

Table 11.2c Carbon Dioxide Emissions From Energy Consumption: Industrial Sector, Selected Years, 1949-2011
(Million Metric Tons of Carbon Dioxide ¹)

Year	Coal	Coal Coke Net Imports	Natural Gas ³	Petroleum									Retail Elec- tricity ⁸	Total ²	Biomass ²			
				Distillate Fuel Oil ⁴	Kero- sene	LPG ⁵	Lubri- cants	Motor Gasoline ⁶	Petroleum Coke	Residual Fuel Oil	Other ⁷	Total			Wood ⁹	Waste ¹⁰	Fuel Ethanol ¹¹	Total
1949	500	-1	166	41	18	3	3	16	8	95	25	209	120	995	44	NA	NA	44
1950	531	(s)	184	51	20	4	3	18	8	110	26	239	140	1,095	50	NA	NA	50
1955	516	-1	244	72	17	10	4	24	13	122	38	299	222	1,281	59	NA	NA	59
1960	418	-1	310	74	12	17	4	27	29	123	45	329	252	1,308	64	NA	NA	64
1965	471	-2	380	83	12	24	5	24	39	123	65	376	328	1,553	80	NA	NA	80
1970	427	-7	494	89	13	31	6	21	39	126	85	410	434	1,759	96	NA	NA	96
1975	336	2	442	97	9	39	6	16	48	117	97	427	490	1,696	100	NA	NA	100
1976	335	(s)	453	111	9	41	6	15	47	141	103	474	549	1,811	114	NA	NA	114
1977	316	2	447	125	10	40	7	14	52	150	115	513	582	1,860	120	NA	NA	120
1978	304	14	442	127	11	40	7	13	48	133	127	506	580	1,846	131	NA	NA	131
1979	329	7	442	128	13	66	8	11	47	128	139	540	612	1,931	132	NA	NA	132
1980	289	-4	431	96	13	61	7	11	45	105	142	480	601	1,797	150	NA	NA	150
1981	290	-2	422	101	8	58	6	11	47	83	93	408	597	1,715	150	5	(s)	156
1982	235	-2	364	95	10	60	6	10	48	81	80	390	529	1,515	142	7	(s)	149
1983	230	-2	347	83	5	55	6	8	48	61	98	362	549	1,486	159	9	(s)	168
1984	262	-1	380	87	3	62	7	11	50	68	106	394	582	1,617	157	12	(s)	170
1985	256	-2	360	81	3	58	6	15	54	57	93	369	583	1,566	154	14	(s)	168
1986	245	-2	338	84	2	56	6	15	55	57	98	373	566	1,520	151	16	(s)	167
1987	248	1	371	83	2	53	7	15	59	45	106	369	587	1,575	148	17	(s)	165
1988	263	5	389	82	2	54	7	14	61	42	119	381	611	1,648	152	19	(s)	171
1989	259	3	411	83	2	49	7	14	60	31	118	365	638	1,677	149	12	(s)	161
1990	258	1	432	84	1	39	7	13	64	31	127	366	638	1,695	135	12	(s)	147
1991	244	1	439	79	1	39	6	14	63	24	117	342	627	1,653	132	11	(s)	143
1992	235	4	456	81	1	45	6	14	70	28	135	380	649	1,724	137	10	(s)	148
1993	233	3	464	81	1	43	6	13	68	33	114	360	655	1,715	139	11	(s)	150
1994	235	7	465	81	1	46	7	14	67	31	124	371	668	1,745	148	11	(s)	160
1995	233	7	490	82	1	45	7	14	67	24	114	355	659	1,743	155	11	(s)	166
1996	227	3	506	86	1	46	6	14	70	24	132	381	678	1,795	158	12	(s)	170
1997	224	5	506	88	1	48	7	15	68	21	138	386	694	1,815	162	10	(s)	172
1998	219	8	495	88	2	39	7	14	77	16	125	368	706	1,796	150	10	(s)	160
1999	208	7	474	86	1	48	7	11	81	14	130	378	704	1,772	152	9	(s)	161
2000	211	7	481	87	1	56	7	11	74	17	117	370	719	1,788	153	8	(s)	161
2001	204	3	439	95	2	49	6	21	77	14	132	395	667	1,709	135	12	(s)	147
2002	188	7	^R 448	88	1	54	6	22	76	13	127	388	654	^R 1,685	131	13	(s)	144
2003	190	6	430	83	2	50	6	23	76	15	140	394	672	1,692	128	13	(s)	141
2004	191	16	^R 432	88	2	55	6	26	82	17	142	419	675	^R 1,732	138	12	(s)	151
2005	183	5	398	92	3	51	6	25	80	20	141	417	673	1,675	136	13	(s)	150
2006	179	7	^R 395	92	2	56	6	26	82	16	150	430	650	^R 1,662	138	12	1	151
2007	175	3	^R 405	92	1	54	6	21	80	13	148	415	662	^R 1,661	^R 132	13	1	146
2008	168	5	407	93	(s)	42	6	17	76	14	130	377	642	^R 1,599	126	13	1	140
2009	131	-3	383	80	(s)	46	5	17	73	7	111	339	551	1,401	^R 113	14	1	^R 128
2010	^R 154	-1	^R 401	^R 86	^R 1	^R 50	6	^R 19	62	8	^R 120	^R 352	^R 587	^R 1,494	^R 122	15	1	139
2011 ^P	150	1	419	88	(s)	48	5	18	62	8	116	345	567	1,482	123	16	1	140

¹ Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

² Carbon dioxide emissions from biomass energy consumption are excluded from total emissions in this table. See Note, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section.

³ Natural gas, excluding supplemental gaseous fuels.

⁴ Distillate fuel oil, excluding biodiesel.

⁵ Liquefied petroleum gases.

⁶ Finished motor gasoline, excluding fuel ethanol.

⁷ Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

⁸ Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 8.9 and 11.2e.

⁹ Wood and wood-derived fuels.

¹⁰ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

¹¹ Fuel ethanol minus denaturant.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 and greater than -0.5 million metric tons of carbon dioxide.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the non-combustion use of fossil fuels. • See "Carbon Dioxide" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/monthly/#environment> for updated monthly and annual data. • See <http://www.eia.gov/totalenergy/data/annual/#environment> for all annual data beginning in 1949. • See <http://www.eia.gov/environment/> for related information.

Sources: • 1949-1972—U.S. Energy Information Administration (EIA) estimates based on data in *Annual Energy Review* Tables 2.1d, 5.14b, 8.9, 10.2b, and 11.2e. • 1973 forward—EIA, *Monthly Energy Review (MER)* (May 2012), Tables 12.4 and 12.7, and MER data system calculations.