Table 5.1. Emissions from Energy Consumption at Conventional Power Plants and Combined-Heat-and-Power Plants, 1996 through 2007

(Thousand Metric Tons)

Emission	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
Carbon Dioxide (CO_2).....	2,516,580	2,459,800	2,513,609	2,456,934	2,415,680	2,395,048	2,389,745	2,441,722	2,338,660	2,324,139	2,232,709	2,161,258
Sulfur Dioxide (SO_2)	9,042	9,524	10,340	10,309	10,646	10,881	11,174	11,963[R]	12,843[R]	13,464[R]	13,480[R]	12,991[R]
Nitrogen Oxides (NO_x)	3,650	3,799	3,961	4,143	4,532	5,194	5,290	5,638[R]	5,955[R]	6,459[R]	6,500[R]	6,474[R]

R = Revised.

Notes: • See Appendix A, Technical Notes, for a description of the sources and methodology used to develop the emissions estimates. • CO2 emissions for 1995 - 2000 have been revised to reflect the emission factors shown in Table A3.

Source: Calculations made by the Electric Power Division, Einergy Information Administration.

Table 5.2. Number and Capacity of Fossil-Fueled Steam-Electric Generators with Environmental Equipment, 1996 through 2007

Year	Flue Gas Desulfurization (Scrubbers)		Particulate Collectors		Cooling Towers		Total[1]	
	Number of Generators	Capacity[2] (megawatts)	Number of Generators	Capacity[2] (megawatts)	Number of Generators	Capacity[2] (megawatts)	Number of Generators	Capacity[2] (megawatts)
1996.....	182	85,842	1,134	352,154	477	166,749	1,299	377,144
1997.....	183	86,605	1,133	352,068	480	166,886	1,301	377,195
1998.....	186	87,783	1,130	351,790	474	166,896	1,294	377,117
1999.....	192	89,666	1,148	353,480	505	175,520	1,343	387,192
2000.....	192	89,675	1,141	352,727	505	175,520	1,336	386,438
2001.....	236	97,988	1,273	360,762	616	189,396	1,485	390,821
2002.....	243	98,673	1,256	359,338	670	200,670	1,522	401,341
2003.....	246	99,567	1,244	358,009	695	210,928	1,546	409,954
2004.....	248	101,492	1,217	355,782	732	214,989	1,536	409,769
2005.....	248	101,648	1,216	355,599	730	217,646	1,535	411,840
2006.....	NA	NA	NA	NA	NA	NA	NA	NA
2007.....	NA	NA	NA	NA	NA	NA	NA	NA

[1] Components are not additive since some generators are included in more than one category.

[2] Nameplate capacity

NA = Not available. Form EIA-767 data collection was suspended in the data year 2006.

Notes: • These data are for plants with a fossil-fueled steam-electric capacity of 100 megawatts or more . • Data for Independent Power Producer and Combined Heat and Power plants are included beginning with 2001 data. • Beginning in 2001, data for plants with combustible renewable steam-electric capacity of 10 megawatts or more were also included. • Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."

Table 5.3. Average Flue Gas Desulfurization Costs, 1996 through 2007

Year	Average Overhead & Maintenance Costs (mills per kilowatthour)[1]	Average Installed Capital Costs (dollars per kilowatt)
1996.....	1.07	128.00
1997.....	1.09	129.00
1998.....	1.12	126.00
1999.....	1.13	125.00
2000.....	.96	124.00
2001.....	1.27	130.80
2002.....	1.11	124.18
2003.....	1.23	123.75
2004.....	1.38	144.64
2005.....	1.23	141.34
2006.....	NA	NA
2007.....	NA	NA

[1] A mill is one tenth of one cent.

NA = Not available. Form EIA-767 data collection was suspended in the data year 2006.

Notes: • These data are for plants with a fossil-fueled steam-electric capacity of 100 megawatts or more. • Beginning in 2001, data for plants with combustible renewable steam-electric capacity of 10 megawatts or more were also included. • Data for Independent Power Producer and Combined Heat and Power plants are included beginning with 2001 data. • Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-767, "Steam-Electric Plant Operation and Design Report."