

**Table 12.7b Emissions From Energy Consumption for Electricity Generation and Useful Thermal Output:
Electric Power Sector, 1989-2007** (Subset of Table 12.7a; Thousand Metric Tons of Gas)

Year	Carbon Dioxide ¹						Sulfur Dioxide					Nitrogen Oxides				
	Coal ²	Petroleum ³	Natural Gas ⁴	MSW ⁵	Geo-thermal ⁶	Total	Coal ²	Petroleum ³	Natural Gas ⁴	Other ⁷	Total	Coal ²	Petroleum ³	Natural Gas ⁴	Other ⁷	Total
1989	1,501,138	132,213	168,805	4,319	360	1,806,835	R13,815	R810	1	R7	R14,633	R7,055	R246	R390	R25	R7,717
1990	1,514,803	100,783	176,345	5,734	380	1,798,046	R13,576	R628	1	R13	R14,218	R6,878	R175	R390	R36	R7,480
1991	1,515,187	94,201	179,639	7,131	394	1,796,551	R13,590	R621	1	R15	R14,227	R6,886	R165	R384	R42	R7,476
1992	1,537,071	78,366	186,792	8,387	396	1,811,012	R13,375	R559	1	R12	R13,946	R6,749	R128	R359	R46	R7,282
1993	1,605,411	89,512	187,350	8,490	411	1,891,173	R13,133	R735	1	R13	R13,882	R6,996	R143	R357	R49	R7,544
1994	1,613,316	84,167	210,098	9,217	380	1,917,178	R12,695	R665	1	R11	R13,373	R6,777	R128	R390	R47	R7,343
1995	1,635,373	60,453	227,531	9,908	326	1,933,591	R10,573	R581	1	R34	R11,189	R4,974	R282	R402	R95	R5,754
1996	1,725,336	65,456	204,224	9,827	356	2,005,198	R11,129	R617	R1	R32	R11,779	R5,144	R301	R326	R96	R5,866
1997	1,771,312	74,368	219,073	10,227	370	2,075,350	R11,515	R653	R1	R36	R12,205	R5,157	R269	R370	R98	R5,894
1998	1,801,302	104,582	248,587	10,062	372	2,164,904	R11,372	R911	R1	R37	R12,321	R4,965	R337	R431	R103	R5,836
1999	1,807,766	96,956	261,143	10,165	377	2,176,407	R10,843	R836	R1	R42	R11,722	R4,535	R332	R381	R109	R5,357
2000	1,897,723	91,338	281,618	10,043	358	2,281,080	R10,140	R746	R1	R45	R10,932	R4,225	R367	R338	R111	R5,040
2001	1,837,763	101,874	289,646	10,787	349	2,240,419	R9,281	R754	2	5	R10,041	R3,878	R253	R425	R96	R4,652
2002	1,853,683	78,040	305,917	12,622	369	2,250,631	R9,106	R550	2	R16	R9,672	R3,813	R187	R425	R104	R4,528
2003	1,891,549	97,236	277,903	11,329	367	2,278,385	R9,255	R579	2	R13	R9,849	R3,496	R207	R282	R98	R4,082
2004	1,903,702	99,246	296,216	11,053	377	2,310,594	R8,991	R493	2	R9	R9,495	R3,183	R193	R241	R101	R3,717
2005	1,944,227	101,521	318,942	11,135	374	2,376,199	R9,071	R461	2	R10	R9,543	R3,051	R189	R243	R103	R3,585
2006	1,918,413	54,820	337,859	11,414	371	2,322,876	R8,416	R264	2	R8	R8,690	R2,902	R135	R230	R107	R3,374
2007	1,950,722	55,001	371,402	11,180	372	2,388,677	8,002	265	3	9	8,279	2,781	130	236	112	3,259

¹ Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

² Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.

³ Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

⁴ Natural gas, plus a small amount of supplemental gaseous fuels.

⁵ Municipal solid waste (only the estimated plastics portion of municipal solid waste is included) and tire-derived fuel.

⁶ Carbon dioxide in geothermal steam.

⁷ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels; wood and wood-derived fuels; municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass; and chemicals, hydrogen, pitch, sulfur, and tar coal.

R=Revised.

Notes: • Data are for emissions from energy consumption for electricity generation and useful thermal output. • 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 12.7c for commercial and industrial CHP and electricity-only data. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8. • See "Useful Thermal Output" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/fuelelectric.html>.

Sources: **Carbon Dioxide:** • 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." **Sulfur Dioxide** and **Nitrogen Oxides:** EIA, Form EIA-767, "Steam-Electric Plant Operation and Design Report." Data were adjusted by the Environmental Protection Agency's Continuous Emission Monitoring System.