

Table 919. Carbon Dioxide Emissions by Sector and Source—1980 to 2005, and Projections, 2010 to 2020

[In million metric tons (4,728.5 represents 4,728,500,000), except as noted]

Sector	1980	1990	1995	2000	2004	2005 ¹	2010	2015	2020
Total ²	4,728.5	4,984.8	5,265.8	5,810.2	5,923.2	5,945.3	6,213.9	6,588.9	6,944.5
Petroleum ³	2,039.0	2,068.6	2,132.0	2,352.1	2,499.9	2,513.6	2,559.6	2,724.6	2,872.7
Natural gas	865.4	850.4	955.2	956.2	902.1	859.2	854.0	893.8	947.8
Coal	298.3	262.3	236.2	216.6	199.0	193.3	196.7	203.7	209.5
Electricity ⁴	1,529.0	1,803.1	1,936.8	2,279.3	2,309.4	2,375.0	2,505.1	2,676.6	2,831.6
Residential	909.0	953.7	1,030.7	1,171.9	1,213.9	1,253.8	1,320.0	1,391.8	1,456.4
Petroleum	123.1	98.0	95.9	107.2	105.9	105.3	105.3	106.8	104.8
Natural gas	256.3	238.6	263.1	269.2	264.8	261.7	175.0	192.1	204.0
Coal	5.7	2.9	1.6	1.0	1.3	0.9	1.0	1.0	1.0
Electricity ⁴	523.9	614.2	670.0	794.4	841.9	885.7	940.0	1,001.8	1,063.8
Commercial	652.5	780.7	841.1	1,006.4	1,034.1	1,050.6	1,124.4	1,233.2	1,329.9
Petroleum	95.6	69.4	53.0	54.1	54.3	55.4	54.1	57.1	57.3
Natural gas	140.7	142.4	164.5	171.8	170.3	166.3	175.0	192.1	204.0
Coal	8.3	11.6	11.0	8.1	9.5	7.8	9.2	9.2	9.2
Electricity ⁴	407.9	557.2	612.6	772.4	799.9	821.1	886.1	974.7	1,059.4
Industrial ⁵	1,780.8	1,683.6	1,728.6	1,778.0	1,736.0	1,682.3	1,732.1	1,775.2	1,817.3
Petroleum	470.7	373.5	359.1	375.7	437.3	431.2	406.0	418.9	422.6
Natural gas ³	434.1	433.5	489.4	479.7	434.9	399.7	466.0	468.5	493.1
Coal	284.3	247.7	223.6	207.5	188.1	184.5	186.5	193.5	199.3
Electricity ⁴	594.9	628.5	650.9	708.9	662.9	662.8	673.7	694.3	702.2
Transportation ⁶	1,386.2	1,566.8	1,665.3	1,854.0	1,939.2	1,958.6	2,037.4	2,188.7	2,340.9
Petroleum ⁷	1,349.6	1,527.7	1,624.0	1,815.0	1,902.5	1,921.7	1,994.2	2,141.8	2,288.0
Natural gas	34.3	35.9	38.2	35.5	32.1	31.5	38.0	41.1	46.7
Electricity ⁴	2.3	3.2	3.2	3.6	4.6	5.4	5.3	5.8	6.2
Electric power sector ⁸	1,529.0	1,803.1	1,936.8	2,279.3	2,309.4	2,375.0	2,505.1	2,676.6	2,831.7
Petroleum	202.8	100.9	60.1	90.9	98.0	100.3	69.2	74.6	74.1
Natural gas	200.8	176.9	229.4	281.4	296.2	318.9	345.7	385.2	389.9
Coal	1,125.3	1,519.1	1,636.8	1,896.6	1,903.7	1,944.2	2,078.0	2,203.0	2,354.0

¹ Preliminary. ² Includes other items not shown separately. ³ Includes lease and plant fuel. ⁴ Emissions from the electric power sector are distributed to the end-use sectors. ⁵ Includes emissions from geothermal power and nonbiogenic emissions from municipal solid waste. ⁶ Fuel consumption includes energy for combined-heat-and-power plants (CHP), except those plants whose primary business is to sell electricity, or electricity and heat, to the public. ⁷ This includes carbon dioxide from international bunker fuels, both civilian and military, which are excluded from the accounting of carbon dioxide emissions under the United Nations convention. ⁸ Includes pipeline fuel natural gas and compressed natural gas used as vehicle fuel.

Source: U.S. Energy Information Administration, 1980, *State Energy Data Report*; 1990 to 2005, *Emissions of Greenhouse Gases in the U.S. 2005*; and projections, *Annual Energy Outlook 2007*. See also, <<http://www.eia.doe.gov>>.