

**Table 913. Carbon Dioxide Emissions by Sector and Source—1980 to 2006, and Projections, 2010 to 2020**

[In million metric tons (4,769.6 represents 4,769,600,000), except as noted]

Sector	1980	1990	1995	2000	2005	2006 <sup>1</sup>	Projections		
							2010	2015	2020
<b>Total</b> <sup>2</sup>	<b>4,769.6</b>	<b>5,011.6</b>	<b>5,300.6</b>	<b>5,847.2</b>	<b>5,981.6</b>	<b>5,890.3</b>	<b>6,010.6</b>	<b>6,226.2</b>	<b>6,384.1</b>
Petroleum <sup>3</sup>	2,058.2	2,070.2	2,138.8	2,360.1	2,513.5	2,526.7	2,512.1	2,592.6	2,605.2
Natural gas <sup>4</sup>	869.7	855.8	962.4	957.0	872.3	823.6	890.4	921.2	939.4
Coal	301.4	265.0	238.7	223.3	194.7	190.6	195.3	193.9	212.2
Electricity <sup>5</sup>	1,543.4	1,820.2	1,954.9	2,300.6	2,397.1	2,343.8	2,412.8	2,518.6	2,627.3
<b>Residential</b>	<b>916.5</b>	<b>961.6</b>	<b>1,039.2</b>	<b>1,181.5</b>	<b>1,253.0</b>	<b>1,204.2</b>	<b>1,258.6</b>	<b>1,280.4</b>	<b>1,323.7</b>
Petroleum	124.3	98.9	96.7	108.1	100.5	100.3	91.1	92.3	92.1
Natural gas	257.6	239.8	264.4	270.6	261.6	237.3	262.6	274.0	281.4
Coal	5.8	2.9	1.7	1.0	0.9	0.6	0.8	0.8	0.8
Electricity <sup>5</sup>	528.8	620.0	676.3	801.8	890.0	866.0	904.1	913.2	949.4
<b>Commercial</b>	<b>658.1</b>	<b>787.5</b>	<b>848.4</b>	<b>1,015.1</b>	<b>1,065.4</b>	<b>1,045.2</b>	<b>1,079.2</b>	<b>1,175.5</b>	<b>1,265.3</b>
Petroleum	96.5	70.1	53.5	54.6	52.5	52.6	45.7	48.3	49.1
Natural gas	141.4	143.1	165.4	172.7	168.8	154.6	161.5	174.8	184.0
Coal	8.3	11.8	11.1	8.2	9.2	6.2	7.9	7.9	7.9
Electricity <sup>5</sup>	411.8	562.5	618.4	779.6	834.9	831.9	864.1	944.5	1,024.3
<b>Industrial</b> <sup>6</sup>	<b>1,795.0</b>	<b>1,679.9</b>	<b>1,730.9</b>	<b>1,778.1</b>	<b>1,677.1</b>	<b>1,650.8</b>	<b>1,692.7</b>	<b>1,717.9</b>	<b>1,718.1</b>
Petroleum	474.2	358.0	348.2	364.1	412.4	421.4	435.4	442.0	432.2
Natural gas <sup>4</sup>	436.2	436.7	494.0	478.1	408.7	399.2	430.4	434.5	433.6
Coal	287.3	250.3	225.9	214.1	184.6	183.8	186.5	185.1	203.5
Electricity <sup>5</sup>	600.5	634.5	657.0	715.6	667.3	640.7	640.4	656.3	648.8
<b>Transportation</b> <sup>7</sup>	<b>1,400.0</b>	<b>1,582.6</b>	<b>1,682.2</b>	<b>1,872.6</b>	<b>1,986.2</b>	<b>1,990.1</b>	<b>1,980.0</b>	<b>2,052.4</b>	<b>2,077.0</b>
Petroleum	1,363.2	1,543.2	1,640.4	1,833.3	1,948.1	1,952.4	1,939.9	2,010.0	2,031.8
Natural gas	34.5	36.2	38.6	35.6	33.2	32.5	35.9	37.9	40.4
Electricity <sup>5</sup>	2.3	3.2	3.2	3.6	4.9	5.2	4.3	4.5	4.8
<b>Electric power sector</b> <sup>8</sup>	<b>1,543.4</b>	<b>1,820.2</b>	<b>1,955.0</b>	<b>2,300.7</b>	<b>2,397.1</b>	<b>2,343.9</b>	<b>2,412.8</b>	<b>2,518.6</b>	<b>2,627.3</b>
Petroleum	204.9	101.9	60.7	91.8	101.3	54.5	42.8	43.7	45.1
Natural gas	201.8	177.7	230.6	282.8	320.5	339.5	365.4	357.9	323.0
Coal	1,136.6	1,534.2	1,653.2	1,915.5	1,963.7	1,937.9	1,992.6	2,104.9	2,247.0

<sup>1</sup> Preliminary. <sup>2</sup> Includes other items not shown separately. <sup>3</sup> 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. <sup>4</sup> Includes lease and plant fuel. <sup>5</sup> Emissions from the electric power sector are distributed to the end-use sectors. <sup>6</sup> 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. <sup>7</sup> Includes pipeline fuel natural gas and compressed natural gas used as vehicle fuel. <sup>8</sup> Includes electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Beginning 2005, also includes emissions from municipal solid waste and geothermal electricity generation. Emissions from the electric power sector are apportioned to each end-use sector according to their share of electricity sales.

Source: U.S. Energy Information Administration, 1980, "State Energy Data Report"; 1990 to 2000, "Emissions of Greenhouse Gases in the U.S. 2006"; and 2005 and after, *Annual Energy Outlook 2008*. See also <<http://www.eia.doe.gov>>.