

Table 11.1 – Emissions from Electricity Generators

(Thousand short tons of gas)

	<u>1990</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Coal Fired											
Carbon Dioxide	1,674,521	2,090,644	2,034,867	2,043,795	2,086,014	2,087,667	2,367,580	2,412,270	2,583,310	2,843,355	3,170,875
Sulfur Dioxide	15,220	10,623	10,004	9,732	NA	NA	NA	NA	NA	NA	NA
Nitrogen Oxide	5,642	4,563	4,208	4,094	NA	NA	NA	NA	NA	NA	NA
Methane	11	13	13	13	13	13	NA	NA	NA	NA	NA
Nitrous Oxide	25	31	31	31	31	32	NA	NA	NA	NA	NA
Petroleum Fired											
Carbon Dioxide	111,223	100,200	111,885	85,870	107,034	107,365	82,091	81,142	82,153	84,251	90,185
Sulfur Dioxide	639	482	529	343	NA	NA	NA	NA	NA	NA	NA
Nitrogen Oxide	221	166	170	130	NA	NA	NA	NA	NA	NA	NA
Methane	1	1	1	1	1	1	NA	NA	NA	NA	NA
Nitrous Oxide	1	1	1	1	1	1	NA	NA	NA	NA	NA
Gas Fired											
Carbon Dioxide	194,999	310,190	319,119	336,866	306,002	326,174	327,857	425,185	444,001	419,658	379,553
Sulfur Dioxide	1	232	262	8	NA	NA	NA	NA	NA	NA	NA
Nitrogen Oxide	565	422	359	270	NA	NA	NA	NA	NA	NA	NA
Methane	0	1	1	1	1	1	NA	NA	NA	NA	NA
Nitrous Oxide	0	1	1	1	1	1	NA	NA	NA	NA	NA
Other ¹											
Carbon Dioxide	NA	NA	NA	NA	NA		14,290	15,024	15,806	16,535	16,834
Sulfur Dioxide 2	49	59	55	210	NA	NA	NA	NA	NA	NA	NA
Nitrogen Oxide 2	235	180	180	206	NA	NA	NA	NA	NA	NA	NA
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrous Oxide 3	1	1	0	1	1	1	NA	NA	NA	NA	NA
Total											
Carbon Dioxide	1,987,578	2,512,498	2,478,216	2,480,862	2,511,947	2,533,773	2,791,819	2,933,621	3,125,269	3,363,800	3,657,447
Sulfur Dioxide	15,909	11,396	10,850	10,293	10,596	10,888	6,515	5,101	4,453	4,189	4,103

Nitrogen Oxide	6,663	5,330	4,917	4,699	4,119	3,742	2,585	2,312	2,345	2,379	2,390
Mercury	NA	NA	NA	50,081	50,695	53,306	41,595	26,503	20,653	18,283	16,872
Methane	12	14	14	14	14	14	NA	NA	NA	NA	NA
Nitrous Oxide	26	33	33	33	33	33	NA	NA	NA	NA	NA
Sulfur Hexafluoride ⁴	2	1	1	1	1	1	NA	NA	NA	NA	NA

Sources: EIA, *Annual Energy Outlook 2006*, DOE/EIA-0383 (2005) (Washington, D.C., February 2006), Tables A8 and A18; EIA, *Emissions of Greenhouse Gases in the United States 2004*, DOE/EIA-0573(2003) (Washington, D.C., November 2005) Tables 10, 17, 25, 29; and EPA, *National Emission Inventory - Air Pollutant Emission Trends*, "Average Annual Emissions, All Criteria Pollutants," August 2004, <http://www.epa.gov/ttn/chief/trends/index.html>.

Notes:

Emissions from electric-power sector only.

¹ Emissions total less than 500 tons.

² Emissions from plants fired by other fuels; includes internal-combustion generators.

³ Emissions from wood-burning plants.

⁴ Sulfur hexafluoride (SF6) is a colorless, odorless, nontoxic, and nonflammable gas used as an insulator in electric T&D equipment. SF6 has a 100-year global warming potential that is 22,200 times that of carbon dioxide and has an atmospheric lifetime of 3,200 years.

NA = not available