

Table 362. Emissions of Greenhouse Gases by Type and Source: 1990 to 2005

[In millions of metric tons (6,112.8 represents 6,112,800,000). Metric ton = 2,200 lbs. Emission estimates were mandated by Congress through Section 1605(a) of the Energy Policy Act of 1992 (Title XVI) Gases that contain carbon can be measured either in terms of the full molecular weight of the gas or just in terms of their carbon dioxide equivalent. Both measures are utilized below]

Type and source	1990	2000	2001	2002	2003	2004	2005 ¹
CARBON DIOXIDE EQUIVALENT							
Total emissions	6,112.8	6,945.4	6,831.0	6,886.3	6,946.9	7,104.6	7,147.2
Carbon dioxide, total	4,990.6	5,853.4	5,767.0	5,814.7	5,875.3	5,988.7	6,008.6
Energy use by sector							
Residential	953.7	1,171.9	1,161.1	1,186.4	1,214.0	1,213.9	1,253.8
Commercial	780.7	1,006.4	1,014.2	1,009.4	1,020.3	1,034.1	1,050.6
Industrial	1,683.6	1,778.0	1,702.8	1,684.8	1,688.0	1,736.0	1,682.3
Transportation	1,566.8	1,854.0	1,831.7	1,871.7	1,878.2	1,939.2	1,958.6
Energy adjustments	-82.6	-59.1	-44.1	-37.0	-27.5	-40.2	-42.1
Adjusted energy subtotal	4,902.3	5,751.1	5,665.7	5,715.2	5,773.0	5,883.0	5,903.2
Other sources							
CO ₂ in natural gas	14.0	18.2	18.6	17.9	18.1	17.8	17.3
Cement production	33.3	41.3	41.5	43.0	43.2	45.7	45.9
Gas flaring	9.1	5.5	5.9	6.0	5.9	5.9	5.9
Other industrial	26.8	29.4	27.4	26.4	27.6	28.5	28.1
Waste combustion	5.1	7.9	8.0	6.2	7.5	7.7	8.3
Total other sources	88.3	102.3	101.3	99.5	102.3	105.7	105.4
Methane	701.7	611.2	597.7	600.2	602.2	606.5	611.9
Nitrous oxide	333.5	342.8	337.9	333.6	332.9	359.9	366.6
HFCs, PFCs, and SF ₆ ²	87.1	138.0	128.5	137.8	136.6	149.5	160.2
GAS							
Carbon dioxide	4,990.6	5,853.4	5,767.0	5,814.7	5,875.3	5,988.7	6,008.6
Methane, total	30.5	26.6	26.0	26.1	26.2	26.4	26.6
Nitrous oxide, total	1.1	1.2	1.1	1.1	1.1	1.2	1.2
HFCs, PFCs, and SF ₆ ²	(³)	(³)	(³)	(³)	(³)	(³)	(³)

¹ 2005 preliminary data. ² Hyrdofluorocarbons, perfluorocarbons, and sulfur hexafluoride. ³ Mixture of gases. These gases cannot be summed in native units.