

**Table 8.4b Consumption for Electricity Generation by Energy Source: Electric Power Sector, Selected Years, 1949-2007** (Subset of Table 8.4a; Trillion Btu)

Year	Fossil Fuels					Nuclear Electric Power <sup>5</sup>	Renewable Energy							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	1	NA	NA	1,571	NA	15	8,158
1965	5,821	722	2,395	NA	8,938	43	2,026	3	NA	4	NA	NA	2,033	NA	(s)	11,014
1970	7,227	2,117	4,054	NA	13,399	239	2,600	1	2	11	NA	NA	2,615	NA	7	16,259
1971	7,299	2,495	4,099	NA	13,893	413	2,790	1	2	12	NA	NA	2,806	NA	12	17,124
1972	7,811	3,097	4,084	NA	14,992	584	2,829	1	2	31	NA	NA	2,864	NA	26	18,466
1973	8,658	3,515	3,748	NA	15,921	910	2,827	1	2	43	NA	NA	2,873	NA	49	19,753
1974	8,534	3,365	3,519	NA	15,418	1,272	3,143	1	2	53	NA	NA	3,199	NA	43	19,933
1975	8,786	3,166	3,240	NA	15,191	1,900	3,122	(s)	2	70	NA	NA	3,194	NA	21	20,307
1976	9,720	3,477	3,152	NA	16,349	2,111	2,943	1	2	78	NA	NA	3,024	NA	29	21,513
1977	10,262	3,901	3,284	NA	17,446	2,702	2,301	3	2	77	NA	NA	2,383	NA	59	22,591
1978	10,238	3,987	3,297	NA	17,522	3,024	2,905	2	1	64	NA	NA	2,973	NA	67	23,587
1979	11,260	3,283	3,613	NA	18,156	2,776	2,897	3	2	84	NA	NA	2,986	NA	69	23,987
1980	12,123	2,634	3,810	NA	18,567	2,739	2,867	3	2	110	NA	NA	2,982	NA	71	24,359
1981	12,583	2,202	3,768	NA	18,553	3,008	2,725	3	1	123	NA	NA	2,852	NA	113	24,525
1982	12,582	1,568	3,342	NA	17,491	3,131	3,233	2	1	105	NA	NA	3,341	NA	100	24,063
1983	13,213	1,544	2,998	NA	17,754	3,203	3,494	2	2	129	NA	(s)	3,627	NA	121	24,705
1984	14,019	1,286	3,220	NA	18,526	3,553	3,353	5	4	165	(s)	(s)	3,527	NA	135	25,741
1985	14,542	1,090	3,160	NA	18,792	4,076	2,937	8	7	198	(s)	(s)	3,150	NA	140	26,158
1986	14,444	1,452	2,691	NA	18,586	4,380	3,038	5	7	219	(s)	(s)	3,270	NA	122	26,359
1987	15,173	1,257	2,935	NA	19,365	4,754	2,602	8	7	229	(s)	(s)	2,846	NA	158	27,124
1988	15,850	1,563	2,709	NA	20,123	5,587	2,302	10	8	217	(s)	(s)	2,536	NA	108	28,354
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> 308	<sup>11</sup> 3	<sup>11</sup> 22	<sup>11</sup> 3,342	2	37	29,916
1990	16,235	1,281	3,233	6	20,755	6,104	3,014	106	180	326	4	29	3,658	(s)	8	30,526
1991	16,223	1,199	3,296	6	20,725	6,422	2,985	104	217	335	5	31	3,677	4	67	30,895
1992	16,431	990	3,407	12	20,840	6,479	2,586	120	252	338	4	30	3,329	3	87	30,738
1993	17,159	1,122	3,426	12	21,719	6,410	2,861	129	255	351	5	31	3,632	3	95	31,859
1994	17,215	1,056	3,851	12	22,134	6,694	2,620	134	269	325	5	36	3,389	2	153	32,372
1995	17,416	743	4,179	18	22,356	7,075	3,149	106	282	280	5	33	3,855	2	134	33,423
1996	18,375	810	3,730	16	22,930	7,087	3,528	117	280	300	5	33	4,264	2	137	34,420
1997	18,855	917	3,981	14	23,768	6,597	3,581	117	292	309	5	34	4,337	1	116	34,819
1998	19,162	1,306	4,520	23	25,011	7,068	3,241	125	287	311	5	31	4,000	2	88	36,168
1999	19,214	1,211	4,742	14	25,181	7,610	3,218	125	290	312	5	46	3,996	1	99	36,888
2000	20,153	1,145	5,120	19	26,438	7,862	2,768	126	294	296	5	57	3,547	1	115	37,963
2001	19,549	1,280	5,290	9	26,128	8,033	2,209	116	205	289	6	70	2,894	109	75	37,239
2002	19,733	955	5,522	25	26,235	8,143	2,650	141	224	305	6	105	3,430	137	72	38,016
2003	20,137	1,199	5,009	30	26,374	7,959	2,781	156	216	303	5	115	3,576	136	22	38,068
2004	20,277	1,216	5,443	38	26,975	8,222	2,656	157	220	311	6	142	3,493	136	39	38,865
2005	20,705	1,240	5,888	44	27,877	8,160	2,670	176	217	309	6	178	3,555	120	84	39,797
2006	<sup>R</sup> 20,426	<sup>R</sup> 647	<sup>R</sup> 6,265	<sup>R</sup> 43	<sup>R</sup> 27,381	<sup>R</sup> 8,214	<sup>R</sup> 2,839	<sup>R</sup> 172	<sup>R</sup> 228	<sup>R</sup> 306	5	<sup>R</sup> 264	<sup>R</sup> 3,814	<sup>R</sup> 121	<sup>R</sup> 63	<sup>R</sup> 39,593
2007 <sup>P</sup>	20,802	667	6,910	39	28,419	8,415	2,440	172	240	312	6	319	3,489	124	107	40,553

<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 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.  
<sup>R</sup>=Revised. <sup>P</sup>=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 (such as "Conventional Hydroelectric Power," "Coal," "Natural Gas," and so on). • 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: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/elect.html>.  
 • For related information, see <http://www.eia.doe.gov/fuelelectric.html>.  
 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—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 forward—EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."