

Table 8.4a Consumption for Electricity Generation by Energy Source: Total (All Sectors), Selected Years, 1949-2011
(Sum of Tables 8.4b and 8.4c; Trillion Btu)

Year	Fossil Fuels					Nuclear Electric Power ⁵	Renewable Energy							Other ⁹	Electricity Net Imports ¹⁰	Total
	Coal ¹	Petroleum ²	Natural Gas ³	Other Gases ⁴	Total		Conventional Hydroelectric Power ⁵	Biomass		Geo-thermal ⁵	Solar/PV ^{5,8}	Wind ⁵	Total			
								Wood ⁶	Waste ⁷							
1949	1,995	415	569	NA	2,979	0	1,425	6	NA	NA	NA	NA	1,431	NA	5	4,415
1950	2,199	472	651	NA	3,322	0	1,415	5	NA	NA	NA	NA	1,421	NA	6	4,749
1955	3,458	471	1,194	NA	5,123	0	1,360	3	NA	NA	NA	NA	1,363	NA	14	6,500
1960	4,228	553	1,785	NA	6,565	6	1,608	2	NA	(s)	NA	NA	1,610	NA	15	8,197
1965	5,821	722	2,395	NA	8,938	43	2,059	3	NA	2	NA	NA	2,064	NA	(s)	11,045
1970	7,227	2,117	4,054	NA	13,399	239	2,634	1	2	6	NA	NA	2,643	NA	7	16,287
1975	8,786	3,166	3,240	NA	15,191	1,900	3,155	(s)	2	34	NA	NA	3,190	NA	21	20,303
1976	9,720	3,477	3,152	NA	16,349	2,111	2,976	1	2	38	NA	NA	3,017	NA	29	21,506
1977	10,262	3,901	3,284	NA	17,446	2,702	2,333	3	2	37	NA	NA	2,376	NA	59	22,583
1978	10,238	3,987	3,297	NA	17,522	3,024	2,937	2	1	31	NA	NA	2,971	NA	67	23,585
1979	11,260	3,283	3,613	NA	18,156	2,776	2,931	3	2	40	NA	NA	2,976	NA	69	23,977
1980	12,123	2,634	3,810	NA	18,567	2,739	2,900	3	2	53	NA	NA	2,957	NA	71	24,335
1981	12,583	2,202	3,768	NA	18,553	3,008	2,758	3	1	59	NA	NA	2,821	NA	113	24,495
1982	12,582	1,568	3,342	NA	17,491	3,131	3,266	2	1	51	NA	NA	3,320	NA	100	24,042
1983	13,213	1,544	2,998	NA	17,754	3,203	3,527	2	2	64	NA	(s)	3,595	NA	121	24,673
1984	14,019	1,286	3,220	NA	18,526	3,553	3,386	5	4	81	(s)	(s)	3,476	NA	135	25,690
1985	14,542	1,090	3,160	NA	18,792	4,076	2,970	8	7	97	(s)	(s)	3,082	NA	140	26,090
1986	14,444	1,452	2,691	NA	18,586	4,380	3,071	5	7	108	(s)	(s)	3,191	NA	122	26,280
1987	15,173	1,257	2,935	NA	19,365	4,754	2,635	8	7	112	(s)	(s)	2,762	NA	158	27,040
1988	15,850	1,563	2,709	NA	20,123	5,587	2,334	10	8	106	(s)	(s)	2,458	NA	108	28,276
1989	¹¹ 16,359	¹¹ 1,756	¹¹ 3,582	90	¹¹ 21,788	¹¹ 5,602	¹² 2,837	¹¹ 345	¹¹ 151	¹¹ 152	¹¹ 3	¹¹ 22	¹¹ 3,510	39	37	30,976
1990	16,477	1,366	3,791	112	21,746	6,104	3,046	442	211	161	4	29	3,893	36	8	31,788
1991	16,460	1,276	3,861	125	21,723	6,422	3,016	425	247	167	5	31	3,889	59	67	32,160
1992	16,686	1,076	3,999	141	21,903	6,479	2,617	481	283	167	4	30	3,582	40	87	32,091
1993	17,424	1,203	4,027	136	22,790	6,410	2,892	485	288	173	5	31	3,874	34	95	33,203
1994	17,485	1,135	4,476	136	23,233	6,694	2,683	498	301	160	5	36	3,683	40	153	33,803
1995	17,687	813	4,840	133	23,473	7,075	3,205	480	316	138	5	33	4,177	42	134	34,901
1996	18,650	888	4,400	159	24,097	7,087	3,590	513	324	148	5	33	4,613	37	137	35,971
1997	19,128	985	4,658	119	24,890	6,597	3,640	484	339	150	5	34	4,653	36	116	36,293
1998	19,417	1,378	5,205	125	26,124	7,068	3,297	475	332	151	5	31	4,290	36	88	37,607
1999	19,467	1,285	5,441	126	26,320	7,610	3,268	490	332	152	5	46	4,292	41	99	38,362
2000	20,411	1,212	5,818	126	27,567	7,862	2,811	496	330	144	5	57	3,843	46	115	39,433
2001	19,789	1,347	6,001	97	27,235	8,029	2,242	486	228	142	6	70	3,173	160	75	38,672
2002	19,997	1,014	6,250	131	27,392	8,145	2,689	605	257	147	6	105	3,809	191	72	39,610
2003	20,367	1,266	5,736	156	27,525	7,959	2,825	519	249	148	5	115	3,860	193	22	39,559
2004	20,376	1,248	5,827	135	27,586	8,222	2,690	344	230	148	6	142	3,560	183	39	39,591
2005	20,802	1,269	6,212	110	28,393	8,161	2,703	355	230	147	6	178	3,619	173	85	40,430
2006	20,527	668	6,644	115	27,954	8,215	2,869	350	241	145	5	264	3,873	162	63	40,268
2007	20,842	683	7,288	115	28,927	8,455	2,446	353	245	145	6	341	3,536	168	107	41,193
2008	20,549	485	7,087	97	28,218	8,427	2,511	339	267	146	9	546	3,817	172	112	40,747
2009	18,241	403	7,302	84	26,029	8,356	2,669	320	272	146	9	721	4,137	170	116	38,808
2010	^R 19,196	^R 386	^R 7,853	^R 90	^R 27,525	^R 8,434	^R 2,539	^R 350	^R 281	^R 148	^R 12	^R 923	^R 4,253	^R 184	^R 89	^R 40,485
2011 ^P	18,044	291	8,051	91	26,477	8,259	3,171	333	287	163	18	1,168	5,140	162	127	40,166

¹ Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
² Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.
³ Natural gas, plus a small amount of supplemental gaseous fuels.
⁴ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
⁵ Values are converted from kilowatt-hours to Btu using the approximate heat rates in Table A6.
⁶ Wood and wood-derived fuels.
⁷ 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).
⁸ Solar thermal and photovoltaic (PV) energy.
⁹ 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).
¹⁰ Net imports equal imports minus exports. See Note 3, "Electricity Imports and Exports," at end of section.
¹¹ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities,

independent power producers, commercial plants, and industrial plants.
¹² Through 1988, data are for electric utilities and industrial plants. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.
R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes: • Data are for energy consumed to produce electricity. Data also include energy consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.
• This table no longer shows energy consumption by hydroelectric pumped storage plants. The change was made because most of the electricity used to pump water into elevated storage reservoirs is generated by plants other than pumped-storage plants; thus, the associated energy is already accounted for in other data columns in this table. • See Note 1, "Coverage of Electricity Statistics," at end of section. • Totals may not equal sum of components due to independent rounding.
Web Pages: • See <http://www.eia.gov/totalenergy/data/annual/#electricity> for all data beginning in 1949.
• For related information, see <http://www.eia.gov/electricity/>.
Sources: • 1949-1988—Table 8.4b for electric power sector, and Tables 8.1 and A6 for industrial sector. • 1989 forward—Tables 8.4b and 8.4c.