

**Table 8.4b Consumption for Electricity Generation by Energy Source: Electric Power Sector, Selected Years, 1949-2011** (Subset of Table 8.4a; Trillion Btu)

Year	Fossil Fuels					Nuclear Electric Power <sup>5</sup>	Renewable Energy							Other <sup>9</sup>	Electricity Net Imports <sup>10</sup>	Total
	Coal <sup>1</sup>	Petroleum <sup>2</sup>	Natural Gas <sup>3</sup>	Other Gases <sup>4</sup>	Total		Conventional Hydroelectric Power <sup>5</sup>	Biomass		Geo-thermal <sup>5</sup>	Solar/PV <sup>5,8</sup>	Wind <sup>5</sup>	Total			
								Wood <sup>6</sup>	Waste <sup>7</sup>							
1949	1,995	415	569	NA	2,979	0	1,349	6	NA	NA	NA	NA	1,355	NA	5	4,339
1950	2,199	472	651	NA	3,322	0	1,346	5	NA	NA	NA	NA	1,351	NA	6	4,679
1955	3,458	471	1,194	NA	5,123	0	1,322	3	NA	NA	NA	NA	1,325	NA	14	6,461
1960	4,228	553	1,785	NA	6,565	6	1,569	2	NA	(s)	NA	NA	1,571	NA	15	8,158
1965	5,821	722	2,395	NA	8,938	43	2,026	3	NA	2	NA	NA	2,031	NA	(s)	11,012
1970	7,227	2,117	4,054	NA	13,399	239	2,600	1	2	6	NA	NA	2,609	NA	7	16,253
1975	8,786	3,166	3,240	NA	15,191	1,900	3,122	(s)	2	34	NA	NA	3,158	NA	21	20,270
1976	9,720	3,477	3,152	NA	16,349	2,111	2,943	1	2	38	NA	NA	2,983	NA	29	21,473
1977	10,262	3,901	3,284	NA	17,446	2,702	2,301	3	2	37	NA	NA	2,343	NA	59	22,551
1978	10,238	3,987	3,297	NA	17,522	3,024	2,905	2	1	31	NA	NA	2,940	NA	67	23,553
1979	11,260	3,283	3,613	NA	18,156	2,776	2,897	3	2	40	NA	NA	2,942	NA	69	23,943
1980	12,123	2,634	3,810	NA	18,567	2,739	2,867	3	2	53	NA	NA	2,925	NA	71	24,302
1981	12,583	2,202	3,768	NA	18,553	3,008	2,725	3	1	59	NA	NA	2,788	NA	113	24,462
1982	12,582	1,568	3,342	NA	17,491	3,131	3,233	2	1	51	NA	NA	3,286	NA	100	24,009
1983	13,213	1,544	2,998	NA	17,754	3,203	3,494	2	2	64	NA	(s)	3,562	NA	121	24,639
1984	14,019	1,286	3,220	NA	18,526	3,553	3,353	5	4	81	(s)	(s)	3,443	NA	135	25,657
1985	14,542	1,090	3,160	NA	18,792	4,076	2,937	8	7	97	(s)	(s)	3,049	NA	140	26,057
1986	14,444	1,452	2,691	NA	18,586	4,380	3,038	5	7	108	(s)	(s)	3,158	NA	122	26,247
1987	15,173	1,257	2,935	NA	19,365	4,754	2,602	8	7	112	(s)	(s)	2,729	NA	158	27,007
1988	15,850	1,563	2,709	NA	20,123	5,587	2,302	10	8	106	(s)	(s)	2,425	NA	108	28,244
1989	<sup>11</sup> 16,121	<sup>11</sup> 1,697	<sup>11</sup> 3,107	7	<sup>11</sup> 20,932	<sup>11</sup> 5,602	<sup>11</sup> 2,808	<sup>11</sup> 75	<sup>11</sup> 126	<sup>11</sup> 152	<sup>11</sup> 13	<sup>11</sup> 22	<sup>11</sup> 3,187	2	37	29,761
1990	16,235	1,281	3,233	6	20,755	6,104	3,014	106	180	161	4	29	3,493	(s)	8	30,361
1991	16,223	1,199	3,296	6	20,725	6,422	2,985	104	217	167	5	31	3,509	4	67	30,727
1992	16,431	990	3,407	12	20,840	6,479	2,586	120	252	167	4	30	3,158	3	87	30,568
1993	17,159	1,122	3,426	12	21,719	6,410	2,861	129	255	173	5	31	3,454	3	95	31,681
1994	17,215	1,056	3,851	12	22,134	6,694	2,620	134	269	160	5	36	3,224	2	153	32,207
1995	17,416	743	4,179	18	22,356	7,075	3,149	106	282	138	5	33	3,713	2	134	33,281
1996	18,375	810	3,730	16	22,930	7,087	3,528	117	280	148	5	33	4,112	2	137	34,268
1997	18,855	917	3,981	14	23,768	6,597	3,581	117	292	150	5	34	4,179	1	116	34,660
1998	19,162	1,306	4,520	23	25,011	7,068	3,241	125	287	151	5	31	3,840	2	88	36,008
1999	19,214	1,211	4,742	14	25,181	7,610	3,218	125	290	152	5	46	3,836	1	99	36,728
2000	20,153	1,145	5,120	19	26,438	7,862	2,768	126	294	144	5	57	3,394	1	115	37,811
2001	19,549	1,280	5,290	9	26,128	8,029	2,209	116	205	142	6	70	2,747	109	75	37,089
2002	19,733	955	5,522	25	26,235	8,145	2,650	141	224	147	6	105	3,273	137	72	37,861
2003	20,137	1,199	5,009	30	26,374	7,959	2,781	156	216	148	5	115	3,421	136	22	37,912
2004	20,217	1,202	5,209	27	26,655	8,222	2,656	150	206	148	6	142	3,308	131	39	38,355
2005	20,649	1,227	5,643	24	27,543	8,161	2,670	166	205	147	6	178	3,372	116	85	39,276
2006	20,377	635	6,055	28	27,095	8,215	2,839	163	216	145	5	264	3,632	117	63	39,122
2007	20,723	651	6,681	27	28,083	8,455	2,430	165	221	145	6	341	3,307	117	107	40,068
2008	20,431	463	6,516	23	27,434	8,427	2,494	159	242	146	9	546	3,596	122	112	39,691
2009	18,135	382	6,731	21	25,270	8,356	2,650	160	244	146	9	721	3,931	115	116	37,788
2010	<sup>R</sup> 19,043	<sup>R</sup> 371	<sup>R</sup> 7,242	20	<sup>R</sup> 26,675	<sup>R</sup> 8,434	<sup>R</sup> 2,521	<sup>R</sup> 177	<sup>R</sup> 249	<sup>R</sup> 148	<sup>R</sup> 12	<sup>R</sup> 923	<sup>R</sup> 4,031	<sup>R</sup> 116	<sup>R</sup> 89	<sup>R</sup> 39,345
2011 <sup>P</sup>	17,897	278	7,433	20	25,629	8,259	3,153	160	256	163	18	1,168	4,917	117	127	39,049

<sup>1</sup> Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.  
<sup>2</sup> Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.  
<sup>3</sup> Natural gas, plus a small amount of supplemental gaseous fuels.  
<sup>4</sup> Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.  
<sup>5</sup> Values are converted from kilowatt-hours to Btu using the approximate heat rates in Table A6.  
<sup>6</sup> Wood and wood-derived fuels.  
<sup>7</sup> Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).  
<sup>8</sup> Solar thermal and photovoltaic (PV) energy.  
<sup>9</sup> Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).  
<sup>10</sup> Net imports equal imports minus exports. See Note 3, "Electricity Imports and Exports," at end of section.  
<sup>11</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.  
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.  
• 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.  
• See Table 8.4c for commercial and industrial CHP and electricity-only data. • 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," and 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.  
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: **Electricity Net Imports:** Tables 8.1 and A6. **All Other Data:** • 1949-1988—Tables 8.2b, 8.5b, A1, A4, A5, and A6. • 1989-1997—U.S. Energy Information Administration (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."