

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

	Commercial				U.S.		Com.% of Total U.S.	Com.% of Total Global
	Site	Electricity	Total	Growth Rate 2010-Year	Total	Growth Rate 2010-Year		
1980	245	409	653	-	4,723	-	14%	3.5%
1981	226	427	653	-	4,601	-	14%	3.6%
1982	226	426	653	-	4,357	-	15%	3.6%
1983	226	434	659	-	4,332	-	15%	3.6%
1984	236	455	691	-	4,561	-	15%	3.6%
1985	217	477	695	-	4,559	-	15%	3.6%
1986	216	481	698	-	4,564	-	15%	3.5%
1987	220	503	723	-	4,714	-	15%	3.5%
1988	230	531	761	-	4,939	-	15%	3.6%
1989	226	543	769	-	4,983	-	15%	3.6%
1990	227	566	793	-	5,039	-	16%	3.7%
1991	228	567	794	-	4,996	-	16%	3.7%
1992	229	567	796	-	5,093	-	16%	3.7%
1993	226	593	819	-	5,185	-	16%	3.8%
1994	229	605	833	-	5,258	-	16%	3.8%
1995	231	620	851	-	5,314	-	16%	3.8%
1996	240	643	883	-	5,501	-	16%	3.9%
1997	240	686	926	-	5,575	-	17%	4.0%
1998	223	724	947	-	5,622	-	17%	4.1%
1999	226	735	960	-	5,682	-	17%	4.1%
2000	239	783	1,022	-	5,867	-	17%	4.3%
2001	230	797	1,027	-	5,759	-	18%	4.3%
2002	232	795	1,027	-	5,809	-	18%	4.2%
2003	240	796	1,036	-	5,857	-	18%	4.0%
2004	238	816	1,054	-	5,975	-	18%	3.8%
2005	227	842	1,069	-	5,996	-	18%	3.8%
2006	208	836	1,043	-	5,918	-	18%	3.6%
2007	217	861	1,079	-	6,022	-	18%	3.6%
2008	224	850	1,073	-	5,838	-	18%	3.5%
2009	218	785	1,004	-	5,426	-	19% (3)	3.3%
<b>2010 (2)</b>	<b>231</b>	<b>805</b>	<b>1,036</b>	-	<b>5,634</b>	-	<b>18%</b>	<b>3.4%</b>
2011	231	793	1,025	-1.1%	5,634	0.0%	18%	3.3%
2012	232	765	997	-1.9%	5,510	-1.1%	18%	3.2%
2013	229	752	980	-1.8%	5,458	-1.0%	18%	3.1%
2014	230	739	969	-1.7%	5,447	-0.8%	18%	3.1%
2015	231	734	965	-1.4%	5,434	-0.7%	18%	3.1%
2016	232	740	972	-1.1%	5,475	-0.5%	18%	3.0%
2017	233	752	985	-0.7%	5,514	-0.3%	18%	3.0%
2018	233	761	994	-0.5%	5,531	-0.2%	18%	3.0%
2019	234	770	1,005	-0.3%	5,548	-0.2%	18%	3.0%
2020	235	776	1,010	-0.3%	5,549	-0.2%	18%	3.0%
2021	235	782	1,017	-0.2%	5,552	-0.1%	18%	3.0%
2022	235	790	1,025	-0.1%	5,563	-0.1%	18%	2.9%
2023	235	803	1,037	0.0%	5,579	-0.1%	19%	2.9%
2024	235	811	1,046	0.1%	5,589	-0.1%	19%	2.9%
2025	235	826	1,061	0.2%	5,618	0.0%	19%	2.9%
2026	236	835	1,071	0.2%	5,632	0.0%	19%	2.9%
2027	236	847	1,083	0.3%	5,649	0.0%	19%	2.9%

2028	237	854	1,091	0.3%	5,657	0.0%	19%	2.9%
2029	238	861	1,100	0.3%	5,671	0.0%	19%	2.8%
2030	240	872	1,111	0.3%	5,695	0.1%	20%	2.8%
2031	240	883	1,123	0.4%	5,725	0.1%	20%	2.8%
2032	241	892	1,133	0.4%	5,745	0.1%	20%	2.8%
2033	242	901	1,143	0.4%	5,766	0.1%	20%	2.8%
2034	243	909	1,152	0.4%	5,790	0.1%	20%	2.8%
2035	244	916	1,159	0.4%	5,806	0.1%	20%	2.7%

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 2010 and differs from EIA, AEO 2011 Early Release, Table A18. Commercial sector total varies by 0.1% from EIA, AEO 2011 Early Release. 3) U.S. commercial buildings emissions approximately equal the combined carbon emissions of Canada and Mexico.

Source(s): EIA, Emissions of Greenhouse Gases in the U.S. 2009, Feb. 2011, Tables 8-11 for 1990-2009 greenhouse gas emissions; EIA, Assumptions to the Annual Energy Outlook 2010, May 2010, Table 1.2, p. 12 for carbon coefficients; EIA, Annual Energy Outlook 2012 Early Release, Jan. 2011, Summary Reference Case Tables, Table A2, p. 3-5 for 2010-2035 energy consumption and Table A18, p. 36 for 2010-2035 emissions; EIA, International Energy Outlook 2011, Sept. 2011, Table A10 for 2010-2035 global emissions; and EIA, Country Energy Profiles for global emissions (1980-2009), available at <http://www.eia.gov/cfapps/ipdbproject/IEDIndex3.cfm>, accessed 2/10/2012 for 1980-2009 global emissions.