Table 5.5 – Electric-Power Sector Energy Consumption

(Trillion Btu)

	1980	1990	2000	2001	2002	2003	2004 [5]	2010	2015	2020	2025	2030
Coal	12,123	16,235	20,185	19,494	19,733	20,137	20,227	22,919	23,352	25,018	27,542	30,742
Natural Gas	3,810	3,224	5,120	5,271	5,522	5,009	5,351	5,647	7,320	7,645	7,228	6,541
Petroleum	2,634	1,281	1,145	1,270	955	1,199	1,196	971	960	972	998	1,068
Other Gas [1]	NA	6	19	9	25	30	30	NA	NA	NA	NA	NA
Total Fossil Fuels	18,567	20,746	26,470	26,044	26,235	26,374	26,804	29,537	31,633	33,635	35,768	38,351
Nuclear Electric Power	2,739	6,104	7,862	8,033	8,143	7,959	8,232	8,442	8,659	9,089	9,089	9,088
Hydroelectric Pumped Storage [2]	---	-36	-57	-90	-88	-88	-- [6]	NA	NA	NA	NA	NA
Conventional Hydroelectric	2,867	3,014	2,768	2,209	2,650	2,781	2,673	2,983	2,985	2,994	2,994	2,994
Wood	3	106	126	116	141	156	158	518	522	566	584	633
Waste	2	180	294	314	353	337	334	335	349	360	369	372
Geothermal	110	326	296	289	305	303	302	393	567	918	1,333	1,538
Solar [3]	NA	4	5	6	6	5	6	10	13	15	18	21
Wind	NA	29	57	70	105	115	143	524	577	616	654	665
Total Renewable Energy	2,982	3,658	3,547	3,003	3,560	3,697	3,616	4,763	5,013	5,470	5,953	6,223
Electricity Imports	71	8	115	75	78	22	39	74	79	49	50	48
Other [4]	NA	0.08	1.28	0.00	6.96	15.57	0.09	NA	NA	NA	NA	NA
Total Primary Consumption	24,359	30,517	37,995	37,154	38,022	38,068	38,692	42,817	45,383	48,244	50,860	53,710

Sources: EIA, *Annual Energy Review 2004*, DOE/EIA-0384(2004) (Washington, D.C., August 2005), Table 8.4b; and EIA, Annual Energy Outlook 2006, DOE/EIA-0383(2006) (Washington, D.C., February 2006), Tables A2 and A17.

Notes:

Data are for fuels consumed to produce electricity at both electricity-only and at combined-heat-and-power plants. Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

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

[2] Pumped storage facility production minus energy used for pumping. 1980 data included in Conventional Hydroelectric.

[3] Solar-thermal and photovoltaic energy.

[4] Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

[5] All 2004 figures are preliminary

[6] Starting with AER 2004 (August 2005), energy consumed by hydroelectric pumped storage plants is no longer included. According to EIA, 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 the tables (such as conventional hydroelectric power, coal, and natural gas). The data book has kept historical record of pumped storage hydroelectric pumped storage plants, because the information is useful to some analysts.

NA = not available