.5	15.1	21.7	97.8	35.5	61.6	67.9	28.4	25.3	24.0	16.4	6.6
September	47.4	5.2	64.0	10.5	15.5	93.5	29.5	58.3	68.6	26.6	26.7	27.4	13.2	6.1
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	40.9	4.9	51.5	8.1	12.7	91.0	31.0	56.1	72.6	16.6	14.1	40.8	9.2	6.7
December	51.5	7.6	56.5	9.3	13.2	98.1	34.2	59.3	74.1	12.6	9.0	36.8	9.6	6.5
Average	**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	38.6	3.6	53.4	9.6	15.4	86.3	26.3	49.6	70.4	22.0	26.1	33.1	8.7	7.0
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	56.9	4.5	63.5	8.9	15.0	97.1	36.8	58.4	70.2	13.8	7.3	31.6	9.5	5.4
February	35.9	3.0	55.8	6.4	10.4	96.9	36.1	53.5	69.7	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	51.3	63.6	21.8	20.4	41.0	7.4	6.9
April	29.8	3.5	46.1	10.6	15.1	83.2	33.7	48.6	68.2	26.4	31.6	43.7	9.1	7.3
May	35.5	3.8	53.2	10.9	19.7	90.2	38.0	54.8	61.6	29.1	38.1	34.5	12.5	6.7
June	48.8	4.3	65.1	13.4	26.7	97.8	36.8	55.9	65.1	31.7	39.1	35.1	15.5	7.0
July	54.8	6.1	75.0	21.3	33.1	97.0	35.6	55.1	65.8	30.4	33.0	24.8	16.7	7.8
August	53.0	5.5	73.9	19.0	32.5	96.8	35.9	56.2	65.0	29.9	32.6	25.5	16.2	7.8
September	43.7	3.7	66.8	12.3	21.9	89.9	28.9	54.0	65.1	25.4	31.8	26.6	12.9	7.7

[a] 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).

[b] 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).

[c] Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

[d] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[e] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[f] 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.

[g] See Table 8.1 for nuclear capacity factors for 1957–2007.

[h] 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).

[i] Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

[j] 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[a]												Usage Factors[b]	
			Natural Gas[f]							Solar				
	Coal[c,d]	Petroleum[c,e]	Combined Cycle	Gas Turbine	Steam Turbine	Nuclear Electric Power	Conventional Hydroelectric Power	Biomass[c,g]	Geothermal	Photovoltaic[h]	Thermal	Wind[i]	Hydroelectric Pumped Storage	Battery Storage
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**	**102.1**	**18.2**	**–**	**27.8**	**–**	**1.0**
2020 Year	**27.4**	**.4**	**43.3**	**50.1**	**32.2**	**–**	**32.8**	**52.0**	**103.5**	**17.4**	**–**	**28.3**	**–**	**4.4**
2021 Year	**30.8**	**.4**	**40.7**	**54.2**	**25.5**	**–**	**34.1**	**49.3**	**84.6**	**17.0**	**–**	**28.3**	**–**	**(s)**
2022 January	21.3	1.1	41.8	56.8	29.7	–	38.2	59.4	–	11.4	–	33.8	–	.7
February	20.6	.7	42.2	51.1	25.2	–	37.5	59.8	–	14.8	–	36.6	–	.9
March	18.9	.6	41.9	48.4	26.1	–	38.4	57.3	–	17.1	–	35.8	–	1.0
April	17.9	.5	40.0	44.9	22.3	–	33.5	62.5	–	21.0	–	38.4	–	1.1
May	17.8	.5	44.5	47.6	18.9	–	40.3	62.5	–	21.5	–	30.2	–	1.1
June	36.7	.8	50.0	55.2	22.9	–	43.2	63.2	–	23.2	–	25.3	–	1.3
July	36.4	.6	53.7	68.8	23.6	–	40.1	62.2	–	21.9	–	17.6	–	2.1
August	32.4	.5	52.7	72.6	24.6	–	34.2	62.1	–	21.0	–	14.1	–	1.6
September	35.6	.5	50.5	59.5	23.2	–	28.7	59.5	–	19.1	–	19.1	–	1.1
October	35.6	.4	40.1	45.7	21.2	–	23.6	59.6	–	15.7	–	24.1	–	.9
November	44.1	.7	38.6	52.2	25.4	–	28.3	61.5	–	12.5	–	35.0	–	.9
December	40.0	.9	39.3	58.0	30.7	–	30.8	59.8	–	8.9	–	28.4	–	.7
Average	**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	38.9	.3	43.8	51.6	20.2	–	35.5	57.7	–	13.9	–	18.4	–	.5
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	61.2	27.4	–	42.3	59.4	–	9.9	–	21.2	–	.3
February	39.7	.3	48.1	60.0	26.4	–	40.9	55.5	–	14.6	–	22.3	–	.1
March	40.5	.4	46.6	56.8	25.8	–	42.1	52.0	–	17.1	–	27.3	–	.2
April	33.0	.4	43.1	47.3	21.4	–	36.0	53.6	–	20.3	–	34.2	–	.2
May	19.7	.2	43.2	51.1	20.5	–	42.3	57.6	–	22.2	–	27.7	–	.3
June	28.6	.2	51.5	53.8	23.0	–	46.9	56.6	–	24.0	–	28.1	–	.4
July	31.4	.4	54.9	56.8	27.0	–	42.8	58.7	–	21.9	–	21.4	–	.7
August	38.6	.3	55.4	57.8	25.9	–	40.3	59.9	–	21.8	–	18.6	–	.5
September	36.9	.3	52.6	52.2	24.7	–	29.1	55.9	–	19.0	–	18.1	–	.3

[a] 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).

[b] 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).

[c] Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

[d] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[e] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[f] 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.

[g] 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).

[h] Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

[i] 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[a]												Usage Factors[b]	
			Natural Gas[f]							Solar				
	Coal[c,d]	Petroleum[c,e]	Combined Cycle	Gas Turbine	Steam Turbine	Nuclear Electric Power	Conventional Hydroelectric Power	Biomass[c,g]	Geothermal	Photovoltaic[h]	Thermal	Wind[i]	Hydroelectric Pumped Storage	Battery Storage
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 January	42.5	26.9	72.7	74.0	45.7	–	49.3	63.0	–	12.8	–	29.6	–	2.9
February	42.5	30.4	66.5	74.3	39.2	–	59.0	63.2	–	16.8	–	36.4	–	2.8
March	42.4	21.8	65.2	68.5	41.4	–	71.2	60.0	–	19.7	–	34.7	–	2.5
April	38.6	26.0	61.9	65.4	43.8	–	68.1	58.7	–	22.8	–	33.8	–	3.1
May	44.0	28.3	62.6	70.2	41.3	–	54.4	57.7	–	25.5	–	27.9	–	3.0
June	45.2	26.6	64.2	77.1	43.2	–	42.1	59.6	–	27.1	–	20.3	–	2.5
July	44.8	25.2	68.2	81.8	43.8	–	33.9	60.4	–	26.0	–	17.3	–	2.3
August	44.4	26.4	69.0	82.4	44.2	–	39.1	58.8	–	24.0	–	12.3	–	2.3
September	40.6	25.3	64.3	75.5	39.7	–	40.2	56.2	–	21.4	–	15.3	–	2.4
October	38.4	25.5	67.6	68.0	38.3	–	33.1	52.7	–	19.0	–	26.8	–	2.4
November	38.3	28.7	72.5	70.4	41.9	–	41.1	58.4	–	14.3	–	33.3	–	2.4
December	41.8	24.7	69.1	70.5	37.4	–	58.9	59.0	–	9.9	–	27.9	–	2.4
Average	**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	–	–
February	38.8	16.9	67.6	72.5	40.7	–	61.6	57.6	–	15.8	–	35.1	–	–
March	34.9	18.1	64.6	69.9	45.5	–	66.7	56.1	–	18.9	–	31.2	–	–
April	35.6	13.4	54.6	63.6	41.8	–	58.1	52.8	–	26.8	–	27.3	–	–
May	36.9	14.1	58.9	71.9	41.8	–	54.4	54.8	–	26.6	–	20.8	–	–
June	40.0	13.4	67.1	79.2	45.3	–	45.6	53.5	–	27.7	–	17.4	–	–
July	39.5	15.2	68.8	80.5	46.3	–	44.2	52.8	–	28.2	–	11.2	–	–
August	37.5	15.1	68.3	83.6	45.1	–	36.4	55.7	–	25.6	–	15.3	–	–
September	37.6	13.1	69.0	79.8	46.6	–	30.8	54.2	–	22.9	–	11.7	–	–
October	34.9	12.8	65.7	70.9	43.7	–	26.0	51.8	–	18.4	–	23.2	–	–
November	35.0	13.8	68.8	74.2	47.9	–	30.1	58.0	–	15.2	–	30.2	–	–
December	37.1	13.5	70.9	75.2	45.2	–	46.9	60.8	–	11.6	–	24.8	–	–
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	80.7	50.4	–	55.6	60.7	–	13.1	–	23.7	–	–
February	37.5	15.2	68.4	74.6	47.1	–	54.3	59.2	–	17.8	–	28.7	–	–
March	38.3	13.8	61.8	68.5	45.6	–	53.6	58.0	–	20.7	–	31.9	–	–
April	31.9	14.5	64.4	71.6	44.6	–	48.7	58.9	–	25.2	–	31.9	–	–
May	35.7	13.0	60.5	71.7	46.1	–	51.6	58.5	–	27.7	–	24.4	–	–
June	39.0	15.6	59.6	71.3	50.0	–	50.4	57.2	–	30.2	–	24.6	–	–
July	39.6	16.7	64.3	75.7	50.9	–	42.5	58.0	–	28.6	–	16.5	–	–
August	38.5	13.7	71.1	76.2	52.2	–	48.7	59.3	–	28.0	–	17.3	–	–
September	36.5	13.8	65.4	74.2	48.9	–	42.7	56.9	–	24.0	–	19.2	–	–

[a] 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).

[b] 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).

[c] Steam turbine, gas turbine, internal combustion engine, combined-cycle, and other plants.

[d] Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

[e] Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

[f] 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.

[g] 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).

[h] Solar photovoltaic (PV) energy at utility-scale facilities. Does not include small-scale solar photovoltaic generators.

[i] 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."

Electricity

Note 1. Coverage of Electricity Statistics. Data in Section 7 cover the following:

Through 1984, data for electric utilities also include institutions (such as universities) and military facilities that generated electricity primarily for their own use; beginning in 1985, data for electric utilities exclude institutions and military facilities. Beginning in 1989, data for the commercial sector include institutions and military facilities.

The generation, consumption, and stocks data in Section 7 are for utility-scale facilities—those with a combined generation nameplate capacity of 1 megawatt or more. Data exclude 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.

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*) November 2024, 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.

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

2004 forward: EIA, EPM, November 2024, 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.

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

2004 forward: EIA, EPM November 2024, 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 2021, the 2020 annual share is used.

Electric Vehicle Use

2018 forward: EIA, EPM, November 2024, 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.”