

**Table 11.5a Emissions From Energy Consumption for Electricity Generation and Useful Thermal Output:
Total (All Sectors), 1989-2010** (Sum of Tables 11.5b and 11.5c; Thousand Metric Tons of Gas)

Year	Carbon Dioxide ¹						Sulfur Dioxide					Nitrogen Oxides				
	Coal ²	Natural Gas ³	Petroleum ⁴	Geo-thermal ⁵	Non-Biomass Waste ⁶	Total	Coal ²	Natural Gas ³	Petroleum ⁴	Other ⁷	Total	Coal ²	Natural Gas ³	Petroleum ⁴	Other ⁷	Total
1989	1,573,566	218,384	145,399	363	5,590	1,943,302	14,469	1	984	39	15,493	7,281	495	269	93	8,136
1990	1,592,395	233,852	119,580	384	7,488	1,953,699	14,281	1	937	243	15,462	7,119	513	208	122	7,961
1991	1,592,186	238,084	111,351	398	8,447	1,950,466	14,240	1	856	246	15,342	7,109	498	193	113	7,913
1992	1,617,034	248,149	96,638	400	10,053	1,972,275	14,060	1	704	264	15,030	6,975	477	158	119	7,728
1993	1,687,623	250,411	108,164	415	10,439	2,057,053	13,843	1	851	271	14,966	7,225	475	173	124	7,997
1994	1,697,416	276,308	102,844	384	11,186	2,088,138	13,398	1	794	279	14,472	7,005	513	159	124	7,801
1995	1,720,062	298,601	77,032	329	11,982	2,108,006	11,188	2	826	298	12,314	5,136	653	332	234	6,355
1996	1,812,022	277,856	84,024	360	12,718	2,186,980	11,811	1	876	304	12,991	5,307	577	352	238	6,474
1997	1,858,944	293,139	93,497	374	13,368	2,259,322	12,211	1	965	303	13,480	5,322	619	326	233	6,500
1998	1,887,335	327,456	123,542	375	12,891	2,351,600	12,012	1	1,162	289	13,464	5,123	700	395	241	6,459
1999	1,894,211	343,090	115,677	381	12,943	2,366,302	11,453	1	1,101	288	12,843	4,687	632	391	245	5,955
2000	1,986,100	363,526	108,407	362	12,440	2,470,834	R ^{10,669}	1	933	300	R ^{11,904}	4,370	614	404	250	5,638
2001	1,920,901	367,146	117,196	353	13,010	2,418,607	9,905	2	1,002	265	11,174	4,096	631	294	268	5,290
2002	1,938,613	378,950	91,110	372	14,918	2,423,963	9,786	2	773	321	10,881	4,057	625	225	287	5,194
2003	1,973,597	345,119	112,065	371	13,943	2,445,094	9,688	2	717	239	10,646	3,607	453	240	232	4,532
2004	1,989,580	367,112	115,726	381	14,183	2,486,982	9,437	2	633	237	10,309	3,286	416	225	217	4,143
2005	2,028,614	383,461	117,086	377	14,299	2,543,838	9,499	2	587	251	10,340	3,135	383	221	222	3,961
2006	2,001,085	404,278	67,988	374	15,193	2,488,918	8,867	2	427	227	9,524	2,996	399	164	240	3,799
2007	2,029,804	434,536	67,769	376	14,548	2,547,032	8,389	3	422	227	9,042	2,870	382	157	242	3,650
2008	2,001,806	419,599	47,855	381	14,370	2,484,012	7,351	3	250	225	7,830	2,680	351	75	225	3,330
2009	1,781,278	432,206	41,474	386	14,163	2,269,508	5,535	2	210	223	5,970	1,769	336	66	225	2,395
2010	1,873,813	461,723	38,793	391	13,875	2,388,596	4,961	3	217	219	5,400	1,843	349	63	236	2,491

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

⁴ Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

⁵ Carbon dioxide in geothermal steam.

⁶ Municipal solid waste from non-biogenic sources, and tire-derived fuel.

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. • 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.gov/electricity/>.

Sources: Tables 11.5b and 11.5c.