

1.4.1 Carbon Dioxide Emissions for U.S. Buildings, by Year (Million Metric Tons) (1)

	Buildings				U.S.		Buildings % of Total U.S.	Buildings % of Total Global
	Site	Electricity	Total	Growth Rate 2006-Year	Total	Growth Rate 2006-Year		
1980	630	933	1562	-	4723	-	33%	8.5%
1981	586	945	1531	-	4601	-	33%	8.5%
1982	585	938	1523	-	4357	-	35%	8.5%
1983	566	959	1524	-	4332	-	35%	8.4%
1984	584	990	1575	-	4561	-	35%	8.3%
1985	569	1026	1595	-	4559	-	35%	8.2%
1986	558	1033	1592	-	4564	-	35%	8.0%
1987	566	1077	1642	-	4714	-	35%	8.1%
1988	597	1134	1731	-	4939	-	35%	8.2%
1989	601	1149	1749	-	4983	-	35%	8.2%
1990	567	1183	1749	-	5012	-	35%	8.2%
1991	574	1191	1766	-	4965	-	36%	8.3%
1992	585	1183	1769	-	5063	-	35%	8.3%
1993	599	1256	1855	-	5168	-	36%	8.6%
1994	593	1270	1863	-	5246	-	36%	8.6%
1995	593	1295	1888	-	5301	-	36%	8.6%
1996	630	1348	1977	-	5488	-	36%	8.8%
1997	612	1401	2013	-	5569	-	36%	8.8%
1998	562	1478	2040	-	5606	-	36%	8.9%
1999	584	1491	2076	-	5669	-	37%	8.9%
2000	615	1581	2197	-	5847	-	38%	9.2%
2001	595	1599	2194	-	5749	-	38%	9.1%
2002	596	1619	2214	-	5813	-	38%	9.0%
2003	623	1628	2251	-	5866	-	38%	8.7%
2004	606	1657	2263	-	5957	-	38%	8.3%
2005	593	1725	2318	-	5982	-	39%	8.2%
2006	538	1698	2236	-	5890	-	38%	7.9%
2007	575	1742	2317	3.6%	5977	1.5%	39%	8.0%
2008	586	1739	2325	2.0%	5983	0.8%	39%	7.9%
2009	576	1760	2337	1.5%	5978	0.5%	39%	7.7%
2010	570	1768	2338	1.1%	6011	0.5%	39%	7.6%
2011	576	1793	2369	1.2%	6087	0.7%	39%	7.5%
2012	583	1817	2400	1.2%	6144	0.7%	39%	7.5%
2013	588	1816	2404	1.0%	6154	0.6%	39%	7.3%
2014	593	1837	2430	1.0%	6187	0.6%	39%	7.3%
2015	598	1858	2456	1.0%	6226	0.6%	39%	7.2%
2016	604	1881	2485	1.1%	6272	0.6%	40%	7.2%
2017	607	1905	2512	1.1%	6308	0.6%	40%	7.2%
2018	609	1933	2542	1.1%	6350	0.6%	40%	7.1%
2019	612	1955	2567	1.1%	6368	0.6%	40%	7.1%
2020	616	1974	2589	1.1%	6384	0.6%	41%	7.0%
2021	618	2002	2620	1.1%	6416	0.6%	41%	7.0%
2022	621	2030	2650	1.1%	6438	0.6%	41%	7.0%
2023	622	2060	2682	1.1%	6483	0.6%	41%	6.9%
2024	625	2093	2718	1.1%	6531	0.6%	42%	6.9%
2025	625	2121	2745	1.1%	6571	0.6%	42%	6.9%
2026	626	2151	2777	1.1%	6622	0.6%	42%	6.9%
2027	628	2185	2813	1.1%	6678	0.6%	42%	6.8%
2028	629	2221	2850	1.1%	6735	0.6%	42%	6.8%
2029	629	2251	2880	1.1%	6783	0.6%	42%	6.8%
2030	630	2295	2925	1.1%	6851	0.6%	43%	6.8%

Note(s): 1) Excludes emissions of buildings-related energy consumption in the industrial sector. Emissions assume complete combustion from energy consumption and exclude energy production activities such as gas flaring, coal mining, and cement production. 2) Carbon emissions calculated from EIA, Assumptions to the AEO 2008 and differs from EIA, AEO 2008, Table A18. Buildings sector total varies by 0.7% for year 2006 from EIA, AEO 2008. 3) U.S. buildings emissions approximately equal the combined carbon emissions of Japan,

France, and the United Kingdom.

Source(s): EIA, Emissions of Greenhouse Gases in the U.S. 1985-1990, Sept. 1993, Appendix B, Tables B1-B5, p. 73-74 for 1980; EIA, Emissions of Greenhouse Gases in the U.S. 2003, Dec. 2004, Tables 7-11, p. 29-31 for 1990 and 2000; EIA, Assumptions to the Annual Energy Outlook 2008, April 2008, Table 2, p. 10 for carbon coefficients; EIA, AEO 2008, Mar. 2008, Table A2, p. 137-139 for 2005-2030 energy consumption and Table A18, p. 164 for 2005-2030 emissions; EIA, International Energy Outlook 2008, June 2008, Table A10, p. 93 for 2005-2030 global emissions; and EIA, International Energy Annual 2006, July 2006, Table H1, www.eia.doe.gov for 1980-2000 global emission.