

Table 11.1 Carbon Dioxide Emissions From Energy Consumption by Source
(Million Metric Tons of Carbon Dioxide^a)

	Coal ^b	Natural Gas ^c	Petroleum										Total	Total ^{h,i}
			Aviation Gasoline	Distillate Fuel Oil ^d	HGL ^e	Jet Fuel	Kero-sene	Lubri-cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g		
1973 Total	1,221	1,175	6	485	80	154	33	13	911	55	486	102	2,325	4,721
1975 Total	1,195	1,043	5	447	73	146	24	11	911	52	424	97	2,190	4,428
1980 Total	1,454	1,058	4	451	78	156	24	13	901	50	433	134	2,244	4,757
1985 Total	1,655	927	3	450	82	178	17	12	933	56	207	86	2,024	4,606
1990 Total	1,820	1,027	3	475	75	223	6	13	988	72	212	119	2,185	5,038
1995 Total	1,912	1,186	3	504	90	222	8	13	1,042	78	147	111	2,217	5,325
2000 Total	2,155	1,246	3	592	106	259	10	14	1,141	85	157	111	2,477	5,889
2005 Total	2,180	1,183	2	653	92	251	11	12	1,205	110	159	140	2,633	6,008
2010 Total	1,986	1,292	2	591	84	214	3	11	1,107	81	92	119	2,304	5,594
2011 Total	1,876	1,312	2	600	79	213	2	10	1,074	78	79	118	2,255	5,455
2012 Total	1,658	1,372	2	577	76	210	1	9	1,066	78	64	114	2,195	5,236
2013 Total	1,718	1,408	2	581	85	214	1	10	1,077	77	55	120	2,221	5,359
2014 Total	1,713	1,438	2	614	86	220	1	10	1,085	77	44	112	2,252	5,414
2015 Total	1,482	1,479	1	606	86	231	1	11	1,114	77	45	116	2,290	5,262
2016 Total	1,355	1,490	1	583	83	242	1	11	1,134	77	56	124	2,312	5,169
2017 Total	1,318	1,471	1	591	86	251	1	10	1,131	71	59	130	2,332	5,132
2018 Total	1,263	1,627	2	626	98	255	1	10	1,131	73	55	127	2,377	5,278
2019 Total	1,078	1,685	2	621	107	261	1	9	1,128	67	47	131	2,374	5,147
2020 Total	876	1,655	1	572	105	161	1	8	977	58	36	123	2,044	4,585
2021 Total	1,003	1,656	1	611	111	205	1	9	1,067	60	54	116	2,235	4,906
2022 January	96	194	(s)	54	12	18	(s)	1	83	5	4	9	186	476
February	80	165	(s)	52	10	16	(s)	1	80	4	4	8	175	421
March	70	150	(s)	55	9	19	(s)	1	93	5	5	9	196	417
April	63	127	(s)	50	7	19	(s)	1	88	4	4	9	182	373
May	70	121	(s)	51	6	20	(s)	1	94	4	5	10	190	381
June	83	125	(s)	51	6	21	(s)	1	90	4	5	9	187	395
July	96	140	(s)	49	7	20	(s)	(s)	91	7	5	10	188	425
August	94	139	(s)	51	6	21	(s)	1	93	5	5	10	194	428
September	74	124	(s)	52	7	19	(s)	1	88	5	7	9	187	385
October	64	127	(s)	54	8	20	(s)	1	90	4	4	9	190	382
November	66	150	(s)	51	9	19	(s)	1	88	6	5	9	188	404
December	83	183	(s)	50	10	20	(s)	1	88	4	4	9	186	452
Total	939	1,744	2	619	97	233	1	9	1,065	57	57	111	2,250	4,940
2023 January	71	179	(s)	52	11	19	(s)	1	85	2	4	9	183	435
February	56	160	(s)	47	9	17	(s)	1	81	4	5	8	172	389
March	59	164	(s)	54	9	20	(s)	(s)	93	5	3	9	194	418
April	48	130	(s)	49	7	20	(s)	1	89	6	3	9	184	362
May	53	124	(s)	51	7	21	(s)	1	93	4	3	10	190	368
June	67	128	(s)	50	6	22	(s)	1	93	4	4	9	189	384
July	86	144	(s)	47	7	22	(s)	1	92	2	4	10	185	416
August	86	145	(s)	53	6	22	(s)	1	95	6	5	10	197	428
September	68	129	(s)	49	7	21	(s)	(s)	88	7	3	9	184	381
October	60	132	(s)	53	8	22	(s)	1	93	5	4	9	194	386
November	60	153	(s)	50	10	20	(s)	(s)	88	8	5	9	190	403
December	64	173	(s)	48	11	21	(s)	(s)	90	3	5	9	188	425
Total	777	1,760	1	602	97	247	2	7	1,081	57	47	110	2,251	4,795
2024 January	83	201	(s)	51	12	20	(s)	1	85	4	4	9	184	468
February	53	161	(s)	48	9	19	(s)	(s)	83	2	4	8	173	388
March	47	151	(s)	48	9	21	(s)	1	91	2	5	9	186	384
April	44	129	(s)	48	7	21	(s)	1	88	7	4	8	185	359
May	R 54	126	(s)	49	7	22	(s)	1	96	5	4	9	195	375
June	68	131	(s)	45	6	21	(s)	1	91	4	4	9	182	381
July	79	148	(s)	48	6	23	(s)	1	95	6	4	9	194	421
August	77	147	(s)	51	6	23	(s)	1	95	2	4	10	191	416
September	63	131	(s)	47	7	21	(s)	(s)	89	4	3	9	180	R 374
October	56	131	(s)	53	8	22	(s)	1	93	3	4	9	193	381
November	54	147	(s)	47	9	21	(s)	(s)	87	4	4	9	181	382
11-Month Total ...	678	1,602	1	535	86	232	1	6	994	45	45	98	2,043	4,330
2023 11-Month Total ...	713	1,587	1	554	86	226	1	7	991	53	42	101	2,063	4,371
2022 11-Month Total ...	856	1,561	1	570	87	213	1	8	977	52	53	102	2,064	4,488

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

^b Includes coal coke net imports.

^c Natural gas, excluding supplemental gaseous fuels.

^d Distillate fuel oil, excluding biodiesel and renewable diesel fuel.

^e Hydrocarbon gas liquids.

^f Finished motor gasoline, excluding fuel ethanol.

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

^h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 11.6.

ⁱ Through 2011, excludes emissions from biomass energy consumption. Beginning in 2012, excludes emissions from biomass energy consumption except small amounts of emissions from "other biofuels." See "Biomass" and "Other Biofuels" in Glossary. See Table 11.7 for energy-related carbon dioxide emissions from wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel.

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, plus the relatively small amount of emissions from the non-combustion use of fossil fuels. See "Section 11 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Through 2011, data exclude emissions from biomass energy consumption; beginning in 2012, data exclude emissions from biomass energy consumption except small amounts of emissions from "other biofuels." See "Biomass" and "Other Biofuels" in Glossary. See Table 11.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#environment> (Excel and CSV files) for all available annual and monthly data beginning in 1973.

Sources: See end of section.