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STATE

Energy CO₂ Inventories

This section provides state carbon dioxide emission inventories from fossil fuel combustion that were developed by EPA, using (1) fuel consumption data from the [DOE/EIA State Energy Data Report](#) (SEDR) and (2) emission factors from the [Emissions Inventory Improvement Program, Volume VIII: Estimating Greenhouse Gas Emissions, Chapter 1](#). The inventories present annual emissions of CO₂ by sector (e.g., industry, transportation, etc.) and by fuel type (e.g., distillate fuel, natural gas, etc.). State totals are reported in million metric tons of carbon equivalent (MMTCE).

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State Sector	Source	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
▶ Alabama		29.78	30.79	32.60	33.75	33.23	35.07	36.63	35.58	35.34	35.90
▶ Alaska		9.36	9.41	9.66	9.40	9.20	10.66	10.83	10.89	11.28	11.03
▶ Arizona		17.07	17.22	17.91	18.55	19.25	17.91	18.36	19.24	20.52	21.47
▶ Arkansas		13.99	13.67	14.18	13.92	14.98	15.72	16.47	16.08	16.31	17.09
▶ California		95.41	91.27	91.47	89.04	93.22	90.89	90.52	90.59	93.01	94.83
▶ Colorado		17.74	18.16	18.47	19.50	19.69	19.72	20.57	20.66	20.72	21.32
▶ Connecticut		10.25	9.95	9.96	9.66	9.42	9.37	10.26	11.10	10.41	10.09
▶ Delaware		4.59	4.81	4.54	4.94	4.73	4.50	4.67	4.33	4.17	4.30
▶ District of Columbia		1.19	1.17	1.17	1.23	1.21	1.20	1.19	1.19	1.17	1.13
▶ Florida		50.41	50.59	51.49	52.26	53.64	54.41	55.52	57.19	60.76	60.83
▶ Georgia		37.36	35.16	35.04	37.78	38.66	40.88	42.00	42.14	42.23	43.11
▶ Hawaii		5.71	5.31	5.19	4.45	4.68	4.69	4.41	4.31	4.44	4.25
▶ Idaho		3.09	3.38	3.15	3.44	3.50	3.70	3.87	3.88	3.86	4.11
▼ Illinois		52.16	52.35	51.32	55.67	55.68	56.57	60.04	61.22	57.41	58.58
▶ Commercial		3.34	3.22	3.29	3.38	3.32	3.38	3.59	3.47	2.96	3.10
▶ Industrial		11.63	11.94	12.02	11.94	12.20	12.15	12.43	12.63	11.95	11.71
▶ Residential		6.91	7.29	7.37	7.67	7.35	7.74	8.36	7.79	6.42	7.10
▶ Transportation		14.98	14.31	14.60	15.51	15.11	15.48	15.87	16.09	16.45	18.81
▶ Utilities		15.29	15.59	14.04	17.18	17.70	17.82	19.80	21.24	19.62	17.86

▶ Indiana	55.26 54.40 53.84 55.07 55.26 56.65 57.70 59.06 58.63 59.85
▶ Iowa	17.09 17.74 17.39 18.32 18.80 19.66 20.22 20.34 20.66 20.65
▶ Kansas	18.53 18.25 17.58 19.39 19.56 19.04 20.25 19.34 18.78 19.43
▶ Kentucky	32.06 32.30 33.34 36.25 35.89 37.22 37.54 38.91 36.79 36.43
▶ Louisiana	49.93 49.10 50.96 50.97 52.68 52.01 53.44 53.90 50.59 51.16
▶ Maine	4.88 4.66 4.88 4.84 5.17 4.91 5.11 5.20 5.13 4.86
▶ Maryland	18.80 18.52 18.02 18.76 19.02 19.07 19.65 19.75 20.37 21.16
▶ Massachusetts	21.94 21.43 21.68 21.41 21.21 20.94 21.27 22.98 20.72 17.16
▶ Michigan	47.72 47.45 47.04 48.24 50.70 51.15 52.33 51.77 50.73 52.69
▶ Minnesota	21.30 21.44 21.87 23.25 23.86 24.59 25.51 25.30 24.77 25.02
▶ Mississippi	13.33 13.19 13.23 13.82 13.71 13.85 14.60 14.95 15.16 17.05

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A Note on Units Used

Greenhouse gases contribute to climate change by increasing the ability of the atmosphere to trap heat. The principal GHGs are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Because these gases differ in their ability to trap heat, one ton of emissions of CO₂ has a different effect than one ton of emissions of CH₄. To express emissions of the different gases in a comparable way, atmospheric chemists often use a weighting factor called *global warming potential*. The heat-trapping ability of one metric ton (1,000 kilograms) of CO₂ is taken as the standard, and emissions may be expressed in terms of metric tons of CO₂ equivalent (abbreviated MTCDE). More commonly, emissions are expressed in terms of metric tons of carbon equivalent (MTCE). Carbon comprises 12/44 of the mass of carbon dioxide; thus to convert from CO₂ equivalent to C equivalent, one multiplies by 12/44. Throughout this database, we use units of MTCE or million MTCE (MMTCE).



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State Sector	Source	1990	1991	1992	1993	1994	1995	1996	1997
▶ New Hampshire		3.85	3.76	3.78	3.98	3.97	4.04	4.15	
▶ New Jersey		29.55	29.59	30.81	29.93	31.97	31.60	31.71	
▶ New Mexico		14.26	12.94	13.69	13.88	13.86	13.41	14.03	
▶ New York		55.60	53.27	52.25	51.39	50.54	51.66	53.44	
▶ North Carolina		28.78	28.42	31.15	32.89	31.44	32.96	36.40	
▶ North Dakota		12.35	12.79	13.30	13.42	13.57	13.52	13.71	
▶ Ohio		66.14	65.72	67.02	68.50	67.59	68.49	71.54	
▶ Oklahoma		23.72	23.59	24.46	25.27	24.78	25.10	25.84	
▶ Oregon		8.58	9.44	9.68	9.53	9.93	9.32	9.70	
▼ Pennsylvania		69.02	66.79	68.89	70.23	69.24	69.94	71.13	
▶ Commercial		3.15	3.16	3.39	3.27	3.48	3.49	3.59	
▶ Industrial		16.74	15.09	16.28	16.43	16.44	16.41	16.39	
▶ Residential		6.32	6.45	6.90	7.21	7.05	7.01	7.42	
▶ Transportation		16.18	16.05	16.44	16.97	17.10	17.41	17.21	
▶ Utilities		26.63	26.03	25.88	26.36	25.16	25.62	26.52	
▶ Rhode Island		2.28	2.51	2.88	2.91	2.85	2.80	3.09	
▶ South Carolina		16.44	16.69	16.58	17.83	17.89	17.63	18.70	
▶ South Dakota		3.08	3.10	3.14	3.33	3.57	3.53	3.48	
▶ Tennessee		28.25	27.10	28.67	31.61	30.33	32.06	32.15	
▶ Texas		149.58	147.20	149.51	152.54	152.27	151.53	163.44	163.44
▶ Utah		14.51	14.32	14.69	15.13	15.39	15.44	15.67	
▶ Vermont		1.41	1.46	1.58	1.65	1.59	1.61	1.70	

▶ Virginia	24.85	25.01	24.97	25.85	25.62	26.26	27.56	:
▶ Washington	20.00	19.94	22.07	20.56	21.56	21.29	21.92	:
▶ West Virginia	27.95	25.81	26.25	26.28	28.23	28.05	28.62	:
▶ Wisconsin	23.10	23.83	23.70	24.60	25.54	26.34	27.40	:
▶ Wyoming	15.57	15.20	16.76	15.95	16.57	15.92	16.44	:
	1,340.41	1,324.03	1,345.78	1,375.26	1,393.07	1,406.96	1,456.68	1,4

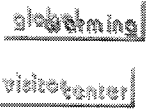
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▶ Residential		8.04	7.99	7.42	7.85	8.02	7.32	7.35	7.29	8.77	8.72
▶ Transportation		55.68	52.41	52.11	51.30	53.56	54.97	55.69	54.32	54.80	56.27
▶ Utilities		7.77	6.78	8.47	7.36	9.30	5.95	4.85	5.58	4.01	2.11
▶ Colorado		17.74	18.16	18.47	19.50	19.69	19.72	20.57	20.66	20.72	21.32
▶ Connecticut		10.25	9.95	9.96	9.66	9.42	9.37	10.26	11.10	10.41	10.09
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▶ Louisiana	49.93 49.10 50.96 50.97 52.68 52.01 53.44 53.90 50.59 51.16
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▶ Michigan	47.72 47.45 47.04 48.24 50.70 51.15 52.33 51.77 50.73 52.69
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