

# State Energy CO2 Emissions Estimates 1960 Through 2023





### 2023 CO2 Emissions Summary Tables

Table CO2.1. Total CO2 emissions estimates from energy consumption by source, 2023 (million metric tons of carbon dioxide (CO2))

State	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total <sup>a</sup>
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Alabama	21.5	40.5	39.0	101.0
Alaska	1.8	22.9	18.5	43.2
Arizona	13.2	28.4	41.4	83.0
Arkansas	17.3	20.9	22.2	60.4
California	2.8	112.5 27.4	209.1 35.2	324.3 82.2
Colorado Connecticut	19.6	27.4 16.1	35.2 20.1	36.2
Delaware	(s)	4.4	7.7	12.2
Dist. of Col.	(3)	1.4	1.1	2.5
Florida	12.4	88.3	128.8	229.5
Georgia	17.0	41.3	67.4	125.7
Hawaii	_	(s)	18.0	18.0
Idaho	0.1	(s) 8.1	13.1	21.3
Illinois	32.7	57.7	76.3	166.6
Indiana	58.3	47.9	47.7	153.9
Iowa	19.3	23.1	25.7	68.0
Kansas	17.7	16.1	24.1	57.8
Kentucky	46.2	19.3	39.4	104.8
Louisiana	5.6	105.9	72.4	183.8
Maine	0.1	3.2	12.3	15.6
Maryland	2.9	16.1 20.4	29.7 36.5	48.6 56.8
Massachusetts Michigan		20.4 58.0	36.5 55.7	141.1
Minnesota	14.3	28.1	38.5	80.8
Mississippi	4.8	33.1	26.0	63.8
Missouri	42.4	16.6	42.5	101.5
Montana	12.5	5.1	11.9	29.4
Nebraska	18.7	10.7	16.2	45.6
Nevada	2.8	15.9	20.6	39.3
New Hampshire	0.2	3.1	10.2	13.5
New Jersey	— 7.2	38.0	53.2	91.2
New Mexico	7.2	17.5	17.4	42.2
New York	0.5 14.7	71.1	93.3	164.9
North Carolina	14.7	34.8	61.9	111.4
North Dakota	31.2	11.4	11.7	54.3
Ohio	39.3	75.9 44.8	69.0	184.2
Oklahoma Oregon	6.1 0.1	44.8 17.2	36.0 21.6	86.9 38.9
Pennsylvania	28.9	101.4	70.6	200.9
Rhode Island	20.9	5.9	5.2	11.1
South Carolina	15.6		35.1	68.8
South Dakota	2.1	18.1 5.2	7.7	15.1
Tennessee	19.4	20.7	48.5	88.5
Texas	77.2	20.7 274.1	318.6	669.9
Utah	16.7	15.7	22.6	55.0
Vermont	 4.4	0.7	4.7	5.4
Virginia	4.4	34.5	55.7	94.6
Washington	4.7	21.2	50.4	76.3
West Virginia	45.3	15.9	13.4	74.6
Wisconsin	21.1	29.6	35.6	86.2
Wyoming	35.1	9.3	9.9	54.3
United States	780.9	1,755.2	2,249.5	4,785.6

 $<sup>^{\</sup>rm a}\,$  U.S. total includes industrial net imports of coal coke not allocated to the states.  $^{\rm b}\,$  Excludes supplemental gaseous fuels.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for

interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. · Totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>- =</sup> No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Table CO2.2. Residential sector CO2 emissions estimates from energy consumption, 2023 (million metric tons of carbon dioxide (CO2))

		T		
State	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
Alabama		1.5	0.3	1.8
Alaska		1.3	0.6	1.7
Arizona	_	2.5	0.6	2.8
Arkansas	_	1.6	0.3	1.8
California	<u> </u>	25.3	1.6	26.0
Colorado	<u> </u>	25.3 7.6	1.6 0.7	26.9 8.3
Connecticut	<u> </u>	26	4.2	6.8
Delaware	<u> </u>	2.6 0.6	0.3	0.9
Dist. of Col.	_	0.6	(9)	0.6
Florida	_	1.0	(s) 0.4	1 4
Georgia	_	6.6	0.1	71
Hawaii	_	(s)	0.4 (s) 0.4	(s)
Idaho	_	1.9	0.4	23
Illinois	_	19.8	1.8	21.6
Indiana	_	(s) 1.9 19.8 6.8 3.2	1.8 0.9	7.1 (s) 2.3 21.6 7.7
lowa	_	3.2	1.4	4.6
Kansas	_	3.2	0.5	3.7
Kentucky	_	2.3	0.4	2.7
Louisiana	_	3.2 2.3 1.5	0.5 0.4 0.1	3.7 2.7 1.6
Maine	_	0.2	2.6	2.8
Marvland	_	0.2 3.9	2.6 1.4	2.8 5.3
Massachusetts	_	6.0	5.8 2.3	11.7
Michigan	_	15.9	2.3	18.2
Minnesota	_	7.3 1.1	2.0 0.3	9.3 1.4
Minnesota Mississippi		1.1	0.3	1.4
Missouri	_	5.0 1.2	1.2 0.5	6.1 1.8
Montana	_	1.2	0.5	1.8
Nebraska	_	2.1	0.3	2.4
Nevada		2.8	0.2	3.0
New Hampshire	<del>-</del>	0.4	2.1	2.5
New Jersev		11.9	1.9	13.8
New Mexico		2.0	0.3	2.3
New York	<del>-</del>	22.6	9.1	31.7
North Carolina	_	3.5	1.4	4.9
North Dakota	_	22.6 3.5 0.7	0.5	1.2
Ohio	_	14.6	1.7	16.3
Oklahoma	_	3.2 2.7	0.5	3.7
Oregon	_	2.7	0.3	3.0
Pennsylvania	_	11.3	6.7	18.0
Rhode Island	<del>-</del>	0.9	1.1	2.0
South Carolina	<del>-</del>	1.7	0.3	1.9
South Dakota	_	0.7	0.3	1.0
Tennessee	<del>-</del>	3.5	0.4	3.9
Texas	_	10.8	1.0	11.8
Utah	_	4.6	0.2	4.7
Vermont	<del>-</del>	0.2	1.1	1.3
Virginia	_	4.1	1.6	5.7
Washington	_	5.0	0.8	5.8
West Virginia	_	1.2	0.3	1.5
Wisconsin	_	6.8	2.1	8.9 1.0
Wyoming	_	0.8	0.3	1.0
United States		248.0	65.2	313.3
United States	<del>-</del>	248.0	65.2	313.3

a Consumption data not collected and assumed to be zero.
 b Excludes supplemental gaseous fuels.

electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of

<sup>·</sup> Totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table CO2.3. Commercial sector CO2 emissions estimates from energy consumption, 2023 (million metric tons of carbon dioxide (CO2))

State	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Alabama	.=	1.3	0.8	2.1
Alaska	0.7	0.9	0.7	2.3 3.4
Arizona	_	2.0	1.4	3.4
Arkansas	<del>-</del>	2.9	0.5	3.4
California	(-)	14.1 3.4	6.5 1.2	20.5
Colorado Connecticut	(s)	3.4	1.2	4.0
Delaware	_	3.0 0.6	1.2 0.2	4.2
Dist. of Col.		0.8	0.2	20.5 4.6 4.2 0.8 0.9 6.5
Florida		3.4	3.1	0.9 6.5
Georgia	<u> </u>	2.8	1.7	4.4
Hawaii	<u> </u>	2.8 (s) 1.2	0.4	0.4
Idaho	_	1.2	0.4	1.6
Illinois	0.1	11.9	1.5	1.6 13.6
Indiana	0.1	4.7	1.0	5.7
Iowa	(s)	2.8	0.7	3.6
Kansas	_	2.3 1.9	0.4	2.8 2.6
Kentucky	<del>-</del>	1.9	0.7	2.6
Louisiana	<del>-</del>	1.6	0.6	21
Maine	_	0.5 3.7	1.3	1.8
Maryland	_	3.7	1.3	1.8 5.0 7.5 10.6
Massachusetts	<del>-</del>	5.8	1.7	7.5
Michigan	(s)	9.1	1.5	10.6
Minnesota	(\$)	6.0	1.1	7.1
Mississippi	(2)	1.1	0.5	1.5
Missouri Montana	(s) (s)	3.3 1.5	0.9 0.3	4.3 1.8
Nebraska	(5)	1.9	0.3	1.0
Nevada	<u> </u>	1.9	0.3	2.2 2.5 1.4
New Hampshire	_	0.5	0.9	1.4
New Jersey	_	8.0	1.6	9.5
New Jersey New Mexico	_	1.5	0.4	1.9
New York	_	16.1	5.2	1.9 21.4
North Carolina	0.1	16.1 3.0	1.9	4.9
North Dakota	(s)	0.9	0.4	4.9 1.3 11.7
Ohio	<del>-</del>	9.4	2.3	11.7
Oklahoma	_	2.4	0.7	3.2 2.6
Oregon	<del></del>	1.8	0.8	2.6
Pennsylvania Rhode Island	(s)	8.6	2.8	11.4
Rhode Island	_	0.6	0.3	0.9
South Carolina	_	1.4 0.7	0.9 0.2	0.9 2.2 0.9
South Dakota Tennessee	_	2.9	1.0	3.9
Texas	_	10.6	1.0 3.5	3.9 14.1
Utah	Ξ	2.7	0.7	14.1
Vermont	_	0.4	0.7	3.4 0.9 5.7
Virginia	(2)	3.8	1.8	5.9 5.7
Washington	<u>(s)</u>	3.4	1.4	4.8
West Virginia	_	1.2	0.4	1.6
Wisconsin	<u> </u>	5.8	1.0	6.8
Wyoming	(s)	0.8	0.3	1.0
United States	1.1	183.0	61.2	245.3

a Excludes supplemental gaseous fuels.

electricity, although the electricity might be sold to ultimate customers in other states and sectors.  $\cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The commercial sector

includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

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Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

Table CO2.4. Industrial sector CO2 emissions estimates from energy consumption, 2023 (million metric tons of carbon dioxide (CO2))

State	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total <sup>a</sup>
labama	2.4	11.9	3.1	17.4
laska	(9)	19.5	2.0	21.5
rizona	(s) 0.5	19.5 1.1	3.0	4.6
rkansas	0.3 2.8 0.3	5.7 35.5 8.5	2.4	8.4 60.9 11.8 1.5
alifornia	2.8	35.5	2.4 22.7	60.9
olorado	0.3	8.5	3.1	11.8
onnecticut	<del>-</del>	1.1	0.5	1.5
elaware	<del>-</del>	1.7	1.8	3.6
ist. of Col.	<del></del>	<del></del>	(s) 4.8	(s) 11.6
lorida	0.2	6.5	4.8	11.6
eorgia	0.4	8.2	3.4	12.0
lawaii	_	(s) 2.1	0.9	0.9
laho	0.1	2.1	11.1	3.3
linois Idiana	5.8 13.8	14.0 21.1	14.1 8.0	33.9 42.9
owa	13.0	12.0	4.5	21.1
ansas	3.6 0.2	13.0 7.5	4.5 5.5	13.2
entucky	1.7	7.3	6.0	15.0
ouisiana	0.4	67.7	38.7	106.8
laine		1.0	0.4	1.4
laryland	0.8	0.8	0.9	2.5
lassachusetts	<del>-</del>	2.3	0.8	3.1
lichigan	4.4	9.0	4.5	17.9
linnesota	1.6	8.2 6.7	6.8	16.6
1ississippi	0.2		4.0	10.9
lissouri <sup>*</sup>	1.6	3.4	3.3 2.5 2.3 1.5 0.3 5.1	8.3
lontana	0.3	1.6	2.5	4.4
ebraska	1.1	5.6	2.3	9.0
levada	0.4	1.1 0.5	1.5	3.1
lew Hampshire	_	0.5	0.3	0.8
lew Jersey lew Mexico	0.1 0.5	4.2 6.8	5.1 1.9	9.3
lew York	0.1	0.0 1 1	1.9	8.3 4.4 9.0 3.1 0.8 9.3 8.9 8.9 9.4
lorth Carolina	0.5	4.4 6.2	3.3 2.7	0.2 Q /
lorth Dakota	6.6	6.2	3.0	16.8
Phio	6.6 8.9	6.3 18.3	3.9 8.8	16.8 36.0
Oklahoma	0.3	17.1	6.5	23.9
regon	0.1	3.0	1.4	4.5
ennsylvania	14.3	26.8	7.7	48.8
hode Island	<u> </u>	0.4	0.1	0.6
outh Carolina	0.2	5.0	2.2	7.3
outh Dakota	0.4	2.4	0.9	3.8
ennessee	2.8	7.6	3.1	13.5
exas	0.4	130.4	104.9	235.8
ltah	0.7	2.9	2.9	6.5
ermont	_	0.1	0.3	0.4
irginia	2.9 0.1	6.1 4.0	1.8 6.8	10.8 10.9
/ashington /est Virginia	0.1	4.0 9.8	6.8 1.6	10.9
vest virginia /isconsin	0.6 0.7	9.8 7.2	3.0	12.0 10.9
Vyoming	2.3	6.3	2.9	11.4
yoning	2.3	0.3	2.9	11.4
nited States	85.4	547.8	324.9	954.4

a U.S. total includes coal coke net imports not allocated to the states.
 b Excludes supplemental gaseous fuels.
 c Excludes biofuels.

— = No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

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See technical notes. https://www.eia.gov/state/seds/

Table CO2.5. Transportation sector CO2 emissions estimates from energy consumption, 2023 (million metric tons of carbon dioxide (CO2))

State	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
labama	<del>_</del>	1.4	34.8	36.2
laska	<del>_</del>	(s)	14.7	36.2 14.7 37.7
rizona	_	(s) 1.0	36.7	37.7
rkansas	<del>-</del>	0.3	19.0	19 4
alifornia	<del>-</del>	3.0	178.3	181.3
colorado	_	0.5	30.0	30.5
connecticut	_	0.3	14.1	14.4
elaware	_	(s) (s) 1.3 0.5	5.4	5.4
ist. of Col.	_	(s)	0.9	1.0
lorida	<del>-</del>	1.3	119.2	120.4
ieorgia	_	0.5	61.9 11.4	62.4 11.4
lawaii laho	_	0.4	11.4 11.2	11.4 11.6
linois	<u> </u>	0.4	58.8	59.8
ndiana		0.6	37.7	38.3
owa	<u> </u>	0.5	19.0	19.5
ansas	<del>_</del>	0.8	17.7	18.5
entucky	_	1.6	32.2	33.8
ouisiana	_	15.2	31.8	47.0
laine	<del>_</del>	0.1	7.8	7.9
laryland	<del>-</del>	1.5	26.0	27.5
lassachusetts	_	0.4	28.1	28.5
lichigan	<del>-</del>	1.3	45.7	47.0
linnesota	<del>-</del>	0.8	28.6	29.4
lississippi	<del>-</del>	2.3	21.2	23.5
lissouri	_	2.3 0.2 0.1	37.0	23.5 37.2 7.9 13.6
lontana	_	0.1	7.8	7.9
lebraska	_	0.3	13.3 18.3	13.6
levada lew Hampshire		0.3 0.3 (s) 0.4 0.8	6.9	18.6 6.9
lew hampsille	_	(5)	44.6	45.0
lew Jersey lew Mexico		0.4	14.8	45.0 15.6
lew York	<del>_</del>	21	75.4	77.6
lorth Carolina	_	2.1 0.3	55.8	56.1
lorth Dakota	_	2.0	6.8	8.9 57.8
hio	_	2.0 3.0	54.8	57.8
klahoma	_	2.6	28.3	30.9
regon	<del>-</del>	0.5 2.9	19.1	19.6
ennsylvania	_	2.9	53.4	56.2
hode Island	<del>-</del>	0.2	3.6	3.8
outh Carolina	_	0.1	31.7	31.8
outh Dakota	<del>-</del>	0.3	6.3	6.7
ennessee	<del>-</del>	1.1	43.9	45.0
exas	_	13.9	209.0	223.0 19.5
ltah ermont	_	0.7	18.8 2.9	19.5
irginia		(s) 0.7	50.4	2.9 51.0
/ashington		1.0	41.5	42.5
Vasnington Vest Virginia		1.0	11.0	42.5 12.9
vest virgina Visconsin		0.2	29.3	29.5
/yoming		0.2	6.6	7.3
, , o	_	0.1	0.0	7.5
Inited States	_	71.4	1,783.5	1,854.9

electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System.

See technical notes. https://www.eia.gov/state/seds/

a Consumption data not collected and assumed to be zero.
b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of

Table CO2.6. Electric power sector CO2 emissions estimates from energy consumption, 2023 (million metric tons of carbon dioxide (CO2))

State	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Alabama	19.1	24.4 1.5 21.8	(s) 0.4	43.5 2.9 34.5 27.4
Alaska Arizona	1.0 12.7	1.5	0.4	2.9
Arizona Arkansas	17.0	10.4	(s) (s) (s) 0.2	34.5
California	17.0	34.6	(S)	34.7
Colorado	19.3	34.6 7.5	0.2	27.0
Connecticut	——————————————————————————————————————	9.1	0.1	27.0 9.2
Delaware	<u>(s)</u>	1.5	<u>(s)</u>	1.5
Dist. of Col.	<u> </u>	<del>-</del>	<u> </u>	89.5 39.9
Florida	12.2 16.6	76.1	1,3	89.5
Georgia		23.3		39.9
Hawaii Idaho	_		5.3	5.3 2.5
Illinois	26.8	2.5 11.0	(s) (s) 0.1	2.5 27.9
Indiana	44.5	14.6	(S) 0.1	37.8 59.2
lowa	15.6	3.6	0.1	19.3
Kansas	15.6 17.4	2.2	0.1	19.7
Kentucky	44.5	6.1	0.1	50.7
Louisiana	5.2	20.0	1.2	26.3
Maine	0.1	1.4	0.1	1.6
Maryland	2.1	6.1	0.1	8.3
Massachusetts		5.9	0.1	6.0
Michigan	22.9 12.6	22.9	1.6	47.5
Minnesota	12.6	5. <del>7</del> 22.0	0.1	18.4
Mississippi Missouri	4.5 40.8	22.0 4.6	(s) 0.1	20.5 45.6
Montana	40.0	0.6	0.1	26.5 45.6 13.5
Nebraska	17.1	0.0		18.4
Nevada	2.4	9.8	(S)	12.2
New Hampshire	12.1 17.6 2.4 0.2	0.8 9.8 1.7	(s)	18.4 12.2 1.9
New Jersey New Mexico		13.5 6.5 25.7	(s) (s) (s) (s) 0.1 0.3	13.5
New Mexico		6.5	0.1	13.6 26.0
New York	 14.2	25.7	0.3	26.0
North Carolina	14.2	21.9	0.1	36.1
North Dakota	24.6 30.4	1.5	(s) 1.4	26.1 62.3
Ohio Oklahoma	30.4	30.5 19.5	1.4	62.3 25.3
Oregon	5.8	9.5 9.2	<u>(s)</u>	25.3 9.2
Pennsylvania	14.6	51.8	0.1	66.5
Rhode Island	_	3.8	(9)	3.9
South Carolina	15.4	10.0	(s) 0.1	25.4
South Dakota	1.7	1.0	(s)	2.7
Tennessee	16.6	5.5	(s) 0.1	22.2
Texas	76.7	108.4	0.2	185.3
Utah	16.0	4.8	(s) (s) 0.1	20.9
Vermont		(s)	(s)	(s)
Virginia Washington	1.4	19.8	0.1	21.4
Washington West Virginia	4.6 44.7	7.7 1.8	(s) 0.1	12.4 46.6
Wisconsin	20.4	9.5	0.1	30.1
Wyoming	32.8	9.5 0.8	(s)	33.6
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0£.0	5.0	(3)	00.0
United States	694.4	705.0	14.7	1,414.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

### 2023 CO2 Emissions Ranking Tables

Table CO2.7. Total CO2 emissions estimates from energy consumption, per capita CO2 emissions, and carbon intensities, ranked by state, 2023

	Total CO2 e	emissions	Per capita CO2	emissions	Carbon intensity of pri	mary energy supply	Carbon intensit	y of economy
Rank	State	Million metric tons	State	Metric tons	State	Metric tons CO2 per billion Btu	State	Metric tons CO2 per million chained 2017 dollars GDP
1	Texas	669.9	Wyoming	92.9	Wyoming	74.5	Wyoming	1,351.0
2	California	324.3	North Dakota	68.8	West Virginia	73.4	West Virginia	923.
3	Florida	229.5	Alaska	58.6		69.5	North Dakota	899.
4	Pennsylvania	200.9	West Virginia	42.1	North Dakota	67.2	Alaska	798.
5	Ohio	184.2	Louisiana	40.1	Hawaii	66.1	Louisiana	739.
6	Louisiana	183.8	Montana	26.0	Utah	65.7	Mississippi	533.
7	Illinois	166.6	Kentucky	23.0	Missouri	65.1	Montana	512.
8	New York	164.9	Nebraska	22.9	Montana	64.4	Kentucky	467.
9	Indiana	153.9	<u>I</u> ndiana	22.4	Indiana	64.0	Arkansas	422.
10	Michigan	141.1	Texas	21.8	Colorado	60.5	Oklahoma	418.0
11	Georgia	125.7	Mississippi	21.7	Delaware	59.8	Alabama .	411.8
12	North Carolina	111.4	Oklahoma	21.4	Alaska	57.8	New Mexico	382.4
13	Kentucky	104.8	lowa	21.1	Ohio	57.7	Indiana	380.0
14	Missouri	101.5	New Mexico	19.9	Massachusetts	57.2	Iowa	336.8
15	Alabama	101.0	Alabama	19.7	New Mexico	56.7	Texas	319.
16	Virginia	94.6	Arkansas	19.7	Nevada	56.0	Kansas	314.
17	New Jersey	91.2	Kansas	19.6	Wisconsin	55.2	Nebraska	314.0
18	Tennessee	88.5	South Dakota	16.4	Rhode Island	54.6	Missouri	291.3
19	Oklahoma	86.9	Missouri	16.4	Florida	54.1	South Dakota	262.8
20	Wisconsin	86.2	Utah	16.0		53.5	South Carolina	262.
21	Arizona	83.0	Ohio	15.6		53.2	Ohio	259.
22	Colorado	82.2	Pennsylvania	15.4	District of Columbia	53.0	Michigan	254.0
23	Minnesota	80.8	Wisconsin	14.5	Arkansas	52.5	Pennsylvania	251.3
24	Washington	76.3	Minnesota	14.0	Michigan	52.3	Wisconsin	250.3
25	West Virginia	74.6	Michigan	14.0	Nebraska	52.3	Utah	243.9
26 27	South Carolina	68.8	Colorado	13.9	Mississippi	51.1	<u>I</u> daho	222.3
2/	lowa	68.0	Illinois	13.2	Idaho	50.5	Tennessee	209.
28	Mississippi	63.8	South Carolina	12.8	New York	50.4	Maine	207.
29	Arkansas	60.4	<u>H</u> awaii	12.5		50.3	Minnesota	206.8
30 31	Kansas	57.8	Tennessee	12.4	Maryland	49.9	Hawaii	203.6
31	Massachusetts	56.8	Nevada	12.2	Minnesota	49.8	Nevada	201.3
32	Utah .	55.0	Delaware	11.7	Tennessee	48.8	Arizona	196.4
33 34	Wyoming	54.3	Georgia	11.4	New Jersey	48.5	Colorado	188.2
34	North Dakota	54.3	Maine	11.1	Arizona	48.5	Illinois <sub>.</sub>	188.2
35	Maryland	48.6	Arizona	11.1	Washington	47.9	Georgia	185.4
36 37	Nebraska	45.6	Virginia	10.8	Georgia	47.9	Florida	177.
37	Alaska	43.2	Idaĥo	10.8	Texas	47.7	Rhode Island	175.2
38	New Mexico	42.2	North Carolina	10.2	North Carolina	47.5	North Carolina	174.7
39	Nevada	39.3	Rhode Island	10.0	Virginia	47.2	Virginia	158.3
40	Oregon	38.9 36.2	Florida	10.0	Maine	46.5	Delaware	156.0
41	Connecticut	36.2	Connecticut	9.9	lowa	46.4	Vermont	154.2
42	Montana	29.4	New Jersey	9.7	Pennsylvania	46.3	Oregon New Hampshire	148.4
43	ldaho	21.3	Washington	9.7	Louisiana	46.0	New Hampsnire	145.0
44	Hawaii	18.0	New Hampshire	9.7	Connecticut	45.8	New Jersey Connecticut	137.4
45	Maine	15.6	Oregon	9.1	Alabama	44.6	Connecticut	126.2
46	South Dakota	15.1	Vermont	8.4	Oregon	44.3	Maryland	115.0
47	New Hampshire	13.5	New York	8.4	Illinois	43.4	Washington	112.
48	Delaware	12.2	California	8.3	South Dakota	41.5	California	99.8
49	Rhode Island	11.1	Massachusetts	8.0	South Carolina	39.6	Massachusetts	92.
50	Vermont	5.4	Maryland	7.8	New Hampshire	39.0	New York	92.0
51	District of Columbia	2.5	District of Columbia	3.6	Vermont	38.4	District of Columbia	16.8
	United States	4,785.6	United States	14.2	United States	51.2	United States	211.

<sup>— =</sup> No consumption. Where shown, (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. U.S. totals include net imports of coal coke consumption not allocated to the states. • Totals may not equal sum of components due to independent rounding. Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System based on population data from the U.S. Census Bureau and GDP data from the U.S. Bureau of Economic Analysis. See technical notes. https://www.eia.gov/state/seds/

#### Table CO2.8. Total CO2 emissions estimates from energy consumption by source, ranked by state, 2023

	Coa	<sub>l</sub> a	Natural	gas <sup>b</sup>	Petrole	um <sup>C</sup>	Tot	al <sup>a</sup>
Rank	State	Million metric tons CO2	State	Million metric tons CO2	State	Million metric tons CO2	State	Million metric tons CO2
1	Texas	77.2	Texas	274.1	Texas	318.6	Texas	669.9
2	Indiana		California	112.5	California	209.1	California	324.3
2		58.3		112.5		209.1		324.3
3	Kentucky	46.2	Louisiana	105.9	Florida	128.8	Florida	229.5
4	West Virginia	45.3	Pennsylvania	101.4	New York	93.3	Pennsylvania	200.9
5	Missouri	42.4	Florida	88.3	Illinois	76.3	Ohio	184.2
6	Ohio	39.3	Ohio	75.9	Louisiana	72.4	Louisiana	183.8
7	Wyoming	35.1	New York	71.1	Pennsylvania	70.6	Illinois	166.6
8	Illinois	32.7	Michigan	58.0	Ohio	69.0	New York	164.9
9	North Dakota	31.2	Illinois	57.7	Georgia	67.4	Indiana	153.9
10	Pennsylvania	28.9	Indiana	47.9	Georgia North Carolina	61.9	Michigan	141.1
11	Michigan	27.4	Oklahoma	44.8	Virginia	55.7	Georgia	125.7
12	Alabama	21.5		41.3	Michigan	55.7 55.7	North Carolina	111.4
			Georgia					
13	Wisconsin	21.1	Alabama	40.5	New Jersey	53.2	Kentucky	104.8
14	Colorado	19.6	New Jersey	38.0	Washington	50.4	Missouri	101.5
15	Tennessee	19.4	North Carolina	34.8	Tennessee	48.5	Alabama	101.0
16	Iowa	19.3	Virginia	34.5	Indiana	47.7	Virginia	94.6
17	Nebraska	18.7	Mississippi	33.1	Missouri	42.5	New Jersey	91.2
18	Kansas	17.7	Wisconsin	29.6	Arizona	41.4	Tennessee	88.5
19	Arkansas	17.3	Arizona	28.4	Kentucky	39.4	Oklahoma	86.9
20	Georgia	17.0	Minnesota	28.1	Alabama	39.0	Wisconsin	86.2
20				20.1				00.2
21	Utah	16.7	Colorado	27.4	Minnesota	38.5	Arizona	83.0
22 23	South Carolina	15.6	lowa	23.1 22.9	Massachusetts	36.5	Colorado	82.2
23	North Carolina	14.7	Alaska	22.9	Oklahoma	36.0	Minnesota	80.8
24	Minnesota	14.3	Washington	21.2	Wisconsin	35.6	Washington	76.3
25	Arizona	13.2	Arkansas	20.9	Colorado	35.2	West Virginia	74.6
26	Montana	12.5	Tennessee	20.7	South Carolina	35.1	South Carolina	68.8
27	Florida	12.4	Massachusetts	20.4	Maryland	29.7	lowa	68.0
28	New Mexico	7.2	Kentucky	19.3	Mississippi	26.0	Mississippi	63.8
29	Oklahoma	6.1	South Carolina	18.1	lowa	25.7	Arkansas	60.4
29	Louisiana	5.6	New Mexico	17.5	Kansas	24.1	Kansas	57.8
30								
31	Mississippi	4.8	Oregon	17.2	Utah	22.6	Massachusetts	56.8
32	Washington	4.7	Missouri	16.6	Arkansas	22.2	Utah	55.0
33 34	Virginia	4.4	Connecticut	16.1	Oregon	21.6	Wyoming North Dakota	54.3
34	Maryland	2.9	Maryland	16.1	Nevada	20.6	North Dakota	54.3
35	Nevada	2.8	Kansas	16.1	Connecticut	20.1	Maryland	48.6
36	California	2.8	West Virginia	15.9	Alaska	18.5	Nebraska	45.6
37	South Dakota	2.1	Nevada	15.9	Hawaii	18.0	Alaska	43.2
38	Alaska	1.8	Utah	15.7	New Mexico	17.4	New Mexico	42.2
39	New York	0.5	North Dakota	11.4	Nebraska	16.2	Nevada	39.3
39		0.5			Mediaska			
40	New Hampshire	0.2	Nebraska	10.7	West Virginia	13.4	Oregon	38.9
41	Maine	0.1	Wyoming	9.3	Idaho	13.1	Connecticut	36.2
42	Idaho	0.1	Idaho	8.1	Maine	12.3	Montana	29.4 21.3
43	Oregon	0.1	Rhode Island	5.9	Montana	11.9	Idaho	21.3
44	Delaware	(s)	South Dakota	5.2	North Dakota	11.7	Hawaii	18.0
45	Connecticut	<del></del>	Montana	5.1	New Hampshire	10.2	Maine	15.6
46	District of Columbia		Delaware	4.4	Wyoming	9.9	South Dakota	15.1
47	Hawaii		Maine	3.2	South Dakota	7.7	New Hampshire	13.5
	Massachusetts	_		3.2	Delaware	7.7	Delaware	12.2
48		_	New Hampshire District of Columbia					
49	New Jersey	_	District of Columbia	1.4	Rhode Island	5.2	Rhode Island	11.1
50	Rhode Island	_	Vermont	0.7	Vermont	4.7	Vermont	5.4
51	Vermont	_	Hawaii	(s)	District of Columbia	1.1	District of Columbia	2.5
	United States	780.9	United States	1,755.2	United States	2,249.5	United States	4,785.6

a U.S. total includes net imports of coal coke not allocated to the states.
 b Excludes supplemental gaseous fuels.
 c Excludes biofuels.

<sup>-</sup> Excludes blottuels.
- = No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: · Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

· Totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

Table CO2.9. Total CO2 emissions estimates from energy consumption by sector, ranked by state, 2023

Rank  1 2 3 4 5 6 7 8 9 10 11 11 11 12 13	State  New York California Illinois Michigan Pennsylvania Ohio New Jersey	Million metric tons CO2 31.7 26.9 21.6 18.2 18.0	State  New York California	Million metric tons CO2	State	Million metric	State	Million metric	State	Million metric	State	Million metric
3 4 5 6 7 8 9 10 11	California Illinois Michigan Pennsylvania Ohio	26.9 21.6 18.2				tons CO2	State	tons CO2	State	tons CO2	Otato	tons CO2
3 4 5 6 7 8 9 10 11	California Illinois Michigan Pennsylvania Ohio	26.9 21.6 18.2		21.4	Texas	235.8	Texas	223.0	Texas	185.3	Texas	669
3 4 5 6 7 8 9 10 11	Illinois Michigan Pennsylvania Ohio	21.6 18.2		20.5	Louisiana	106.8	California	181.3	Florida	89.5	California	324
4 5 6 7 8 9 10 11	Michigan Pennsylvania Ohio	18.2	Texas	14.1	California	60.9	Florida	120.4	Pennsylvania	66.5	Florida	229
5 6 7 8 9 10 11	Pennsylvania Ohio		Illinois	13.6	Pennsylvania	48.8	New York	77.6	Ohio	62.3	Pennsylvania	200
6 7 8 9 10 11	Ohio		Ohio	11.7	Indiana	42.9	Georgia	62.4	Indiana	59.2	Ohio	184
7 8 9 10 11		16.3	Pennsylvania	11.4	Ohio	36.0	Illinois	59.8	Kentucky	50.7	Louisiana	183
9 10 11 12		13.8	Michigan	10.6	Illinois	33.9	Ohio	57.8	Michigan	47.5	Illinois	166
9 10 11 12	Texas	11.8	New Jersev	9.5	Oklahoma	23.9	Pennsylvania	56.2	West Virginia	46.6	New York	164
10 11 12	Massachusetts	11.7	Massachusetts	7.5	Alaska	21.5	North Carolina	56.1	Missouri	45.6	Indiana	153
11 12	Minnesota	9.3	Minnesota	7.5 7.1	lowa	21.5		51.0	Alabama	43.5	Michigan	141
12		9.3 8.9		6.8			Virginia	47.0		39.9		
12	Wisconsin		Wisconsin		Michigan	17.9	Louisiana		Georgia		Georgia	125
13 1	Colorado	8.3	Florida	6.5	Alabama	17.4	Michigan	47.0	Illinois	37.8	North Carolina	111
	Indiana	7.7	Indiana	5.7	North Dakota	16.8	New Jersey	45.0	North Carolina	36.1	Kentucky	104
14	Georgia	7.1	Virginia	5.7	Minnesota	16.6	Tennessee	45.0	California	34.7	Missouri	101
15	Connecticut	6.8	Maryland	5.0	Kentucky	15.0	Washington	42.5	Arizona	34.5	Alabama	101
16	Missouri	6.1	North Carolina	4.9	Tennessee	13.5	Indiana	38.3	Wyoming	33.6	Virginia	94
17	Washington	5.8	Washington	4.8	Kansas	13.2	Arizona	37.7	Wisconsin	30.1	New Jersey	91
18	Virginia	5.7	Colorado	4.6	West Virginia	12.0	Missouri	37.2	Arkansas	27.4	Tennessee	88
19	Maryland	5.3	Georgia	4.4	Georgia	12.0	Alabama	36.2	Colorado	27.0	Oklahoma	86
20	North Carolina	4.9	Missouri	4.3	Colorado	11.8	Kentucky	33.8	Mississippi	26.5	Wisconsin	86
21	Utah	4.7	Connecticut	4.2	Florida	11.6	South Carolina	31.8	Louisiana	26.3	Arizona	83
22	lowa	4.6	Tennessee	3.9	Wyoming	11.4	Oklahoma	30.9	North Dakota	26.1	Colorado	82
23	Tennessee	3.9	lowa	3.6	Wisconsin	10.9	Colorado	30.5	New York	26.0	Minnesota	80
24	Kansas	3.7	Utah	3.4	Mississippi	10.9	Wisconsin	29.5	South Carolina	25.4	Washington	76
25	Oklahoma	3.7	Arizona	3.4	Washington	10.9	Minnesota	29.4	Oklahoma	25.3	West Virginia	74
26	Nevada	3.0	Arkansas	3.4	Virginia	10.8	Massachusetts	28.5	Tennessee	22.2	South Carolina	68
27	Oregon	3.0	Oklahoma	3.2	North Carolina	9.4	Maryland	27.5	Virginia	21.4	lowa	68
28	Maine	2.8	Kansas	2.8	New Jersey	9.3	Mississippi	23.5	Utah	20.9	Mississippi	63
29	Arizona	2.8	Oregon	2.6	Nebraska	9.0	Oregon	19.6	Kansas	19.7	Arkansas	60
30	Kentucky	2.7	Kentucky	2.6	New Mexico	8.9	Utah	19.5	lowa	19.3	Kansas	57
31	New Hampshire	2.5	Nevada	2.5	Arkansas	8.4	lowa	19.5	Minnesota	18.4	Massachusetts	56
32	Nebraska	2.4	Alaska	2.3	Missouri	8.3	Arkansas	19.4	Nebraska	18.4	Utah	55
33	Idaho	2.3	South Carolina	2.2	New York	8.2	Nevada	18.6	New Mexico	13.6	Wyoming	54.
34	New Mexico	2.3	Nebraska	2.2	South Carolina	7.3	Kansas	18.5	New Jersey	13.5	North Dakota	54
35		2.3 2.0										
36	Rhode Island South Carolina	2.0 1.9	Louisiana Alabama	2.1 2.1	Utah	6.5	New Mexico	15.6	Montana Washington	13.5 12.4	Maryland Nebraska	48
30					Arizona	4.6	Alaska	14.7				45
37	Arkansas	1.8	New Mexico	1.9	Oregon	4.5	Connecticut	14.4	Nevada	12.2	Alaska	43
38	Montana	1.8	Maine	1.8	Montana	4.4	Nebraska	13.6	Connecticut	9.2	New Mexico	42
39	Alabama	1.8	Montana	1.8	South Dakota	3.8	West Virginia	12.9	Oregon	9.2	Nevada	39
40	Alaska	1.7	Idaho	1.6	Delaware	3.6	Idaho	11.6	Maryland	8.3	Oregon	38
41	Louisiana	1.6	West Virginia	1.6	Idaho	3.3	Hawaii	11.4	Massachusetts	6.0	Connecticut	36
42	West Virginia	1.5	Mississippi	1.5	Nevada	3.1	North Dakota	8.9	Hawaii	5.3	Montana	29
43	Florida	1.4	New Hampshire	1.4	Massachusetts	3.1	Montana	7.9	Rhode Island	3.9	Idaho	21
44	Mississippi	1.4	North Dakota	1.3	Maryland	2.5	Maine	7.9	Alaska	2.9	Hawaii	18
45	Vermont	1.3	Wyoming	1.0	Connecticut	1.5	Wyoming	7.3	South Dakota	2.7	Maine	15
46	North Dakota	1.2	Vermont	0.9	Maine	1.4	New Hampshire	6.9	Idaho	2.5	South Dakota	15
47	South Dakota	1.0	Rhode Island	0.9	Hawaii	0.9	South Dakota	6.7	New Hampshire	1.9	New Hampshire	13
48	Wyoming	1.0	District of Columbia	0.9	New Hampshire	0.8	Delaware	5.4	Maine	1.6	Delaware	12
49	Delaware	0.9	South Dakota	0.9	Rhode Island	0.6	Rhode Island	3.8	Delaware	1.5	Rhode Island	11
50	District of Columbia	0.6	Delaware	0.8	Vermont	0.4	Vermont	2.9	Vermont	(s)	Vermont	5
51	Hawaii	(s)	Hawaii	0.4	District of Columbia	(s)	District of Columbia	1.0	District of Columbia	(5)	District of Columbia	2
	United States	313.3	United States	245.3	United States	954.4	United States	1.854.9	United States	1,414,1	United States	4,785

a U.S. total includes net imports of coal coke not allocated to the states.

— = No consumption. Where shown, (s) = Value less than 0.05 million metric tons.

Notes: · Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy and net interstate flow of electricity. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. · Totals may not equal sum of components due to independent rounding.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

## United States CO2 Emissions Tables

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total <sup>a</sup>
1960	925.7	646.5	1,343.1	2,915.3
1965	1,090.4	824.1	1,554.9	3,469.4
1970 1975	1,155.6	1,133.9	1,970.9 2,188.6	4,260.4
1975	1,194.0 1,462.4	1,044.6 1,058.2	2,168.6 2,242.9	4,427.2 4,763.5
1985	1,663.1	927.1	2,242.9	4,612.3
1990	1,819.4	1,027.1	2,183.3	5,029.8
1995	1,013.4	1,187.6	2,214.8	5,025.0 5,309.0
1996	1,906.7 1,992.3	1,209.9	2,304.3	5,309.0 5,506.5
1997	2,033.7	1,221.4	2,324.5	5,579.7
1998	2,049.2	1,195.7	2.369.3	5,614.1
1999	2,051.2	1,198.8	2,428.6 2,475.4	5,678.5
2000	2,146.9	1,246.6	2,475.4	5.868.9
2001	2,083.6	1,190.7	2,485.4	5,759.8
2002	2,086.1	1,231.8	2,476.8	5,794.7
2003	2,128.9	1,200.0	2,539.8	5,868.8 5,965.6
2004	2,142.5	1,206.3	2,539.8 2,616.8 2,627.1	5,965.6
2005	2,175.4	1,187.2	2,627.1	5,989.7
2006	2,139.3	1,169.1	2,600.9	5,909.3
2007	2,168.1	1,243.3	2,586.9 2,417.9	5,998.4
2008	2,134.1	1,252.1	2,417.9	5,804.1
2009 2010	1,878.0	1,231.6	2,281.9	5,391.5
2010	1,986.3	1,292.4	2,303.2	5,581.9
2011	1,875.2 1,657.9	1,313.2 1,371.4	2,254.3	5,442.7 5,223.5
2012	1,720.0	1,371.4	2,194.2 2,220.3	5,223.5 5,348.2
2013	1,715.8	1,407.9	2,250.8	5,404.2
2015	1,713.0	1,470.9	2,230.0	5,244.1
2016	1,484.0 1,357.6	1,481.8	2,289.2 2,311.5	5,150.9
2017	1,321.5	1,463.5	2,330.7	5,115.7
2018	1,265.5	1,626.5	2,376.5	5,268.5
2019	1.080.0	1,683.0	2,373.1	5,136.1
2020	1,080.0 877.9	1,652.6	2.042.8	4.573.3
2021	1,008.6	1,654.1	2,234.2	4,896.9
2022	945.3	1,742.3	2,249.9	4,937.5
2023	780.9	1,755.2	2,249.5	4,785.6
		,	,	,

 $<sup>^{\</sup>rm a}$  U.S. total includes industrial net imports of coal coke not allocated to the states.  $^{\rm b}$  Excludes supplemental gaseous fuels.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. • Totals may not equal sum of components

due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

# D

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	55.5	170.3	161.1	386.9
1965	33.4	213.1	175.4	421.9
1970	19.9	262.6	195.3	477.8
1975	6.0	266.4	177.6	450.0
1980	3.0	253.7	124.7	381.5
1985 1990	3.7	239.2 237.2	112.2	355.1 339.4
1990	3.0 1.7	237.2 262.3	99.2 97.2	339.4 361.1
1996	1.7	283.9	104.4	389.9
1997	1.5	270.0	100.0	371.5
1998	1.2	245.7	91.6	338.5
1999	1.2 1.3	255.7	102.4	359.4
2000	1.0	269.1	109.4	379.5 367.1
2001	1.0	258.3	107.8	367.1
2002	1.1	264.4	102.3	367.8
2003	1.2	275.7	109.0	385.8
2004	1.1	263.8 261.7	107.4 102.1	372.3 364.7
2005 2006	0.8 0.6	236.6	85.8	304.7
2007	0.6	250.0 256.1	87.2	323.0 344.0
2008	——————————————————————————————————————	265.1	92.0	357.1
2009	_	258.9	79.6	338.5
2010	_	258.5	77.1	335.6
2011	_	254.9	71.0	325.9
2012	_	224.8	61.2	286.0
2013	_	266.2	66.1	332.3
2014	_	277.6	71.2	348.8
2015 2016	_	252.9 238.7	69.4 59.8	322.3 298.5
2016		230.7 242.2	59.6	301.5
2017		274.4	59.5 69.4	343.8
2019	<u> </u>	274.4	70.4	346.5
2020	_	257.2	61.6	318.9
2021	_	259.3	66.0	325.3
2022	<del>-</del>	272.9	67.6	340.5
2023	_	248.0	65.2	313.3

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions data are estimates from fossil fuels primary energy consumption, excluding renewable energy. The data represent CO2 emissions where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other sectors.  $\cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation

methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	Cour	Hatarar gus	i cuolcum	Total
1960	38.6	56.0	91.8	186.4
1965	25.2	78.6	103.8	207.7
1970	15.7	130.1	116.7	262.5
1975	14.0	135.5	98.4	247.9
1980	11.2 13.2	139.5	96.8	247.6
1985	13.2	131.0	79.0	223.2
1990	11.9	141.4	72.1	225.4
1995	11.1	164.0	55.8	230.9
1996	11.5	171.1	57.1	239.7
1997	12.2	174.2	53.5	239.9
1998 1999	9.6 9.7	163.0 164.9	50.5 50.7	223.1 225.3
2000	9.7 8.2	171.9	58.3	225.3
2000	8.2 8.4	163.8	56.5 57.1	236.3
2002	8.4	170.2	52.3	230.8
2003	7.9	172.6	60.8	241.4
2004	9.8	169.6	58.5	237.9
2005	9.1	162.7	55.1	227.0
2006	6.2	153.4	47.7	207.3
2007	6.7	163.4	46.5	216.7
2008	7.6	170.8	47.2	225.6
2009	6.9	168.9	47.2	223.1
2010	6.6	167.7	46.3	220.6
2011	5.8	170.6	45.2	221.6
2012	4.1	156.9	39.9	200.9
2013	3.9 3.8	179.2	39.5	222.6
2014	3.8	189.2	40.8	233.8
2015 2016	3.0 2.3	175.4 170.5	61.1 58.7	239.4 231.5
2017	2.3	170.5	50.7 57.7	231.5
2017	1.8	173.5	57.7 59.3	253.2
2019	1.6	192.7	60.1	253.6 254.8
2020	1.4	173.8	57.7	232.9
2021	1.4	180.6	62.8	244.8
2022	1.4	192.7	66.4	260.6
2023	1.1	183.0	61.2	245.3
-				

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The data represent CO2 emissions where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other sectors. Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

# D

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total <sup>a</sup>
1960	422.4	306.5	328.0	1,056.3
1965	476.6	306.5 377.2	376.5	1,228.1 1,320.5 1,197.6
1970	431.9	487.4	407.8	1,320.5
1975	338.0	439.8	418.2	1,197.6
1980	291.9	429.1	463.2	1,180.2 975.9 1,061.7 1,100.3 1,133.6
1985	258.8	362.1 435.9	356.5	9/5.9
1990 1995	258.1 234.0	435.9 493.5	367.1 365.8	1,001./
1996	234.0 227.9	495.5 510.0	393.1	1,100.3 1 133 6
1997	224.2	515.7	395.2	1,140.3
1998	211.4	503.2	378.7	1,101.0
1999	205.1	481.7	388.8	1 082 2
2000	211.6	488.1	370.3	1,077.5
2001	205.1	442.9	400.9	1,052.2
2002	187.7	453.3	386.9	1,077.5 1,052.2 1,034.8 1,030.9 1,068.8
2003	189.8	439.8	395.6	1,030.9
2004 2005	190.1 182.6	443.5 409.9	419.5 416.8	1,08.8
2006	179.7	409.9 407.2	410.8	1,014.3 1,021.6 1,007.3 974.0
2007	175.0	416.2	413.2	1,021.0
2008	168.1	416.5	384.8	974.0
2009	131.1	392.2	333.9	854.5
2010	152.2	392.2 427.2	344.2	854.5 922.9
2011	146.7	438.3	342.9	929.1
2012	142.0	454.4	344.6	941.4
2013	144.8	470.3 486.4	348.0 344.1	961.1 971.5
2014	143.5	486.4	344.1	9/1.5
2015 2016	129.6 113.5	477.2 486.5	340.8 345.7	945.6 943.6
2017	112.5	400.3 400.0	343.7	961.5
2017	110.7	499.0 529.7	333.2 361.0	998.4
2019	104.8	537.1	363.5	1.003.0
2020	88.3	527.4	335.1	949.3
2021	97.3	535.4	345.7	972.8
2022	92.6	544.3	325.0	955.6
2023	85.4	547.8	324.9	954.4

<sup>&</sup>lt;sup>a</sup> U.S. total includes coal coke net imports not allocated to the states.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The data represent CO2 emissions where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other

sectors. · Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	7.2	19.0	720.7	746.9
1965	1.5	27.5	845.1	874.1
1970	0.7	39.3	1.091.8	1,131.7
1975	0.1	31.5	1.257.0	1,288.6
1980	_	34.5	1.360.4	1.394.9
1985	_	27.6	1 302 5	1 //20 1
1990	_	36.2	1,547.4 1,637.3 1,686.3 1,703.6 1,747.1	1,583.6 1,675.9 1,725.6 1,745.5 1,782.4
1995	<del>-</del>	38.6	1,637.3	1,675.9
1996	_	39.3	1,686.3	1,725.6
1997	<del>-</del>	41.9 35.3	1,703.6	1,745.5
1998	_	35.3	1,/4/.1	1,/82.4
1999	<del>-</del>	35.8	1,792.8	1,828.6
2000 2001	_	35.7	1,848.7 1,821.0	1,884.5 1,855.8
2001	_	34.8 37.1	1,858.4	1,895.5
2002		33.3	1,000.4	1,090.0
2003	_	32.0	1,079.5	1,912.6 1,967.5
2005	_	33.1	1,879.3 1,935.5 1,955.0	1,988.1
2006	_	33.2	1,986.3	2 019 5
2007	<del>_</del>	35.3	1.987.0	2.022.2
2008	_	36.8	1,986.3 1,987.0 1,855.5	2,022.2 1,892.3 1,827.0
2009	_	38.0	1,789.0	1.827.0
2010	_	38.3	1,804.2	1,842.4 1,808.4
2011	_	39.1	1,769.3	1,808.4
2012	_	41.5	1,730.2	1.771.7
2013	_	47.1	1,633.3 1,789.0 1,804.2 1,769.3 1,730.2 1,744.3 1,769.4	1,791.4 1,809.8
2014	_	40.4	1,769.4	1,809.8
2015	_	39.5	1,794.2 1,825.8	1,833.7
2016	<del>-</del>	40.1	1,825.8	1,865.9
2017	_	42.4	1,841.6	1,884.0
2018	_	50.9	1,864.6	1,915.5
2019	_	58.9	1,862.9	1,921.8
2020	_	58.7	1,572.3	1,631.0
2021 2022	_	65.0 72.1	1,741.9 1,770.4	1,806.9 1,842.5
2023	_	72.1 71.4	1,770.4	1,842.5 1,854.9
2023	_	71.4	1,703.3	1,004.9

burned to generate electricity, although the electricity might be sold to ultimate customers in other sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

 <sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.
 <sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

c Excludes biofuels.

<sup>-</sup> = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The data represent CO2 emissions where fossil fuels are

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, United States (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	402.0	94.6	41.5	538.1
1965	553.7	127.7	54.2	735.6
1970	687.5	214.6	159.4	1,061.4
1975	836.0	171.3	237.5	1,244.8
1980	1,156.4	201.4	197.7	1,555.4 1,636.5 1,820.3 1,947.8 2,020.4
1985	1,387.4	167.1	82.0	1,636.5
1990 1995	1,546.4	176.3 229.2	97.5 58.7	1,820.3
1995	1,659.9 1,751.4	229.2	63.4	1,947.0 2 020 <i>4</i>
1997	1,795.8	219.7	72.2	2,020.4
1998	1,827.0	248.5	101.3	2,176.7
1999	1,835.1	260.7	93.8	2,189.6
2000	1,926.1	281.8	88.5	2,296.4
2001	1,869.1	291.0	98.6	2,258.7 2,272.7
2002	1,888.9	306.9	76.9	2,272.7
2003 2004	1,930.1 1,941.6	278.7 297.4	95.1 95.8	2,303.9 2,334.8
2004	1,982.9	319.7	98.0	2,334.6
2006	1,952.8	338.7	53.3	2,400.5 2,344.7 2,411.0 2,359.7
2007	1.985.7	372.3	53.0	2,411.0
2008	1,958.4	362.9	38.4	2,359.7
2009	1,740.0 1,827.6	373.5	32.2	2,145.7 2,259.6 2,158.9
2010	1,827.6	400.6	31.4	2,259.6
2011 2012	1,722.7 1,511.8	410.4 493.8	25.8 18.3	2,158.9 2,023.9
2012	1,511.6	493.6	22.4	2,023.9 2,038.8
2013	1,568.5	444.0	25.3	2,038.8 2,037.8
2015	1,351.5	525.9	23.7	1.901.0
2016	1,241.9	545.9	21.4	1,809.2
2017	1,207.0	506.4	18.9	1.732.3
2018	1,153.0	578.9	22.2	1,754.2
2019	973.6	617.8	16.2	1,607.6
2020 2021	788.1 910.0	635.5 613.8	16.2 17.7	1,439.8 1,541.4
2021	851.3	660.2	20.5	1,541.4 1,532.0
2023	694.4	705.0	14.7	1,414.1
	<b>~~</b>			.,

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The data represent CO2 emissions where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other sectors. Totals may not equal sum of components due to independent rounding. The electric power

sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

#### State CO2 Emissions Tables

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	36.8	9.9	15.6	62.4
1965	49.9	12.3	17.2	79.4 102.6
1970	63.3	16.0	23.3	102.6
1975	60.1	14.1	33.5	107.7
1980	62.3	14.5	30.4	107.1
1985	62.7	11.8	27.2	101.7
1990	64.6	13.1	32.1	109.8
1995	78.4	17.2	35.4	131.0 137.3
1996	84.3	17.5	35.4	137.3
1997	82.1	17.5	34.6	134.2
1998	81.2	17.7	34.7	133.6
1999	82.3	18.1	35.5	135.9
2000	85.9	19.1	37.3	142.4 133.3
2001	80.1	17.9	35.3	133.3
2002	80.5	20.4	37.5	138.4
2003	83.2 81.3	18.9	37.8	139.9
2004	81.3	20.6	40.2	142.1
2005	84.9	19.1	39.7	143.6
2006	84.5	21.1	40.3	145.8 147.3
2007	84.6	22.6	40.1	147.3
2008	80.3	21.7	37.4	139.4
2009	60.1	24.5	35.1	119.8 132.5 129.5
2010	68.5	28.7	35.4	132.5
2011	62.0	32.1	35.4	129.5
2012	52.1	35.7	34.9	122.6
2013	53.8	32.9	33.7	120.4
2014	54.8	34.2	33.6	122.6
2015	47.1	36.7 37.4	35.1	118.9 113.5
2016	39.1	37.4	37.1	113.5
2017	36.1	35.6	36.5	108.2
2018	35.9	40.3	35.8	112.0
2019	30.2	39.1	36.6	106.0
2020	24.5 29.6 28.5	37.3	36.3	98.1
2021	29.6	38.6	40.2	108.4 109.5
2022	28.5	41.2	39.8	109.5
2023	21.5	40.5	39.0	101.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.4	2.2	0.5	3.1 3.4 4.3 3.8 3.6 2.9 3.1 3.3 3.7 3.5 3.3 3.7 3.5 2.5 2.4 2.5 2.4 2.5 2.9 2.4 1.8 2.2 2.4 1.9 1.7 2.3 2.0 1.9 2.1 2.0 1.8
1965	0.1 0.2	2.6 3.0	0.6 1.1	3.4 4.2
1970 1975	(s)	29	0.9	3.8
1980	(s) 0.1	2.9 2.9 2.4 2.5 2.7	0.6	3.6
1985	0.1	2.4	0.5	2.9
1990	(s) (s) (s)	2.5	0.6	3.1
1995	(s)	2.7	0.6	3.3
1996	(s)	3.1	0.6	3.7
1997	(s)	2.7	0.7	3.4
1998	(s)	2.6 2.3	0.6 1.0	3.1 2.2
1999 2000	(s)	2.3 2.6	1.0	ა.ა ვ 7
2001	(3)	2.7	0.8	3.7
2002	(s) (s) (s) (s)	2.5	0.7	3.3
2002 2003 2004	(s)	2.5 2.5	0.5	3.1
2004	(s)	2.4	0.5 0.6	3.0
2005	(s) (s) (s) (s)	2.3	0.4	2.7
2006 2007	(s)	2.1 1.9 2.0	0.4 0.4 0.5	2.5
2007	(s)	1.9	0.4	2.4
2008		2.0	0.5	2.5
2009 2010	_	2.0	U.5	2.5
2010		2.3	0.0	2.9
2012	_	1.5	0.4	1.8
2013	_	1.9	0.3	2.2
2011 2012 2013 2014	_	2.0 2.3 2.0 1.5 1.9 2.1 1.8 1.5	0.5 0.6 0.4 0.3 0.3 0.3 0.3 0.3	2.4
2015 2016	_	1.8	0.3	2.1
2016	_	1.5	0.3	1.9
2017 2018	_	1.4	0.3	1.7
2018	_	1.9 1.7	0.4 0.4	2.3
2019	_	1./	0.4	2.0
2020	_	1.5 1.8	0.4	1.9 0.1
2021	_	1.6	0.3 n a	2.1 2.0
2021 2022 2023		1.7	0.3 0.3 0.3	1.8
_0_0		1.0	0.0	110

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.3	1.0	0.5 0.5	1.8
1965 1970 1975	0.1	1.8	0.5	1.8 2.4 2.9 2.7 2.6 2.5 2.4 2.0 2.2 2.4 1.9 2.2 2.3 2.2 2.0 2.1 2.2 1.9
1970	0.1	2.0 1.8	0.8 0.8	2.9
1975	(s) 0.4 0.2 0.2	1.6	0.6	2.1 2.6
1985	0.4 0.2	1.0	0.7	2.0 2.5
1990	0.2	1.3	0.9	2.5
1995	(c)	1.4	0.5	2.4
1996	(s) 0.1	1.6	0.5	22
1997	0.2	1.8	0.5	2.4
1998	(s)	1.4	0.5	1.9
1999	(s)	1.5	0.6	2.2
2000	0.2 (s) (s) 0.1	1.4	0.7	2.3
2001	(s)	1.4	0.7	2.2
2002	(s)	1.4	0.6	2.0
2003	(s)	1.4	0.7	2.1
2004	(s)	1.4	0.7	2.2
2005	(s) (s)	1.4	0.5	1.9
2006	0.1	1.3	0.8 0.7	2.2
2007	(s)	1.3	0.7	2.0 2.0
2008	_	1.4	0.6	2.0
2009	_	1.3 1.5 1.4	0.6 0.7	1.9
2010 2011	_	1.5	0.7	2.1
2011	_	1.4	0.7	1.9 2.1 2.1 1.8
2012	<del>-</del>	1.2	0.6	1.8
2012 2013 2014	_	1.4 1.5	0.5 0.4	1.8
2014	<del>-</del>	1.5	0.4	1.9
2016		1.3	0.8 0.9	2.1
2017		1.2	0.9	2.2
2018	<u> </u>	1.4	0.0	2.1
2019	_	1.4	0.9	2.0
2020		1.2	0.8 0.9 0.9 0.9	1.8 1.9 2.1 2.2 2.1 2.3 2.2 2.0 2.3 2.5 2.1
2020 2021 2022	_	1.4	0.9	2.3
2022	_	1.4	1.1	2.5
2023	_	1.3	0.8	2.1
			0.0	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	19.2	5.8	2.8 2.7	27.8
1965	21.3	7.0	2.7	30.9 39.2
1970	26.7	9.1	3.4	39.2
1975	21.9	8.2	6.7	36.8 31.4 23.1
1980	17.2	9.0	5.2 2.7	31.4
1985	13.0	7.3	2.7	23.1
1990	13.4	8.2	3.2	24.7
1995	13.4	11.5	3.2	28.1
1996 1997	13.9 13.7	11.4 11.2	3.8	29.1
1997	13.7	11.1	3.2 3.2 3.8 3.4 2.9	28.1 29.1 28.3 25.9
1999	11.3	11.7	2.9	26.0
2000	10.9	11.5	2.0	25.0 25.4
2001	9.5	8.9	3.2	21.6
2002	8.6	9.2 9.2 9.5 8.9	3.0 2.9 3.2 3.7	25.4 21.6 21.5 22.9 23.3 21.9
2003 2004	9.0	9.2	4.6	22.9
2004	9.3	9.5	4.5	23.3
2005	9.0 9.3 8.4	8.9	4.6 4.5 4.7	21.9
2006	8.0 7.6	9.0 8.9	4.3 4.0 4.2	21.2 20.5 20.2
2007	7.6	8.9	4.0	20.5
2008	7.5	8.5	4.2	20.2
2009	5.6 6.4	7.9 8.5 9.0	3.1	16.5
2010	6.4	8.5	3.0	17.9
2011 2012	6.1	9.0	3.3	18.3
2012	6.8	10.0	3.6	20.4
2013 2014	6.1 6.8 7.1 8.2 6.5	10.4	3.1 3.0 3.3 3.6 2.9 2.7	16.5 17.9 18.3 20.4 20.5 21.6
2014	8.2	10.7	2./	21.6
2015	0.0	10.6 10.9	3.1	20.2 20.3 20.1
2016	6.0 5.9 5.6	11.0	3.4 3.2	20.3
2017	5.9	11.0	3.2	20.1
2019	3.6 4.6	12.1 12.0	3.2 3.1	20.9 19.7
2020	3.4	11.5	3.1	18.1
2021	3.7	12.8	3.2 3.2 3.2 3.1	19.6
2022	3.1	11.7	3.2	18.0
2021 2022 2023	3.1 2.4	11.9	3.1	19.6 18.0 17.4
			•	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1000	0.0	0.4	44 7	40.5
1960 1965	0.3 0.1	0.4 0.7	11.7 13.4	12.5 14.1
1970	(s)	1.1	13.4 17.7	18.8
1975	(s) (s)	0.9 0.9	24.8 23.9	18.8 25.7 24.8
1980		0.9	23.9	24.8
1985	_	0.6	23.0	23.7
1990	_	0.8	27.4	28.2
1995 1996	_	1.1 1.1	31.0 30.4	32.0 21.4
1990	=	1.1	30.4 20.0	31.4
1998	_	1.1	29.9 30.6	28.2 32.0 31.4 31.1 31.7
1999	<del>-</del>	1.2	30.8	32.0
2000	_	1.3	30.8 32.4	33.7
2001	_	1.1	30.4	31.5
2001 2002 2003 2004	<del>-</del>	1.1 1.2 1.0 0.9	30.4 32.2 31.7 34.2	33.4
2003	_	1.0	31./	32./
2004	<del>-</del>	0.9	34.2 34.0	33.7 31.5 33.4 32.7 35.1 34.8 35.4 35.7
2006		0.8	34.0 34.6	34.0
2007	_	0.9	34.6 34.9	35.7
2008	_	0.9	32.0	32.9 31.9 32.2 32.2
2008 2009	_	0.9 1.0	30.9	31.9
2010	_	1.2 1.3	31.0	32.2
2011	<del>-</del>	1.3	30.9	32.2
2012	_	1.4	30.3	31.7
2013 2014	_	1.2 1.0	29.9 30.0	31.1 31.1
2015		1.0	30.0	32.1
2016	_	1.2 1.2	32.4	32.1 33.6
2017	<del>-</del>	1.2	32.1	33.3
2018	_	1.4	31.3	33.3 32.6
2019	<del>-</del>	1.3	32.3	33.6 33.3 37.2 36.8 36.2
2020	<del>-</del>	1.4	32.0	33.3
2021	_	1.4	35.8	37.2
2022 2023	_	1.6 1.4	35.2 34.8	36.8
2023	<del>-</del>	1.4	34.8	30.2

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Alabama (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	16.7	0.5	(s)	17.2
1965 1970	28.3 36.2	0.3 0.8	0.3	28.6 37.3
1970	36.2 38.1	0.8	0.3	3/.3 20.7
1980	44.6	0.3	0.3	38.7 44.7
1985	49.4	0.1	(s)	49.5
1990	51.0	0.3	(s) 0.1	51.4
1995	65.0	0.5	0.1	65.6
1996	70.3	0.4	0.1	70.8
1997	68.3	0.6 1.5	0.1 0.2	69.0 71.1
1998	69.4	1.5	0.2	71.1
1999	70.9	1.4	0.1	72.4
2000	74.9	2.3	0.2 0.2	77.4
2001	70.5 71.9	3.8	0.2	74.5
2002 2003	71.9 74.2	6.1 4.7	0.2 0.2	78.2 79.1
2003	74.2 72.0	6.4	0.2 0.1	79.1 79.5
2004	72.0 76.5	5.7	0.1	78.5 82.3
2006	76.4	7.9	0.1	84.4
2007	77.0	9.6	0.1	86.7
2008	72.8	9.0	0.1	81.8
2009	54.6	12.3	0.1	67.0
2010	62.1	15.3	0.1	77.4
2011	56.0	18.6	0.1	74.6
2012	45.3	21.6	0.1	67.0
2013	46.7	18.0	(s) 0.1	64.7
2014	46.7	18.8	0.1	65.5
2015 2016	40.6 33.0	21.7 22.5	0.1	62.4
2016	30.2	22.5	(s) (s) 0.1	55.6 51.0
2017	30.2	23.5	(8)	53.9
2019	25.7	23.3	0.1 (e)	48.5
2020	21.1	21.6	(s) (s)	42.7
2021	25.9	21.3	(s)	47.2
2022	25.3	24.8	(s) (s) (s)	50.2
2023	19.1	24.4	(s)	43.5
			(-)	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         Total           1960         0.7         0.1         3.3         4.0           1865         0.9         0.4         4.4         5.7           1870         1.2         3.4         6.7         11.4           1890         0.4         8.0         9.0         17.4           1885         1.1         11.1         11.1         16.8         29.1           1890         1.2         16.9         16.0         34.1           1895         1.2         22.3         16.7         40.2           1896         1.1         22.9         17.4         41.3           1897         1.1         22.9         17.4         41.3           1897         1.1         22.9         17.4         41.3           1898         1.6         22.4         18.5         42.4           1898         1.6         22.4         18.5         42.4           1899         1.6         22.1         18.9         43.8           2001         1.5         22.1         19.7         43.1           2002         1.6         22.1         20.2 <th></th> <th></th> <th></th> <th></th> <th></th>					
1960	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1970     1,2     3,4     6,7     11,4       1975     1,4     4,4     8,6     14,5       1980     0,4     8,0     9,0     17,4       1985     1,1     11,1     11,1     16,0     34,1       1990     1,2     16,9     16,0     34,1       1995     1,2     2,2     3     16,7     40,2       1996     1,1     22,9     17,4     41,3       1997     1,1     2,9     18,3     41,4       1989     1,6     22,4     18,5     42,4       1999     1,6     21,8     19,7     43,1       2000     1,6     22,6     19,6     43,8       2001     1,5     21,3     20,0     42,8       2003     1,2     21,6     20,4     43,3       2004     43,3     20,4     43,3       2005     1,3     22,6     23,8     47,8       2006     1,4     19,6     24,6     24,6     48,6       2007     1,3     19,3     23,2     43,8       2009     1,4     19,9     18,3     37,5       2010     1,4     17,9     18,3     37,5       2011     1,5			3		
1970     1,2     3,4     6,7     11,4       1975     1,4     4,4     8,6     14,5       1980     0,4     8,0     9,0     17,4       1985     1,1     11,1     11,1     16,0     34,1       1990     1,2     16,9     16,0     34,1       1995     1,2     2,2     3     16,7     40,2       1996     1,1     22,9     17,4     41,3       1997     1,1     2,9     18,3     41,4       1989     1,6     22,4     18,5     42,4       1999     1,6     21,8     19,7     43,1       2000     1,6     22,6     19,6     43,8       2001     1,5     21,3     20,0     42,8       2003     1,2     21,6     20,4     43,3       2004     43,3     20,4     43,3       2005     1,3     22,6     23,8     47,8       2006     1,4     19,6     24,6     24,6     48,6       2007     1,3     19,3     23,2     43,8       2009     1,4     19,9     18,3     37,5       2010     1,4     17,9     18,3     37,5       2011     1,5	1960	0.7	0.1	3.3	4.0
1970     1,2     3,4     6,7     11,4       1975     1,4     4,4     8,6     14,5       1980     0,4     8,0     9,0     17,4       1985     1,1     11,1     11,1     16,0     34,1       1990     1,2     16,9     16,0     34,1       1995     1,2     2,2     3     16,7     40,2       1996     1,1     22,9     17,4     41,3       1997     1,1     2,9     18,3     41,4       1989     1,6     22,4     18,5     42,4       1999     1,6     21,8     19,7     43,1       2000     1,6     22,6     19,6     43,8       2001     1,5     21,3     20,0     42,8       2003     1,2     21,6     20,4     43,3       2004     43,3     20,4     43,3       2005     1,3     22,6     23,8     47,8       2006     1,4     19,6     24,6     24,6     48,6       2007     1,3     19,3     23,2     43,8       2009     1,4     19,9     18,3     37,5       2010     1,4     17,9     18,3     37,5       2011     1,5	1965	0.9	0.4	4.4	5.7
1975     1,4     4,4     8,6     14,5       1980     0,4     8,0     9,0     17,4       1985     1,1     11,1     11,1     18,8     29,1       1995     1,2     12,9     16,0     34,1       1996     1,1     22,9     17,4     41,3       1997     1,1     21,9     18,3     41,4       1998     1,6     22,4     18,5     42,4       1999     1,6     22,4     18,5     42,4       1999     1,6     22,6     19,6     43,8       2000     1,6     22,6     19,6     43,8       2002     1,6     21,7     19,7     43,0       2003     1,2     21,3     20,0     42,8       2002     1,6     21,7     19,7     43,0       2003     1,2     21,6     20,4     43,3       2004     1,3     21,3     23,9     46,5       2005     1,3     22,8     23,8     47,8       2006     1,4     19,6     24,8     45,6       2007     1,3     19,3     23,2     43,8       2009     1,4     17,9     18,3     37,5       2010     1,4     17,9	1970	1.2	3.4	6.7	11.4
1985     1.1     11.1     16.8     29.1       1990     1.2     16.9     16.0     34.1       1995     1.2     22.3     16.7     40.2       1996     1.1     22.9     17.4     41.3       1997     1.1     21.9     18.3     41.4       1998     1.6     22.4     18.5     42.4       2000     1.6     21.8     19.7     43.1       2001     1.5     21.3     20.0     42.8       2001     1.5     21.3     20.0     42.8       2002     1.6     21.7     19.7     43.0       2003     1.2     21.6     20.4     43.3       2004     43.3     21.3     23.9     46.5       2005     1.3     22.6     23.8     47.8       2006     1.3     22.6     23.8     47.8       2007     1.3     19.6     24.6     5.6       2008     1.4     19.6     24.6     5.6       2009     1.4     17.9     18.3     37.5       2010     1.4     17.9     18.3     37.5       2011     1.5     1.7     17.7     18.1     1.3     37.3       2012     1.	1975	1.4	4.4	8.6	14.5
1990     1.2     16.9     16.0     34.1       1995     1.2     22.3     16.7     40.2       1996     1.1     22.9     17.4     41.3       1997     1.1     21.9     18.3     41.4       1998     1.6     22.4     18.5     42.4       1999     1.6     21.8     19.7     43.1       2000     1.6     22.6     19.6     43.8       2001     1.5     21.3     20.0     42.8       2002     1.6     21.7     19.7     43.0       2003     1.2     21.6     20.4     43.3       2004     1.3     21.3     23.9     45.5       2005     1.3     22.6     23.8     47.8       2006     1.4     19.6     24.6     45.6       2007     1.3     19.3     23.2     43.8       2008     1.4     19.9     20.0     39.2       2009     1.4     17.9     18.3     37.5       2010     1.5     17.7     18.1     37.3       2011     1.5     17.7     18.1     13.3     37.5       2012     1.5     18.1     16.8     36.4       2013     1.4	1980	0.4	8.0	9.0	17.4
1997     1.1     21.9     18.3     41.4       1998     1.6     22.4     18.5     42.4       1999     1.6     21.8     19.7     43.1       2000     1.6     22.6     19.6     43.8       2002     1.6     22.7     19.7     49.0       2003     1.2     21.6     20.4     43.3       2004     1.3     21.3     23.9     46.5       2005     1.3     22.6     23.8     47.8       2006     1.4     19.6     24.6     45.6       2007     1.3     19.3     23.2     43.8       2008     1.4     17.9     20.0     39.2       2009     1.4     17.9     18.3     37.5       2010     1.4     17.9     18.3     37.5       2011     1.5     18.1     16.8     36.4       2012     1.5     18.1     16.8     36.4       2013     1.4     17.7     17.7     18.1     16.8     36.4       2014     1.5     18.1     16.8     36.4     37.3       2015     1.9     17.1     16.1     35.0     34.3       2015     1.9     17.1     16.1     35.0	1985	1.1	11.1	16.8	29.1
1997     1.1     21.9     18.3     41.4       1998     1.6     22.4     18.5     42.4       1999     1.6     21.8     19.7     43.1       2000     1.6     22.6     19.6     43.8       2002     1.6     22.7     19.7     49.0       2003     1.2     21.6     20.4     43.3       2004     1.3     21.3     23.9     46.5       2005     1.3     22.6     23.8     47.8       2006     1.4     19.6     24.6     45.6       2007     1.3     19.3     23.2     43.8       2008     1.4     17.9     20.0     39.2       2009     1.4     17.9     18.3     37.5       2010     1.4     17.9     18.3     37.5       2011     1.5     18.1     16.8     36.4       2012     1.5     18.1     16.8     36.4       2013     1.4     17.7     17.7     18.1     16.8     36.4       2014     1.5     18.1     16.8     36.4     37.3       2015     1.9     17.1     16.1     35.0     34.3       2015     1.9     17.1     16.1     35.0	1990	1.2	16.9	16.0	34.1
1997     1.1     21.9     18.3     41.4       1998     1.6     22.4     18.5     42.4       1999     1.6     21.8     19.7     43.1       2000     1.6     22.6     19.6     43.8       2002     1.6     22.7     19.7     49.0       2003     1.2     21.6     20.4     43.3       2004     1.3     21.3     23.9     46.5       2005     1.3     22.6     23.8     47.8       2006     1.4     19.6     24.6     45.6       2007     1.3     19.3     23.2     43.8       2008     1.4     17.9     20.0     39.2       2009     1.4     17.9     18.3     37.5       2010     1.4     17.9     18.3     37.5       2011     1.5     18.1     16.8     36.4       2012     1.5     18.1     16.8     36.4       2013     1.4     17.7     17.7     18.1     16.8     36.4       2014     1.5     18.1     16.8     36.4     37.3       2015     1.9     17.1     16.1     35.0     34.3       2015     1.9     17.1     16.1     35.0	1995	1.2	22.3	16.7	40.2
1998       1.6       22.4       18.5       42.4         1999       1.6       21.8       19.7       43.1         2000       1.6       22.6       19.6       43.8         2001       1.5       21.3       20.0       42.8         2002       1.6       21.7       19.7       43.0         2003       1.2       21.6       20.4       43.3         2004       1.3       21.3       23.9       46.5         2005       1.3       21.3       23.9       46.5         2006       1.4       19.6       24.6       45.6         2007       1.3       19.3       23.2       43.8         2008       1.4       17.9       18.3       37.5         2010       39.2       20.0       39.2         2010       1.4       17.9       18.3       37.5         2011       1.5       1.7       17.7       18.1       18.5       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.7       17.1       15.6       34.3         2014       1.7       17.1       15.6       34.3 <td>1996</td> <td>1.1</td> <td>22.9</td> <td>17.4</td> <td>41.3</td>	1996	1.1	22.9	17.4	41.3
1999     1.6     21.8     19.7     43.1       2000     1.6     22.6     19.6     43.8       2002     1.6     21.7     19.7     43.0       2003     1.2     21.6     20.4     43.2       2004     1.3     21.3     23.9     46.5       2005     1.3     22.6     23.8     47.8       2006     1.4     19.6     24.6     45.6       2007     1.3     19.3     23.2     43.8       2008     1.4     17.9     20.0     39.2       2009     1.4     17.9     18.3     37.5       2011     1.5     17.7     18.1     37.3       2012     1.5     18.1     16.8     34.4       2013     1.4     17.3     15.6     34.3       2014     1.7     17.1     15.3     34.1       2015     1.9     17.1     16.1     35.0       2016     1.6     16.9     14.9     33.4       2017     1.6     17.6     14.6     33.7       2018     1.7     17.6     15.1     34.3       2019     1.7     17.6     15.1     34.3       2020     1.8     19.1	1997	1.1	21.9 22.4	10.3 18.5	41.4 42.4
2000       1.6       22.6       19.6       43.8         2001       1.5       21.3       20.0       42.8         2002       1.6       21.7       19.7       43.0         2003       1.2       21.6       20.4       43.3         2004       1.3       21.3       23.9       46.5         2005       1.3       22.6       23.8       47.8         2006       1.4       19.6       24.6       45.6         2007       1.3       19.3       23.2       43.8         2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.9       18.3       37.5         2010       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.7       17.1       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.1       35.0         2016       1.6       16.9       14.9       33.4	1990	1.0	21.4	10.5	42.4 43.1
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2000	1.6	22.6	19.6	43.8
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2001	1.5	21.3	20.0	42 8
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2002	1.6	21.7	19.7	43.0
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2003	1.2	21.6	20.4	43.3
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2004	1.3	21.3	23.9	46.5
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2005	1.3	22.6	23.8	47.8
2008       1.4       17.9       20.0       39.2         2009       1.4       17.9       18.3       37.5         2010       1.4       17.4       18.5       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       15.3       34.1         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8	2006	1.4	19.6	24.6	45.6
2008     1.4     17.9     18.3     37.5       2010     1.4     17.9     18.3     37.3       2011     1.5     17.7     18.1     37.3       2012     1.5     18.1     16.8     36.4       2013     1.4     17.3     15.6     34.3       2014     1.7     17.1     15.3     34.1       2015     1.9     17.1     16.1     35.0       2016     1.6     16.9     14.9     33.4       2017     1.6     17.6     14.6     33.7       2018     1.7     17.7     15.2     34.5       2019     1.7     17.6     15.1     34.5       2020     1.8     19.1     15.1     36.1       2021     1.8     20.2     17.8     39.8       2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2007	1.3	19.3	23.2	43.8
2009       1.4       17.9       18.3       37.3         2010       1.4       17.7       18.1       37.3         2011       1.5       17.7       18.1       37.3         2012       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2008		17.9	20.0	39.2
2010       1.4       17.7       18.1       37.3         2011       1.5       18.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2009	1.4	17.9 17.4	18.3 19.5	37.5 27.2
2011       1.5       17.1       16.8       36.4         2013       1.4       17.3       15.6       34.3         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2010	1.4	17.4	10.5	37.3 37.3
2012       1.5       10.1       10.5       30.4         2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2012	1.5	17.7	16.1	36.4
2014       1.7       17.1       15.3       34.1         2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2013	1.0	17.3	15.6	34.3
2015       1.9       17.1       16.1       35.0         2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2014	1.7	17.1	15.3	34.1
2016       1.6       16.9       14.9       33.4         2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2015	1.9	17.1	16.1	35.0
2017       1.6       17.6       14.6       33.7         2018       1.7       17.7       15.2       34.5         2019       1.7       17.6       15.1       34.3         2020       1.8       19.1       15.1       36.1         2021       1.8       20.2       17.8       39.8         2022       1.8       22.4       18.0       42.1         2023       1.8       22.9       18.5       43.2	2016	1.6	16.9	14.9	33.4
2018     1.7     17.7     15.2     34.5       2019     1.7     17.6     15.1     34.3       2020     1.8     19.1     15.1     36.1       2021     1.8     20.2     17.8     39.8       2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2017	1.6	17.6	14.6	33.7
2019     1.7     17.6     15.1     34.3       2020     1.8     19.1     15.1     36.1       2021     1.8     20.2     17.8     39.8       2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2018	1.7	17.7	15.2	34.5
2020     1.8     19.1     15.1     36.1       2021     1.8     20.2     17.8     39.8       2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2019	1.7	17.6	15.1	34.3
2021     1.8     20.2     17.8     39.8       2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2020	1.8	19.1	15.1	36.1
2022     1.8     22.4     18.0     42.1       2023     1.8     22.9     18.5     43.2	2021	1.8	20.2	17.8	39.8
2025 1.8 22.9 18.5 43.2	2022	1.8	22.4	18.0	42.1
	2023	1.8	22.9	18.5	43.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	(2)	0.4	0.5
1965 1970 1975 1980 1985 1990	(s)	(s) 0.1	0.4 0.5 0.6 0.7	0.5 0.6 1.0 1.3
1970	(s)	0.3 0.6	0.6	1.0
1975	(s) (s) (s)	0.6	0.7	1.3
1980	_	0.4 0.7	0.5 0.6	0.9 1.4 1.6 1.8 1.8
1985	0.1	0.7	0.6	1.4
1990	0.1 0.1	0.7 0.8	0.7 0.9	1.0
1995	0.1	0.8	0.9	1.0 1.0
1997	0.1	0.8	0.9	1.0
1998	0.1	0.8	0.7	1.6
1999	0.1	0.9	0.9	1.9
2000	0.1	0.9	0.9 0.8	1.9 1.7
2001	0.1	0.9	0.8	1.8
2002 2003 2004 2005	0.1	0.9 0.9 1.0 1.0	0.7 0.7 0.8 0.8	1.6
2003	0.1	0.9	0.7	1.7
2004	0.1 0.1 0.1	1.0	0.8	1.8
2005	0.1	1.0	0.8	1.8
2006 2007	0.1 0.1	1.1 1.1	1.0 0.7	2.2 1.0
2008	— —	1.1	0.7	1.0
2009		1.1	0.7	1.8
2010		1.0	0.7	1.7
2011	_	1.1	0.6 0.6	1.7
2011 2012	_	1.1	0.6	1.8
2013 2014	_	1.0 0.9	0.5 0.5	1.6
2014	_	0.9	0.5	1.5
2015	_	1.0	0.6	1.6
2016	_	0.9 1.1	0.6	1.5
2017	<del>-</del>	1.0	U.b	1./ 1.5
2010		1.U N Q	0.5 0.5	1.5 1 <i>A</i>
2017 2018 2019 2020 2021 2022 2023		0.9 1.1	0.6 0.6 0.5 0.5 0.6 0.6 0.5	1.8 1.6 1.7 1.8 1.8 2.2 1.8 1.8 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.5 1.6 1.5 1.7 1.7 1.5 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.8 1.8 1.9 1.9 1.9 1.9 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
2021	_	1.1	0.6	1.7
2022	_	1.1	0.5	1.6
2023		1.1	0.6	1.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
I Cai	Coai	ivaturar gas	renoiedin	Iotai
1960	(a)	<u>_</u>	0.4	0.4
1965	(s) (s)	0.1	0.6	0.8
1965 1970	(s)	0.7	0.7	0.8 1.3 1.4
1975	(s) (s)	0.8	0.6	1.4
1980	<u>-</u>	0.9 1.1	0.4	1.2
1985	0.5	1.1	0.4 0.5 0.5 0.5 0.6	2.1
1990	0.6	1.1	0.5	2.2
1995 1996 1997	0.7	1.3	0.5	2.5
1996	U.6	1.4 1.4	0.6	2.7
1997	0.7 0.7	1.4	0.4 0.5	2.5 2.7
1999	0.5 0.6 0.7 0.6 0.7 0.7	1.5	0.6	2.7
2000	0.7	1.4	0.5	2.7
2001	0.6	0.8	1.0	2.5
2002	0.6 0.6 0.7 0.7	0.8	0.6	2.1
2003	0.6	0.9	0.4	1.9
2004	0.7	1.0	0.6	2.2
2005	0.7	0.9	0.5	2.1
2006	0.8	1.0	0.7	2.4
2007	0.6	1.0	0.6	2.2
2008 2009	0.8	0.9	0.6	2.4
2009	0.8 0.8	0.9 0.9 0.8	0.5 0.0	2.2 2.6
2010 2011	0.8	1.0	0.9	2.0
2012	0.0	1.1	0.5 0.9 0.8 0.7	2.7
2013	0.8	1.0	0.6	2.4
2012 2013 2014	0.8 0.6 0.8 0.8 0.9 0.9 0.9	1.0	0.6	2.4
2015	0.8 0.7	1.0	0.8 0.5	2.6
2016	0.7	0.8	0.5	2.0
2017	0.7	0.8	0.6	2.1
2018	0.7	0.7	0.6	1.2 2.1 2.2 2.5 2.7 2.5 2.7 2.8 2.7 2.5 2.1 1.9 2.2 2.1 2.4 2.2 2.6 2.8 2.7 2.4 2.2 2.6 2.8 2.7 2.4 2.1 2.4 2.2 2.4 2.2 2.6 2.8 2.7 2.1 2.4 2.2 2.3 2.1 2.0 2.0 2.1 2.3 2.2 2.3
2019	0.6	0.8	0.6	2.0
2020	0.7	0.9 0.9	0.6 0.7	2.1
2021 2022 2023	0.7 0.7 0.7 0.7	0.9	0.7 0.7	2.3
2022	0.7 0.7	0.6	0.7	2.2 9.3
2020	0.7	0.9	0.7	2.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.5	0.1	0.5	1.1
1965	0.6	0.1	0.7	1.4
1970 1975	0.8 1.0	1.0	1.1 1.3	2.9
1980	1.0 —	2.1 5.1	1.3	2.9 4.3 6.5 11.9 15.7 21.2 22.3 20.9 21.4
1985	_	7.2	46	11.9
1990	_	13.2	4.6 2.5 2.8 3.5 3.3 3.2	15.7
1995	_	18.4	2.8	21.2
1996	(s)	18.8	3.5	22.3
1997	(s)	17.7	3.3	20.9
1998	(s)	18.3	3.2	21.4
1999	(s)	17.4	3.1	20.5
2000 2001	(s)	18.0 17.5	2.5	20.5
2001	(s) (s) (s) (s)	17.5	2.5 3.0 2.9	20.5 20.6 21.0
2002	(5)	17.8	3.1	20.9
2003 2004	(s)	17.1	3.0	20.1
2005	(s)	18.5	3.1	20.9 20.1 21.6
2006 2007	(s) (s)	15.0	3.3	18.4 18.4 16.3
2007	(s) (s)	15.0	3.5	18.4
2008	(s)	13.4	2.9	16.3
2009	(s) (s)	13.8	2.9	16.7
2010	(S)	13.3	2.8	16.1
2010 2011 2012	(s) (s)	13.1 13.5	ئ. ا م م	10.3 16.7
2012	(8)	13.5	3.Z 3.9	10.7 16.7
2013 2014 2015 2016	(s) (s) (s)	13.4 13.5	3.3 3.5 2.9 2.9 2.8 3.1 3.2 3.2 2.9 2.7	16.7 16.1 16.3 16.7 16.7 16.4 16.2 16.0
2015	(s)	13.5	2.7	16.2
2016	(s)	13.6	2.4	16.0
2017	(s)	14.2	2.4 1.8	16.0
2017 2018	(s)	14.6	1.9 1.7	16.5
2019	(s)	14.6	1.7	16.5 16.2 17.6
2020	(s)	16.0	1.7	17.6
2021	(s)	16.9	2.1	18.9
2021 2022 2023	(s) (s)	19.0 19.5	2.1 2.0	18.9 21.1 21.5
2023	(8)	19.5	2.0	21.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	(s)	19	1.9
1965	(s)	<del>(0)</del>	1.9 2.4	2.5 5.1 5.7
1970	(s)	0.9	4.2	5.1
1975	(s)	(s) (s) 0.3	5.7	5.7
1980	_	(s)	6.4	6.4
1985	<del>-</del>	0.3	10.7	10.9
1990	<del>-</del>	0.1	12.0	12.1
1995 1996	_	0.1 0.1	12.2	12.3
1996	_	0.1 0.2	11.9 13.2	12.0
1998	<u> </u>	0.3 0.3	13.4	13.7
1999	_	0.4	14.4	12.1 12.3 12.0 13.5 13.7 14.8 15.7
2000	_	0.4	15.3	15.7
2001	_	0.3 0.2	14.5	14.7
2002	_	0.2	14.8	15.0
2003	_	0.2 0.2	15.6	15.8
2004	<del>-</del>	0.2	19.0	15.0 15.8 19.2 19.0
2005	_	0.1	18.9	19.0
2006	<del>-</del>	0.2	19.0	19.2
2007	_	0.1 0.1	17.9 15.4	18.0 15.5
2008 2009	<u>-</u>	0.1	13.6	10.0
2010	<u> </u>	0.2	13.7	13.7 13.9
2011	_	0.2	13.1	13.3
2012	_	0.2	11.9	12.1
2013	_	(s)	10.9	11.0
2014	_	(s) (s)	11.0	11.0
2015	_	(s) (s)	11.7	11.7
2016	<del>-</del>	(s)	11.0	11.1
2017	_	(s)	11.2	11.2
2018	<del>-</del>	(s)	11.8	11.8
2019 2020	_	(\$)	11.9 11.9	11.9 11.9
2020		(s) (s) (s) (s)	14.0	14.0
2021		(8)	14.0	14.0 1 <i>Δ</i> Δ
2023	_	(5)	14.7	14.4 14.7
		(0)	1 117	1 107

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Alaska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	<del>_</del>	(s) 0.1	0.1
1965 1970	0.3 0.4	0.1 0.4	0.1 0.2	U.5 1.0
1975	0.4	0.4 1.0	0.2	1.0
1980	0.4	1.0 1.5	0.3 0.4	2.3
1985	0.4	1.8	0.4	2.7
1990	0.4	1.9	0.3	2.6
1995	0.4	1.6 1.7	0.4	2.4
1996	0.3	1./	0.5	2.5
1997 1998	0.4 0.8	1.8 1.5	0.5 0.6 0.6	2.7
1999	0.7	1.5	0.0	2.9
2000	0.8	1.6 1.9 1.7	0.5	3.2
2001 2002 2003 2004	0.8 0.8 0.9 0.5	1.7	0.5 0.7	3.3
2002	0.9	1.7	0.7	3.3
2003	0.5	1.8	0.6	3.0
2004	0.6	2.0	0.6	3.2
2005	0.6 0.6	2.1	0.6	3.2
2006 2007	0.6	2.3 2.2	0.6 0.5	3.5 3.7
2008	0.6	2.3	0.4	3.3
2009	0.6	2.0	0.5	3.2
2010	0.6	2.1	0.4	3.0
2011	0.6	2.2	0.4	3.2
2012	0.6	2.1	0.4	3.1
2012 2013 2014 2015	0.6 0.9	1.8 1.7	0.3 0.3	2.6
2014	0.9 1.1	1./ 1.6	0.3	2.9
2016	0.9	1.0	0.3 0.3	2.0
2017	0.9	1.6 1.5 1.5	0.4	2.8
2018	1.0	1.3	0.4	0.1 0.5 1.0 1.8 2.3 2.7 2.6 2.4 2.5 2.7 2.9 3.0 3.2 3.3 3.3 3.3 3.0 3.2 3.2 3.5 3.3 3.3 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2
2019 2020	1.1	1.3 1.2	0.4	2.7
2020	1.1	1.2	0.4	2.7
2021 2022	1.1	1.4	0.4	2.8
2022	1.1	1.4	0.3	2.8
2023	1.0	1.5	0.4	2.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Arizona (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Tour		ratarar gas	1 Cuolcum	Total
1960	(2)	7.4	8.2	15.6
1965	(s) 0.7	8.7	9.8	19.2
1970	0.8	10.7	13.4	24.9
1975	8.8	8.6	20.8	38.3
1980	23.3	9.2	20.4	52.8
1985	32.5	7.3	21.3	61.1
1990	32.7	6.9	23.5	63.1
1995	32.6	6.7	27.4	66.7
1996 1997	32.6 35.1	6.6 7.2	29.4 29.4	68.6 71.7
1997	36.8 36.8	7.2 8.5	29.4 31.5	71.7 76.7
1999	38.4	8.8	33.4	80.6
2000	41.2	11.0	34.4	86.6
2001	40.4	12.9	35.6	88.9
2002	38.8	13.5	36.0	88.3
2003	38.8	14.6	37.0	90.5 97.3 97.3
2004	40.6	18.9	37.8	97.3
2005	41.0	17.4	38.9	97.3
2006	41.2 41.8	19.3	39.9 39.2	100.5 102.3
2007	41.8	21.3	39.2	102.3
2008	43.8	21.7	37.1	102.6
2009	39.5	20.0	34.4 37.9	93.8 99.5
2010 2011	43.7	17.8 15.5	37.9 38.2	99.5 97.6
2012	43.9 40.2	18.0	36.2 37.3	97.0 05.4
2012	40.2 13.1	18.0	37.3 37.8	90.4
2014	43.4 42.8 36.9 30.9	16.7	37.8	95.4 99.3 97.3
2015	36.9	19.3	38.7	94.9
2016	30.9	19.7	40.1	94.9 90.8
2017	32.0	17.7	40.7	90.4
2018	31.7	21.1	41.1	94.0
2019	24.6	25.6	42.2	94.0 92.5
2020	15.0	27.1	37.9	80.1
2021	15.4	25.6	41.8	82.8
2022	14.8	24.7	40.9	80.4
2023	13.2	28.4	41.4	83.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Arizona (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965 1970 1975	_	1.5	0.1	1.6 1.6 1.9 2.4 1.8 1.8 1.8 1.7 1.7 1.7 1.7 1.8 2.2 2.1 2.1 2.1 2.2 2.1 2.2 2.1 2.1 2.2 2.1 2.1
1965	_	1.4	0.2	1.6
1970	<del>-</del>	1.7 2.1	0.3 0.2	1.9
1975	_	1.6	0.2	2.4 1.0
1980 1985 1990	(e)	1.0	0.1	1.0
1990	(s) (s)	1.6 1.7	0.2 0.2 0.2 0.2 0.2 0.2	1.8
1995	(s)	1.5	0.2	1.7
1996	(s)	1.5 1.5	0.2	1.7
1997	(s)	1.7	0.2	1.8
1998	(s)	1.9	0.2	2.2
1999 2000	(s)	1.8 1.9	0.3 0.3 0.3 0.3 0.2 0.2	2.1
2000	(s) (s) (s) (s) (s)	1.9	0.3	2.1
2001	(S)	1.9 1.9 1.9 1.9 2.1	0.3	2.2
2002	(S)	1.9	0.3	2.2
2003	(S)	1.9 2.1	0.2	2.1 2.2
2001 2002 2003 2004 2005	(5)	1.9	0.2	2.2
2006	(s) (s) (s)	1.0	0.2	2.1
2007	(s)	1.9 2.1	0.2	2.3
2006 2007 2008	<del>-</del>	2.1	0.3	2.4
2009	<del>-</del>	1.9	0.3	2.2
2010	_	2.0	0.3	2.3
2011	_	2.1	0.3	2.4
2012	<del>-</del>	1.9	0.2	2.1
2009 2010 2011 2012 2013 2014 2015 2016	_	1.9 2.0 2.1 1.9 2.2 1.8 1.9	0.2 0.2 0.3 0.3 0.3 0.2 0.3 0.3 0.2 0.3 0.2	2.4
2014	_	1.8	0.3	2.0
2015	_	1.9 1.0	0.2	2.1
2010	_	1.8	0.3	2.2 2.1
2017 2018 2019 2020 2021 2022 2023		1.0 1 Q	0.2 0.3	2.1
2019	_	23	0.3	2.2
2020	_	1.9 2.3 2.3 2.2 2.3 2.5	0.3 0.3 0.3 0.3 0.3 0.3	2.6
2021	_	2.2	0.3	2.5
2022	_	2.3	0.3	2.6
2023	_	2.5	0.3	2.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Arizona

(million metric tons of carbon dioxide (CO2))

	T		T	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	1.4	0.1 0.2 0.2	1.5 1.3 1.5 2.2 1.8 1.7
1965 1970 1975	_	1.1	0.2	1.3
1970	<del>-</del>	1.3 1.8	0.2	1.5
1000	_	1.5	0.4	2.2 1.0
1980 1985	<u></u>	1.5	0.2 0.3	1.0
1990	(s) (s)	1.6	0.3	1.7
1995	(S) (S)	1.6	0.0	1.9
1996	(s)	1.6	0.2 0.3	1.0
1997	(s)	1.6	0.3	1.8 1.9 2.0 2.3 2.2 2.2 2.1 2.2
1998	(s)	1.7	0.6	2.3
1999	(s) (s)	1.7	0.5	2.2
2000	(s)	1.7	0.5	2.2
2001	(s)	1.7	0.4	2.1
2002	(s)	1.7	0.5	2.2
2003	(s)	1.7	0.3	2.1
2004	(s)	1.8	0.2	2.0
2005	(s)	1.7	0.3	2.0
2006	(s) (s)	1.8 1.8	0.3 0.3	2.0
2007	(s)	1.8	0.3	2.1
2008	_	1.8 1.7	0.6	2.4
2009	_	1.7	0.5 0.6	2.2
2010 2011	_	1.7	0.6	2.4
2011	_	1.8	0.6	2.4
2012	<del>-</del>	1.7	0.6	2.3
2012 2013 2014	_	1.8 1.7	0.6 0.6 1.2 1.1	2.4
2014	<del>-</del>	1.7	U.0 1.0	2.2
2016	_	1.7	1.2	2.0 3.0
2017		1.9 1.7	1.1	2.0
2018	<u> </u>	1.7	1.1	2.9
2019		1.7	1.1	3.0
2020	_	1.7	1.1	2.1 2.0 2.0 2.1 2.4 2.2 2.4 2.3 2.4 2.2 2.8 3.0 2.9 2.8 3.0 2.9 2.8 3.0
2020 2021 2022	_	1.8	1.2	31
2022	_	1.9	1.3	3.2
2023	<del>-</del>	2.0	1.4	3.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Arizona (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-	I	
1960	(s)	0.7	0.8	1.5
1965	(s) (s)	3.0	0.9	3.9
1970 1975	(s)	3.1 2.7	0.9 1.7	4.0
1975	(s) 0.2 1.2 3.7	2.7	1.7	4.7
1980	1.2	2.0	1.9	5.2
1985	3./	0.9	1.0	5.6
1990 1995	1.3 1.2 1.3 1.3 1.3 1.2 1.5	1.0 1.5	1.5	3.8
1995	1.2 1.2	1.5 1.4	1.9 2.1	4.0
1997	1.0	1.5	2.1	4.7 1.0
1998	1.3	1.5	1.8	4.0
1999	1.0	1.4	2.0	47
2000	1.5	1.1	2.0 2.1 2.3	4.7
2001	1.4	1.1	2.3	4.8
2002 2003	1.3	0.9 0.8 1.1	2.0 1.8 1.9 2.6	4.3
2003	1.3 1.4 1.5 1.5 1.5 1.4	0.8	1.8	4.0
2004	1.5	1.1	1.9	4.5
2005	1.5	0.9	2.6	5.0
2006 2007	1.5	1.0	2.5 2.3 3.1	5.0
2007	1.4	1.0	2.3	4.8
2008	1.2	1.1	3.1	5.3
2009	0.8 1.0 1.0 0.8	0.9	2.4	4.2
2010 2011 2012	1.0	1.0 1.1 1.2	2.0	4.0 5.0
2011	0.8	1.1	2.9	4 Q
2013	0.0	12	2.0	4.5
2014	0.4 0.5 0.5 0.4 0.5 0.6	1.2 1.2	2.4 2.6 2.9 2.8 2.9 2.7	4.4
2014 2015 2016	0.5	1.1	2.6 3.0 3.2	4.2
2016	0.4	1.0	3.0	4.4
2017	0.5	1.0	3.2	4.8
2018	0.6	1.0	2.8	4.5
2019	0.6	1.0	3.0	4.6
2020	0.6	1.0	3.0	1.5 3.9 4.0 4.7 5.2 5.6 3.8 4.6 4.7 4.8 4.6 4.7 4.7 4.8 4.3 4.0 4.5 5.0 5.0 5.0 4.8 5.3 4.2 4.6 5.3 4.2 4.6 4.7 4.7 4.8 4.6 4.7 4.7 4.8 4.5 5.0 5.0 4.8 4.6 4.7 4.7 4.8 4.6 4.7 4.7 4.8 4.6 4.7 4.7 4.8 4.0 4.5 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6
2021	0.6	1.0	2.9 3.1	4.6
2022	0.6 0.6 0.5	1.0	3.1	4./
2023	0.5	1.1	3.0	4.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Arizona (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		J		
1960	(s)	0.9	7.1	8.0
1965	(s)	1.0	8.5	9.6
1970	(s) (s)	1.3	12.0	8.0 9.6 13.4
1975	(s)	1.0 1.2	15.1 17.4	16.1
1980	<del>-</del>	1.2	17.4	18.6
1985	<del>-</del>	1.0	19.6	20.6
1990	_	1.4	21.4	22.8 26.1 27.7 27.7
1995 1996	_	1.0 0.9	25.0	26.1
1996	_	0.9 1.0	20.8	21.1
1998	<u> </u>	1.0	25.0 26.8 26.7 28.8	21.1 20.0
1999	_	1.1	30.5	31.6
2000	_	1.0 1.1	31.4	29.9 31.6 32.6 33.5 34.3 35.7 36.3 36.9
2001	_	1.2	32.3	33.5
2001 2002 2003 2004	_	1.2 1.1	31.4 32.3 33.2 34.7 35.4	34.3
2003	_	1.0 0.9	34.7	35.7
2004	_	0.9	35.4	36.3
2005	_	1.1	35.8	36.9
2006	<del>-</del>	1.2	36.9	38.1
2007	_	1.2 1.2 1.3 1.2	36.3	37.5 34.3 32.4 35.3 35.1
2008 2009	_	1.3	33.0 31.2 34.4	34.3
2009	<del>-</del>	1.2	31.2 24.4	3∠.4 25.2
2010	_	0.9 0.8	34.4	აე.ა 25.1
2012	_	0.8	33.6	34.4
2013	_	0.8	34.0	34.8
2014	_	0.9	34.2	34.4 34.8 35.1 35.7
2015	_	1.0	34.7	35.7
2016	<del>-</del>	0.9	35.7	36.6
2017	_	0.8	36.1	36.9
2018	_	0.8	36.8	37.6
2019	_	1.0	37.7	38.7
2020	<del>-</del>	1.0	33.4	34.4
2021	_	1.0	37.3	38.3 37.2 37.7
2022	_	1.0	36.2	37.2
2023	_	1.0	36.7	37.7

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Arizona (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			4.5	
1960 1965	0.7	2.9 2.1	(s)	2.9 2.8 4.1
1965	0.7	3.3	(s)	2.0 // 1
1975	8.5	1.0	3.4	13.0
1980	22.1	2.8	(s) 3.4 0.7	13.0 25.6 31.3
1985	28.8	2.3	0.2	31.3
1990	31.4	1.3	0.1	32.8 32.6 32.6 35.3 37.8
1995	31.3	1.2	0.1	32.6
1996	31.3	1.2	0.1	32.6
1997 1998	33.8 35.5	1.4 2.3	(s) 0.1	35.3 27.9
1996	35.5 37.1	2.3	U. I (c)	40.1
2000	39.7	5.2	(s) 0.2 0.3 (s)	40.1 45.1
2001	39.0	7.0	0.3	45.1 46.3 45.4 46.6 52.2 51.3 53.2 55.6 58.1 52.9 54.9
2002	37.5	7.9	(s)	45.4
2003	37.4	7.9 9.1	(S)	46.6
2004	39.1	13.0	(s)	52.2
2005	39.4	11.8	(s)	51.3
2006	39.7	13.4	0.1	53.2
2007	40.4	15.2	(s) (s)	55.6
2008 2009	42.6 38.6	15.5 14.2	(S)	58. I
2009	42.7	12.1	(s) 0.1	52.9 54 Q
2011	43.0	9.8	(s)	52.8
2012	39.4	12.4	(s)	51.8
2013	43.0	12.1	(s)	55.2
2014	42.3	11.2	(s)	51.8 55.2 53.5
2015	36.4	13.6	(s)	50.0
2016	30.6	14.0	(s)	44.6
2017	31.5	12.3	(s)	43.8
2018 2019	31.1 24.0	15.7 19.5	(s) 0.1	46.8 43.5 35.6
2019	24.0 14.4	21.2	0.1 (s)	43.5 25.6
2021	14.7	19.5	(S) (S)	34.3
2022	14.2	18.5	(s)	32 7
2023	12.7	21.8	(s)	34.3 32.7 34.5
			(0)	<b>55</b>

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		1		
1960	(s) (s)	11.6	9.7	21.3 26.4 36.1 36.2 37.4 49.1 50.9 57.7 60.2
1965	(s)	14.5	11.9	26.4
1970	<del>-</del>	20.1	16.1	36.1
1975	0.1 3.5 20.9 20.2	13.4	22.7	36.2
1980	3.5	14.3	19.6	37.4
1985	20.9	10.4	17.9	49.1
1990	20.2	12.2	18.4	50.9
1995 1996	22.6 24.7	14.1 14.3	21.0 21.2	5/./
1996	24./	14.3	21.2	50.2 50.0
1997	23.4 24.2	13.7 14.2	22.0 22.2	59.2 60.6
1999	25.4	13.4	22.2	62.7
2000	25.4	13.3	23.9	63.3
2001	26.1	12.1	24.3	62.5
2002	24.4	12.9	23.9	61.2
2003	24.2	13.4	24.7	62.3
2004	25.8	11.4	25.3	62.5
2005	23.6	11.4	25.3	62.3 62.5 60.3
2006	24.5	12.7	24.9	62.1
2007	24.5 26.2	12.0	25.1	63.4
2008	26.6	12.5	25.0	62.1 63.4 64.2
2009	25.2	13.0	23.2	61.5
2010	28.0	14.5	23.6	66.1 67.4
2011	29.2	15.2	23.0	67.4
2012	28.4	15.8	22.0	66.2
2013	31.2	15.1	22.0	68.4
2014	32.4	14.3	22.1	68.8
2015	21.7	15.5	21.7	58.8
2016	23.5	16.5	21.8	61.8
2017	25.6	16.6	21.7	63.9
2018	29.1	19.2	22.3	70.5 64.9
2019	22.9	19.4	22.5	64.9
2020	15.5 20.7	17.5	21.5	54.5 61.8 63.3
2021	20.7	18.8	22.3	61.8
2022	20.3	20.8	22.2	63.3
2023	17.3	20.9	22.2	60.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
Tour	- Cour	Hatarar gas	i cuoicum	Total
1960	<u>_</u>	1.8	0.7	2.5
1960 1965 1970	_	1 9	0.8	2.5 2.8 4.8 3.9 3.0 2.7 2.5 2.7 2.9 2.7 2.4 2.7 2.9 2.7 2.9 2.7 2.9 2.7 2.9 2.7
1970	_	3.2 2.6 2.5 2.2	1.6	4.8
1975	$\overline{a}$	2.6	1.3	3.9
1980	(s)	2.5	0.6	3.0
1985	(s) (s) (s)	2.2	0.5	2./
1990 1995	(S)	2.1	0.4 0.4	∠.5 2.7
1996		2.4 2.5	0.4	2.7
1997	(s)	2.3	0.4	2.7
1998	(s) (s) (s)	2.1	0.4 0.3	2.4
1999 2000	(s)	2.0 2.3	0.7	2.7
2000	<u> </u>	2.3	0.6	2.9
2001	<del>-</del>	2.0	0.7	2.7
2002 2003 2004	(s)	2.1 2.1	0.5	2.6
2003	(2)	۷.۱ ۱۵	0.4 0.4	Z.3 2.3
2004	(s)	1.9 1.8	0.4	2.3
2006	_	1.7	0.4	2.1
2006 2007 2008	<u>(s)</u>	1.8	0.4 0.3 0.4	2.1
2008	<del>( )</del>	1.8 1.9 1.8 1.9 1.8 1.4	0.4	2.3
2009	_	1.8	0.4	2.2
2010	_	1.9	0.4	2.3
2011	_	1.8	0.3	2.1
2012	_	1.4	0.2	1.0
2013		1.9	0.3 0.3	2.2
2009 2010 2011 2012 2013 2014 2015 2016		1.9 2.0 1.8 1.5	0.4 0.4 0.3 0.2 0.3 0.3 0.3 0.2	2.1 2.3 2.2 2.3 2.1 1.6 2.2 2.4 2.0 1.7
2016	_	1.5	0.2	1.7
2017	_	1.4	0.2	1.6
2017 2018 2019 2020 2021 2022 2023	_	1.9 1.8 1.6	0.3	2.1
2019		1.8	0.3	2.1
2020	_	1.6	0.3 0.3 0.3 0.3 0.3 0.3	2.1 2.1 1.9 2.1 2.0 1.8
2021	_	1.8 1.7	0.3	2.1
2022	_	1.7	0.3	2.U 1 0
2023	_	1.0	0.3	1.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
-	<u> </u>	<u> </u>		
1960 1965 1970 1975	_	0.9	0.3 0.3 0.5	1.2
1965	<del>-</del>	1.5	0.3	1.8
1970	_	2.1	0.5	2.6
1975	<u> </u>	1.8	0.9	2./
1980 1985	(s) (s) (s)	1.6	0.5 0.5 0.3 0.2 0.2 0.2 0.2	2.1
1990	(S)	1.4 1.3	0.5	2.0
1995	(8)	1.3 1.6	0.3	1.0
1996		1.6 1.7	0.2	1.0 1.0
1997	(2)	1.7	0.2	1.9
1998	(3)	1.6 1.5	0.2	1.8
1999	(s) (s) (s)	1.5	0.3	1.8
1999 2000	<del>(0)</del>	1.5 1.8	0.3 0.3	2.1
2001	_	1.7	0.4	2.1
2001 2002 2003 2004 2005	(s)	1.8 1.7	0.4 0.3 0.5 0.4	2.1
2003	_	1.7	0.5	2.2
2004	(s)	1.6 1.7	0.4	2.0
2005	<u> </u>	1.7	0.4	2.1
2006 2007 2008	(s) (s)	1.7	0.2 0.1	1.9
2007	(s)	1.7	0.1	1.9
2008	<del>-</del>	2.0	0.2	2.2
2009	<del>-</del>	2.0	0.5	2.5
2010	_	2.2	0.4	2.6
2011	_	2.2	0.4	2.5
2012	_	2.2	0.3	2.5
2009 2010 2011 2012 2013 2014 2015 2016	_	2.0 2.2 2.2 2.2 2.6 2.7 2.6 2.5 2.5	0.2 0.5 0.4 0.4 0.3 0.2 0.4 0.5 0.5	2.8
2014	_	Z.1 2.6	0.4	ა. I 2. 1
2015	_	2.0 2.5	0.5 0.5	ა. i ვი
2010		2.5	0.5	2.9
2017	<u> </u>	2.5 3.0	0.5 0.5	3.0 3 K
2019	<u> </u>	3.0 3.0	0.5 0.5	3.3 3.5
2020	_	3.0 3.0 2.8	0.5	3.3
2021	_	3.1	0.5	3.6
2022	_	3.0	0.5	3.5
2017 2018 2019 2020 2021 2022 2023	_	2.9	0.5 0.5 0.5 0.5 0.5 0.5	1.2 1.8 2.6 2.7 2.1 2.0 1.6 1.8 1.9 1.8 1.8 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.2 2.0 2.1 1.9 1.9 1.9 2.2 2.5 2.5 2.5 2.8 3.1 3.1 3.1 2.9 3.0 3.5 3.5 3.5 3.3 3.6 3.5 3.3 3.6 3.5 3.4
			***	•

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s) (s)	5.8	1.9 2.3	7.7 9.2 11.1
1965 1970	(S)	6.9 8.4	2.3	9.∠ 11.1
1975	0.1	6.8	4.3	11.2
1980	0.6	6.4	3.3 2.9	10.3
1985	0.8	5.7	2.9	10.3 9.3 9.1
1990	0.6	6.6	2.0	9.1
1995	0.7	7.8	2.6	11.1
1996 1997	0.8 0.7	7.6 7.9	2.4 2.7	10.8 11.2
1998	0.7	7.9	2.7	11.2
1999	0.7	7.3	2.5	10.5
2000	0.9	6.9	2.8	10.6
2001	1.0	6.4	3.3	10.7
2002	1.0	6.3	3.0	10.3
2003	0.9	6.0	3.5 3.8	10.5
2004 2005	0.9	5.4 4.7	3.8 4.2	10.2
2005	0.9	4.7 1.8	4.2 1/3	9.0 Q Q
2007	0.9	4.8 4.6	4.2	9.7
2008	1.0 0.9 0.9 0.9 0.9 0.9 0.9	4.6	4.8	10.3
2009	0.7	4.3	2.8	7.8
2010	0.7	4.6	3.5	8.8
2011	0.5	4.6 4.8 4.6	3.4	8.7
2012	0.5	4.6	3.2	8.4
2011 2012 2013 2014	0.5 0.5 0.5 0.5 0.4 0.5	5.0 5.0	4.3 4.2 4.8 2.8 3.5 3.4 3.2 3.4 3.2 2.7	0.9 8.7
2015	0.5	5.0 4.7	2.7	7.8
2015 2016	0.5	4.8	2.6	7.8
2017	0.4	5.4	2.6 2.2 2.5 2.6	8.1
2018	0.4 0.4	5.7 5.6	2.5	8.6
2019	0.4	5.6	2.6	8.5
2020	0.3 0.3	5.4	2.6	8.4
2021 2022	0.3 0.2	5.6 5.6	2.4	გ.პ ი ი
2022	0.3 0.3	5.6 5.7	2.5 2.4	10.5 10.2 9.8 9.9 9.7 10.3 7.8 8.8 8.7 8.4 8.9 8.7 7.8 7.8 8.1 8.6 8.5 8.4
2020	0.0	0.1	Z.T	0.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Veer	Cool a	Netwel are h	Detroloure C	Total
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(2)	0.5	6.7	7.0
1965	(s) (s)	0.6	8.7 8.4	7.2 9.0
1970	<del>-</del>	0.7	10.9	11.6
1975	(s)	0.6	14.1	14.7
1980	<del>-</del>	0.6	13.7	14.3
1985	<del>-</del>	0.4	13.9	14.4
1990	_	0.5	15.6	16.1
1995	_	0.7	17.7	18.4 18.8
1996 1997	_	0.7	18.1	18.8
1997		0.6 0.6	18.7 19.0	19.3
1999	_	0.5	20.3	19.3 19.6 20.8
2000	_	0.5	20.5	21.0 19.8 20.4 20.5 20.7
2001	_	0.5	20.5 19.3	19.8
2002	_	0.4	20.0	20.4
2003	_	0.5	20.1	20.5
2004	_	0.4	20.2	20.7
2005	_	0.5	20.1	20.6
2006	_	0.6	20.0	20.6
2007	_	0.5	20.4	20.9
2008 2009	=	0.5 0.5	19.6 19.4	20.1 19.9
2010		0.5	19.4	19.8
2011	_	0.6	18.9	19.5
2012	_	0.6	18.3	18.8
2013	_	0.6	17.9	18.6
2014	_	0.6	18.2	18.8
2015	_	0.5	18.1	18.6
2016	_	0.4	18.5	19.0
2017	_	0.4	18.8	19.1
2018	_	0.4	18.9	19.3
2019 2020	_	0.4 0.3	19.1 18.1	19.5 18.4
2020		0.3	19.0	10.4
2021		0.3	18.9	19.3 19.2 19.4
2023		0.3	19.0	19.2
_0_0		0.0	10.0	10.7

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Arkansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960		2.6	0.1	2.6
1965		3.6	0.1 (s)	2.6 3.6 6.1 3.8
1970	_	5.7	(s) 0.3	6.1
1975	_	1.7	2.1	3.8
1980	2.9	3.2	1.5	7.6 20.8
1985	20.1	0.6	(s) 0.1	20.8
1990	19.7	1.7	0.1	21.5 23.6 25.8
1995	21.8	1.8	(s) 0.1	23.6
1996	23.9	1.8	0.1	25.8
1997	22.8	1.3	0.1	24.2
1998 1999	23.5 24.7	2.2 2.2	0.1 0.1	25.9 27.0
2000	24.7	1.9	0.1	27.U 26.6
2001	24.0 25.1	1.9	0.2	20.0 27.2
2002	23.4	2.3	0.1	26.6 27.2 25.8
2003	23.3	3.1	0.2	26.6
2004	24.9	3.1 2.2	0.4	27.4
2005	22.7	2.7	0.1	26.6 27.4 25.6
2006	23.7	3.9	0.1	27.6
2007	25.3	3.5	0.1	28.8
2008	25.7	3.5	(s)	29.3
2009	24.5	4.5 5.2 5.8	0.1	29.1
2010 2011	27.4 28.7	5.2	(s)	32.6
2011	28.7	5.8 7.0	(s)	34.5
2012 2013	27.9 30.8	7.0 5.1	(s)	34.9 25.0
2013	30.0 31.0	3.9	(s) (s)	28.8 29.3 29.1 32.6 34.5 34.9 35.9 35.8
2014	31.9 21.2 23.1	5.9 6.0	(S) (S)	97.3
2015 2016	23.1	6.0 7.4	(S) (S)	30.5
2017	25.1	6.9	(s)	32.1
2018	28.7	6.9 8.2	(s)	37.0
2019	22.5	8.6	(s)	27.3 30.5 32.1 37.0 31.2 22.6
2020	15.2	7.3	(s)	22.6
2021 2022	20.4 20.0 17.0	8.1	(s)	28.5 30.3 27.4
2022	20.0	10.3	(s)	30.3
2023	17.0	10.4	(s)	27.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Voor	Cool	Notural good	Petroleum <sup>b</sup>	Total
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>s</sup>	Total
1960	3.3	68.2	126.0	197.5
1965	5.8	95.2	142.7	243.7
1970	5.6	117.6	171.4	294.6
1975	5.2	101.5	204.8	311.5
1980	6.1	99.4	239.4	344.9 320.7
1985	4.3	101.3	215.1	320.7
1990	8.0	110.5	242.2	360.6
1995 1996	8.0 7.6	110.6 105.7	230.2 236.5	348.8 349.8
1997	7.0 7.8	114.4	230.5	349.6 352.7
1998	7.8 6.3	126.5	230.0	362.8
1999	6.6	124.7	234.9	366.2
2000	6.6	128.9	247.0	382.5
2001	6.4	132.0	247.5	385.8
2002	6.6 6.5 6.5 6.4	121.6	256.0	384.2
2003	6.5	121.9	246.5 256.6	374.9 392.7
2004	6.5	129.6	256.6	392.7
2005	6.4	121.2	261.9	389.5
2006 2007	6.4 6.3	125.0 129.6	266.6 266.7	398.0 403.6
2007	6.0	129.9	248.2	402.6 384.2
2009		125.7	239.9	370.6
2010	5.2	122.3	229.4	356.9
2011	5.3	115.6	222.1	342.9
2012	4.2	129.2	215.7	349.1
2013	3.6	130.4	213.4	347.4 343.2
2014	5.0 5.2 5.3 4.2 3.6 3.8 3.0 3.1	126.5	212.9	343.2
2015	3.0	124.3	220.0	347.3 348.9
2016 2017	3.1	117.2 114.1	228.6 234.9	348.9
2017	3.∠ 2.0	114.1	234.9	352.3 355.0
2019	3.2 3.0	115.6	236.0	350.0 354.6
2020	3.2 3.2 3.0 2.7	112.3	184.7	355.0 354.6 299.6
2021	2.7	113.4	205.9	321.9
2022	2.9	111.3	210.0	324.1
2023	2.9 2.8	112.5	209.1	324.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	20.0	1.0	21.0
1965	(s) (s) 0.1	27.8	1.0 1.3	21.0 29.1 32.4
1970	0.1	30.9	1.4 0.9	32.4
1975 1980	<del>-</del>	27.8 30.9 35.3 29.3 29.0 28.2 25.6 26.0 25.8 30.8	0.9	36.2 30.4 30.3 29.5 26.8 27.0 26.8 32.3 31.9 27.6 28.6 28.7 28.3 29.5 28.2
1980	(s) (s) (s)	29.3	1.1 1.2 1.3	30.4
1985	(s)	29.0	1.2	30.3
1990 1995	(S)	28.2	1.3	29.5
1006	(S)	25.0	1.1	20.8
1990	(5)	20.0 25.8	1.0 0.0	27.0 26.8
1996 1997 1998 1999	(S) (S)	30.8	1.0 0.9 1.5	32.3
1999	(s)	30.6	1.4	31.9
2000 2001	(s) (s) (s) (s) (s) (s)	30.6 26.2 27.6	1.4 1.3	27.6
2001	(s)	27.6	1.0	28.6
2002 2003 2004 2005		27.6 26.9 27.7	1.1 1.4	28.7
2003	(s)	26.9	1.4	28.3
2004	(s)	27.7	1.7	29.5
2005	(s) (s) (s) (s) (s)	26.2	2.0	28.2
2006	(S)	26.7 26.9	1.7	28.4
2006 2007 2008		26.7	1.8 2.1	28.4 28.6 28.8 28.3 29.0 29.7 27.3 27.7
2009	_	26.2	2.1	28.3
2010	_	26.8	2.1	29.0
2011	_	27.7	2.1 2.1 2.0	29.7
2010 2011 2012	_	26.8 27.7 25.9	1.5 1.5	27.3
2013	<del>-</del>	26.2	1.5	27.7
2014 2015	_	21.7 22.0 22.6	1.2	22.9
2015	<del>-</del>	22.0	1.4	23.4 24.1 25.1
2016	_	22.6	1.5	24.1
2017	_	23.6 23.2	1.4 1.6	25.1
2018 2019		25.2 25.4	1.0	24.8 27.1
2019		25.4 25.1	1.6	26.6
2021	_	24.6	1.6	26.2
2022	_	24.6 23.7	1.4	25.1
2021 2022 2023	_	25.3	1.6	26.2 25.1 26.9

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	(s)	6.0	4.5	10.5
1965	(s)	9.3	4.5 4.1	13.4
1970	(s) (s) 0.1	11.7	5.5	10.5 13.4 17.3
1975	_	13.5	3.4	16.9
1980	(s) 0.1	14.3	5.7 2.7	20.0 14.1
1985	0.1	11.3	2.7	14.1
1990	(s) 0.3 0.3	15.6	3.3	19.0
1995	0.3	15.0	1.8	17.0
1996	0.3	12.9	1.5	14.8
1997	0.2 0.2	13.7	1.4 1.7	15.4
1998	0.2	15.8	1./	17.8
1999 2000	0.1	13.2 12.5	1.7 1.8	14.9 14.4
2000	(S)	12.5	1.6	14.4
2001	(s) (s) (s) (s)	12.9	1.0	14.9
2002	(S)	12.9	1.4	14.0
2003	(S) (S)	12.5	1.6	14.0
2005	(S)	12.6	1.6	14.2
2006	(s)	13.3	1.2	14.5
2007	(c) =	13.7	1.4	15.1
2008	_	13.7	2.0	15.6
2009	_	13.5	2.1	15.6
2010	_	13.5	2.7	16.1
2011	<del>-</del>	13.3	2.4	16.1 15.7
2011 2012	_	13.7	2.2	15.9
2013	_	13.9	2.1	16.0
2014	_	12.9	2.1	15.1
2015	_	12.9	5.4	18.3
2016	_	13.0	5.6	18.6
2017	_	13.0	5.7	18.7
2018	<del>-</del>	13.6	5.8 5.8	19.3 19.8
2019	_	14.0	5.8	19.8
2020	<del>-</del>	12.7	5.4	18.1
2021	_	13.1	6.0	19.2
2022	_	13.5	6.0	19.5
2023	<del>-</del>	14.1	6.5	20.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	3.2	23.9	22.1	49.3
1965	5.8	29.1	24.0	49.3 58.9 68.3
1970	5.4 5.2	38.4	24.5	68.3
1975	5.2	36.1	25.5	66.8
1980	6.1	26.0	33.2	65.3 67.9
1985	4.2	23.1	40.7	67.9
1990	6.1	31.2	32.2	69.5
1995 1996	5.5	36.1 37.2	26.1 28.4	0/./ 70.0
1997	6.1 5.5 5.3 5.9	41.3	28.4	69.5 67.7 70.9 75.6 73.4
1998	4.1	44.2	25.1	73.4
1999	4.4	41.2	26.2	71.8
2000	4.5	41.2	25.5	71.2
2001	4.4	37.4	31.2	73.0
2002 2003 2004 2005	4.4 4.5 4.3 4.4	41.0	28.6	71.2 73.0 74.0 74.2
2003	4.5	43.4	26.4	74.2
2004	4.3	46.3	28.2	78.9 76.2
2005	4.4	43.6	28.2	76.2
2006	4.3	42.0 42.4	28.9 26.8	/5.1 70.0
2006 2007 2008	4.3 4.1 3.7	42.4	20.0	75.1 73.2 69.9
2009	3.7	40.9	21.2	65.5 65.1
2010	3.1	40.7	23.6	67.4
2011	3.4	39.7	24.7	67.8
2010 2011 2012	3.0 3.1 3.4 2.9 3.0 3.1	41.6	23.9	65.1 67.4 67.8 68.4 71.9 71.8
2013	3.0	43.9	25.0 24.5	71.9
2014 2015 2016	3.1	44.3	24.5	71.8
2015	3.0	43.3	24.2 25.6	70.5 71.6 71.6
2016	3.1	42.9	25.6	/1.6
2017	3.2	42.2	26.1	/1.6 71.4
2018 2019	3.2 2.0	42.4 42.4	25.9 25.5	71.4 70.9
2019	3.0 3.1 3.2 3.2 3.0 2.7	38.6	23.2	70.9 64.5
2020	2.1	37.8	23.2	63 G
2022	2.7 2.9 2.8	36.0	23.5	63.6 62.4 60.9
2023	2.8	35.5	22.7	60.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
	Coul	riatarar guo	1 ottoloum	Total
1960	0.1	0.6	86.9	87.6
1965	(s)	0.9	105.5	106.4
1970	(s) (s)	0.9	129.8	130.7
1975	(s)	1.1	138.0	139.1
1980	<u>~</u>	0.8	168.7	169.5
1985	_	0.8	168.2	169.0
1990	_	1.1	201.4	202.5 200.2 204.4
1995	_	1.1	199.1	200.2
1996	_	1.1	203.3 197.9	204.4
1997 1998	_	1.3 0.6	197.9	199.2 200.0
1999		0.6	203.6	200.0
2000	<u> </u>	0.6	215.8	216.4
2001	_	0.7	210.8	211.5
2002	_	0.7	222.8	211.5 223.4 215.5 223.8 228.8
2003	_	0.7	214.9	215.5
2004	_	0.9	222.9	223.8
2005	<del>-</del>	1.1	227.7	228.8
2006	_	0.9	232.6	233.5 235.7
2007	<del>-</del>	1.1	234.6 217.9 212.7	235.7
2008	_	1.1	217.9	218.9 213.7
2009	_	1.0	212./	213.7
2010	_	1.3	199.7	201.0
2011 2012	=	1.3 1.5	191.9 187.9	193.3 189.4
2012		1.3	184.8	186.1
2014	<u> </u>	2.1	185.0	187.1
2015	_	1.9	189.0	191.0
2016	_	2.3	195.9	198.1
2017	<del>-</del>	2.4	201.6	204.1
2018	<del>-</del>	2.4	203.4	205.8
2019	_	2.7	203.0	205.6 156.7
2020	_	2.3	154.4	156.7
2021	_	2.6	175.0	177.6
2022	_	2.7	179.0	181.7
2023	<del>-</del>	3.0	178.3	181.3

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, California (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	17.7	11.3	29.1
1965	<del>-</del>	28.0	7.9	35.9
1970	<del>-</del>	35.6	10.2	45.8
1975 1980	<del>-</del>	15.5 28.9	37.1	29.1 35.9 45.8 52.6 59.6 39.4
1980	_	28.9	30.7 2.3	59.b
1985 1990	 1.0	37.1 34.4	2.3 4.0	39.4 40.2
1990	1.8 2.2	34.4 32.9	4.0 2.0	40.2 37 1
1995 1996	1.9	28.6	2.3	32.8
1997	1.7	32.3	1.8	35.8
1998	1.9 2.1	32.3 35.2	2.2	40.2 37.1 32.8 35.8 39.3 43.3 52.9 57.8
1999	2.1	39.2	2.0	43.3
2000	2.1 2.0	48.3	2.5 2.8	52.9
2001	2.0	53.0	2.8	57.8
2002 2003	2.2	39.4 38.3	2.2	43.7
2003	2.1	36.3 42.1	2.3 2.1	42.7 46.4
2005	2.1 2.2 2.0	37.6	2.2 2.3 2.1 2.4	43.7 42.7 46.4 41.9
2006	2.1	42.2	2.2	46.5
2006 2007	2.2	42.2 45.6	2.2 2.2	50.0
2008	2.1 2.2 2.3	46.8	1.9 1.8	46.5 50.0 50.9 47.9 43.5 36.4
2009	2.0 2.1 1.9	44.1	1.8	47.9
2010	2.1	40.1	1.3	43.5
2011	1.9	33.5	1.1	36.4
2012	1.3	46.5 45.0	0.2 0.1	48.0 45.7
2010 2011 2012 2013 2014 2015	1.3 0.6 0.7	45.0 45.5	0.1	46.2
2015	— —	45.5 44.1 36.4	(s)	44 1
2016	_	36.4	(s) (s)	36.5
2017	_	32.9	(s)	32.9
2016 2017 2018 2019 2020		32.9 33.6 31.1 33.6	(s)	44.1 36.5 32.9 33.6 31.1 33.6 35.3 35.4 34.7
2019	<del>-</del>	31.1	(s)	31.1
2020	<del>-</del>	33.6	(s)	33.6
2021 2022	_	35.3 35.3	(s)	35.3
2022	<del>-</del>	35.3 34.6	(s)	35.4
2023	_	34.0	(s)	34.7

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Tour	Odui	Hattarar gas	i cuolcum	1000
1960	6.4	10.2	10.6	27.2
1965	9.2	10.7	13.3	33.2
1970	10.9	14.4	17.7	43.0
1975	15.0	14.8	21.9	51.7
1980	23.4	12.9	22.0	58.3
1985	28.4	11.0	21.7	61.1
1990	32.1	12.2	21.5	65.8
1995 1996	32.7 33.3	15.1 16.6	24.8 25.7	72.7 75.6
1997	30.3 34.4	16.4	25.7	75.8 75.8
1998	34.4 34.7	17.2	26.2	78.1
1999	34.7	17.3	28.2	80.2
2000	36.9	19.2	29.0	85.2
2001	38.1	24.3	30.6	93.0
2002	37.3	24.0	30.0	91.3
2003	37.7	23.0	30.1	90.8
2004	37.3	23.2	32.7	93.2
2005	37.0	25.2	33.4	95.5
2006 2007	37.6 37.1	24.1 26.9	34.4 34.9	96.2
2007	37.1 36.8	26.9	34.9	90.9 07.1
2009	33.4	27.6	32.0	97.1
2010	36.5	26.5	32.6	95.7
2011	36.5 35.2	25.1	32.1	92.4
2012	35.4	24.0	31.7	91.1
2013	34.7 33.5	25.2	32.1	90.8 93.2 95.5 96.2 98.9 97.1 93.0 95.7 92.4 91.1 92.0 92.6
2014	33.5	26.1	33.1	92.6
2015	32.5 30.7	25.5 24.2	33.0	91.0
2016	30.7	24.2	33.1	88.1
2017	30.2	24.1	34.1	88.4
2018 2019	27.2 26.1	27.0 28.9	35.4 36.2	91.0 88.1 88.4 89.7 91.3
2019	20.8	28.9	36.2 29.9	91.3 70.5
2021	20.6	26.6	29.9 34.0	79.5 QA Q
2022	22.3	20.0 27.4	34.0 36.7	86.5
2023	19.6	27.4	35.2	79.5 84.8 86.5 82.2
	1010	2/11	00.2	OZ.I.

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965	0.3 0.4	2.9 3.2 4.3 4.7	0.6 0.7	3.8 4.3 5.4 5.6 5.0 5.0 5.0 6.0 6.4 6.2 5.9 6.4 6.8 7.2 7.5 7.6 7.2 7.5 7.6 7.2 7.5 7.1 7.8 8.0 7.6 7.8 7.8 7.0 8.1 8.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.8 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.1
1965	0.4	3.2 1 2	0.7 0.0	4.3 5.4
1975	0.5 (s)	4.3 4.7	0.9 0.8 0.4 0.4	5.4 5.6
1980	(s)	4.5	0.4	5.0
1980 1985 1990 1995 1996	(s) (s) 0.1	4.5 4.6 4.5 5.5	0.4	5.0
1990	(s) (s)	4.5	0.4	5.0
1995	(s)	5.5	0.6	6.0
1996	(s)	5.8	0.5	6.4
1997	(s)	6.0 5.8	0.1	6.2
1998	(s)	5.8 5.8	0.1	5.9
1999 2000	(s)	5.8 6.1	0.5 0.7	0.4 6.9
2001	(s) 0.1	6.5	0.7	7.2
2007	0.1	6.8	0.7	7.5
2003	0.1	6.6	0.9	7.6
2004	(s)	6.3	0.8	7.2
2002 2003 2004 2005	(s) (s)	6.6 6.3 6.7	0.9 0.8 0.8	7.5
2006	(s)	6.4	0.7 0.7	7.1
2006 2007 2008	(s) (s)	6.4 7.0 7.1	0.7	7.8
2008		7.1	0.9	8.0
2009	_	6.8	0.8	7.6
2010	_	7.0 7.0	0.8 0.8	7.8 7.0
2011		6.3	0.6	7.0 7.0
2012	<u> </u>	7.3	0.7	7.0 8.1
2010 2011 2012 2013 2014	_	7.3 7.2	0.8	8.0
2015	<u> </u>	6.8	0.7	7.5
2016	<del>-</del>	6.8 6.7	0.7	7.5
2017	_	6.6	0.7	7.2
2018 2019	_	7.2	0.7	7.9
2019	<del>-</del>	8.0	0.8	8.9
2020 2021 2022 2023	_	7.6 7.5	0.8 0.8 0.8 0.7	8.4
2021	_	7.5	0.8	8.2
2022	_	7.8 7.6	0.8	8.5 0.2
2023	_	7.0	0.7	0.3

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2 0.3 0.2	1.6	0.2 0.4	2.0 2.6 3.6 4.0 3.9 4.1 3.7 3.9 4.1 4.1 3.7 3.8 3.8
1965 1970 1975	0.3	1.9	0.4	2.0 3.6
1970	(e)	3.1 3.6	0.3	3.0 4.0
1980	(s) 0.2 0.2	3.4	0.3	3 9
1985	0.2	3.5	0.4	4 1
1990	0.1	3.3	0.4	3.7
1995	(s)	3.3 3.5	0.4	3.9
1996	(s) (s) 0.1	3.6	0.5	4.1
1997	0.1	3.6 3.6	0.4	4.1
1998	(s) 0.2	3.3	0.4	3.7
1999	0.2	3.1	0.5	3.8
2000	0.1	3.2	0.4	3.8
2001	0.6	3.4	0.4	4.4
2002	0.4	3.5 3.3	0.4	4.3
2003	0.5	3.3	0.3	4.2
2004	0.5 0.4 0.3	3.3	0.3	4.0
2005	0.3	3.3	0.5	4.1
2006	0.1	3.2	0.4 0.3	3.7
2007	(s) 0.7	3.4	0.3	3./ 4.E
2008 2009	0.7	ა.ე ე ე	0.4	4.5
2009	0.0 0.6	ა.ა 2.1	0.7	4.7 4.2
2010 2011	0.0	3.5 3.3 3.1 3.0	0.6	4.2 3.0
2012	0.0 (s)	2.8	0.5	3.3
2012 2013	(s)	3.2	0.5	3.7
2014	0.6 0.6 0.3 (s) (s) (s)	3.2 3.2	0.5 0.5	3.7
2015	(s)	3.0	1.0	4.0
2016	(s)	3.0 3.0	0.9	3.9
2017	(s) (s)	2.9 3.1	1.1	4.0
2018	<del>''</del>	3.1	1.0 1.2	4.1
2019	<del>-</del>	3.5 3.2 3.3	1.2	4.3 4.2 4.0 4.1 3.7 3.7 4.5 4.7 4.2 3.9 3.3 3.7 3.7 4.0 3.9 4.0 4.1 4.7 4.2 4.4 4.5 4.6
2020 2021 2022	(s)	3.2	1.0	4.2
2021	(s) (s) (s) (s)	3.3	1.1	4.4
2022	(s)	3.4	1.2	4.5
2023	(s)	3.4	1.2	4.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	3.4	3.7	2.4	9.5
1965 1970	4.1	3.8	2.4 2.5 2.6	10.4
1970	3.8 4.2	4.4	2.6	10.8
1975	4.2	3.4	3.5	11.1
1980	4.0	3.0	3.6 1.6	10.5 5.6 6.7 8.0 8.2 8.5 9.0 8.9 9.4
1985	1.6 1.5 1.5 0.7	2.4	1.6	5.6
1990	1.5	3.2	2.0 2.1	0.7
1995 1996	1.5 0.7	3.2 4.3 5.0	2.1	0.U 0.0
1990	0.7 1.5	5.0 4.6	2.4 2.5 2.5	0.2 8.5
1998	1.5 0.8	4.6 5.8 5.7	2.5	9.0
1999	0.8	5.7	2.4	8.9
2000	0.9 0.9 0.6	6.0	2.5	9.4
2001	0.6	9.1	2.9	12.7
2002	0.4	8.9 8.4 8.5 9.4	2.8	12.1
2003 2004 2005	0.6 0.6 0.7	8.4	2.7	11.7
2004	0.6	8.5	2.9 3.0	12.0
2005	0.7	9.4	3.0	13.1
2006	0.6 0.5 0.5	8.8 9.1	3.5 3.4	12.9
2007	0.5	9.1	3.4	13.0
2008	0.5	9.5	3.6	13.6
2009	0.3 0.7	10.4 10.7	2.6 2.9	13.2 14.3
2010	0.7	10.7	2.9 3.0	14.3 12.9
2011 2012	0.3 0.6	9.6 9.5	3.0	12.9
2012	0.6	9.3 0.3	3.0	13.1
2013 2014	0.7	9.3 9.8	3.4	14.0
2015	0.8	10.1	3.2	14.1
2016	0.6	10.1 8.6	2.9	12.1
2017	0.6	8.6	3.4	12.6
2018	0.4	8.9	3.8	13.1
2019	0.4	9.0	3.8	13.3
2020	0.4	9.3	3.2	12.8
2021	0.3 0.3	8.7	3.3 3.4	12.3
2022	0.3	8.6	3.4	12.3 11.8
2023	0.3	8.5	3.1	11.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	0.1	7.3	7.4
1965		0.1	9.7	9.8
1970	(s) (s) (s)	0.1	13.7	13.8
1975	(s)	0.3 0.4	16.6	16.8
1980		0.4	17.4	17.8
1985 1990	_	0.4 0.5	19.2 18.6	19.5 19.1
1990		0.0 0.6	21.7	19.1
1995 1996		0.6 0.6	22.2	22.3 22.8 22.7 23.8 25.3 25.8 27.0 26.8 26.6 29.2
1997	_	0.7	22.0	22.7
1998	_	0.5	23.3	23.8
1999	_	0.5	24.9	25.3
2000	_	0.5	25.2	25.8
2001	<del>-</del>	0.6	26.4	27.0
2002	_	0.6	26.2	26.8
2003 2004	_	0.6	26.1	26.6
2004	_	0.6 0.7	28.7 29.0	29.2 20.9
2006		0.7	29.9	29.0 30.6
2007	_	0.8	30.4	30.6 31.2
2008	_	0.9	28.7	29.6
2008 2009	<del>-</del>	0.9	27.9	28.8
2010	_	0.8	28.4	29.2
2011	_	0.8	27.7	29.6 28.8 29.2 28.4
2012	<del>-</del>	0.6	27.6	28.2
2013	_	0.5	27.6	28.1
2014 2015	_	0.5 0.5	28.4 28.0	29.0 28.6
2016		0.3	28.7	26.0 29.1
2017	<u> </u>	0.5	29.0	29.5
2018	_	0.6	29.8	30.4
2019	_	0.7	30.4	31.1
2020	_	0.6	24.9	25.5
2021	_	0.6	28.9	29.4
2022		0.5	31.4	31.9
2023	_	0.5	30.0	30.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Colorado (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	2.4	2.0	0.1	4.5
1965	4.4	1.7	(s) 0.1	4.5 6.2 9.3
1970	6.6	2.6	0.1	9.3
1975 1980	10.8	2.8	0.7	14.2
1980	19.3	1.6	0.2	21.0
1985 1990	26.5 30.5	0.2 0.7	0.1	26.8 31.2
1990	30.5 31.2	1.2	(s) (s)	31.2 32.4
1996	32.6	1.5	(S) (S)	3/1 1
1997	32.8	1.4	(s)	34.3 35.7 35.9 39.5 41.7
1998	32.8 33.9	1.8	(s) (s) (s) 0.1	35.7
1999	33 6	2.2	(s)	35.9
2000	35.9	3.5	0.1	39.5
2001	35.9 36.9 36.3 36.5	4.7	0.1	41.7
2002 2003	36.3	4.2	(s) (s)	40.5
2003	36.5	4.2 4.5	(s)	40.7
2004 2005	36.2 36.2	4.5	(s) (s)	40.8
2005	36.0 36.9	5.0 5.0	(S)	41.1 41.9
2007	36.5	6.7	(s) (s)	43.3
2007	35.6	5.8	(s)	41.4
2009	32.5	6.2	(s)	38.7
2010	35.3	5.0	(s)	40.3
2011	34.6 34.7	4.6	(s)	રુ ૧
2012	34.7	4.7	(s)	39.5
2013 2014	34.0 32.7	4.7 4.9 5.3 5.2 5.5 5.5	(s) (s) (s)	39.5 38.9 38.0 36.9 35.6 35.1
2014	32.7	5.3	(s)	38.0
2015	31.7	5.2	(s)	36.9
2016 2017	30.1 29.6	5.5	(s)	35.0
2017	29.6	5.5 7.2	(s)	35.1 34.1
2019	20.6 25.7	7.2	(s)	ઇ4.1 ૧૧ <i>/</i>
2020	20.4	7.0 8.1	(s) (s)	33.4 28.5
2021	23.9	6.6	(s)	30.5
2022	22.0	7.1	(s) (s) 0.2	29.2
2023	19.3	7.5	0.2	27.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	9.6	1.5	25.8	36.9
1965	9.6 12.2	1.5 2.2	27.4	36.9 41.8
1970	4.6	3.2	39.9	47.8
1975	0.1	3.4	38.1	41.6
1980	(s) 2.0 3.7 3.9 3.9	3.9 4.2 5.7	36.2	40.1 37.8
1985	2.0	4.2	31.6	37.8
1990	3.7	5.7	31.0	40.4 36.7 39.4
1995	3.9	7.6	25.2	36.7
1996	3.9	7.3	28.2	39.4
1997	4.3 3.1	7.8	30.2	42.3 39.9
1998	3.1	7.1	29.7	39.9
1999	1.4	8.2	31.5	41.2
2000	3.5	8.6	30.7	42.7
2001	3.8	7.9	29.9	41.6
2002	3.3	9.6	27.2	40.0
2003	4.0	8.3	30.6	42.9
2004	4.0 4.2 4.0	8.8 9.0	31.7	44.7
2005	4.0	9.0	30.7	43.8
2006	4.4	9.3 9.7	27.2 26.5	40.8
2007 2008	4.4 3.8 4.3 2.5 2.7	9.7	20.5	40.1 37.7 35.9 36.4 35.0
2008	4.3	10.0	23.5	37.7 25.0
2009	2.0 0.7	10.0	23.5 20.0	30.9 26.4
2010	0.6	12.5	22.9 21.9	30.4 25.0
2012	0.0	12.5	20.8	34.2
2012	0.9 0.7	12.7	21.2	34.2 34.6
2013	0.7	12.7	21.2	34.6 34.9 36.2 33.7
2015	0.6	13.7	21.3	36.2
2016	0.2	13.4	20.0	30.2 33.7
2017	0.2	13.0	20.2	33.7
2018	0.4	15.1	21.5	36.0
2019	0.4	15.5	20.7	33.5 36.9 36.2
2020	(e)	15.7	17.7	33 <i>I</i>
2021	(s) 0.3	16.1	19.8	33.4 36.2 37.0 36.2
2022	— 0.0 —	16.2	20.8	37.0
2023		16.1	20.1	36.2
_0_0		10.1	20.1	00.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.3	0.9 1.2 1.7 1.7	7.4 6.5 6.5 5.8	8.6
1960 1965 1970	0.3 0.1	1.2	6.5	7.8
1970	0.1	1.7	6.5	8.2
1975 1980	0.1 (s) (s) (s) (s)	1./	5.8	/.6 7.0
1980	(S)	1.7 1.8 2.0 2.2 2.4 2.2 1.9 2.1 2.3 2.2 2.5 2.4 2.4 2.1 2.4 2.1 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.5 2.8 2.8 2.8 2.8	6.0 5.1	7.8 6.0
1985 1990	(5)	2.0	6.1	8.1
1995	(s)	2.2	5.6	7.8
1996 1997	(s) (s)	2.4	5.9	8.3
1997	(s)	2.2	5.9	8.1
1998	(s) (s)	1.9	5.1	7.0
1999	(s) (s)	2.1	5.8	7.9
2000	(S)	2.3	6.5	8.7
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	(s) (s)	2.2	6.1 5.6 5.9 5.9 5.1 5.8 6.5 6.2 6.0 7.3 7.9 6.9 5.9 5.9	0.0 8.2
2002	(5)	2.2	7.3	9.8
2004	(S) (S)	2.4	7.9	10.3
2005	(s) (s) (s) (s)	2.4	6.9	9.3
2006	(s)	2.1	5.9	8.1
2007	(s)	2.4	5.9	8.3
2008	_	2.3	5.8	8.1
2009	_	2.4	5./	8.1 7.6
2010		2.3 2.4	5.7 5.3 4.8	7.0 7.0
2009 2010 2011 2012		2.4	4.4	6.7
2013 2014 2015 2016	_	2.5	4.7	7.3
2014	_	2.8	4.8	7.5
2015	_	2.8	5.0 3.6	7.7
2016	<del>-</del>	2.5	3.6	6.1
2017	_	2.6	3.7	6.3
2017 2018 2019	_	2.9	4.3	7.2 7.1
2019	_	2.6 2.9 2.8 2.7	4.2 3.7	/.I 6./
2020	_	2.7	3.7 4.3	7 1
2022	_	2.7 2.8	4.3 4.2	7.0
2021 2022 2023	_	2.6	4.2	8.6 7.8 8.2 7.6 7.8 6.9 8.1 7.8 8.3 8.1 7.0 7.9 8.7 8.5 8.2 9.8 10.3 9.3 8.1 8.1 8.3 8.1 7.6 7.2 6.7 7.3 7.5 7.7 6.1 6.3 7.2 7.1 6.4 7.1 7.0 6.8

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2 0.1	0.2	2.7 2.5 2.6	3.0
1965	0.1	0.3	2.5	2.9
1970 1975	(s) (s) (s) (s) 0.1	0.8 0.8	2.6	3.4
1975	(s)	0.8	2.3 2.0 2.6 2.2	3.2
1980 1985	(s)	1.1	2.0	3.1
1985	0.1	1.3	2.6	4.0
1990 1995	(s) (s)	1.6	2.2	3.8
1995	(s)	2.1 2.2	1.7	3.8
1996	(s)	2.2	1.9	4.1
1997	(s)	2.3 2.3	1.9 1.7	4.3
1998	(s)	2.3	1.7	4.0
1999	(s)	2.6	1.7	4.3
2000	(s)	2.6	1.9	4.5
2001	(s)	2.4	1.9	4.3
2002	(s)	2.2 2.1	1.9	4.1
2003 2004	(s)	2.1	2.8	5.0
2004	(s)	1.9	2.0	3.9
2005	(s) (s) (s)	1.9	1.8	3.7
2006 2007	(S)	1.8	1.5	3.3
2007	(S)	2.0	1.5 1.4 1.3	3.3 2.4
2000	=	2.0	1.0	0.4 0.0
2009	<del>-</del>	2.2 2.0	1.1 1.1	3.3 2.4
2010	_	2.Z 2.A	1.1	0.4 2.6
2010 2011 2012 2013	_	2.4 2.2	0.9	3.0 2.0
2012	_	2.5	1.1	3.2 3.6
2013	_	1.8 2.0 2.0 2.2 2.2 2.4 2.3 2.5 2.8	1.0	3.0
2015		2.0	1.5	Δ.0 Λ.3
2016	_	2.8 2.7	1.1	3.8
2017	_	20	1.0	3.0
2018	<u> </u>	2.9 3.2	1.1	4.3
2019	_	3.1	1.0	41
2020		28	0.9	3.0 2.9 3.4 3.2 3.1 4.0 3.8 3.8 4.1 4.3 4.0 4.3 4.5 4.3 4.1 5.0 3.9 3.7 3.3 3.3 3.4 3.4 3.6 3.2 3.6 3.2 3.6 3.8 4.3 4.3 4.3 4.3 4.1 5.0 3.9 3.7 3.3 3.3 3.3 3.4 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6
2020 2021 2022	_	2.8 2.9	0.9 1.2	4 2
2022	_	3.0	1.2	4.2
2023	_	3.0	1.2	4.2
		0.0	112	112

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Odai	Haturai gas	i cuoicum	Total
1960	2.1	0.4	6.6	9.1
1965	1.9	0.7	7.2	9.8
1970 1975	0.3	0.8	7.7	8.8
1975	2.1 1.9 0.3 0.1	0.8	6.6 7.2 7.7 5.5 4.9 1.8 1.5 0.9 1.0 0.8 0.7	6.3
1980	_	1.1	4.9	5.9
1985	(s) (s)	1.0	1.8	2.8
1990 1995	(\$)	1.4	1.5	2.8
1995	<del>-</del>	1./ 1.7	0.9 1.0	2.0 2.7
1996 1997		1.7	0.8	2.7
1998	_	1.7	0.7	2.4
1999	_	1.7	0.8	2.5
1998 1999 2000 2001	_	1.7	0.8 0.9 1.1	2.6
2001	_	1.3	1.1	2.4
2002 2003 2004 2005	_	0.4 0.7 0.8 0.8 1.1 1.0 1.4 1.7 1.7 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.7	0.8 1.5	2.3
2003	_	1.3	1.5 1.4	2.8
2004	<u> </u>		1.4	2.5 2.5
2006	(5)	12	1.3	2.3
2007	_	1.2	1.0	2.2
2006 2007 2008	_	1.2 1.2 1.2 1.2	0.6	1.8
2009	_	1.3 1.3 1.4	0.7	2.0
2010	_	1.3	0.6 0.6	1.9
2009 2010 2011 2012	_	1.4	0.6	2.0
2012	_	1.4 1.6	0.4 0.5 0.5 0.4	1.9
2013		1.0	0.5 0.5	2.1
2014 2015 2016	_	1.3	0.4	1.8
2016	_	1.3	0.4	1.7
2017	_	1.3	0.4	1.7
2018	_	1.3	0.4	1.7
2018 2019 2020	<del>-</del>	1.4 1.6 1.5 1.3 1.3 1.3 1.3 1.3	0.4	1.7
2020	_	1.2	0.5	1.7
2021	_	1.2 1.1	0.4	1.6
2021 2022 2023		1.1	0.5 0.5	9.1 9.8 8.8 6.3 5.9 2.8 2.6 2.7 2.6 2.4 2.5 2.6 2.4 2.3 2.8 2.5 2.5 2.4 2.2 1.8 2.0 1.9 2.0 1.9 2.1 2.0 1.9 2.1 2.0 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
2020	_	1.1	0.3	1.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	(s)	8.2	8.3
1965	(s) (s) (s)	(s) (s) (s)	10.0	10.0
1970	(s)	(s)	13.0	13.0
1975	(s)	(s)	14.0	14.0
1980		(s) (s) (s) (s) 0.1	13.2	13.2
1985	_	(s)	14.0	14.0
1990	_	(s)	14.6	14.6
1995	_	0.1	14.3	14.3
1996	_	0.1	15.1	15.1
1997	_	0.1	15.0	15.2
1998	_	0.1	15.4	15.4 16.7
1999	_	0.2	16.5	16.7
2000	_	0.2	16.1	16.3
2001 2002	_	0.2	16.7	16.9
2002	_	0.1	16.7	16.8
2003 2004	_	0.2	17.4	17.6
2004	_	0.2 0.2 0.2	19.1	19.3 18.3
2005	_	0.2	18.1	18.3
2006	_	0.2 0.2	17.4	17.5
2007 2008	_	0.2	17.2	17.4
2008	<del>-</del>	0.2 0.3	16.2 15.7	16.4 16.0
2010	_	0.3	15.7	15.9
2010	_	0.3	15.3	15.6
2012	_	0.3	15.0	15.2
2012	_	0.3	14.6	14.0
2013 2014		0.2 0.3	14.6	14.9 14.9
2015		0.5 0.3	14.7	15.0
2016	_	0.3 0.2	14.9	15.1
2017	_	0.3	15.0	15.3
2018	<del>_</del>	0.3	15.4	15.7
2019	<u> </u>	0.3	15.0	15.7 15. <i>1</i>
2019 2020	_	0.4	12.6	15.4 13.0
2021	_	0.4	13.8	14.2
2022	_	0.3	14.6	14.9
2023	_	0.3	14.1	14.4
		0.0	1111	1111

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Connecticut (million metric tons of carbon dioxide (CO2))

J	01	National name 2	Bataslassa h	T
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	7.0	0.1	0.8	7.9
. 1965	10.1	(s)	1.3	7.9 11.4
1970	4.2	(s) (s)	10.1	14.3
1975	(s)	(s)	10.6	10.6 10.2 10.1
1980	_	_	10.2	10.2
1985 1990	1.9	0.1 0.7	8.1	10.1 11.0
1990 I 1995	3.0	0.7 1.6	6.7 2.7	11.0 8.1
1995 1996	3.9	1.6 1.0	4.3	9.1
1997	1.9 3.6 3.8 3.9 4.3 3.1 1.4	1.3 1.1	6.6	11.0 8.1 9.1 12.2 11.1
1998	3.1	1.1	6.9 6.7	11.1
1999	1.4	1.7	6.7	9.9
2000	3.4	1.8 1.7	5.4 3.9	10.6
2001	3.4 3.8 3.3 4.0 4.2 4.0	1./	3.9	9.5 o e
2002 2003 2004	ა.ა 4 0	ა.ა 2.3	1.0 1.6	0.0 7 Q
2003	4.2	3.2	1.3	7.3 8.7
2005	4.0	3.5 2.3 3.2 3.4	1.8 1.6 1.3 2.5	9.9
2006 2007 2008	4.4	4.1	1.1	9.5
2007	3.8	4.0	1.1	8.8
2008	4.3	3.2	0.4 0.3	7.9
2009	2.5	3.8 4.6	0.3	0.0 7.7
2010	4.4 3.8 4.3 2.5 2.7 0.6	5.9	0.4	7.7 6.6
2012	0.0	6.2	0.1	7.2
2013	0.9 0.7	6.2 5.8 5.5 6.5 6.7 5.9	0.1 0.2	6.8
2014	0.9 0.6 0.2 0.2	5.5	0.4 0.3	6.7
2015	0.6	6.5	0.3	7.4
2016	0.2	6.7	0.1 0.1	7.0
2017	0.2 0.4	5.9 7.4	0.1 0.2	b.3 0 0
2010 2010	0.4 0.1	7.4 7.8	0.2 (e)	0.0 7 Q
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	0.1 (s) 0.3	7.8 8.6	(s) (s)	9.9 10.6 9.5 8.6 7.9 8.7 9.9 9.5 8.8 7.9 6.6 7.7 6.6 7.2 6.8 6.7 7.4 7.0 6.3 8.0 7.9 8.7 9.2 9.2
2021 2022	0.3	8.9	(s)	9.2
2022	_	8.9 9.0	(s) 0.3 0.1	9.2
2023	_	9.1	0.1	9.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		. Tatalai gao		1014
1960	1 9	0.5	8.9	11.3
1965	2.8	1.0	9.4	13.2
1970	1.9 2.8 3.5 2.2 2.7	1.4	11.0	13.2 15.9
1975	2.2	1.0	12.2	15.4
1980	2.7	1.6	13.0	17.3 17.3
1985	6.8 5.7	2.1	8.5	17.3
1990	5.7	1.9	10.2	17.8
1995 1996	5.0 4.8	3.3 2.9	9.2 10.3	17.5 18.1
1997	4.6	2.5	9.7	16.8
1998	4.4	2.2	9.6	16.1
1999	3.4	3.0	9.9	16.4
2000	4.8	2.6	9.9 9.3	16.7
2001	3.6	2.7	9.6	16.0
2002	3.9 4.5 5.1	2.8	9.1	15.8
2003	4.5	2.5	9.5 8.8	16.5 16.6
2004	5.1	2.6	8.8	16.6
2005 2006	5.4	2.6 2.4	9.3	17.3 16.2
2006	5.4 6.1	2.4	8.5 8.4	16.2 17.1
2008	5.1	2.6	7.7	16.2
2009	3.2	2.7	6.0	11.9
2010	2.9		6.0 7.2	13.1
2011 2012	5.8 3.2 2.9 1.7 1.7	4.3	7.8	13.1 13.9
2012	1.7	5.5	7.4	14.6
2013	1.7	3.0 4.3 5.5 5.3 5.6 5.6 5.9	7.0 7.2	14.0 13.8
2014	1.0 0.7 0.8 0.5	5.6	7.2	13.8
2015 2016	0.7	5.6	7.6 7.7	13.9 14.4
2016	0.8 0.5	5.9	7.7 7.9	13.7
2017	0.5	5.2	7.9 8.3	13.7
2019	0.4 0.2 0.2	4.9	8.3 8.5	13.6
2020	0.2	4.6	7.3	12.2
2021	0.4	4.3	7.9	12.7
2022	0.2	4.7	7.8 7.7	12.7 12.2
2023	(s)	4.4	7.7	12.2
	. ,			

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

## E

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

\$\begin{array}{cccccccccccccccccccccccccccccccccccc					
1970	Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1970   (s)	1960	(s)	0.2	1.0	12
1970   (s)	1965	(s)	0.3	1.0	1.2 1.4
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0.6         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1970	(s)	0.4	1.1	1.5 1.4
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0.6         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1975	(s)	0.4	1.0	1.4
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1980	(S)	0.4	0.8	1.1
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1900	(8)	0.3 0.3	1.0 0.7	1.4 1.0
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0.6         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1995	(s)	0.5	0.7	1.2
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0.6         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1996	(s)	0.5	0.7	1.3
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0.6         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1997	(s)	0.5	0.6	1.1
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1998	(s)	0.4	0.6	1.1
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	1999	(s)	0.5	0.6	1.1
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	2000	(S)	0.5 0.5	0.7 0.7	1.2 1.2
2003       —       0.6       0.7       1         2004       —       0.6       0.7       1         2005       —       0.6       0.6       0         2006       (s)       0.5       0.5       1         2007       (s)       0.6       0.5       1         2008       —       0.5       0.4       1         2010       —       0.6       0.5       1         2011       —       0.6       0.5       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       0         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.7       0.4       1         2019       —       0.6       0.6	2001	(5)	0.5 0.5	0.7	1.2
2009       —       0.6       0.5       1         2010       —       0.6       0.5       1         2011       —       0.5       0.4       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.4       1         2019       —       0.6       0.4       1         2019       —       0.6       0.4       1	2002	_	0.6	0.7	1.3
2009       —       0.6       0.5       1         2010       —       0.6       0.5       1         2011       —       0.5       0.4       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.4       1         2019       —       0.6       0.4       1         2019       —       0.6       0.4       1	2004	<del>-</del>	0.6	0.7	1.2
2009       —       0.6       0.5       1         2010       —       0.6       0.5       1         2011       —       0.5       0.4       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.4       1         2019       —       0.6       0.4       1         2019       —       0.6       0.4       1	2005	<del></del>	0.6	0.6	1.2
2009       —       0.6       0.5       1         2010       —       0.6       0.5       1         2011       —       0.5       0.4       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.4       1         2019       —       0.6       0.4       1         2019       —       0.6       0.4       1	2006	(s)	0.5	0.5	1.0
2009       —       0.6       0.5       1         2010       —       0.6       0.5       1         2011       —       0.5       0.4       1         2012       —       0.5       0.3       0         2013       —       0.6       0.4       0         2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.6       0.4       1         2019       —       0.6       0.4       1         2019       —       0.6       0.4       1	2007	(S)	0.6 0.5	0.5	1.0
2013     —     0.6     0.4     0.6       2014     —     0.6     0.4     1       2015     —     0.6     0.4     1       2016     —     0.5     0.3     0       2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1	2000		0.5 0.6	0.4 0.5	1.0
2013     —     0.6     0.4     0.6       2014     —     0.6     0.4     1       2015     —     0.6     0.4     1       2016     —     0.5     0.3     0       2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1	2010		0.0	0.5	1.0
2013     —     0.6     0.4     0.6       2014     —     0.6     0.4     1       2015     —     0.6     0.4     1       2016     —     0.5     0.3     0       2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1	2011	_	0.5	0.4	1.0
2013     —     0.6     0.4     0.6       2014     —     0.6     0.4     1       2015     —     0.6     0.4     1       2016     —     0.5     0.3     0       2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1	2012	_	0.5	0.3	0.8
2014       —       0.6       0.4       1         2015       —       0.6       0.4       1         2016       —       0.5       0.3       0         2017       —       0.5       0.3       0         2018       —       0.7       0.4       1         2019       —       0.6       0.4       1         2020       —       0.6       0.3       0         2021       —       0.6       0.3       1         2022       —       0.7       0.4       1         2023       —       0.6       0.3       0.7         2023       —       0.6       0.3       0.7         2021       —       0.6       0.3       0.7         2022       —       0.6       0.3       0.7         2023       —       0.6       0.3       0.7         2024       —       0.6       0.3       0.7         2025       —       0.6       0.3       0.7         2026       —       0.6       0.3       0.7         2027       —       0.6       0.7       0.7       0.4	2013	_	0.6	0.4	0.9
2015     —     0.6     0.4       2016     —     0.5     0.3     0       2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1       2020     —     0.6     0.3     0       2021     —     0.6     0.3     1       2022     —     0.7     0.4     1       2023     —     0.6     0.3     0       2023     —     0.6     0.3     0	2014	_	0.6	0.4	1.0
2017     —     0.5     0.3     0       2018     —     0.7     0.4     1       2019     —     0.6     0.4     1       2020     —     0.6     0.3     0       2021     —     0.6     0.3     1       2022     —     0.7     0.4     1       2023     —     0.6     0.3     1       2023     —     0.6     0.3     1	2015	<del>-</del>	0.b 0.5	0.4	1.0 0.8 0.8
2018 — 0.7 0.4 1 2019 — 0.6 0.4 1 2020 — 0.6 0.3 0.2 2021 — 0.6 0.3 1 2022 — 0.7 0.4 1 2023 — 0.7 0.4 1	2010		0.5 0.5	0.3	0.0
2019     —     0.6     0.4     1       2020     —     0.6     0.3     0       2021     —     0.6     0.3     1       2022     —     0.7     0.4     1       2023     —     0.6     0.3     1	2018	_	0.7	0.4	1.0
2020     —     0.6     0.3     0       2021     —     0.6     0.3     1       2022     —     0.7     0.4     1       2023     —     0.6     0.3     0.3	2019	_	0.6	0.4	1.0 0.9
2021     —     0.6     0.3     1       2022     —     0.7     0.4     1       2023     —     0.6     0.3     0.3	2020	_	0.6	0.3	0.9
2022 — 0.7 0.4 1 2023 — 0.6 0.3	2021	_	0.6	0.3	1.0
	2022	_	0.7	0.4	1.0 1.0 0.9
	2023		0.6	0.3	0.9

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	<u> </u>	<u> </u>	<u> </u>	<u> </u>
1960	(s)	(s)	1.2	1.2
1965 1970	(s)	(s) 0.1	1.2 1.3	1.4
1970	(s)	0.2	1.2	1.4
1975	(s)	0.2	0.9 2.3 0.3	1.4 1.4 1.1 2.5 0.5 0.6 0.6 0.7 0.7 0.7 0.6 0.6 0.6 0.7 0.7 0.7 0.7 0.7 0.8 0.8 0.8 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.9 0.9 0.9
1980	(s)	0.2 0.2	2.3	2.5
1985	(s)	0.2	0.3	0.5
1990	(s)	0.2	0.3	0.6
1995 1996	(s)	0.3	0.3	0.6
1996	(s)	0.4	0.3 0.3 0.3 0.3	0.7
1997 1998	(s)	0.4 0.3	0.3	0.7
1998	(s)	0.3	0.3	U.0
2000	(s) (s) (s)	0.3 0.3 0.3 0.3	0.3 0.3 0.4	0.0 0.6
2000	(S) (S)	0.3 0.3	0.3	0.0 0.7
2001 2002	(9)	0.3	0.3	0.7
2002	_	0.4	0.3	0.7
2003 2004	<u> </u>	0.5	0.3	0.8
2005	_	0.5 0.5 0.5 0.5	0.3 0.3 0.3	0.7
2006	(s) (s)	0.4	0.3	0.7
2007	(s)	0.5	0.3 0.2	0.7
2008	<u>'</u>	0.5	0.2	0.6
2009	_	0.6 0.7	0.2 0.2 0.1	0.8
2010	_	0.7	0.2	0.8
2011 2012	<del>-</del>	0.6	0.1	0.7
2012	_	0.5	0.1	0.7
2013 2014	_	0.6 0.7	0.1	0.8
2014	_	0.7	0.2	0.8
2015 2016	<del>-</del>	0.7 0.7	0.3 0.2	0.9
2016	_	0.7	0.2	0.9
2018		0.7	0.2 0.2	1.1
2019		0.9	0.2 0.2	1.1
2020		0.9	0.2	0.7
2021	_	0.6	0.2	0.7 0.8
2022	<u> </u>	0.6	0.2	0.8
2023	_	0.6	0.2 0.2 0.2 0.2	0.8 0.8 0.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         T           1960         0.1         0.1         3.6           1965         0.1         0.3         3.9           1970         0.1         0.6         3.4           1975         0.1         0.4         3.2           1980         0.4         0.7         2.9           1985         0.5         1.1         1.6           1990         0.5         0.8         2.9           1995         0.5         1.0         3.2           1996         0.4         0.8         3.6           1997         0.4         0.8         3.4           1998         0.4         0.9         3.0           1999         0.4         1.2         3.2           2000         0.4         1.1         2.6           2001         0.4         1.1         2.8           2002         0.2         0.9         2.6           2003         0.2         0.8         2.6           2004         0.3         0.9         2.4           2005         0.3         0.9         2.4           2006	
1970       0.1       0.6       3.4         1975       0.1       0.4       3.2         1980       0.4       0.7       2.9         1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7	otal
1970       0.1       0.6       3.4         1975       0.1       0.4       3.2         1980       0.4       0.7       2.9         1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7	0.7
1970       0.1       0.6       3.4         1975       0.1       0.4       3.2         1980       0.4       0.7       2.9         1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7	3.7 4.4 4.1 3.6 4.0 3.3 4.2 4.7 4.7 4.6 4.3 4.7 4.4 4.2 3.8 3.6 3.6 3.8 3.6 3.7 3.6 3.7 3.6 3.7 3.6 3.9 3.9 3.9 3.8 3.6 3.6 3.6 3.7
1975       0.1       0.4       3.2         1980       0.4       0.7       2.9         1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	4.4 1.1
1980       0.4       0.7       2.9         1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	3.6
1985       0.5       1.1       1.6         1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	4.0
1990       0.5       0.8       2.9         1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4         2006       0.3       0.9       2.4	3.3
1995       0.5       1.0       3.2         1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	4.2
1996       0.4       0.8       3.6         1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	4.7
1997       0.4       0.8       3.4         1998       0.4       0.9       3.0         1999       0.4       1.2       3.2         2000       0.4       1.4       2.6         2001       0.4       1.1       2.8         2002       0.2       0.9       2.6         2003       0.2       0.8       2.6         2004       0.3       0.9       2.4         2005       0.3       0.8       2.7         2006       0.3       0.9       2.4	4.7
1998     0.4     0.9     3.0       1999     0.4     1.2     3.2       2000     0.4     1.4     2.6       2001     0.4     1.1     2.8       2002     0.2     0.9     2.6       2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	4.6
1999     0.4     1.2     3.2       2000     0.4     1.4     2.6       2001     0.4     1.1     2.8       2002     0.2     0.9     2.6       2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	4.3
2000     0.4     1.4     2.6       2001     0.4     1.1     2.8       2002     0.2     0.9     2.6       2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	4.7
2001     0.4     1.1     2.8       2002     0.2     0.9     2.6       2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	4.4
2002     0.2     0.8     2.6       2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	4.2
2003     0.2     0.8     2.6       2004     0.3     0.9     2.4       2005     0.3     0.8     2.7       2006     0.3     0.9     2.4	3.8
2004 0.3 0.9 2.4 2005 0.3 0.8 2.7 2006 0.3 0.9 2.4	3.0 2.6
2006 0.3 0.9 2.4	3.0 3.8
2000 2,7	3.6
2007 0.3 0.9 2.4	3.5
2008 0.2 1.0 2.2	3.3
2009 0.1 0.9 0.5	1.4
2009     0.1     0.9     0.5       2010     —     0.4     1.0	1.5
2010     —     0.4     1.0       2011     —     1.1     2.3	3.3
2012 — 1.5 2.1	3.6
2013 —	3.7
2014     —     1.7     1.9       2015     —     1.8     2.0	3.6
<u>2015</u> — 1.8 2.0	3.8
2016 0.2 1.7 2.1 2017 — 1.6 2.1	4.0
2017 — 1.6 2.1	3.7
2018     —     1.6     2.0       2019     —     1.8     2.1	3.6
2019 — 1.8 2.1	3.9
2020     —     1.8     2.0       2021     —     1.7     2.0	3.9
2021 — 1.7 2.0 2022 — 1.6 2.0	3.8 2.6
2021     —     1.7     2.0       2022     —     1.6     2.0       2023     —     1.7     1.8	3.6
1.7	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1000	(-)		0.4	0.4
1960 1965	(s)		3.1 3.1	3.1 3.6 3.9 3.9 4.1 4.5 4.3 4.8 4.7 4.7 4.9 5.1 4.7 4.9 4.9 4.9 4.9 5.1 5.2 5.2 5.2 4.9 4.7 5.5 5.0 4.6 4.6 4.8 5.0 5.3 5.6 5.8 4.9 5.4 5.4 5.4
1965 1970	(s) (s) (s)	_	3.6	3.6
1975 1980	(s)	_	3.9 3.9 4.1 4.5 4.3 4.8 4.7	3.9
1980			3.9	3.9
1985	_	(s)	4.1	4.1 4.5
1990		(5)	4.5	4.5
1990 1995 1996	_	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	4.8	4.8
1997 1998	_	(s)	4.7	4.7
1998	<del>-</del>	(s)	4.7	4.7
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	_	(S)	4.9	4.9
2000 2001	_	(S)	5.1 4.7	5.1 4.7
2001	<u> </u>	(S)	5.1 4.7 4.9 4.9 4.9 5.1 5.2 5.2 4.9 4.7 5.5	4.7
2003	_	(s)	4.9	4.9
2004	_	(s)	4.9	4.9
2005	<del>-</del>	(s)	5.1	5.1
2006	_	(\$)	5.2	5.2
2007		(S)	5.2 4.9	5.2 // 0
2009		(S)	4.7	4.7
2010	<del>-</del>	(s)	5.5	5.5
2011	_	(s)	5.0	5.0
2012	<del>-</del>	0.1	4.8	4.9
2013	_	0.1 0.1	4.8 4.5 4.6 4.8	4.b
2014		0.1	4.0	4.0
2016	_	0.1	5.0	5.0
2016 2017	_	(s)	5.0 5.3 5.6	5.3
2018	_	(s)	5.6	5.6
2019		(s)	5.8	5.8
2019 2020 2021 2022	_	(s) (s) (s) (s) (s) (s) (s)	4.9 5.3	4.9 5.1
2021		(S) (e)	5.3	5.4 5.2
2023	_	(S)	5.4	5.4
		(0)		0.1

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&#</sup>x27;c' Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Delaware (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.8	0.2	(s)	20
1960 1965	1.8 2.6	0.3	(s) (s) 1.6	2.9
1970	3.4	0.2	1.6	5.3
1975 1980	2.1 2.2 6.3 5.1	0.1	3.1	5.3
1980	2.2	0.4	3.1	5.7
1985	0.3 E 1	0.4	1.5 1.9	8.2
1990 1995	5.1 4.5	0.5 1.5	0.7	7.5 6.7
1996	4.5	0.5 1.5 1.3	0.9	6.7 6.6
1997	4.5 4.4 4.2 3.9 3.1 4.3 3.2 3.6 4.2 4.8 5.1	0.9	0.7	5.7
1997 1998	3.9	0.9 0.6	0.7 1.0	5.5
1999	3.1	1.0 0.5	1.0	5.1
2000	4.3	0.5	0.5	5.3
2001	3.2	0.8 0.9	1.1	5.2
2002 2003	3.6	0.9	0.6	5.1
2003	4.2 4.8	0.6 0.7	1.0 0.5	5.9 6.0
2004 2005	4.0 5.1	0.7	0.6	6.4
2006	5.1	0.5	0.1	5.8
2007	5.8	0.7	0.1	6.7
2008 2009	5.8 5.6 3.2 2.9	0.6	0.1	6.3
2009	3.2	0.6	0.1	3.9
2010	2.9	1.3	(s)	4.3
2011	1.7	2.1	(S)	3.8
2012	1. <i>1</i> 1.7	2.9 2.3	(S)	4.0 <i>1</i> .1
2011 2012 2013 2014	1.7 1.7 1.7 1.0 0.7	2.9 2.3 2.6 2.5 3.0 2.5	(s) (s) (s) (s) 0.1	36
2015	0.7	2.5	0.1	3.3
2016	0.6	3.0	(s)	3.6
2015 2016 2017	0.5	2.5	(s) (s) 0.1	2.9
2018	0.4	2.0	0.1	2.6
2019 2020	0.2 0.2	2.0 1.5 1.6	(s) (s)	2.0 2.9 5.3 5.3 5.7 8.2 7.5 6.7 6.6 5.7 5.5 5.1 5.9 6.0 6.4 5.8 6.7 6.3 3.9 4.3 3.8 4.6 4.1 3.6 3.3 3.6 2.9 2.6 1.8 1.8 1.8 2.0 1.5
2020	0.2	1.6	(S)	1.8
2021	0.4 0.2	1.3 1.7	(s) 0.1	1.8
2021 2022 2023	0.2 (s)	1.7	(s)	2.U 1.5
2020	(9)	1.0	(5)	1.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
I Cai	Coai	ivaturai gas	renoieum	Total
1960	2.6	0.7	43	7.7
1965	1.3	0.9	4.3 6.8 9.5	7.7 9.0 13.6 7.9 5.2 4.7 4.4 4.4 4.4 4.3 4.1
1965 1970	1.3 2.7	1.4	9.5	13.6
1975	1.0 0.3 0.3 0.2 (s)	1.4	5.5	7.9
1980	0.3	1.5 1.6	3.5 2.8 2.7 2.6 2.5 2.3 2.4 2.4	5.2
1985	0.3	1.6	2.8	4.7
1990	0.2	1.5 1.8 1.8 1.8 1.7	2.7	4.4
1995 1996 1997 1998	(S)	1.0 1.0	2.0 2.5	4.4 4.4
1990		1.0	2.3	4.4
1998	(s)	1.7	2.4	4.1
1999	(s)	1.7	2.4	4.1
2000	0.1 (s) (s) (s) 0.1	1.8	2.5 2.4	4.3 4.1
2001	0.1	1.6	2.4	4.1
2002	(s) (s) 0.1	1.8	2.4 2.2 2.2 2.2 2.1	4.2
2003	(s)	1.8	2.2	4.0
2004 2005	0.1	1.8 1.8	2.2	4.0
2005	0.1	1.8	2.1	3.9
2006 2007	(2)	1.6 1.8	1.0 1.5	3.2 3.1
2008	(3)	1.7	1.3	3.4
2000	(s)	1.8	1.3	3.2
2010	(s)	1.8	1.4	3.2
2011	(s) (s) (s) (s) (s) (s)	1.8	1.6 1.5 1.3 1.3 1.4 1.3	3.1
2010 2011 2012 2013 2014	(s)	1.8 1.8 1.6	1.1	2.6
2013	(s)	1.8	1.0	2.8
2014	(s) (s) (s)	1.9	1.1	3.0
2015 2016	(S)	1.8 1.6	1.2 1.2	3.0
2016	(s)	1.0	1.2	2.8
2017	(S)	1.6 1.7	1.0 1.1	2.0 2.0
2019	(5)	1.7	1.1	2.9
2020	(s) (s) (s)	1.5	0.9	4.2 4.0 4.0 3.9 3.2 3.4 3.1 3.2 3.2 3.1 2.6 2.8 3.0 3.0 2.8 2.6 2.9 2.8 2.6 2.9 2.8
2021 2022 2023	_	1.5	1.1	2.6
2022	<del>-</del>	1.6	1.1	2.6
2023	_	1.4	1.1	2.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

S					
Т					
R	Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
ī	1000	0.0	0.5	0.0	1.0
1	1960 1965	0.2 0.1	0.5 0.6 0.7 0.7	0.6 0.6	1.3 1.3
C	1965 1970	0.1	0.7	0.6 0.7	1.5
т	1975 1980	(s) 0.1	0.7	0.5	1.2
•	1980	0.1	0.7 0.9 0.8 0.8 0.9 0.9	0.3	1.1
	1985	0.1	0.9	0.2	1.2
0	1990	(s)	0.8	0.1 0.1	0.9
	1995	(S) (S)	0.0 0.9	0.1	1.0
F	1995 1996 1997	(S)	0.9	0.1	1.0
	1998	(s)	0.7	0.1	0.8
	1999 2000 2001 2002 2003 2004	(s)	0.8 0.8 0.7 0.8 0.8 0.8	0.1	0.9
C	2000	(s)	0.8	0.1	0.9
0	2001	(s)	0.7	0.1 0.2	0.8
0	2002	(s) (s)	0.8 0.8	0.2 0.2	0.9 1.0
L	2003	(s)	0.0	0.2	1.0
	2005	(s)	0.8	0.2 0.2 0.2	0.9
U	2005 2006	<del>\( \frac{\frac{1}{2}}{2} \)</del>	0.6	0.1 0.1	0.7
M	2007 2008	(s)	0.6 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.8	0.1	0.8
	2008	_	0.7	0.1	0.8
В	2009	_	0.7 0.7	0.1 0.1	0.8
- 1	2010		0.7	0.1 (s)	0.0 0.7
•	2012	_	0.6	(s) 0.1	0.7
Α	2013	<del>-</del>	0.7	0.1 0.1	0.8
	2009 2010 2011 2012 2013 2014	_	0.8	0.1	0.8
	2015 2016	<del>-</del>	0.7	0.1	0.8
	2016	_	0.6	(s) (s) 0.1	0.6
	2017		0.7 0.7	(S) 0.1	0.7 0.8
	2017 2018 2019		0.7	0.1 (s)	0.0 0.7
	2020	_	0.6	(s) (s)	1.3 1.3 1.5 1.2 1.1 1.2 0.9 1.0 1.1 1.0 0.8 0.9 0.9 0.9 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.8 0.9 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.7 0.7 0.7 0.8 0.8 0.8 0.7 0.7 0.7 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9
	2020 2021	_	0.6 0.6 0.7	(S)	0.7
	2022	_	0.7	(s) (s)	0.7
	2023	<del>-</del>	0.6	(s)	0.6

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

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<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	0.4	0.0	4.0	4.5
1960 1965	0.1 0.1	0.2 0.3	1.2 2.4	1.5 2.8 3.7 1.6 1.2 1.4 1.4 1.2 1.4 1.4 1.3 1.2 1.3 1.4 1.3 1.2 1.3 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.0 9 1.0 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0
1965 1970 1975	(s)	0.6	3.0	3.7
1975	(s) (s) 0.2 0.3 0.1	0.7	0.9 0.3 0.5	1.6
1980	0.2	0.7	0.3	1.2
1985	0.3	0.6	0.5	1.4
1990	0.1	0.7	0.4	1.2
1995	(s) (s)	0.9 0.9	0.5	1.4
1996 1997	0.1	1.0	0.5 0.3	1.4 1. <i>1</i>
1998	(s)	0.9	0.3	1.4
1999	(s) (s) (s) (s) 0.1	1.0	0.2	1.2
2000	(s)	1.0	0.4	1.3
2001	Ò.1	0.9	0.4	1.4
2002	(s) (s) 0.1	1.0	0.3	1.3
2003 2004	(s)	0.9	0.3	1.2
2004	0.1	0.9	0.3	1.3
2005 2006	0.1	1.0 0.9	0.3 0.2	1.3
2006	<u> </u>	1.1	0.2 0.1	1.1 1.2
2007	(3)	1.0	0.1	1.2
2009	(s)	1.0	0.1	1.2
2010	(s)	1.0	0.2	1.2
2011	(s)	0.9	0.1	1.1
2012	(s)	0.8	0.1	0.9
2013	(s) (s) (s) (s) (s) (s) (s) (s) (s)	0.9	0.1	1.0
2014	(S)	1.0	(s) 0.1	1.0
2015 2016	(S) (S)	0.9 0.9	0.1	1.U 0.0
2017	(5)	0.9	0.1	0.9 0.9
2018	(s) (s) (s)	0.9	0.1	1.0
2019	(s)	0.9	0.1	0.9
2020	<del></del>	0.8	(s) 0.1	0.9
2021 2022 2023	<del>-</del>	0.8	0.1	0.9
2022	_	0.8	0.1	0.9
2023	_	0.8	0.1	0.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

S					
T	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
R			3. ·		
- 1	1960	1.1	(s)	0.6	17
•	1965	1.1 0.3	(5) (S)	0.0 1 <i>A</i>	1.7
C	1965 1970	0.9		1.7	2.7
т	1975	1.1 0.3 0.9 0.7	(s)	0.4	<u>1.1</u>
	1975 1980	0.1	(s) (s) (s)	0.6 1.4 1.7 0.4 0.2 (s)	0.3
	1985	_	<del>''</del>	(s)	(s)
	1990	_	<del>-</del>		(S)
0	1995	_	_	(s) (s)	(S)
F	1996 1997	<del>-</del>	<del>-</del>	(S)	(S)
•	1998	<u> </u>	<u> </u>	(3)	(9)
	1999	_	_	(s) (s) 0.1	0.1
C	2000 2001	<del>-</del>	<del>-</del>	(s) 0.1	1.7 1.7 2.7 1.1 0.3 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)
	2001	<del>-</del>	_	0.1	0.1
0	2002 2003	<del>-</del>	<del>-</del>	0.1	0.1
L	2003	_	_	0.1	0.1
	2004			0.1 0.1	0.1 0.1
U	2005 2006	<u> </u>	<u> </u>	0.1	0.1
M	2007	_	_	(s)	(s)
	2007 2008	<del>-</del>	<del>-</del>	(s) (s)	(s)
В	2009	_	_	(s)	(s)
	2010	<del>-</del>	<del>-</del>	(s) (s)	(S)
- 1	2011	_	_	(S)	(\$)
Α	2012	_	<del>_</del>	(s)	(S)
	2009 2010 2011 2012 2013 2014			(S) (S)	(8)
	2015 2016 2017 2018 2019	<u> </u>		(s)	(s)
	2016	_	<del>-</del>	(s)	(s)
	2017	_	_	(s)	(s)
	2018	<del>-</del>	<del>-</del>	(s)	(s)
	2019	_	_	(s)	(s)
	2020 2021 2022	_	_	(s)	0.1 0.1 0.1 (s) (s) (s) (s) (s) (s) (s) (s)
	2021			(s)	(5)
	2023			(s) (s)	(s) (s)
				(0)	(0)

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

Veer	Coal <sup>a</sup>	Noticed see b	Detvoleum C	Total
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(a)	(s)	2.0	2.0
1965	(s) (s) (s) (s)	<del>-</del>	2.0 2.4 2.3	2.0 2.4 2.3 2.7 1.9 1.9 1.8 1.8 1.7 1.7 1.8 1.7 1.7 1.6 1.6 1.7 1.4 1.2 1.2 1.2 1.2 1.0 1.1 1.0 1.1
1970	(s)	(s) (s)	2.3	2.3
1965 1970 1975 1980	(s)	(s)	2.6 1.9 1.9	2.7
1980 1985			1.9	1.9
1990		(S) (S)	1.8	1.9
1995	<u> </u>	(S)	1.8	1.8
1996	<del>-</del>	(s)	1.7	1.7
1997 1998	_	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1.8 1.7 1.7 1.7	1.8
1998	_	(s)	1.7	1.7
1999 2000		(S)	1.7	1./
2001	_	(S)	1.8 1.7	1.0
2002	_	(S)	1.6	1.6
2002 2003	_	(s)	1.6 1.5	1.6
2004 2005	_	(s)	1.6	1.7
2005	_	(S)	1.6 1.3 1.2 1.2	1.4
2006 2007	_	(S)	1.2 1.2	1.2 1.2
2008	=	(S)	1.0	1.2
2009	_	0.1	1.0	1.1
2010	<del>-</del>	0.1	1.0	1.0
2011	<del>-</del>	0.1	1.0	1.1
2012	_	0.1	0.9	1.0
2013		0.1 0.1	0.9 0.9 1.0 1.0 1.0 0.9	1.U 1.1
2015	_	0.1	1.0	1.1
2016	_	0.1	1.0	1.1
2013 2014 2015 2016 2017 2018	_	0.1	0.9	1.0 1.1 1.2 0.9 1.0
2018	<del>-</del>	0.1	1.0	1.1
2019 2020 2021 2022	_	0.1	1.0 0.8	1.2
2020	_	(s) 0.1	0.8	0.9 1.0
2022	_	0.1	0.9	1.0
2023	<del>-</del>	(s)	0.9	1.0 1.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, District of Columbia (million metric tons of carbon dioxide (CO2))

S					
Т					
R	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
-	1960	1.2 0.8 1.7	<del>-</del>	(s) (s) 1.8	1.2 0.8 3.4 1.3 0.7 0.1 0.4 0.2 0.1
C	1965 1970	0.8	_	(S)	0.8
	1970	0.3		1.8	3.4 1.3
Т	1975 1980	0.5 —	<u> </u>	1.0 0.7	1.3 0.7
	1985	_	_	0.1	0.1
	1990	<del>-</del>	_	0.4 0.2	0.4
$\mathbf{O}$	1995	_	_	0.2	0.2
	1996	_	_	0.1	0.1
F	1997 1998		_	0.1 0.2	U.1 0.2
	1999			0.1 0.3 0.3 0.2 0.2 0.2	0.1 0.3 0.3 0.2 0.2 0.3 0.1 0.1 0.1 0.2
	2000	_	_	0.0	0.2
C	2000 2001	_	_	0.2	0.2
0	2002 2003	_	_	0.3	0.3
	2003	<del>-</del>	<del>-</del>	0.1	0.1
L	2004	_	_	0.1 0.2	0.1
U	2005	=	<del>-</del>	0.2 0.1	0.2 0.1
U	2000	_		0.1	0.1
M	2008	_	_	0.1	0.1
<b>D</b>	2004 2005 2006 2007 2008 2009 2010 2011 2012	<del>-</del>	<del>-</del>	(s) 0.2 0.1	0.1 0.1 (s) 0.2 0.2 (s) — — — (s)
В	2010	_	_	0.2	0.2
- 1	2011	<del>-</del>	0.1	0.1	0.2
	2012	_	_	<u>(s)</u>	(S)
Α	2013	_			_
	2015	<del>-</del>	=	<del>-</del>	_
	2016	_	(s)	_	(s)
	2017	_	<del>-</del>	_	_
	2018	_	_	_	_
	2013 2014 2015 2016 2017 2018 2019 2020	<del>-</del>	<del>-</del>		
	2020	_	_	_	_
	2021	_			_
	2021 2022 2023				=
	_520				

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.6	7.5	42.3	EQ.4
1965	2.6 5.2	10.0	42.3 57.6	52.4 72.9
1970	11.1	18.4	74.8	104.3
1975	12.7	15.3	97.9	125.9
1980	21.4	17.3	116.8	155.5
1985	44.9	16.0	91.6	155.5 152.5
1990	60.2	18.0	109.4	187.6
1995	65.3	30.5	111.0	206.8
1996	70.9	29.5	112.1	212.4
1997	71.4	28.8	117.7	217.9
1998 1999	71.2	27.8 30.7	131.3 131.0	230.4
2000	68.2 72.4	30.7	131.0	229.8
2000	69.1	30.0	138.2	239.0 237.3
2002	68.7	30.0 37.4	135.1	241.2
2003	69.2	37.8	139.6	246.6
2004	66.8	40.1	150.2	257.1
2005	64.3	42.6	153.1	260.0
2006	66.4	48.6	144.0	259.0
2007	68.8	49.9	137.9	256.6
2008	66.2	51.3	121.0	238.4
2009	55.5	57.3	111.7	224.5
2010	60.9	62.6	121.9	245.4 232.2
2011 2012	52.8 46.1	65.5 71.4	113.9 109.2	232.2 226.7
2012	48.2	65.9	112.4	226.7 226.5
2013	53.3	65.6	113.7	232.6
2015	44.6	72.7	119.4	236.7
2016	40.7	74.6	122.5	237.8
2017	39.0	75.0	123.6	237.5
2018	31.4	79.7	130.1	241.1
2019	22.3	83.2	127.3	232.9
2020	17.3	85.4	104.3	207.0
2021	19.2	83.9	122.5	225.6
2022	16.5	87.5	127.4	231.4
2023	12.4	88.3	128.8	229.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	_	0.4	2.0	23
1965	_	0.4	2.0 2.2 2.1	2.6
1970	_	0.8	2.1	2.9
1975	_	0.9	1.4	2.3
1980	(s) 0.1	0.9	1.4	2.2
1965 1970 1975 1980 1985	0.1	0.8 0.7	1.4 0.8	2.2
1990 1995 1996	(s)	0.7	0.8	1.5
1995	(s)	0.8	0.7	1.5
1996	(s)	1.0	0.7	1.7
1997		0.7	0.6 0.7	1.4
1998	(S)	0.8	0.7	1.5
1999 2000	(S)	0.8 0.9	0.7	1.4
2000	(S)	0.9	0.b 0.5	1.0 1.4
2001	(s) (s) (s) (s) (s) (s) (s) (s)	0.9	0.6 0.5 0.6	1.4
2002	(8)	0.0 0.0	0.0 0.5	1.4
2003	( <del>3</del> )	0.9 0.9	0.3	1.7
2001 2002 2003 2004 2005		0.9	0.5 0.7 0.6	1.5
2006	(s) (s) (s)	0.9	0.6	1.4
2007	(s)	0.8	0.5	1.3
2006 2007 2008	<del>-</del>	0.9 0.8 0.9	0.5	1.3
2009	_	0.8	0.6	1.4
2010	<del>-</del>	1.0	0.6	1.6
2011	_	0.9	0.5	1.3
2012	<del>-</del>	0.8	0.3	1.1
2013	_	0.8	0.3	1.1
2014	_	1.0 0.9 0.8 0.8 0.9 0.8 0.8	0.6 0.5 0.5 0.6 0.6 0.5 0.3 0.3 0.4	1.3
2015	_	0.8	0.3	1.2
2016	_	0.8	0.4	1.2
2017	_	0.8	0.4	1.2
2010		0.9	0.4 0.4	1.4 1 2
2019		0.9 0.9	0.4	1.5 1 <i>A</i>
2020	<u> </u>	1.1	0.4	1.4
2022	_	1.1	0.4	1.3
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	1.0 1.0	0.4 0.4	2.3 2.6 2.9 2.3 2.2 2.2 2.2 1.5 1.5 1.7 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.6 1.5 1.4 1.3 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
			<b>V</b>	

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	0.4	2.4	27
1965		0.7	2.4 2.6 3.1	3.3
1965 1970 1975	_	1.5	3.1	4.6
1975	_	1.8	2.9 2.8 4.7	4.7
1980	(s) 0.2	1.7	2.8	4.5
1985	0.2	1.8	4.7	6.7
1990	(S)	2.1	4.2	0.3
1995 1996	(s) (s) (s)	2.3 2.5	2.0 1.7	4.3
1997	( <del>5</del> )	2.1	1.6	3.6
1998	(s) (s) (s) 0.1	2.1	1.4	3.6
1999	(s)	2.0	1.6	3.6
1999 2000	(s)	2.0 2.8	2.0	4.8
2001	0.1	2.8	2.0	4.9
2002	(s) (s)	3.1	1.9	5.0
2003 2004	(s)	3.0	2.0	5.0
2004		3.0 3.1 3.2	2.8 2.5	5.9
2005 2006	(s) (s) (s)	3.2	2.5	5./ F.O
2006	(8)	2.0 2.8	2.4 1.0	5.2 4.7
2007	(9)	2.0	2.4 1.9 2.0	4.7
2009	_	2.8	2.1	4.8
2010	_	2.9	2.1 2.3 1.8 1.7	5.3
2011	_	2.9	1.8	4.7
2012	_	3.0	1.7	4.7
2011 2012 2013 2014	_	3.2	1.9	5.1
2014	_	2.8 2.8 2.8 2.9 2.9 3.0 3.2 3.4 3.3 3.4	1.9	5.3
2015 2016	_	3.3	3.4	6.7
2010 2017	<del>-</del>	3.4	3.8	7.2 6.0
2017 2018		3. <del>4</del> 3.5	3.5 3.5	0.0 6.0
2019	<u> </u>	3.5 3.4	1.9 1.9 3.4 3.8 3.5 3.5 3.4 3.3 3.2 3.3 3.3 3.1	2.7 3.3 4.6 4.7 4.5 6.7 6.3 4.3 4.2 3.6 3.6 3.6 3.6 4.8 4.9 5.0 5.0 5.9 5.7 5.2 4.7 4.8 4.8 4.8 5.3 4.7 4.7 5.1 5.3 6.7 7.2 6.8 6.9 6.8 6.4 6.7 6.8 6.5
2020	_	3.1	3.3	6.4
2021	_	3.1 3.4	3.2	6.7
2022	_	3.4 3.4	3.3	6.8
2020 2021 2022 2023	_	3.4	3.1	6.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960		1.9	0.0	0.7
1965		4.0	6.9 7.4	8.7 11.4
1965 1970	_	4.9	6.6	11.4 11.6
1975	(s) 1.6 2.1	5.0	6.0	11.0
1980	1.6	5.6	10.5	17.7 12.9
1985	2.1	4.3	6.4	12.9
1990	2.9 3.1	4.8	4.2 5.7 5.2 4.9 5.5 5.2 5.3 5.6 5.1	11.8
1995	3.1	7.1	5.7	15.9 15.8
1996 1997	3.0 3.2	7.6	5.2	15.8
1997	3.2 3.0	6.9 6.7	4.9 5.5	15.0 15.2
1999	2.8	7.3	5.0	15.3
2000	3.0	6.1	5.3	14 4
2001	3.0 2.8	5.3	5.6	13.8
2002	2.9 2.7	4.5 4.0	5.1	13.8 12.5 13.5 12.5 12.7
2003	2.7	4.0	6.8 6.4	13.5
2004	2.5 2.6	3.5 3.5	6.4	12.5
2005	2.6	3.5	6.6	12.7
2006	2.7 2.6	3.8	6.2	12.7 11.5
2007 2008	2.6 2.6	3.8 3.6 3.7	6.2 5.2 5.0	11.5
2008	2.0	3./	5.0	11.3
2009	2.3 2.1	ა.ა 4.2	4.3 5.2	10.1 11.6
2011	1.2	3.5 4.3 4.7	4.1	10.0
2012	1.2	5.5	4.1 3.7	10.4
2013	1.4	5.4	3.9	10.8
2014	1.5	5.0	3.9 4.0	10.8 10.6
2015	1.4	5.0	4.8	11.2
2016	1.3	5.4	4.8	11.5
2017	1.4	5.4	5.0	11.8
2018	1.2	5.7	4.8	11.7
2019	1.0	6.2	4.6	11.8
2020 2021	0.5 0.6	6.4 6.9	4.2	11.1
2021	0.6	6.4	4.8 5.0	12.2 11.8
2023	0.4	6.5	4.8	11.6
_0_0	0.2	0.0	т.0	11.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1000				24.7
1960 1965	_	0.1 0.1	24.7 32.3	24.7 32.5
1970		0.1	43.0	32.5 43.2
1975	<u>(s)</u>	0.1	53.1	53.2
1980	<del>(-)</del>	0.2	53.1 67.7	53.2 68.0 68.2
1985	_	0.2	67.9	68.2
1990	_	0.2	81.1	81.3 86.3 87.2
1995 1996	_	0.4 0.3	85.9 86.9	80.3 97.0
1990		0.3	90.1	97.2 90.4
1998	_	0.2	91.6	90.4 91.9
1999	_	0.4	91.6 94.2	94 6
2000	_	0.4	100.5	100.9 99.0 101.3
2001	_	0.4	98.6	99.0
2002	_	0.6	100.6	101.3
2003 2004	_	0.6 0.6	100.3 110.5	100.9
2004		0.6	113.0	111.1 113.5
2006		0.3	115.6	116.2
2007	_	0.6	113.9	114.5
2008	<del>-</del>	0.5	103.1 96.7	103.6 97.3 106.9 105.1
2009	_	0.6	96.7	97.3
2010	<del>-</del>	1.2	105.7	106.9
2011	_	0.7	104.4	105.1
2012 2013	_	0.9 0.7	102.2	103.1 104.3
2013		0.7	103.6 105.6	105.8
2015		0.9	108.7	109.7
2016	_	1.0	110.8	111.8
2017	_	1.2	113.3	114.5
2018	_	1.1	119.3	120.4
2019	<del>-</del>	1.2	117.4	118.6
2020	_	1.2 1.1	94.6	95.8 114.0
2021 2022		1.1	112.9 117.4	114.0
2022		1.3	117.4	120.4
_0_0		1.0	113.2	120.7

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Florida (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	2.6	4.9	6.4	13.9
1965 1970	5.2 11.1	4.8 10.9	13.1 20.0	23.1 42.0
1975	12.6	7.6	34.4	42.0 54.6
1980	19.8	7.0 8.9	34.4	63.2
1985	42.5	8.9	11.1	54.6 63.2 62.5
1990	57.4	10.2	19.1	86.6
1995	62.1	19.9	16.7	86.6 98.7 103.5
1996	67.8	18.1	17.6	103.5
1997	68.2	18.7	20.5 32.1	107.4 118.3 114.9
1998	68.2 65.3	18.0	32.1	118.3
1999	65.3	20.2	29.3	114.9
2000	69.4	20.0	28.0	117.4
2001	66.2	20.7	31.4	118.2 121.0 125.8 126.1 126.6
2002	65.8 66.5	28.4	26.8	121.0
2003	66.5	29.3	30.0	125.8
2004 2005	64.3 61.7	32.0 34.6	29.8 30.4	120.1 126.6
2005	63.7	40.4	19.3	120.0
2007	66.1	42.1	16.4	123.5 124.7
2008	63.6	43.5	10.4	117.4
2009	53.2	49.6	8.0	110.8
2010	58.8	53.1	8.1	120.0
2011	58.8 51.6	56.2	3.1	111.0
2012	44.9	61.3	3.1 1.3 2.6	120.0 111.0 107.5
2013	46.8	55.7	2.6	105.1
2014	51.7	56.1	1.9	109.7
2015	43.2	62.7	2.1 2.8 1.4 2.1	108.0 106.2
2016	39.5 37.6	63.9	2.8	106.2
2017	37.6	64.2	1.4	103.2
2018	30.1	68.5 74.5	2.1	100.7
2019 2020	21.3 16.8	71.5 73.8	1.5 1.8	94.3 92.3
2020	18.6	73.8 71.4	1.8	92.3
2021	16.0	71.4 75.4	1.Z 1.2	91.2 00.7
2022	12.2	75.4 76.1	1.2 1.3 1.3	91.2 92.7 89.5
2020	12.2	70.1	1.0	03.0

a Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See
technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
ı cai	Codi	Hattiful gas	1 choledin	Total
1960	8.5	9.9	20.0	38.3
1965	14.5	11.5	25.6	51.5
1970	18.4	17.9	37.1	73.4
1975	29.7	17.5	44.1	91.3
1980	49.6	17.0	46.4	112.9
1985	69.0	15.1	52.5	136.6
1990	67.9	16.7	54.6	139.1
1995	68.8	20.0	62.8	151.5
1996 1997	68.7 72.9	20.5	66.8	156.0 157.1
1997	72.9 72.9	19.9 19.7	64.2 65.7	157.1
1999	74.5	18.1	68.4	161.0
2000	74.3	22.0	69.5	169.6
2001	73.5	19.0	69.1	161.6
2002	77.0	20.6	68.9	161.6 166.5
2003	78.2	20.5	71.7	170.5
2004	79.8	21.4	74.2	175.3 185.6
2005	86.1	22.5	77.0	185.6
2006	85.2	22.8	74.9	182.9
2007	89.2	23.9	72.4	185.5
2008	84.5	22.9	65.1	172.6
2009	69.1	25.0	68.8	162.9
2010	73.3	28.5	73.3	175.1
2011	60.6 41.6	28.0 32.9	71.2 67.0	159.8 141.5
2012 2013	40.7	32.9	68.4	141.5
2013	46.1	35.4	66.7	142.0
2015	37.7	37.4	70.1	145.2
2016	38.2	37.4 38.1	67.6	145.2 143.9
2017	32.9	37.2	71.0	141.1
2018	32.5	39.8	69.0	141.4
2019	26.1	41.3	68.6	136.1
2020	14.7	40.9	60.5	116.1
2021	19.5	40.6	63.6	123.8
2022	17.3	42.5	65.0	124.8
2023	17.0	41.3	67.4	125.7

a Excludes supplemental gaseous fuels.
 b Excludes biofuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.5 0.3 0.2	3.1 3.7	0.8 0.9 1.1	4.4
1965	0.3	3.7	0.9	4.9
1970	0.2	4.8	1.1	6.0
1975 1980 1985	(s) (s) (s) (s) (s)	4.7 4.9	1.0	5.8
1980	(S)	4.9	1.1	6.0
1985	(S)	4.6 4.9 6.2 6.9	1.1	5. <i>/</i>
1990	(S)	4.9 6.2	0.9 1.0	5.0 7.0
1990 1995 1996	(S)	0.2 6.0	1.0	7.2 7.0
1997	(9)	6.2	1.0	7.3
1998	(s) (s) (s) (s) (s)	5.8	1.0 0.9	6.8
1999	(s)	5.4 7.6	1.0	6.4
2000	(s)	7.6	1.1	8.7
2001 2002 2003	(s)	6.6 6.9	0.8 0.8	7.4
2002	(s)	6.9	0.8	7.7
2003	_	7.1	0.8	7.9
2004 2005	(s) (s)	6.9	0.9 0.7	7.8
2005	(S)	6.8	0.7	7.6
2006 2007	<del>-</del>	6.0	0.7	6.7
2007	(s)	6.1 6.5	0.7 0.7	0.ŏ
2000		6.4	0.7	7.2 7.1
2009		7.5	0.7 0.8	7.1 8.3
2009 2010 2011		61	0.0	6.7
2012	_	5.3	0.7	6.0
2013	_	6.5	0.5	7.1
2012 2013 2014	_	6.1 5.3 6.5 7.2	0.8 0.6 0.7 0.5 0.6	7.8
2015 2016 2017	_	6.4 6.3 6.0 7.2	0.5 0.5 0.4	6.9
2016	_	6.3	0.5	6.8
2017	_	6.0	0.4	6.5
2018	_	7.2	0.6	7.8
2019	_	6.7	0.6	7.2
2019 2020 2021	_	6.7 6.5 6.9	0.6 0.6 0.5 0.5 0.5 0.4	4.4 4.9 6.0 5.8 6.0 5.7 5.8 7.2 7.9 7.3 6.8 6.4 8.7 7.4 7.7 7.9 7.8 7.6 6.7 6.8 7.2 7.1 8.3 6.7 6.0 7.1 7.8 6.9 6.8 6.9 6.9 6.9 7.1 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.3 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.3 7.4 7.7 7.9 7.1 7.9 7.1 7.8 7.0 7.1 7.8 7.0 7.0 7.1 7.8 7.0 7.1 7.8 7.0 7.0 7.1 7.8 7.0 7.1 7.8 7.0 7.0 7.1 7.8 7.0 7.0 7.1 7.8 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0
2021	_	6.9	0.5	7.4
2022 2023	_	7.3 6.6	0.5	/.8 7.4
2023	_	0.0	0.4	7.1

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

c Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960 1965	0.4	1.2	0.5	2.1
1965	0.2	1.4	0.7	2.3
1970	0.1	2.1	0.8	3.0
1975	0.1	2.7	0.8 0.5 1.4	2.1 2.3 3.0 3.6 3.8 4.2 3.9 4.1 4.2 4.1 3.7 3.3 4.2 3.8 3.4 3.4 3.4 3.8 3.6 3.2 3.2 3.2 3.4 3.5 4.0 4.1 4.6 4.5 4.4 4.8
1980 1985	(s) 0.1	3.2	0.5	3.8
1985	0.1	2.8	1.4	4.2
1990 1995	(s) 0.1	2.7 3.1	1.1	3.9
1995	U. I	3.1	0.9	4.1
1990	(S)	3.3 2.1	0.9 0.8 0.9 0.6 0.9	4.2
1997 1998	(\$)	ა. i ვ ი	0.9	4.1 2.7
1990	(S)	3.0 2.4	0.0 0.0	ડ. <i>।</i> ૧૧
1999 2000	(s) (s) (s) (s) (s)	3.3 3.1 3.0 2.4 3.2 2.8 2.6 2.7	1.0	4.2
2001	(9)	2.8	1.0	3.8
2001 2002	(s) (s) (s) (s) 0.1	26	0.7	3.4
2003	<del>(c)</del>	2.7	0.7	3.4
2004	(s)	3.0	0.8	3.8
2005	0.1	3.0 2.9	0.6	3.6
2006 2007	<del>-</del>	2.6 2.7	0.6 0.6	3.2
2007	(s)	2.7	0.6	3.2
2008 2009	(s)	2.8	0.6	3.4
2009	(s)	2.8 2.9 3.3 3.1	0.6 0.6 0.7	3.5
2010 2011	(s)	3.3	0.7	4.0
2011	(s)	3.1	0.7	3.8
2012	(s)	2.8	0.8	3.6
2012 2013 2014	(s) (s) (s) (s) (s) (s) (s) (s)	3.1 3.2	0.8 0.9 0.9	4.0
2014	(S)	3.2	0.9	4.1
2015	(S)	2.9	1.7 1.7	4.6
2015 2016 2017		2.9 2.8 2.7 3.1	1.7	4.5
2017	_	Z./ 2.1	1.7	4.4 4.9
2019	_	2.9	1./ 1 E	4.0 1 1
2019		2.9	1.5 1.6	4.4 4.3 4.6 4.8 4.4
2021	_	2.7	1.7	4.5 4.6
2022	_	3.0	1.7	4.0 4.8
2022 2023	_	2.8	1.7	4.0
_320		2.0	1.1	7, 7

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See
technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.3 1.5	4.0	4.1 6.0	9.4 13.5 15.1
1965	1.5	6.0	6.0	13.5
1970	1.1	7.5	6.5	15.1
1975	1.0	7.7	5.4 5.6 8.0 4.2 4.8 5.6 5.2 4.6	14.1 15.3 19.1 18.1 19.1 19.8 19.3 17.9 17.9
1980 1985	1.6 3.7	8.2 7.4	5.6	15.3
1985	3.7	7.4	8.0	19.1
1990	5.3	8.5 9.6	4.2	10.1   10.1
1990 1995 1996	4.6 4.7	9.0	4.0 5.6	19.1 10.0
1997	4.7	9.0	5.0 5.2	19.0
1998	4.7	9.5 9.2 8.6 8.1 8.7	J.2 4.6	17.0
1999	4.7	8.1	5.0 5.1	17.0
2000	4.8	8.7	5.1 5.2	18.7
2001	4.8	7.3	6.0	18.2
2001 2002 2003	4.4	7.3 7.5 8.5 8.6	6.2 6.3 6.3	18.2 18.1
2003	4.3	8.5	6.3	19.0
2004	4.3	8.6	6.3	19.2
2005	4.3 4.3 4.1	8.4 8.5	6.8	19.0 19.2 19.2 18.2 16.9 15.6
2006	3.9 3.7	8.5	5.9 5.1	18.2
2007	3.7	8.1	5.1	16.9
2008	3.4	8.0	4.2	15.6
2009	2.5 3.0	7.4	3.8	13.7
2010	3.0	7.7	4.0	14.8
2011	2.8	7.6	3.8	14.2
2012	2.1	7.7	3.6	13.4
2013	1.8 2.0	8.3	3.8 3.6 3.8 3.9	14.8 14.2 13.4 13.9 14.4
2014 2015	2.0 1.2	8.4 8.2	3.9 3.6	14.4
2015	1.2	6.2 7.9	3.0 2.0	12.9
2016	0.8	7.9	3.8 3.8	12.0 12.4
2017	0.8	8.3	3.8	12.4
2019	0.6	8.1	3.0 3.1	12.9
2020	0.7	8.0	3.4 3.1 3.6 3.7	12.9 12.8 12.4 12.9 12.3 11.8 12.7
2021	0.7	8.4	3.6	12.7
2022	0.6	8.1	3.7	12.4
2023	0.4	8.2	3.4	12.0
	<b>V</b>	V. <u> </u>	<b>5</b>	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1000	()		44.5	44-
1960	(s) (s)	0.2 0.3	14.5 17.9	14.7
1965 1970	(S)	0.3	28.0	18.2 28.4
1975	(s) (s)	0.4	34.4	34.7
1980	( <del>3</del> )	0.4	38.7	39.1
1980 1985	_	0.3	41.8	39.1 42.1 48.6 56.2 59.6
1990	_	0.4	48.2	48.6
1995	_	0.4	55.8	56.2
1996	_	0.5	59.1	59.6
1997	_	0.5	56.8	57.3 59.3 61.3
1998	<del>-</del>	0.4	58.9	59.3
1999	_	0.5	60.8	61.3
2000	_	0.3	61.5	61.8
2001	<del>-</del>	0.4	60.9	61.4 61.5
2002	_	0.5	61.0	61.5
2003	<del>-</del>	0.4	63.6	64.1
2004	_	0.4	66.0	64.1 66.4 69.0
2005 2006	_	0.4 0.4	68.7 67.7	69.U
2006		0.4	66.0	00.1 66.2
2007		0.3	59.6	68.1 66.3 60.0
2009	<u>-</u>	0.4	63.6	64.0
2010	_	0.5	67.6	68.2
2011	_	0.6	66.0	66.7
2012	_	0.6	61.7	62.3
2013	_	0.5	63.2	63.7
2014	_	0.4	61.1	64.0 68.2 66.7 62.3 63.7 61.5
2015	<del>-</del>	0.5	64.2 61.4	64.7
2016	_	0.4	61.4	61.8
2017	_	0.5	65.0	65.5
2018	_	0.9	62.8	64.7 61.8 65.5 63.7 63.5 55.7 58.3 59.4 62.4
2019 2020	_	0.4	63.1	63.5
2020	<del>-</del>	0.4	55.3	55.7
2021	<del>-</del>	0.4	57.8	58.3
2022	_	0.5	57.8 58.9 61.9	59.4
2023	_	0.5	61.9	62.4

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Georgia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	6.2	1.4	(s)	7.6
1965	12.5	(s) 3.2	(s)	12.6
1970 1975	16.9 28.6	3.2 2.2	0.8 2.4	20.9 33.2
1975	28.0 48.0	0.2	0.5	48.7
1985	65.2	0.2 (e)	0.5	65.4
1990	62.5	(s) 0.1	0.1	62.8
1995	64.0	0.6	0.2	64.8
1996	64.0	0.3	0.3	62.8 64.8 64.6 69.2
1997	68.0	0.9	0.2	69.2
1998	68.2	1.8	0.7	70.7
1999	69.8	1.8	0.6	72.2
2000	73.2	2.3	0.7	76.2
2001	68.7	1.9	0.3	70.8
2002	72.5 74.0	3.1	0.3 0.2	70.8 75.8 76.0 78.1 86.1 86.7 92.3 86.4
2003	74.0	1.8	0.3 0.1	76.0
2004	75.5 81.9	2.5	0.1	78.1
2005	81.9	4.0	0.2	86.1
2006	81.3	5.3	0.1	86.7
2007	85.5 81.1	5.3 6.7 5.3	0.1	92.3
2008	81.1	5.3	0.1	86.4
2009	66.5	7.8	0.1	74.4
2010	70.3 57.8	9.5	0.1	79.9
2011	57.8	10.6	0.1	74.4 79.9 68.5 56.2
2012	39.5	16.6	0.1	30.∠ 54.0
2013 2014	38.9 44.1	15.1 15.7	0.1 0.2	54.0 59.9
2014	36.6	19.4	0.2 0.1	59.9 56.0
2016	30.0 37.1	20.7	0.1	56.0 57.9 52.4
2017	32.1	20.7	0.1	57.9 52.4
2018	31.7	20.2	0.2	52.2
2019	25.4	23.2	0.1	48.6
2020	14.0	23.2	(s)	48.6 37.3
2021	18.8	22.0	0.1	40.9
2022	18.8 16.7	23.6	0.2	40.9 40.4
2023	16.6	23.3	(s)	39.9
			( )	

a Excludes supplemental gaseous fuels.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See
technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000			0.0	
1960 1965	<del>-</del>	<del>-</del>	6.8 9.2	6.8 9.2 13.9 15.2 17.9 16.9 21.2 19.8 18.9
1970			13.9	13.9
1975	_	_	13.9 15.2	15.2
1980	_	_	17.9 16.8 21.2	17.9
1985	0.1	_	16.8	16.9
1990 1995	0.1	_	21.2	21.2
1995	1.9 1.9	<del>-</del>	17.9	19.8
1996	1.9	_	17.0	18.9
1997 1998	1.9 1.7		16.6 16.8	18.5 18.5
1998	1.7		16.6	18.3
2000	1.7	(e)	16.9	18.6
2001	1.7	(s) (s) (s)	17.3	19.0
2002	1.6	(S)	18.7	19.0 20.3 21.3 22.3 22.9
2003 2004	1.7	(s)	19.6 20.6	21.3
2004	1.7	(s)	20.6	22.3
2005	1.6	(s) (s)	21.3	22.9
2006 2007	1.5 1.6	(s)	21.5 22.2	23.1 23.8 19.1
2007	1.6	(s) (s) (s)	22.2	23.8
2008	1.7		17.4	19.1
2009	1.6	(s)	17.0	18.7 20.3 20.5
2010	I.0 1.5	(s)	18.6 18.9	20.3
2011 2012	1.6 1.5 1.6	(s) (s)	18.5	20.5
2013	1.0	(5) (S)	18.4	19.9
2014	1.5 1.6	(s)	17.7	19.4
2015	1.5	(s)	18.0	19.5
2016	1.6		18.0	19.6
2017	1.4	(s) (s)	18.7	20.1
2018	1.4	(s)	18.6	20.0
2019	1.4	(s)	18.9	20.1 20.0 20.3 14.7 17.2 18.1 18.0
2020 2021 2022	1.3 1.2 0.7	(s) (s) (s) (s)	13.4	14.7
2021	1.2	( <u>s)</u>	16.0 17.4	17.2
2022		(\$)	17.4 18.0	18.1
2023	_	(S)	18.0	18.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Vasu	Ocal 2	National was b	Datus Issues C	Tatal
Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	_	<u>_</u>	(s)	(s)
1960 1965 1970 1975	_	_	(S) (S)	
1970	_	_	(s)	(s)
1975	<del>-</del>	_	(s)	(s)
1980 1985 1990	_		(s) (s)	(S) (e)
1990	_	_	(S)	(S)
1995	<del>_</del>	<del>-</del>	(s)	(s)
1996	_	_	(s)	(s)
1995 1996 1997 1998		_	(s) 0.1	(S)
1990			0.1 (s)	0.1 (s)
1999 2000 2001 2002 2003 2004 2005	_		(S)	(s)
2001	_	(s) (s) (s) (s)	(s)	(s)
2002	_	(s)	(s)	(s)
2003			(s)	(S)
2004		(S) (S)	(s) (s)	(S)
2006	_	(s)	(s)	(s)
2007	_	(s) (s)	(s) 0.1	(s)
2008	_	(S)	0.1	0.1
2009		(s)	0.1 0.1	U.I 0.1
2010		(S) (S) (S)	0.1 0.1	0.1
2012	_	(s)	0.1	0.1
2013	_	(s) (s)	0.1	0.1
2014	_	(S)	0.1	0.1
2016		(s) (s)	(s) (s)	(S)
2017	_	(S) (S)	(s)	(s)
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	(s)	(s)	(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)
2019		(s)	(s)	(s)
2020	_	(s)	(s) (s)	(S)
2021		(s)	(S) (S)	(5)
2023	_	(s) (s)	(s)	(S)
		(-)	(5)	(-)

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
T Cal	Coal	ivaturai gas	reti oleulli -	Total
1960	<u>_</u>	_	0.1	0.1
1960 1965 1970 1975	_	_	0.1	0.1
1970	_	_	0.3	0.3
1975	_	_	0.2	0.1 0.3 0.2 0.3 0.1 0.6 0.2 0.1 0.2
1980	<del>-</del>	<del>-</del>	0.3	0.3
1980 1985 1990	_	_	0.1	0.1
1995	<u> </u>	<u> </u>	0.6	0.6
1995			0.2 0.1	0.2 0.1
1996 1997	<u> </u>		0.1	0.1
1998	_ _	_	1.0	1.0
1999	_	_	0.2 0.2	0.2
1999 2000	<del>-</del>	(s)	0.2	0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3
2001 2002 2003 2004 2005	_	(s) (s) (s) (s)	0.1	0.1
2002	_	(s)	0.2 0.2 0.2 0.2 0.2	0.2
2003	_	(S)	0.2	0.2
2004	_	(s) (s)	U.2 0.2	0.2
2005	_	(S)	0.2 0.2	0.2 0.2
2007	_ _	(5)	0.2	0.2
2006 2007 2008	_	(s) (s) (s)	0.2	0.2
2009	_	(s)	0.3	0.3
2010	<del>-</del>	(s)	0.2	0.3
2011	_	(s)	0.3	0.3
2012	_	(s)	0.3	0.3
2013		(s) (s) (s) (s) (s) (s) (s)	0.2 0.2 0.2 0.3 0.2 0.3 0.3 0.3 0.3 0.3	0.3
2014	_	(S)	0.3	0.3
2015	_ _	(S)	0.3 0.3	0.4
2010	=	(S)	0.3	0.3
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023		(s) (s) (s) (s)	0.4	0.4
2019	_	(s)	0.4	0.4
2020	_	(s)	0.4	0.4
2021	_	(s)	0.4	0.4 0.4 0.4 0.4 0.4 0.4
2022	_	(s) (s)	0.4 0.4	0.4
2023	<del>-</del>	(s)	0.4	0.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
L				
1960 1965 1970 1975	<del>-</del>	<del>-</del>	1.0 1.4	1.0 1.4
1965	_	_	1.4	1.4
1970	_	_	1.4	1.4
1975	_	<del>-</del>	1.3 1.8 1.2 2.1	1.4 1.3 1.8 1.3 2.2 2.2 2.3 2.2 1.7
1980 1985 1990 1995 1996 1997 1998	_	_	1.8	1.8
1985	0.1 0.1	_	1.2	1.3
1990	0.1	_	2.1	2.2
1995	0.4 0.3	_	1.8	2.2
1990	0.3	_	1.9 1.8 1.4	2.3
1002	0.4 0.3	_	1.0 1.1	2.2 1.7
1000	0.3		1.4	1.7
1999 2000	0.2		1.3 1.3 1.3	1.5
2001	0.2	(S)	1.3	1.5
2001 2002 2003 2004 2005	0.1	(s) (s) (s)	1 4	1.5
2003	0.1 0.1	(s)	1.5	1.6
2004	0.1	(s)	1.5	1.6
2005	0.1	(s) (s)	1.5 1.5 1.7	1.9
2006 2007 2008 2009	0.2 0.2 0.2 0.2 0.2	(s)	1.8 1.6 1.4	1.9
2007	0.2	(s) (s) (s)	1.6	1.8
2008	0.2	(s)	1.4	1.6
2009	0.2	(s)	1.4	1.6
2010	0.1 0.1	(s)	1.4 1.4	1.5
2011	0.1	(s) (s)	1.4	1.5
2012	0.1	(S)	1.4	1.5
2010 2011 2012 2013 2014	0.1	(s) (s)	1.3 1.3	1.5
2014	0.1 0.1	(\$)	1.3	1.4
2013	(a)	(s)	1.3 1.4	1.0
2016 2017	(s)	(s) (s)	1.4	1.4
2017	<u> </u>	(s)	1.3	1.0
2018 2019	_	(5) (S)	1.4 1.5 1.3 1.3	1.0
2020	<u> </u>		0.9	1.5 1.5 1.5 1.5 1.6 1.6 1.9 1.9 1.9 1.8 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.7 1.5 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9
2020 2021 2022 2023	_	(s) (s) (s) (s)	0.9 1.0 0.9 0.9	1.0
2022	_	(s)	0.9	0.9
2023	<del>-</del>	(s)	0.9	0.9
		(0)	<b>V.</b> V	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	_	_	4.4	4.4 5.6 9.0 9.3 10.5 10.2
1965 1970	_	_	5.6 9.0	5.6
19/0	_	_	9.0	9.0
1975 1980	_	_	9.3 10.5	9.3 10.5
1985			10.5	10.5
1990			10.2	11.1
1990 1995	_	_	9.9	9.9
1996	<del>-</del>	_	11.1 9.9 8.7 8.4 8.2	11.1 9.9 8.7 8.4 8.2 8.9 9.0 9.5 10.1 11.8 12.5
1997 1998	_	<del>-</del>	8.4	8.4
1998	_	_	8.2	8.2
1999 2000	_	_	8.9 9.0 9.5 10.1 11.8 12.5 12.8	8.9
2000	<del>-</del>	_	9.0	9.0
2001	_	_	9.5	9.5
2001 2002 2003 2004	_	_	10.1	10.1
2003	_	(0)	11.0 10.5	11.8 10.5
2004	_	(S)	12.0	12.0
2005 2006 2007		(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	13.0	13.0
2007	_	(9)	14.0	14.0
2008	_	(S)	14.0 9.6 9.3	14.0 9.6 9.3
2008 2009 2010 2011	_	(s)	9.3	9.3
2010	_	(s)	11.1	11.1
2011	_	(s)	11.4	11.1 11.4
2012 2013	_	(s)	11.4	11.4
2013	_	(s)	11.6	11.6
2014	_	(s)	11.1	11.1
2015	_	(S)	11.3	11.3
2016 2017	_	(\$)	11.4	11.4
2017	_	(S)	11.9 12.1	11.9 12.1
2018	_	(S) —	12.1	IZ. I 10.0
2019			7.6	12.2 7.6
2021	_	(s) (s)	10.0	10.0
2021 2022	_	<del>(0)</del>	10.9	10.0 10.9 11.4
2023	_	_	11.4	11.4

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Hawaii (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
I Cai	COal	ivaturai gas "	reuoleum -	lotai
1960	<u>_</u>	_	13	13
1960 1965	_	_	1.3 2.1 3.2 4.4 5.2 5.2 7.3	1.3 2.1 3.2 4.4 5.2 5.2 7.3 7.5 7.8 7.7 7.6 7.7 7.8 7.8 8.4 7.7 8.0 7.9 7.9 7.9 7.9 7.8
1970	_	_	3.2	3.2
1975	_	_	4.4	4.4
1980 1985	_	<del>-</del>	5.2	5.2
1985		_	5.2	5.2
1990 1995	(s) 1.5	_	7.3 6.0	7.3 7.5
1996	1.5		6.0 6.2 6.1 6.2 6.2 6.3 6.3 6.9 6.1	7.5 7.8
1997	1.6 1.6	<u> </u>	6.1	7.7
1997 1998	1.4	<del>-</del>	6.2	7.6
1999 2000	1.4	_	6.2	7.7
2000	1.5 1.5 1.5 1.6	<del>-</del>	6.3	7.8
2001 2002 2003 2004 2005	1.5	_	6.3	7.8
2002	1.5		6.9 6.1	8.4 7.7
2003	1.6		6.4	7.7 8.0
2005	1.4	_	6.5	7.9
2006	1.4	_	6.5	7.9
2007	1.5	<del>-</del>	6.5 6.4	7.8
2008 2009	1.5	_	6.1	7.6
2009	1.4	<del>-</del>	6.0	7.5
2010	1.5	_	5.9	7.4
2011	1.4	_	5.8	7.2
2012	1.0		5.4 5.2	0.9 6.6
2012 2013 2014 2015 2016	1.5 1.3 1.5 1.4 1.5	<u> </u>	5.9 5.8 5.4 5.2 5.0	6.5
2015	1.4	_	5.0	6.4
2016	1.5	<del>-</del>	4.9	6.4
2017	1.4	_	4.9	6.3
2018	1.4	_	5.0 4.9 4.9 4.9	6.3
2019 2020	1.4	_	4.9 4.6	6.3
2020	1.3 1.2 0.7	<del>-</del>	4.6 4.6	7.4 7.2 6.9 6.6 6.5 6.4 6.3 6.3 6.3 5.9 5.8 5.8
2021 2022	1.2 0.7	<del>_</del>	4.6 5.0	5.0 5.0
2022	0. <i>1</i>	_	5.3	5.0 5.3
2020			0.0	5.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.6 1.5 0.8	1.2	5.0	7.8
1965	1.5	1.9	5.8	9.2 10.3
1970	0.8	2.6	6.9	10.3
1975	1.3	3.3	8.5	13.1
1980	0.9 0.8 1.0 0.8 0.7	2.7 2.1	7.6 6.9 8.0 9.1	11.2 9.9 11.4
1985 1990	U.8 1.0	2.1	6.9 9.0	9.9
1990	1.0	2.4	0.0	11.4
1995 1996	0.0 0.7	3.4 3.6 3.7 3.7	9.1	13.3 13.7
1997	0.7 0.6	3.0 3.7	9.4 9.5 9.4	13.7
1998	0.0	3.7	9.5	14.0
1999	0.6 0.8 0.8	3.8	10.3	14.9
2000	1.3	3.9	10.5	15.7
2001	1.1	3.9 4.3	10.2	15.6
2002	1.0	3.8	10.2	15.0
2003	1.0	3.8	9.8	14.5
2004	1.2	4.1	10.4	15.7
2005	1.1	4.1	10.6	15.8
2006	0.8 1.0	4.2	10.9	15.8 16.3
2007	1.0	4.4	10.9	16.3
2008	0.8	4.8	9.9	15.5
2009	0.8	4.6	9.8	15.2 16.3 16.0
2010	0.8	4.5	11.0	16.3
2011	0.8 0.8 0.8 0.7 0.5	4.8 4.6 4.5 4.4 4.8	10.8	16.0
2012	0.5	4.8	10.5	15.8
2013	0.8 0.7	5.6	10.9	17.2
2014	0.7	4.9	11.2	16.8
2015 2016	0.4 0.2	5.6 5.8	12.0 12.3	18.0 18.3
2016	0.2	5.6 6.1	12.3	18.7
2017	0.2	6.1	12.4	19.0
2019	0.3	7.0	12.7	20.0
2019	0.2 0.3	6.8	12.3	19.3
2021	0.3 0.3 0.2 0.1	7.1	13.0	20.4
2021 2022	0.0	7.4	13.2	20.4 20.8 21.3
2023	0.2	8.1	13.1	21.3
	Vil	0.1	10.1	21.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
			I	
1960	0.7 0.5	0.1 0.3	0.4 0.4	1.1
1965	0.5	0.3	0.4	1.1
1970 1975	0.2	0.4	0.5	1.2 1.5 0.7 0.8 0.8 1.0
1975	0.1	0.8	0.6	1.5
1980	0.1	0.4	0.3	0.7
1985	(s) (s)	0.4	0.3	0.8
1990	(S)	0.5	0.3	0.8
1995	(s) (s)	0.7	0.3 0.3	1.0
1996 1997	(S)	0.8	0.3	1.1
1997	(s)	0.8 0.9	0.3 0.2	1.1 1.1
1999	(s) (s)	1.0	0.2	1.1
2000		1.0	0.5	1.1 1.1 1.4 1.5
2001	(s) (s) (s) (s)	1.0	0.4	1.3
2002	(s)	1.1	0.3	1.4 1.4 1.3 1.6 1.6 1.6 1.6 1.8
2003	(s)	1.0	0.3	1.3
2003 2004	(s)	1.1	0.4	1.6
2005	(s) (s)	1.2	0.3	1.6
2006	(s) (s)	1.2 1.3 1.5	0.4 0.3	1.6
2007	(s)	1.3	0.3	1.6
2008	<del>-</del>	1.5	0.3	1.8
2009	_	1.4	0.3	1.7
2010	<del>-</del>	1.3 1.4	0.3	1.6
2011	_	1.4	0.3	1.6 1.8 1.6
2012	<del>-</del>	1.3	0.3	1.6
2013	_	1.5 1.3 1.3 1.4	0.4 0.3 0.2 0.3 0.3	1.8 1.6 1.5 1.6 1.9 1.8
2014 2015	_	1.3	0.3	1.0
2015		1.3 1. <i>1</i>	0.2	1.5 1.6
2017		1.4 1.6	0.3 0.3	1.0
2018	_	1.6 1.5	0.3	1.9
2019	_	1.7	0.3	20
2020	_	1.7	0.3	2.0 2.0
2021	_	1.7	0.4	2.0
2021 2022	_	2.0	0.4	2.0 2.4 2.3
2023	_	1.9	0.4	2.3

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.5 0.4	0.2	0.2 0.4	0.8 1.0
1965	0.4	0.3	0.4	1.0
1970 1975	0.2 0.3 0.2 0.1	0.3 0.7	0.3	0.8 1.2 0.9 0.8 0.8 0.9 1.0 0.9 0.9
1975	0.3	0.7	0.3	1.2
1980 1985	0.2	0.3 0.5 0.5	0.4 0.2 0.2 0.2 0.2	0.9
1985	0.1	0.5	0.2	0.8
1990	0.1	0.5	0.2	0.8
1990 1995 1996	0.1	0.6	0.2	0.9
1996	0.1	0.6	0.3	1.0
1997	0.1	0.6	0.2 0.2	0.9
1998	0.1	0.6	0.2	0.9
1999	0.1	0.7	0.3	1.1
2000	(S)	0.7	0.3	1.1
2001	(S)	0.7	0.3	1.0
2002	(s) (s) (s) (s)	0.7	0.2 0.2 0.3 0.2	1.0 0.9 1.0 1.0
2003 2004	(S)	0.7	0.2	0.9
2004	(s)	0.7 0.7	0.3	1.0
2005	(s) (s) 0.1	0.7	0.2	1.0
2006 2007	(S)	0.8 0.8	0.2	1.U 1.1
2007	0.1 (s)	0.6	0.2	1.1 1.1
2008	(5)	0.9	0.2 0.2 0.2 0.2 0.2 0.2 0.2	1.0 1.1 1.1 1.0
2009	(s) (s)	0.9	0.2	1.0
2010		0.0 0.0	0.2	1.1
2010 2011 2012 2013	(3)	0.9 0.9	0.2	1.1 1.2 1.1
2012	(3)	1.0	0.0	1.1
2014	(s) (s) (s) (s)	0.9	0.2 0.3	1.3 1.2 1.3 1.4 1.4
2015	( <del>0)</del>	0.9	0.3	1.3
2016	_	1.0	0.4	1.0
2017	_	1.1	0.3	1.1
2018	_	1.1	0.4	1.4
2019	_	i.i	0.4	1.6
2020	_	1.1	0.5	1.6 1.5 1.7 1.6
2020 2021 2022	_	1.1	0.4	1.5
2022	_	1.3	0.4	1.7
2023	_	1.2	0.4	1.6
			• • • • • • • • • • • • • • • • • • • •	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.5 0.7	0.9 1.3	1.5 1.7	2.9 3.6 3.7 4.9 3.7 2.7 3.4 3.7 3.7 3.6 3.6 3.6 3.6 3.6 4.2 3.9 3.7 3.4 3.8 4.0 3.4 3.3 3.2 3.2 3.3 3.2 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.2 3.3 3.3
1965	0.7	1.3	1.7	3.6
1970 1975	0.3	1.6 1.6	1.8	3./
1975	0.9 0.7	1.0	2.4 1.3	4.9 2.7
1985	0.7	1.7	0.9	3.7 2.7
1990	0.7	1.2	1.4	3.4
1995	0.0	1.8	12	3.7
1996	0.8 0.8 0.6	1.8	1.2 1.3	3.7
1997	0.5 0.7	1.8	1.2 1.1	3.6
1998	0.7	1.8 1.8	1.1	3.6
1999	0.6	1.8	1.2	3.6
2000	1.3	1.7	1.2	4.2
2001	1.0	1.6	1.3	3.9
2002	0.9	1.5	1.3	3.7
2003	0.9 1.1	1.3	1.2	3.4
2004 2005	1.1	1.3 1.2	1.4 1.7	3.8
2005	1.0	I.∠ 1.2	1.7	4.0
2006	0.0 0.0	1.3 1.3	1.4 1.3	3.4 2.4
2007	0.8 0.9 0.8	1.3	1.1	3.3
2009	0.8	1.3	1.2	3.2
2010	0.8	1.3	1.3	3.4
2011	0.8 0.7	1.3	1.4	3.5
2012	0.5	1.6	1.2	3.3
2013	0.5 0.7 0.7	1.5 1.5	1.2 1.3	3.4
2014	0.7	1.5	1.3	3.5
2015	0.4 0.2	1.7	1.2 1.2	3.3
2016	0.2	1.8	1.2	3.2
2017	0.2	1.9	1.1	3.2
2018 2019	0.3 0.2	1.8	1.2 1.0	3.3
2019	0.2	2.0 2.0	1.0	3.2 2.4
2020	0.3 0.3 0.2 0.1	2.0 2.0	1.1	3.4 3.1
2021	0.3	2.0	1.1	3.4
2023	0.2	2.0	1.1	3.3
_0_0	0.1	2.1	1.1	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	(s)	3.0	3.0
1965 1970	(s)	(s) 0.1	3.0 3.4	3.0 3.5 4.6 5.6 5.9 5.6 6.4 7.8
1970	(s) (s) (s)	0.2	4.4	4.6
1975	(s)	0.2 0.2	5.3 5.6	5.6
1980	_	0.2	5.6	5.9
1985	_	0.2	5.5	5.6
1990 1995	_	0.3 0.3	6.1 7.4	0.4 7.0
1996		0.3	7.4 7.6	7.0 7.0
1997	_	0.3	7.0 7.8	7.3 8.1
1998	_	0.3	7.8 8.0	8.3
1999	_	0.3	8.5	7.9 8.1 8.3 8.7 8.8 8.6 8.7 8.4 8.7 8.7 9.3 9.5 8.6 8.5 9.5 9.1 9.1 9.4 9.6 10.5 10.8
2000	_	0.3	8.5 8.2 8.4	8.8
2001	_	0.4	8.2	8.6
2002	_	0.3	8.4	8.7
2003	<del>-</del>	0.3 0.3	8.1 8.4	8.4
2004 2005	_	0.3	8.4	8.7
2005	_	0.3 0.4	8.4 8.9	δ. <i>I</i>
2007		0.4	0.9	9.3 0.5
2007	<u> </u>	0.4	9.1 8.2	8.6
2009	_	0.4	8.1	8.5
2010	_	0.4	9.1	9.5
2011	_	0.3	8.8	9.1
2012	_	0.3 0.3 0.2	8.8	9.1
2013	_	0.3	9.0 9.3 10.2	9.4
2014	_	0.2	9.3	9.6
2015	_	0.3	10.2	10.5
2016	_	0.3 0.3	10.5 10.6	10.8
2017 2018	<u>-</u>	0.3	10.6	10.9
2010	_	0.4	11.1	11.2
2019 2020	_	0.4	10.4	11.5 10.7
2021	_	0.3	11.2	11.5
2022	_	0.4	11.2 11.2	11.6
2022 2023	_	0.4	11.2	11.6 11.6

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Idaho (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	<u>_</u>	<u> </u>	(s)	(s)
1965	_	_	(S)	(s)
1970	_	_	(s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (o.1 0.1 0.1 0.1 0.1 0.5 0.6 0.1 0.5 0.6 0.7
1970 1975	<del>-</del>	(s)	(s)	(s)
1980 1985	_	(s) (s) (s)	(s)	(s)
1985	_	(s)	(s)	(s)
1990	<del>-</del>	_	(s)	(s)
1995	_		(s)	(s)
1996 1997 1998	_	(s) 0.1	(s)	(S)
1997	_	0.1	(s)	U.I 0.1
1999	_	0.1	(S) (S)	0.1 0.1
2000	_	0.1	(5) (S)	0.1
2000	<u></u>	0.6	(s)	0.1
2002	_	0.1	(s)	0.0
2003	_	0.5	(s)	0.5
2004	_	0.6	(s)	0.6
2001 2002 2003 2004 2005	<del>-</del>	0.6	(s)	0.6
2006	_	0.5	(s)	0.5
2007	<del>-</del>	0.7	(s)	0.7
2008 2009	_	0.7	(s)	0.7
2009	_	0.7	(s)	0.7
2010	_	0.7	(s)	0.7
2011	_	0.4	(s)	0.4
2012	_	0.7	(s)	U./
2011 2012 2013 2014 2015 2016 2017	<del>-</del>	1.3 1.0 1.5 1.3 1.1	(s)	0.4 0.7 1.3 1.0 1.5 1.3 1.1
2014		1.0 1.5	(s) (s)	1.0
2015		1.5	(S)	1.3
2017	_	1.0	(S)	1.0
2018	<u> </u>	13	(s)	13
2019	_	1.3 1.7	(s)	17
2019 2020	<del>-</del>	1.6	(s)	1.6 2.0 1.8 2.5
2021		2.0	(s)	2.0
2021 2022	_	1.8	(s)	1.8
2023	_	2.5	(s)	2.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	<u> </u>		<u> </u>	<u> </u>
1960	86.7	28.1	74.0	188.8
1965	96.0	40.9	80.6	217.5
1970	87.1	63.1	97.2	247.4
1975	80.1	59.0	106.7	245.7
1980	80.1	56.5	94.4	230.9 198.3
1985	76.9	51.5	69.9	198.3
1990	70.9 78.3	50.0	72.4	193.4 207.7
1995	78.3	57.4	72.0	207.7
1996	87.2	59.7	75.3	222.2
1997	92.4	57.5	75.6	225.5
1998	90.0	51.1	75.9	217.0
1999 2000	91.0 96.6	53.1 54.7	82.1 83.1	226.3 234.3
2000	93.5	54.7 50.3	83.1 80.7	234.3 224.6
2001	93.5	50.3	77.5	224.0
2002	94.0 96.3	52.8	81.7	220.0
2003	102.0	52.0 50.4	84.8	230.9 237.2
2005	100.0	51.3	92.6	243.8
2006	99.7	47.2	89.0	235.9
2007	104.0	51.0	88.4	243.4
2008	105.2	52.8	83.7	243.4 241.7
2009	96.8	50.4	78.6	225.9
2010	102.0	50.7	79.6	232.3
2011	100.3	52.0	78.1	232.3 230.3
2012	92.4	49.4	75.5	217.4
2013	97.9	56.0	78.2	232.0
2014	97.0	58.3	79.7	235.0
2015	81.2	52.9	82.9	217.0
2016	67.0	54.7	83.6	205.3
2017	65.4	54.2	84.2	203.7
2018 2019	67.3 56.5	59.1 61.9	84.4	210.8 201.4
2019	37.4	60.7	83.1 69.9	168.0
2020	50.0	57.0	76.2	183.1
2021	47.5	57.0 59.4	76.2 76.6	183.5
2022	32.7	59.4 57.7	76.3	166.6
2020	UL.I	51.1	70.0	100.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	8.7	12.7	8.7	30.1
1965	5.2	18.7	8.7 8.2	30.1 32.0 34.4 34.6 27.7 26.3 25.3 28.3 30.7
1965 1970	5.2 2.7	23.9 26.0	7.8	34.4
1975	0.5	26.0	8.1	34.6
1980	0.1	25.0	2.6	27.7
1985 1990	0.1	24.1 23.7	2.1	26.3
1990	0.1	23.7	1.4	25.3
1995	0.1	26.9	1.3	28.3
1996 1997	(s) 0.1	29.0 26.8	1.6 1.6	28.5
1998	0.1	20.0	1.0	23.5
1999	(9)	23.8	2.0	25.8
2000	(s) 0.1	25.0	1.5	26.6
2001	0.1	22.8	1.2	26.6 24.0
2002	(s)	24.4 25.2 23.6	1.5 1.3 1.2 1.2	25.9 26.5 24.8 24.5
2003	(s) 0.1	25.2	1.3	26.5
2004 2005	0.1	23.6	1.2	24.8
2005	(s) (s) (s)	23.3	1.2	24.5
2006 2007	(S)	21.2	1.2	22.4
2007	(S)	23.0	1.4	24.4 26.6
2008		24.8	1.8	20.0
2009 2010	_	23.3 22.0	1.6 1.7	25.0 23.7
2010		22.0 22.2	1.7	23.7
2011 2012		19.1	1.2	20.3
2013	_	24.1	1.6	25.8
2013 2014	_	25.7	1.4	25.8 27.1
2015	_	21.6	1.2	22.8
2016	<del>-</del>	20.9	1.2	22.1
2017	_	20.3	1.2	21.5
2018	_	23.6	1.4	25.0
2019		23.7	1.8	25.0 25.5 23.2 22.7 24.7 21.6
2020	_	21.5	1.7	23.2
2021	<del>-</del>	21.0	1.8	22.7
2021 2022 2023	_	23.1 19.8	1.6 1.8	24.7
2023	_	19.0	1.0	21.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			<u> </u>	<u> </u>
1960	6.0	2.6	6.4	15.0
1965	6.0 3.9	7.0	6.4 5.8	16.7
1970	2.1	10.5	5.8	18.5
1975	12	11.7	4.7	17.6
1980	0.3 0.4 0.5	11.9	2.7 2.3 1.2	15.0 14.3
1985	0.4	11.5	2.3	14.3
1990	0.5	10.8	1.2	12.4
1995	0.4	11.0	1.1	12.5 13.3
1996	0.4	11.7	1.2	13.3
1997	0.6	10.9	1.4	12.9 11.0
1998	0.4	9.4	1.1	11.0
1999	0.3 0.4	10.1 10.8	1.0 1.0	11.4
2000 2001	0.4	10.8	1.0	12.3 11.6
2001	0.4	10.1	1.1	12.3
2002	0.5 0.5	11.3	1.0	12.8
2004	0.5	10.9	0.8	12.0
2005	0.3 0.5 0.5 0.3	10.7	0.7	12.1 11.7
2006	0.3	10.4	0.8	11.5
2007	0.3 0.3	10.8	0.6	11.7
2008	0.4	11.8	0.8	13.1
2009	0.4	11.8	0.9	13.1
2010	0.4	10.5	0.7	11.5
2011	0.4 0.3	11.4	0.6	12.4
2012	0.3 0.3 0.3	10.0	0.6	10.9
2013	0.3	12.3	0.9	13.5
2014	0.3	13.2	0.8	14.3
2015	0.2 0.2	11.6	1.5	13.3
2016	0.2	11.5	1.5	13.2
2017	0.2	11.6	1.6	13.4
2018 2019	0.2 0.2	13.0 13.4	1.5 1.7	14.8 15.2
2019	0.2	11.7	1.7	13.5
2020	0.2 0.2 0.2	11.7	1.0	14.0
2021	0.2 0.2	13.3	1.0	14.0 15 <i>/</i> l
2023	0.2	11.9	1.5	15.4 13.6
_0_0	0.1	1110	1.0	10.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	31.8	9.9	24.4	66.1
1965	35.8	12.6	25.4	66.1 73.7
1970	24.3	20.0	26.9	71.2
1975	16.1	18.5	27.2	61.8
1980	11.9	17.7	25.5	55.1 41.7
1985	13.2	14.9	13.5	41.7
1990	14.1	14.4	14.5	43.0
1995 1996	13.5 14.0	16.7 16.7	14.1 15.0	44.3 45.8 46.3
1997	14.0	16.5	15.0	45.0 46.3
1998	14.3	15.8	14.5	44.6
1999	13.9	15.8	14.3	44.0
2000	12.7	15.6	13.5	41.8
2001	10.4	14.3	13.1	37.8
2002	9.0 9.1 8.7 8.7	14.9	13.0	36.9
2003	9.1	14.1	13.0	36.2
2004 2005	8. <i>1</i>	13.7 13.5	13.5 14.3	35.9 26.5
2005	9.0	12.8	14.5	36.2
2006 2007	9.4	13.2	14.1	36.6
2008	9.0	13.7	13.2	41.8 37.8 36.9 36.2 35.9 36.5 36.2 36.6 35.8
2009	7.0	12.1	11.0	30.2 35.7 37.1 37.3
2010	9.0	14.7	12.0	35.7
2011	10.4	14.6	12.1	37.1
2012	10.6	14.3	12.3	37.3
2013	10.4	15.3	13.4	39.1 39.4
2014 2015	10.3 8.2	15.4 13.8	13.7 13.5	39.4 25.4
2016	7.6	13.0	14.2	35.4 35.0
2017	7.7	13.4	14.3	35.4
2018	7.6	13.6	14.4	35.5
2019	7.5	14.0	14.7	35.4 35.0 35.4 35.5 36.2 35.5
2020	7.3	13.8	14.4	35.5
2021	6.7	13.7	14.2	34.6 35.1
2022	6.4	14.2	14.5	35.1
2023	5.8	14.0	14.1	33.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.5	0.6	34.4	35.4
1965	0.1	0.7	41.1	42.0
1970	(s)	1.5	54.0	42.0 55.5
1975	(s) (s)	0.8	61.7 57.2	62.5 58.0 51.2
1980	<del>-</del>	0.8	57.2	58.0
1985	_	0.6	50.6	51.2
1990	_	0.7	54.3	54.9 55.3 57.3
1995	_	0.7	54.5	55.3
1996	_	0.8	56.6	5/.3
1997 1998	_	0.8 0.7	56.9 58.1	5/./ 50 0
1999		0.7	64.4	57.7 58.8 65.0
2000	<del>-</del>	0.0	66.5	67.2
2001	_	0.6	64.0	64.6
2002	_	0.7	61.7	62.5
2003	_	0.6	65.4	66.0
2004	_	0.6	68.6	69.2
2005	_	0.6	76.0	64.6 62.5 66.0 69.2 76.6 73.0 72.8 68.4 66.3 66.3
2006	<del>-</del>	0.6	72.4	73.0
2007	_	0.6	72.2 67.7	72.8
2008	_	0.7	67.7	68.4
2009	_	1.3	65.0	66.3
2010	_	1.1	65.2	66.3
2011	_	1.2	63.8	65.0
2012 2013	_	1.3 1.5	61.3	62.7 63.7
2013	_	1.5	62.3 63.7	65.4
2014		1.7	66.6	68 O
2016	_	1.3	66.7	68.0 68.0
2017	_	1.2	67.1	68.4
2018	_	1.4	67.0	68.4
2019	_	1.6	64.9	66.4
2020	_	1.1	52.2	66.4 53.3
2021	_	1.0	58.4	59.4 59.6 59.8
2022	_	1.0	58.6	59.6
2023	_	0.9	58.8	59.8

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Illinois (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	39.7	23	0.2	42.1
1965	51.1	2.3 1.9	0.2 0.1	53.1
1970	57.9	7.2 1.9	2.7	67.8
1975	62.3 67.8	1.9	5.1	69.3 75.2 64.8 57.7 67.4
1980	67.8	1.0	6.4	75.2
1985	63.0 56.2	0.3	1.4	64.8
1990	56.2	0.5	1.0	5/./
1995	64.3	2.1	0.9	6/.4
1996 1997	72.8 77.2	1.4 2.4	0.9 0.5	75.1 80.1
1997	77.2 75.2	3.0	0.5	79.1
1999	76.8 76.8	2.9	0.4	80.0
2000	83.4	2.5	0.5	86.4
2001	82.6	2.5 2.5	1.4	86.5
2002	84.6	4.3	0.2	89.1
2003	86.6	4.3 1.7	1.0	89.4
2004	92.8	1.6	0.7	95.2
2005	91.0	3.1	0.3	94.4
2006	90.4	2.3	0.1	92.8
2007	94.3	3.4	0.1	97.8
2008	95.8	1.8	0.1	97.8
2009 2010	89.5 92.6	1.8 2.4	0.1 0.1	91.3 95.1
2010	92.0 89.6	2.4	0.1	92.2
2012	81.5	4.7	0.1	86.3
2013	87.2	2.8	0.1	90.0
2014	86.5	2.3	0.1	88.8
2015	72.8	4.5	(s) 0.1	77.3
2016	59.2	7.8	0.1	67.1
2017	57.4	7.6		65.1
2018	59.5	7.5 9.2	(s) (s) (s)	67.0
2019	48.8	9.2	(s)	58.1 42.4
2020	29.9	12.5	(S)	42.4
2021 2022	43.1 40.9	9.3 7.8	(s)	52.4
2022	40.9 26.8	7.8 11.0	(s) (s)	48.8 37.8
2023	20.8	11.0	(S)	37.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Coai	ivaturai gas "	reu oleum -	Total
1960	74.4	11.5	41.1	126.9
1965	84.3	18.6	44.0	146.9
1970	94.3	28.6	49.0	171.9
1975	99.4	24.7	54.7	178.7
1980	108.6	25.2	50.1	183.9
1985	112.4	22.6	48.0	183.0
1990	128.8	23.8	53.6	206.2
1995	127.2	28.1	53.9	209.2 213.9
1996 1997	130.0	30.0 29.1	53.8	213.9 217.8
1997	134.7 137.1	29.1 27.4	54.0 55.0	217.8 219.6
1999	140.0	29.0	56.9	226.0
2000	151.2	30.0	58.0	239.2
2001	148.7	26.3	54.8	229.9
2002	146.6	28.1	58.1	232 8
2003	149.0	29.7	60.6	239.3 239.5 238.1
2004	153.1	27.6	58.8	239.5
2005	151.5	28.1	58.5	238.1
2006	150.8	26.2	59.4 57.8	236.4 235.6 231.4
2007	149.4	28.4	57.8	235.6
2008	148.2	29.1	54.2	231.4
2009	129.9	26.8	52.0	208.7
2010 2011	137.7 126.7	30.2 33.3	50.3 49.6	218.2 209.6
2012	113.3	33.3 34.2	49.6 47.7	195.3
2013	113.8	34.2 35.6	50.3	193.3
2014	116.1	37.8	51.5	199.7 205.4
2015	95.8	38.1	52.7	186.6
2016	90.2	40.4	50.4	181.0
2017	88.5	38.7	48.0	175.2
2018	93.9	46.2	48.5	188.5
2019	78.1	48.5	49.0	175.6
2020	63.7	45.4	44.7	153.8
2021	71.7	45.1	48.8	165.6
2022	68.5	47.5	47.5	163.5
2023	58.3	47.9	47.7	153.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year         Coal a         Natural gas b         Petroleum c         Total           1960         2.9         4.2         5.9         13.0           1965         1.4         6.1         5.5         13.0           1977         0.9         8.5         5.8         15.1           1978         0.9         8.5         5.8         15.1           1975         0.6         8.5         5.7         14.8           1980         0.1         8.6         3.4         12.0           1985         0.2         7.8         1.9         19.9           1985         0.1         8.6         1.7         10.3           1986         0.1         9.6         2.0         11.7           1987         0.1         9.6         2.0         11.7           1987         0.1         9.0         1.9         11.7           1989         0.1         8.1         2.1         10.3           2000         0.1         8.1         2.1         10.3           2001         0.1         8.6         1.8         10.5           2001         1.3         8.6         1.8         10.5      <					
1960     2.9     4.2     5.9     13.0       1965     1.4     6.1     5.5     13.0       1970     0.9     8.5     5.8     15.1       1975     0.6     8.5     5.7     14.8       1980     0.1     8.6     3.4     12.0       1985     0.2     7.8     1.9     9.9       1990     0.2     7.5     1.8     9.6       1995     0.1     8.6     1.7     10.3       1996     0.1     9.6     2.0     11.7       1997     0.1     9.6     2.0     11.7       1998     0.1     9.0     1.9     11.0       1999     0.1     8.1     2.1     10.3	Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1975     0.6     8.5     5.7     14.8       1980     0.1     8.6     3.4     12.0       1985     0.2     7.8     1.9     9.9       1990     0.2     7.5     1.8     9.6       1995     0.1     8.6     1.7     10.3       1996     0.1     9.6     2.0     11.7       1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3			3		
1975     0.6     8.5     5.7     14.8       1980     0.1     8.6     3.4     12.0       1985     0.2     7.8     1.9     9.9       1990     0.2     7.5     1.8     9.6       1995     0.1     8.6     1.7     10.3       1996     0.1     9.6     2.0     11.7       1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1960	29	42	5.9	13.0
1975     0.6     8.5     5.7     14.8       1980     0.1     8.6     3.4     12.0       1985     0.2     7.8     1.9     9.9       1990     0.2     7.5     1.8     9.6       1995     0.1     8.6     1.7     10.3       1996     0.1     9.6     2.0     11.7       1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1965	1.4	6.1	5.5	13.0
1975     0.6     8.5     5.7     14.8       1980     0.1     8.6     3.4     12.0       1985     0.2     7.8     1.9     9.9       1990     0.2     7.5     1.8     9.6       1995     0.1     8.6     1.7     10.3       1996     0.1     9.6     2.0     11.7       1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1970	0.9	8.5	5.8	15.1
1980       0.1       8.6       3.4       12.0         1985       0.2       7.8       1.9       9.9         1990       0.2       7.5       1.8       9.6         1995       0.1       8.6       1.7       10.3         1996       0.1       9.6       2.0       11.7         1997       0.1       9.0       1.9       11.0         1998       0.1       7.5       1.5       9.1         1999       0.1       8.1       2.1       10.3	1975	0.6	8.5	5.7	14 8
1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1980	0.1	8.6	3.4	12.0
1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1985	0.2	7.8	1.9	9.9
1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1990	0.2	7.5	1.8	9.6
1997     0.1     9.0     1.9     11.0       1998     0.1     7.5     1.5     9.1       1999     0.1     8.1     2.1     10.3	1995	0.1	8.6	1.7	10.3
1999 0.1 8.1 2.1 10.3	1996	0.1	9.6	2.0	11./
1999 0.1 8.1 2.1 10.3	1997	U.1	9.U 7.E	1.9	11.0
1999	1000	0.1 0.1	7.3	1.0 2.1	9.1 10.2
1.5	2000	0.1	8.6	1.8	10.5
2002         0.1         8.3         1.8         10.1           2003         0.1         9.0         1.9         11.0           2004         0.1         7.9         1.6         9.6           2005         (s)         7.9         1.4         9.4           2006         (s)         6.8         1.2         8.0           2007         (s)         7.7         1.3         9.0           2008         —         8.2         1.6         9.7           2009         —         7.5         1.4         8.9           2010         —         7.4         1.2         8.6           2011         —         7.1         1.2         8.3           2012         —         6.2         0.9         7.0           2013         —         7.7         1.0         8.7           2014         —         8.4         1.0         9.9           2015         —         7.2         0.8         8.0           2016         —         6.8         0.8         0.8         7.5           2018         —         7.9         0.9         8.9           2018 <t< td=""><td>2001</td><td>0.1</td><td>7.9</td><td>1.0</td><td>9.3</td></t<>	2001	0.1	7.9	1.0	9.3
2003         0.1         9.0         1.9         11.0           2004         0.1         7.9         1.6         9.6           2005         (s)         7.9         1.4         9.4           2006         (s)         6.8         1.2         8.0           2007         (s)         7.7         1.3         9.0           2008         —         8.2         1.6         9.7           2009         —         7.5         1.4         8.9           2010         —         7.4         1.2         8.6           2011         —         7.1         1.2         8.3           2012         —         6.2         0.9         7.0           2013         —         7.7         1.0         8.7           2014         —         8.4         1.0         8.7           2015         —         8.4         1.0         8.9           2015         —         6.8         0.8         7.6           2016         —         6.8         0.8         7.5           2018         —         7.9         0.9         8.9           2019         —         7.9	2002	0.1	8.3	1.8	10.1
2004       0.1       7.9       1.6       9.6         2005       (s)       7.9       1.4       9.4         2006       (s)       6.8       1.2       8.0         2007       (s)       7.7       1.3       9.0         2008       —       8.2       1.6       9.7         2009       —       7.5       1.4       8.9         2010       —       7.4       1.2       8.6         2011       —       7.1       1.2       8.3         2012       —       6.2       0.9       7.3         2013       —       7.7       1.0       8.7         2014       —       8.4       1.0       9.4         2015       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       6.8       0.8       7.5         2019       —       6.8       0.8       7.5         2019       —       6.8       0.8       7.5         2019       —       7.9       0.9       8.9         2020       —       7.4       0.9       8.3	2003	0.1	9.0	1.9	11.0
2005       (s)       7.9       1.4       9.4         2006       (s)       6.8       1.2       8.0         2007       (s)       7.7       1.3       9.0         2008       —       8.2       1.6       9.7         2009       —       7.5       1.4       8.9         2010       —       7.4       1.2       8.6         2011       —       7.1       1.2       8.3         2012       —       6.2       0.9       7.0         2013       —       7.7       1.0       8.7         2014       —       8.4       1.0       9.4         2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.8         2022       —       8.0       0.9       7.7	2004	0.1	7.9	1.6	9.6
2006       (s)       6.8       1.2       8.0         2007       (s)       7.7       1.3       9.0         2008       —       8.2       1.6       9.7         2009       —       7.5       1.4       8.9         2010       —       7.4       1.2       8.6         2011       —       7.1       1.2       8.3         2012       —       6.2       0.9       7.0         2013       —       7.7       1.0       8.7         2014       —       8.4       1.0       9.4         2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.5         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.8         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       0.9	2005	(s)	7.9	1.4	9.4
2007       (s)       7.7       1.3       9.0         2008       —       8.2       1.6       9.7         2009       —       7.5       1.4       8.9         2010       —       7.4       1.2       8.6         2011       —       7.1       1.2       8.3         2012       —       6.2       0.9       7.0         2013       —       7.7       1.0       8.7         2014       —       8.4       1.0       8.7         2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.5         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       8.0       0.9       8.8         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2006	(s)	6.8	1.2	8.0
2008       —       8.2       1.6       9.7         2009       —       7.5       1.4       8.9         2010       —       7.4       1.2       8.3         2011       —       7.1       1.2       8.3         2012       —       6.2       0.9       7.0         2013       —       7.7       1.0       8.7         2014       —       8.4       1.0       9.4         2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.8         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2007	(s)	7.7	1.3	9.0
2009       -       7.5       1.4       8.9         2010       -       7.4       1.2       8.6         2011       -       7.1       1.2       8.3         2012       -       6.2       0.9       7.0         2013       -       7.7       1.0       8.7         2014       -       8.4       1.0       9.4         2015       -       7.2       0.8       8.0         2016       -       6.8       0.8       7.6         2017       -       6.8       0.8       7.5         2018       -       7.9       0.9       8.9         2019       -       7.9       1.0       8.9         2020       -       7.4       0.9       8.3         2021       -       7.3       0.9       8.2         2022       -       8.0       0.9       8.8         2023       -       6.8       0.9       7.7	2008		8.2	1.6	9.7
2010     —     7.4     1.2     8.5       2011     —     7.1     1.2     8.3       2012     —     6.2     0.9     7.0       2013     —     7.7     1.0     8.7       2014     —     8.4     1.0     9.4       2015     —     7.2     0.8     8.0       2016     —     6.8     0.8     7.6       2017     —     6.8     0.8     7.5       2018     —     7.9     0.9     8.9       2019     —     7.9     1.0     8.9       2020     —     7.4     0.9     8.3       2021     —     7.3     0.9     8.2       2022     —     8.0     0.9     8.8       2023     —     6.8     0.9     7.7	2009		7.5	1.4	8.9
2011     —     6.2     0.9     7.7       2012     —     6.2     0.9     7.8       2013     —     7.7     1.0     8.7       2014     —     8.4     1.0     9.4       2015     —     7.2     0.8     8.0       2016     —     6.8     0.8     7.6       2017     —     6.8     0.8     7.5       2018     —     7.9     0.9     8.9       2019     —     7.9     1.0     8.9       2020     —     7.4     0.9     8.3       2021     —     7.3     0.9     8.2       2022     —     8.0     0.9     8.8       2023     —     6.8     0.9     7.7	2010	_	7.4	1.2 1.0	0.0 0.0
2012     -     0.2     0.9     7.0       2013     -     7.7     1.0     8.7       2014     -     8.4     1.0     9.4       2015     -     0.8     8.0       2016     -     6.8     0.8     7.6       2017     -     6.8     0.8     7.5       2018     -     7.9     0.9     8.9       2019     -     7.9     1.0     8.9       2020     -     7.4     0.9     8.3       2021     -     7.3     0.9     8.2       2022     -     8.0     0.9     8.8       2023     -     6.8     0.9     7.7	2011	_	7.1 6.2	1.2 0.0	0.3 7.0
2016       —       8.4       1.0       9.4         2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2012	_	0.2 7.7	1.0	7.0 8.7
2015       —       7.2       0.8       8.0         2016       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2014	<u> </u>	8.4	1.0	9.4
2016       —       6.8       0.8       7.6         2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2015		7.2	0.8	8.0
2017       —       6.8       0.8       7.5         2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2016	_	6.8	0.8	7.6
2018       —       7.9       0.9       8.9         2019       —       7.9       1.0       8.9         2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2017	_	6.8	0.8	7.5
2019     -     7.9     1.0     8.9       2020     -     7.4     0.9     8.3       2021     -     7.3     0.9     8.2       2022     -     8.0     0.9     8.8       2023     -     6.8     0.9     7.7	2018		7.9	0.9	8.9
2020       —       7.4       0.9       8.3         2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2019	<u> </u>	7.9	1.0	8.9
2021       —       7.3       0.9       8.2         2022       —       8.0       0.9       8.8         2023       —       6.8       0.9       7.7	2020	_	7.4	0.9	8.3
2022     —     8.0     0.9     8.8       2023     —     6.8     0.9     7.7	2021	_	7.3	0.9	8.2
2023 — 6.8 0.9	2022	_	8.0	0.9	8.8
	2023	_	6.8	0.9	1.1

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         Total           1960         2.0         1.1         2.2         2.2         5.4           1985         1.1         2.2         2.2         2.2         5.6           1970         0.7         4.1         2.0         6.8           1975         1.3         3.7         2.4         7.4           1980         0.4         3.7         2.2         6.3           1985         0.9         3.7         1.6         6.2           1990         1.0         3.6         0.9         5.5           1985         0.5         4.4         0.7         5.5           1986         0.7         4.7         0.0         3.6         0.9         5.5           1987         0.7         4.7         0.0         3.6         0.9         5.5           1989         0.7         4.7         0.7         0.0         9.9         5.5           1989         0.7         4.4         0.9         3.8         5.5           1989         0.7         3.9         0.8         5.5           1989         0.7         3.9 <td< th=""><th></th><th>·</th><th>,,,</th><th></th><th></th></td<>		·	,,,		
1980	Voor	Cool	Noticed and 3	Potroloum h	Total
1970       0.7       4.1       2.0       6.8         1980       0.4       3.7       2.2       6.3         1885       0.9       3.7       1.6       6.2         1990       1.0       3.6       0.9       5.5         1995       0.5       4.4       0.7       5.7         1996       0.7       4.7       0.7       6.0         1997       0.7       4.4       0.8       5.9         1998       0.7       3.9       0.9       5.5         1999       0.7       3.9       0.8       5.4         2000       0.5       4.8       0.8       6.2         2001       0.5       4.2       0.9       5.6         2002       0.6       4.4       0.9       5.9         2003       0.7       5.0       1.1       6.7         2004       0.8       4.5       0.9       5.6         2003       0.7       5.0       1.1       6.4         2004       0.8       4.5       1.1       6.7         2005       0.1       3.8       0.8       4.7         2006       0.1       3.8       0.	rear	Coai	ivaturai gas "	Petroleum *	Total
1970       0.7       4.1       2.0       6.8         1980       0.4       3.7       2.2       6.3         1885       0.9       3.7       1.6       6.2         1990       1.0       3.6       0.9       5.5         1995       0.5       4.4       0.7       5.7         1996       0.7       4.7       0.7       6.0         1997       0.7       4.4       0.8       5.9         1998       0.7       3.9       0.9       5.5         1999       0.7       3.9       0.8       5.4         2000       0.5       4.8       0.8       6.2         2001       0.5       4.2       0.9       5.6         2002       0.6       4.4       0.9       5.9         2003       0.7       5.0       1.1       6.7         2004       0.8       4.5       0.9       5.6         2003       0.7       5.0       1.1       6.4         2004       0.8       4.5       1.1       6.7         2005       0.1       3.8       0.8       4.7         2006       0.1       3.8       0.					
1970       0.7       4.1       2.0       6.8         1980       0.4       3.7       2.2       6.3         1885       0.9       3.7       1.6       6.2         1990       1.0       3.6       0.9       5.5         1995       0.5       4.4       0.7       5.7         1996       0.7       4.7       0.7       6.0         1997       0.7       4.4       0.8       5.9         1998       0.7       3.9       0.9       5.5         1999       0.7       3.9       0.8       5.4         2000       0.5       4.8       0.8       6.2         2001       0.5       4.2       0.9       5.6         2002       0.6       4.4       0.9       5.9         2003       0.7       5.0       1.1       6.7         2004       0.8       4.5       0.9       5.6         2003       0.7       5.0       1.1       6.4         2004       0.8       4.5       1.1       6.7         2005       0.1       3.8       0.8       4.7         2006       0.1       3.8       0.	1960	2.0	1.1	2.3	5.4
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1965	1.1	2.2	2.2	5.6
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1970	0.7	4.1	2.0	6.8
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1975	1.3	3.7	2.4	7.4
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1980	0.4	3. <i>1</i>	2.2	6.3
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1000	0.9 1.0	3.7 2.6	1.0	0.2 5.5
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1990	1.0	3.0 4.4	0.9	5.5 5.7
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1995	0.5	4.4 1.7	0.7 0.7	5.7 6.0
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1990	0.7	4.7 A A	0.7 0.8	5.0 5.0
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1998	0.7	39	0.0	5.5 5.5
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	1999	0.7	3.9	0.3	5.4
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2000	0.5	4.8	0.8	6.2
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2001	0.5	4.2	0.9	5.6
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2002	0.6	4.4	0.9	5.9
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2003	0.7	5.0	1.1	6.7
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2004	0.8	4.5	1.1	6.4
2006       0.1       3.8       0.8       4.7         2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.3         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.1       6.1         2021       0.1       5.3       1.1       6.6	2005	0.5	4.1	0.9	5.4
2007       0.3       4.1       0.7       5.1         2008       0.7       4.5       0.9       6.2         2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.0       6.1         2021       0.1       4.9       1.0       6.6	2006	0.1	3.8	0.8	4.7
2008       0.7       4.5       0.9       6.2         2009       0.7       4.1       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2007	0.3	4.1	0.7	5.1
2009       0.7       4.2       0.9       5.8         2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2008	0.7	4.5	0.9	6.2
2010       0.7       4.1       0.7       5.5         2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.9         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2020       0.1       4.9       1.1       6.1         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2009	0.7	4.2	0.9	5.8
2011       0.7       4.1       0.6       5.4         2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.9       1.0       6.1         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2010	0.7	4.1	0.7	5.5
2012       0.4       3.6       0.6       4.6         2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2011	0.7	4.1	0.6	5.4
2013       0.3       4.4       0.7       5.4         2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2012	0.4	3.6	0.6	4.6
2014       0.3       4.9       0.7       5.9         2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2013	0.3	4.4	0.7	5.4
2015       0.1       4.2       1.0       5.3         2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2014	0.3	4.9	0.7	5.9
2016       0.1       4.0       1.0       5.2         2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2015	0.1	4.2	1.0	5.3
2017       0.1       4.1       0.9       5.2         2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2016	0.1	4.0	1.0	5.2
2018       0.1       4.7       1.0       5.9         2019       0.1       4.9       1.1       6.1         2020       0.1       4.5       0.9       5.5         2021       0.1       4.9       1.0       6.1         2022       0.1       5.3       1.1       6.6         2023       0.1       4.7       1.0       5.7	2017	0.1	4.1	0.9	5.2
2019     0.1     4.9     1.1     6.1       2020     0.1     4.5     0.9     5.5       2021     0.1     4.9     1.0     6.1       2022     0.1     5.3     1.1     6.6       2023     0.1     4.7     1.0     5.7	2018	0.1	4.7	1.0	5.9
2020     0.1     4.5     0.9     5.5       2021     0.1     4.9     1.0     6.1       2022     0.1     5.3     1.1     6.6       2023     0.1     4.7     1.0     5.7	2019	0.1	4.9	1.1	6.1
2021     0.1     4.9     1.0     6.1       2022     0.1     5.3     1.1     6.6       2023     0.1     4.7     1.0     5.7	2020		4.5	0.9	5.5
2022     0.1     5.3     1.1     6.6       2023     0.1     4.7     1.0     5.7	2021	0.1	4.9	1.0	6.1
2025 0.1 4.7 1.0 5.7	2022	0.1	5.3	1.1	6.6
	2023	0.1	4.7	1.0	5.7

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	L			I
1960	39.8	5.4	14.8	60.1
1965	43.0	9.2	15.5	67.7
1970	45.2	13.9	14.8	67.7 73.9
1975	42.3	11.3	15.8	69.5
1980	38.9	12.4	13.2	64.5 52.1 53.1
1985	33.6	10.9	7.6	52.1
1990	31.9	11.9	9.4	53.1
1995	24.0	14.2	8.0	46.2 48.3
1996	25.0	14.9	8.4	48.3
1997	25.2	14.9	8.1	48.3 49.5
1998	26.0	14.8	8.6	49.5
1999 2000	25.7 30.6	16.0 15.5	9.2 8.0	50.9 54.1
2000	30.6 32.9	12.9	10.0	04.1 55.0
2002	32.9	13.3	9.4	50.9 54.1 55.9 54.9
2002	32.2 32.0	13.9	9.4 9.7	54.9 55.6
2004	32.0 33.2	13.6	10.9	50.0 57.7
2005	29.3	13.8	11.1	55.6 57.7 54.2
2006	28.8	13.8	11.4	54.0
2007	28.8 27.7	14.3	11.1	53.1
2008	25.5	14.1	10.6	54.0 53.1 50.2
2009	21.0	12.8	10.1	43.9
2010	24.8	15.1	8.4	48.2
2011	21.7	17.0	8.4 7.7	46.5
2012	19.9	18.0	7.2	45.0
2013 2014	19.5 17.1	18.6	7.6 7.7	43.9 48.2 46.5 45.0 45.8 44.5
2014	17.1	19.7	7.7	44.5
2015	15.7	19.3	8.5 7.5	43.5 42.7 42.1
2016	15.7	19.5	7.5	42.7
2017	14.8	20.0	7.4	42.1
2018	14.5	22.2	8.0	44.7 46.0
2019	14.7	22.7	8.6	46.0
2020	13.4	20.1	7.8	41.3
2021	14.4	20.8	8.1	43.3
2022	12.8	20.7	7.5	43.3 40.9 42.9
2023	13.8	21.1	8.0	42.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.7	0.3	18.0	18.0
1965	0.1	0.3	20.6	18.9 21.2
1970	0.1	0.6	26.1	26.7
1975	(s)	0.5	30.0	30.5
1980	<del>(0)</del>	0.5	31.0	31.4
1985	_	0.3	36.6	36.9
1990	_	0.5	40.7	41.1
1995	<del>-</del>	0.4	43.3	43.7
1996	_	0.7	42.4	43.0
1997	_	0.6	42.5	43.1 43.5 44.4
1998	_	0.4	43.1	43.5
1999	_	0.4	43.9	44.4
2000	_	0.3	46.4	46.7
2001 2002	_	0.4	42.1 45.5	42.5
2002	_	0.3 0.4	45.5 47.4	42.5 45.8 47.8
2003	_	0.4	44.8	47.0
2005		0.4	44.9	45.2 45.3
2006	_	0.3	45.9	46.3
2007	_	0.4	44.6	45.0
2008	_	0.4	41.1	45.0 41.5
2009	_	0.4	39.5	39.9
2010	_	0.5	39.9	40.4
2011	_	0.6	39.1	39.6
2012	<del>-</del>	0.4	38.4	38.8
2013	_	0.4	39.9	40.3 41.3
2014	_	0.4	40.9	41.3
2015	_	0.4	41.1	41.5
2016	_	0.5	40.6	41.1
2017	_	0.5	38.9	39.4
2018 2019	_	0.4	38.4	38.8
2019		0.6 0.5	38.2 35.0	38.8 35.6
2020	_	0.5	38.7	30.0
2021	_	0.7	38.0	39.3 38.6 38.3
2022		0.6	36.0 37.7	30.0
2020		0.0	01.1	00.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Indiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	-	-		
1960	29.0	0.5	0.1	29.6
1965	38.7	0.7	0.1	39.5
1970	47.5	1.6	0.4	49.4
1975	55.1	0.6	0.8	56.5
1980	69.3	0.1	0.8 0.3 0.2	29.6 39.5 49.4 56.5 69.7 77.9
1985	77.7	0.1	0.2	77.9
1990	95.7	0.4	0.8 0.2 0.3	96.9 103.2 104.9
1995	102.6	0.4	0.2	103.2
1996	104.3	0.2	0.3	104.9
1997	108.6	0.3 0.7	0.7	109.6 112.0
1998	110.3	0.7	0.9	112.0
1999	113.5	0.7	0.9	115.1
2000	120.0	0.8	1.0	121.7
2001	115.3	0.9 1.9	0.4	116.6
2002	113.7 116.2	1.9	0.5	116.1
2003 2004	119.0	1.4	0.4	118.1
2004	121.6	1.2 1.9	0.4 0.3	120.6 123.7
2006	121.6	1.9	0.3	123.4
2006	121.3	2.0	0.1	123.4 100.5
2007	121.9	1.8	0.1	123.5 123.9
2009	108.2	2.0	0.1	110.9
2010	112.2	3.3	0.1	110.2 115.5
2011	104.3	4.6	1.0	109.8
2012	93.0	6.2	0.7	99.8
2013	94.0	4.4	1.1	99.5
2014	98.7	4.5	1.2	99.8 99.5 104.4
2015	80.0	7.0	1.2	88.3
2016	74.3	9.6	0.5	88.3 84.5
2017	73.5	7.4	0.1	81.0
2018	79.2	10.9	0.1	90.2
2019	63.3	12.3	0.1	75.8
2020	50.2	12.8	0.1	90.2 75.8 63.1
2021	57.2	11.4	0.1	68.8
2022	55.6	12.9	0.1	68.6
2023	44.5	14.6	0.1	68.8 68.6 59.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, lowar (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-	I	
1960	11.0	10.2	18.8	40.0
1965	12.0	13.1	19.3	44.4
1970	12.4	18.5	22.6	44.4 53.5
1975	12.5	18.3	24.4	55.2
1980	22.3	14.1	22.8	59.2 56.2 61.3 69.1 72.2
1985	25.6	10.0	20.6	56.2
1990	31.8	9.0	20.4	61.3
1995	35.4	11.0	22.8	69.1
1996	36.4	11.7	24.1	72.2
1997	37.2	10.9	23.7	71.8
1998	40.4	9.6	24.6	74.6
1999	41.1	10.5	24.8	76.4
2000	42.4	10.6	24.7	77.8
2001	42.2	10.1	24.2	76.6
2002	42.1	10.2	24.9	77.1
2003	42.4	10.4	24.4	77.2
2004	42.3	10.4	25.8	78.5
2005	41.0	11.1	26.3	78.4
2006 2007	41.5	10.9 13.8	27.1	79.5 85.3
2007	44.3	15.6	27.2 26.8	85.3 88.6
2008	46.3	10.0	20.8	88.0
2009 2010	42.4 47.1	14.9	26.3	83.5
2010	44.2	14.6 14.5	26.8 26.8	0.00 0F F
2012	44.2	13.9	25.3	83.5 88.5 85.5 79.5
2012	38.4	16.0	26.2	79.5 80.7
2013	38.3	16.3	20.2	81.6
2014	20.3 22.2	15.7	26.4	75.3
2016	33.3 28.5	16.4	27.0	73.3 71.9
2017	28.7	19.4	25.7	73.8
2017	31.2	22.3	26.4	79.8
2019	25.5	22.4	27.1	79.0 75.0
2020	17.5	20.5	25.2	63.3
2021	25.3	19.8	25.2 25.9	71.1
2022	25.3 21.8	22.5	27.2	71.7
2023	19.3	23.1	25.7	71.5 68.0
	10.0	20.1	20.1	00.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, lowa (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	1.1	3.2	2.0	7.2
1965	0.6	3.2 4.1	2.9 2.8 2.8 2.6	7.5
1965 1970	0.6 0.2	5.1	2.8	8.2
1975	0.1	5.1 5.0	2.6	7.7
1980 1985 1990	(s) 0.1	4.5	2.0 1.5	6.6
1985	0.1	4.5 3.5 2.9 3.5 3.8 3.5	1.5	5.1
1990	0.1	2.9	1.1	4.2
1995	(s) 0.1	3.5	1.4	4.9
1996	0.1	3.8	1.7	5.6
1997	0.1	3.5	1.6	5.2
1998	0.1	2.9	1.3	4.3
1999	0.1	3.3 3.4 3.2 3.2 3.3 3.1 3.1	1.6	5.0
2000 2001	0.1 0.1	3.4 2.0	1.6 1.1	5. I 4. A
2001	0.1	ა.∠ ე ე	1.1	4.4 4.7
2002 2003 2004 2005	0.1	3.Z 3.3	1.4 1. <i>1</i>	4.7 1.0
2003	(s)	3.1	1.4	4.0 A A
2005	(s)	31	1.4 1.2 1.2	44
2006	(s) (s) 0.1	2.8 3.2 3.6	1.1	4.0
2006 2007	0.1	3.2	1.2	4.4
2008	<u>-</u>	3.6	1.2 1.5	5.1
2009	_	3.3 3.2 3.2 2.7	1.4 1.2 1.2 1.0	4.8
2010	<del>-</del>	3.2	1.2	4.4
2011 2012	_	3.2	1.2	4.4
2012	<del>-</del> -	2.7	1.0	3.6
2013 2014	_	3.6 3.8 3.2	1.2 1.2	4.8
2014	_	3.8	1.2	5.0
2015	<del>-</del>	3.2	1.0	4.2
2016	_	3.1	1.0	4.1
2017 2018	_	3.1	1.0	4.1
∠010 2010	_	3.6 3.7	1.5	5. I
2019 2020 2021 2022 2023	<del>-</del>	3. <i>1</i>	1.0 1.5 1.6 1.5	7.2 7.5 8.2 7.7 6.6 5.1 4.2 4.9 5.6 5.2 4.3 5.0 5.1 4.4 4.7 4.8 4.4 4.7 4.8 4.4 4.0 4.4 5.1 4.1 5.1 5.1 4.1 5.1 5.4 4.9 4.6 5.4 4.9
2020	<del>-</del>	3.3 3.2 3.7 3.2	1.5	4.9 4.6
2021		3.2 3.7	1.4 1.7	4.0 5. <i>1</i>
2022		3.7	1.7	3.4 4.6
2020		U.E.	1,7	т.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, lowar (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Ooai	Hattiful gas	renoicum	Total
1960	0.8	15	0.8	3.1
1965	0.8 0.4 0.2 0.2	1.5 2.1 3.1	0.8 0.7 0.7	3.1 3.2 3.9 4.4 3.4 3.2 2.7 2.6 3.2 3.4 2.9 3.4 3.2 3.2 3.3 3.4 3.2 3.2 3.3 3.4 4.2 4.2 4.2 4.2 4.2 4.3 3.9 4.1 4.4 4.2 4.2 4.3 3.9 3.6 4.1 4.1 4.2 4.3 3.9 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
1970 1975	0.2	3.1	0.7	3.9
1975	0.2	3.6	0.7	4.4
1980	0.1	2.7	0.6	3.4
1985	0.4 0.5 0.2 0.5 0.7 0.6 0.8	2.1	0.7	3.2
1990	0.5	1.8	0.4	2.7
1995 1996	0.2	2.1	0.3	2.6
1996	0.5 0.7	2.3 2.2	0.4 0.5	3.2 3.4
1998	0.7	2.3 2.2 1.8	0.5 0.5	2.9
1999	0.0	2.1	0.3 0.4 0.5 0.5 0.5	3 4
2000	0.6	2.1	0.6	3.2
2001	0.6 0.6	2.1 2.1	0.6	3.2
2002	0.6 0.6 0.4	2.1 2.2 2.1	0.6	3.3
2003	0.6	2.2	0.7	3.4
2004 2005	0.4	2.1	0.7	3.2
2005	0.6	2.1 2.0 2.2 2.7	0.5	3.2
2006 2007	0.6 0.6 0.6	2.0	0.9 0.9 0.9	3.5
2007	U.0 0.6	2.2 0.7	0.9	3.7 4.1
2008	0.0 0.6	2.7	1.1	4.1 4.1
2010	0.0	2.4	1.1	4.4 4.2
2011	0.5	2.5	1.2 1.2	4.2
2012	0.6 0.6 0.5 0.5 0.5 0.5 0.4 0.3	2.1	1.3	3.9
2013	0.5	2.8	1.3	4.6
2013 2014	0.5	2.8 2.9 2.5 2.5 2.5	1.3 1.3 1.3 1.4 0.7 0.8	4.6
2015 2016	0.4	2.5	1.4	4.3
2016	0.3	2.5	0.7	3.5
2017	0.3	2.5	0.8	3.6
2018 2019	0.2	2.9	0.9	4.0
2019	0.2 0.2 0.2 0.2 0.2 (s)	3.0 2.6	1.0 1.0	4.0 4.2 3.8 3.6 4.8 3.6
2020	0.2 0.2	2.0 2.6	1.U 0.Q	୪.୦ ସ ନ
2021	0.2 0.2	2.0	0.0 1 5	3.0 4 R
2021 2022 2023	(s)	3.0 2.8	0.8 1.5 0.7	3.6
_0_0	(0)	Liu	0.1	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, lowa (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	49	2.3	5.0	12.2
1965	4.9 5.4	3.5	5.0 5.1	14.0
1970	4.1	5.1	5.3	14.4
1975	2.7	6.3	4.3	13.2
1980	3.1	5.9	4.0	13.0
1985	3.4 5.0 5.5 6.2	5.9 3.8 3.6	4.0 3.5 2.9	10.6
1990	5.0	3.6	2.9	11.5
1995	5.5	4.6	3.9 3.7	14.0
1996 1997	6.2	4.7	3.7	14.6 14.3
1997	6.1 5.7	4.4 4.2	3.7 4.1	14.3
1999	6.0	4.2 1.5	4.1	14.5
2000	5.7	4.5 4.5	4.1	14.3
2001	5.6	4.1	4.4	14.0
2002	5.5 5.6 5.5 5.6	4.0	4.2	13.7
2003	5.6	4.1	4.2 3.2	13.0
2004	5.5	4.2	3.8	13.6
2005	5.6	4.3	3.9	13.8
2006	5.8 5.8	4.5 6.5	3.8 3.5	14.1
2007	5.8	6.5	3.5	15.7
2008	5.4	7.6	3.9	16.9
2009	5.0	7.6	3.8	16.4
2010 2011	6.3 6.7	7.7 7.8	4.1 3.9	18.0 18.4
2012	6.0	7.8	3.9	17.6
2013	6.1	8.4	4.3	18.8
2014	5.6	8.4	4.7	18.6
2015	5.0	8.6	4.7	18.3
2016	4.3	9.2	4.8	18.4
2017	4.3 4.2	11.7	4.6	20.7
2018	4.2	12.6	4.6	21.4
2019	4.1	12.5	5.1	21.7
2020	3.7	11.7	5.0 4.7	20.4
2021 2022	3.6	11.3	4.7	19.6 21.0
2022	4.1 3.6	12.3	4.6	21.0 21.1
2023	3.0	13.0	4.5	21.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, lowa (million metric tons of carbon dioxide (CO2))

.,	• ••			
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	0.5	10.0	10.5
1965	(s)	0.6	10.6	10.5 11.2
1970	(s) (s)	1.0	13.6	14.6
1975	(S)	0.9	16.5	17.4
1980	<del>-</del>	0.7	16.1	16.7
1985	_	0.6	14.9	15.5
1990	_	0.5	15.9	16.4
1995	_	0.6	17.1	17.7
1996 1997	_	0.7 0.6	18.3 17.9	19.0 18.5
1997		0.6	17.9	19.1
1999	_	0.3	18.5	18.9
2000	_	0.4	18.3	18.8
2001	_	0.5	18.1	18.6
2002	_	0.6	18.6	18.6 19.2
2003	<del>-</del>	0.5	19.0	19.6
2004	_	0.5	20.0	20.5
2005	_	0.6	20.5	20.5 21.1 21.7
2006	_	0.7	21.0	21.7
2007	<del>-</del>	0.7	21.4	22.0
2008	_	0.8	20.3	21.1
2009	_	0.7	19.9	20.6
2010 2011	_	0.6	20.2 20.3	20.8
2011	_	0.6 0.5	20.3 19.1	20.8 19.7
2012		0.6	19.1	19.7
2013	_	0.0	19.8	19.9 20.6
2015	_	0.6	19.2	19.8
2016	_	0.5	20.4	20.9
2017	_	0.6	19.2	19.8
2018	_	0.7	19.3	20.0
2019	_	0.7	19.3	20.0
2020	_	0.6	17.6	18.2
2021	_	0.4	19.0	19.5
2022	_	0.5	19.2	19.7 19.5
2023	_	0.5	19.0	19.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, lowa (million metric tons of carbon dioxide (CO2))

			<b>-</b>	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	4.2	2.7	0.1	7.0
1965	4.2 5.6	2.8	0.1	7.0 8.5
1970	8.0	4.2	0.2	12.3
1975	9.6	2.5	0.3	12.4
1980	19.0	0.4	0.1	19.5
1985	21.6	0.1	(s) 0.1	21.8
1990	26.2	0.2	0.1	26.5
1995 1996	29.7 29.7	0.2 0.1	0.1 0.1	29.9 29.9
1996	30.2	0.1	0.1	29.9 30.5
1998	34.0	0.2	0.1	30.5 34.4
1999	34.1	0.2	0.1	34.5
2000	36.0	0.2 0.3	0.1	34.5 36.3 36.4 36.1 36.4 36.8 36.0
2001	36.0	0.3	0.1	36.4
2002	35.8 36.1 36.3	0.2	0.1	36.1
2003	36.1	0.2	0.1	36.4
2004	36.3	0.4	0.1	36.8
2005	34.8	1.0	0.2	36.0
2006 2007	35.1 37.9	0.9 1.2	0.2 0.3	36.2 39.4
2007	40.3	0.9	0.3	41.3
2009	36.8	0.5	0.1	37.4
2010	40.3	0.6	0.2	41.0
2011	37.0	0.5	0.1	37.6
2012 2013	33.8 31.8 32.2	0.8	0.1	34.7 32.5 32.8 28.8
2013	31.8	0.6	0.1	32.5
2014	32.2	0.5	0.1	32.8
2015	27.9 23.9 24.2	0.8	(s) 0.1	28.8
2016 2017	23.9	1.1	U.1	25.0
2017	24.2	1.5 2.5	0.1 0.1	25.7 29.2
2019	21.2	2.5	0.1	23.7
2020	13.7	2.3	0.1	16.0
2021	21.6	2.2	0.1	23.9
2022	17.6	2.9	0.1	20.6
2023	15.6	3.6	0.1	19.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.5	19.6	16.4	37.5
1965	1.5 1.5	23.1	17.7	42.3
1970	1.0	30.1	19.9	51.0
1975	5.9	25.8	25.7	57.4
1980	18.2 24.7	25.2	24.2	67.6
1985	24.7	18.5	23.6	66.8
1990	25.8	18.4	24.1	68.4
1995	27.5	19.2	22.8	69.5
1996 1997	32.2 29.5	18.9 17.7	23.3 23.6	74.3 70.8
1997	29.5	17.7	23.4	70.8 69.8
1999	31.3	15.8	25.5	72.6
2000	34.6	16.5	24.1	75.1
2001	33.8	14.3	23.3	71.4
2002	37.4	16.1	22.5	76.0
2003	37.2	14.9	26.1	78.3
2004	36.9	13.7	25.6	76.1
2005	36.3	13.6	23.2	73.1
2006	34.8	14.1	24.0	72.9
2007	37.8	15.3	25.3	78.4
2008 2009	35.5 34.0	15.3 15.3	24.2 23.9	75.0 73.2
2009	34.0 34.4	15.5	23.9	73.2 72.6
2010	33.1	15.0	22.6	72.0
2012	29.4	14.0	22.6	66 1
2013	31.2	15.1	23.3	69.6
2014	31.2 30.2	15.3	24.7	69.6 70.2 64.3 62.3
2015	26.1	14.5	23.6 23.8	64.3
2016	24.2	14.3	23.8	62.3
2017	20.7	14.5	23.6	58.7 62.6 60.3
2018	21.8	16.7	24.1	62.6
2019	18.9	16.6	24.7	60.3
2020 2021	18.6	15.6 15.1	23.3 23.5	57.5
2021	21.0 21.7	15.1 16.5	23.5 24.1	59.b 62.2
2022	17.7	16.1	24.1	59.6 62.3 57.8
2020	17.7	10.1	24.1	37.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
Teal	Coal ~	Natural yas ~	retioleum °	Total
1960	0.1	4.0	1.0	5.1
1960 1965 1970 1975	(s)	4.6	1.0 1.6	5.1 6.2 6.5 6.3 5.1 4.6 4.1
1970	(s) (s)	5.1	1.3	6.5
1975	_	5.1	1.2	6.3
1980	(s) (s)	4.5	0.6	5.1
1980 1985 1990	(S)	4.2 3.8	0.4 0.3	4.6
1990	(s) (s)	3.8 4.0	0.3	4.1
1996	(S) (S)	4.0	0.4	7. <del>7</del> 5.1
1997	(S)	3.7	0.6	4.3
1998	(s)	3.7 3.7	0.4 0.5 0.6 0.7	4.4
1999 2000	(s)	3.6 3.8 3.7	1.0 0.7	4.6
2000	(s) (s) (s) (s)	3.8	0.7	4.4
2001 2002 2003 2004 2005	(s)	3.7	0.5 0.6 0.6 0.6 0.5	4.2
2002	(S)	3.8 3.8 3.5 3.5	0.6	4.4
2003	(S)	3.8 3.5	0.0 0.6	4.4 4.1
2004		3.5 3.5	0.0	4.1
2006	(s)	3.1	0.4	3.5
2006 2007 2008	(s)	3.1 3.4 3.9 3.8 3.6 3.5 2.7 3.7 3.9 3.2 3.0	0.4 0.5 0.7	3.9
2008	_	3.9	0.7	4.5
2009	_	3.8	0.6	4.5
2010	_	3.6	0.6	4.2
2011	_	3.5	0.5	4.1
2012	_	2./	0.4	3.2
2013	<del>-</del>	3./ 2.0	0.6 0.6 0.5 0.4 0.5 0.5 0.5	4.2 4.4
2014		3.9	0.5	37
2016	<u> </u>	3.0	0.4	3.4
2017	_	3.0	0.4	3.4
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	3.7	0.5	4.4 5.1 4.3 4.4 4.6 4.4 4.2 4.4 4.1 4.0 3.5 3.9 4.5 4.5 4.2 4.1 3.2 4.2 4.4 3.7 3.4 3.4 3.4 3.5 3.9
2019	_	3.7 3.8 3.4 3.3 3.6 3.2	0.5 0.6 0.5 0.5 0.6 0.5	4.4
2020	_	3.4	0.5	4.0
2021	<del>-</del>	3.3	0.5	3.8
2022	_	3.6	0.6	4.1
2023	<del>-</del>	3.2	0.5	3.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	2.3	0.3	2.6
1965	(s)	2.0	0.3 0.4	2.5
1970 1975	(s) (s)	2.8 2.7 3.1 3.0 3.0 2.8	0.3	3.1
1975	<del>-</del>	2.7	0.4	3.0
1980	(s)	3.1	0.3 0.4	3.4
1985	(s) (s) (s) 0.1 0.2	3.0	0.4	3.4
1990 1995	(s)	3.0	0.3	3.2
1995	0.1	2.8	0.3 0.3	3.2
1996	0.2	3.0	0.3	3.5
1997	(s) (s)	2.2 2.2	0.3 0.3	2.5
1998	(S)	Z.Z	0.3	Z.3
1999 2000	(s)	2.1 2.2	0.3	2.4 2.5
2000	(5)	2.2	0.4	2.0
2001	(s) (s) (s) (s)	2.0	0.4	2.4
2002	(3)	2.0	0.4	2.4
2003 2004	(3) —	20	0.4	23
2005	_	1.6 1.5 1.6 1.8	0.2	1.8
2006	(s)	1.5	0.2	1.7
2007	<del>(e)</del>	1.6	0.2	1.9
2008	_	1.8	0.2 0.2 0.3	2.1
2009		1.8	0.3	2.0
2010	_	1.7 1.7	0.2	2.0
2011	_	1.7	0.2	2.0
2011 2012 2013	_	1.4	0.3 0.2 0.2 0.2	1.6
2013	_	1.8	0.2 0.3	2.0
2014	_	2.0	0.3	2.2
2015	_	2.0	0.5	2.5
2016	_	1.9	0.5	2.4
2017	_	1.9	0.5	2.6 2.5 3.1 3.0 3.4 3.4 3.2 3.2 3.2 3.5 2.5 2.5 2.4 2.4 2.4 2.4 2.3 1.8 1.7 1.9 2.1 1.9 2.1 2.0 2.0 2.0 2.0 1.6 2.0 2.2 2.5 2.4 2.4 2.4 2.4 2.5 2.7 2.7 2.7 2.7 3.0 2.8
2018	_	2.2	0.4	2.6
2019	_	2.3	0.4	2.7
2020 2021 2022	<del>-</del>	2.2 2.2	0.5 0.4 0.5 0.4	2.7
2021 2022	<del>-</del>	2.2 2.5	0.4 0.5	2./
2022	_	2.3	0.5	ა.u ი ი
2020	_	2.0	0.4	2.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         Total           1960         0.4         6.4         5.9         12.7           1965         0.3         7.9         5.2         13.4           1970         0.2         9.4         5.4         15.0           1975         0.3         7.6         7.2         15.1           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.4           1990         0.4         8.1         6.4         15.4           1995         0.3         9.0         4.9         14.3           1996         0.4         8.1         5.6         14.0           1997         0.3         8.3         6.0         14.7           1998         0.3         7.4         5.5         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.8					
1970         0.2         9.4         5.4         15.0           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.1           1980         0.4         8.1         6.4         14.9           1995         0.3         9.0         4.9         14.3           1997         0.3         8.3         6.0         14.0           1997         0.3         8.3         6.0         14.0           1998         0.3         7.4         5.4         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.8           2003         0.4         6.6         6.3         13.3           2004         0.5         6.1         6.4         13.0           2005         0.5         6.2         5.4         12.0           2006         0.5         7.5         6.4         4.4           2008 <th>Year</th> <th>Coal</th> <th>Natural gas <sup>a</sup></th> <th>Petroleum <sup>b</sup></th> <th>Total</th>	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1970         0.2         9.4         5.4         15.0           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.1           1990         0.4         8.1         6.4         14.9           1995         0.3         9.0         4.9         14.3           1997         0.3         8.3         6.0         14.7           1998         0.3         7.4         5.4         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.8           2003         0.4         6.0         5.8         12.1           2004         0.5         6.6         6.3         13.3           2020         0.4         7.1         5.3         12.8           2003         0.4         6.6         6.3         13.3           204         0.5         6.1         6.4         13.0           2004 <th></th> <th></th> <th></th> <th></th> <th></th>					
1970         0.2         9.4         5.4         15.0           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.1           1990         0.4         8.1         6.4         14.9           1995         0.3         9.0         4.9         14.3           1997         0.3         8.3         6.0         14.7           1998         0.3         7.4         5.4         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.8           2003         0.4         6.0         5.8         12.1           2004         0.5         6.6         6.3         13.3           2020         0.4         7.1         5.3         12.8           2003         0.4         6.6         6.3         13.3           204         0.5         6.1         6.4         13.0           2004 <td>1960</td> <td>0.4</td> <td>6.4</td> <td>5.9</td> <td>12.7</td>	1960	0.4	6.4	5.9	12.7
1970         0.2         9.4         5.4         15.0           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.1           1980         0.4         8.1         6.4         14.9           1995         0.3         9.0         4.9         14.3           1997         0.3         8.3         6.0         14.0           1997         0.3         8.3         6.0         14.0           1998         0.3         7.4         5.4         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.8           2003         0.4         6.6         6.3         13.3           2004         0.5         6.1         6.4         13.0           2005         0.5         6.2         5.4         12.0           2006         0.5         7.5         6.4         4.4           2008 <td>1965</td> <td>0.3</td> <td>7.9</td> <td>5.2</td> <td>13.4</td>	1965	0.3	7.9	5.2	13.4
1975         0.3         7.6         7.2         15.1           1980         0.7         9.7         6.6         17.0           1985         0.7         8.3         6.4         15.4           1990         0.4         8.1         6.4         14.9           1996         0.4         8.1         5.6         14.0           1997         0.3         8.3         6.0         14.7           1998         0.3         7.4         5.4         13.0           1999         0.3         6.5         5.9         12.7           2000         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.3         7.2         5.5         13.0           2001         0.4         6.0         5.8         12.1           2002         0.4         7.1         5.3         12.2           2003         0.4         6.6         6.3         3.3         12.8           2004         0.5         6.1         6.4         13.0           205         0.5         7.0         5.8         13.3	1970	0.2	9.4	5.4	15.0
1990       0.4       8.1       6.4       14.9         1995       0.3       9.0       4.9       14.3         1997       0.3       8.3       6.0       14.7         1998       0.3       7.4       5.4       13.0         1999       0.3       6.5       5.9       12.7         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2004       0.5       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.5       6.4       14.4         2009       0.5       7.5       6.4       14.4         2009       0.5       7.5       6.4       14.4         2009       0.2       6.6       4.9       17.7         2010       0.3       6.5       5.3       12.0         2011       0.2       7.1       5.1       12.2         2011       0.2       7.1<	1975	0.3	7.6	7.2	15.1
1990       0.4       8.1       6.4       14.9         1995       0.3       9.0       4.9       14.3         1997       0.3       8.3       6.0       14.7         1998       0.3       7.4       5.4       13.0         1999       0.3       6.5       5.9       12.7         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2004       0.5       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.5       6.4       14.4         2009       0.5       7.5       6.4       14.4         2009       0.5       7.5       6.4       14.4         2009       0.2       6.6       4.9       17.7         2010       0.3       6.5       5.3       12.0         2011       0.2       7.1       5.1       12.2         2011       0.2       7.1<	1980	0.7	9.7	6.6	17.0
1996       0.4       8.1       5.6       14.0         1997       0.3       8.3       6.0       14.7         1998       0.3       6.5       5.4       13.0         1999       0.3       6.5       5.9       12.7         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2014       0.3       7.1<	1985	0.7	8.3	6.4	15.4
1996       0.4       8.1       5.6       14.0         1997       0.3       8.3       6.0       14.7         1998       0.3       6.5       5.4       13.0         1999       0.3       6.5       5.9       12.7         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2014       0.3       7.1<	1990	0.4	8.1	6.4	14.9
1997       0.3       8.3       6.0       14.7         1998       0.3       7.4       5.4       13.0         1999       0.3       6.5       5.9       12.7         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2010       0.3       0.4       6.9       5.7       13.0         2011       0.2       6.6       4.9       5.7       13.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2016<	1995	0.3	9.0	4.9	14.3
1999       0.3       7.2       5.5       13.0         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2010       0.3       0.4       6.9       5.7       13.0         2011       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.1       4.8       12.2         2014       0.3<	1996	0.4	8.1	5.6	14.0
1999       0.3       7.2       5.5       13.0         2000       0.3       7.2       5.5       13.0         2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2010       0.3       0.4       6.9       5.7       13.0         2011       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.1       4.8       12.2         2014       0.3<	1997	0.3	8.3	6.0	14./
2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.1       4.8       12.1         2014       0.3       7.3       5.0       12.6         2015       0.3       7.3       5.0       13.1         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6<	1998	0.3	7.4	5.4	13.0
2001       0.4       6.0       5.8       12.1         2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.1       4.8       12.1         2014       0.3       7.3       5.0       12.6         2015       0.3       7.3       5.0       13.1         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6<	1999	0.3	6.5	5.9	12./
2002       0.4       7.1       5.3       12.8         2003       0.4       6.6       6.3       13.3         2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.1         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.0       12.6         2016       0.2       7.3       5.9       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6<	2000	0.3	7.2	5.5	13.0
2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2001	0.4	0.U 7.1	5.8	12.1 10.0
2004       0.5       6.1       6.4       13.0         2005       0.5       6.2       5.4       12.0         2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2002	0.4	7.1 6.6	5.3 6.2	12.0
2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2003	0.4	0.0 6.1	0.3 6.4	13.3
2006       0.5       7.0       5.8       13.3         2007       0.5       7.5       6.4       14.4         2008       0.4       6.9       5.7       13.0         2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2004	0.5	6.1	5.4	10.0
2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2006	0.5	7.0	5. <del>4</del> 5.8	13.3
2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2007	0.5	7.0	6.4	14.4
2009       0.2       6.6       4.9       11.7         2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2008	0.0	6.9	5.7	13.0
2010       0.3       6.5       5.3       12.0         2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2009	0.2	6.6	4.9	11.7
2011       0.2       6.8       5.0       12.1         2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2010	0.3	6.5	5.3	12.0
2012       0.2       7.1       5.1       12.3         2013       0.2       7.2       4.8       12.1         2014       0.3       7.1       4.8       12.2         2015       0.3       7.3       5.0       12.6         2016       0.2       7.3       5.6       13.1         2017       0.2       7.4       5.9       13.5         2018       0.2       7.6       5.9       13.8         2019       0.2       7.6       5.8       13.5         2020       0.1       7.6       6.0       13.8	2011	0.2	6.8	5.0	12.1
2017     0.2     7.4     5.9     13.5       2018     0.2     7.6     5.9     13.8       2019     0.2     7.6     5.8     13.5       2020     0.1     7.6     6.0     13.8	2012	0.2	7.1	5.1	12.3
2017     0.2     7.4     5.9     13.5       2018     0.2     7.6     5.9     13.8       2019     0.2     7.6     5.8     13.5       2020     0.1     7.6     6.0     13.8	2013	0.2	7.2	4.8	12.1
2017     0.2     7.4     5.9     13.5       2018     0.2     7.6     5.9     13.8       2019     0.2     7.6     5.8     13.5       2020     0.1     7.6     6.0     13.8	2014	0.3	7.1	4.8	12.2
2017     0.2     7.4     5.9     13.5       2018     0.2     7.6     5.9     13.8       2019     0.2     7.6     5.8     13.5       2020     0.1     7.6     6.0     13.8	2015	0.3	7.3	5.0	12.6
2020 0.1 7.6 6.0 13.8	2016	0.2	7.3	5.6	13.1
2020 0.1 7.6 6.0 13.8	2017	0.2	7.4	5.9	13.5
2020 0.1 7.6 6.0 13.8	2018	0.2	7.6	5.9	13.8
2020     0.1     7.6     6.0     13.8       2021     0.1     7.6     5.7     13.4       2022     0.2     7.9     5.7     13.8       2023     0.2     7.5     5.5     13.2	2019	0.2	7.6	5.8	13.5
2021     0.1     7.6     5.7     13.4       2022     0.2     7.9     5.7     13.8       2023     0.2     7.5     5.5     13.2	2020	0.1	7.6	6.0	13.8
2022 0.2 7.5 5.7 13.8 2023 0.2 7.5 5.5 13.2	2021	0.1	7.6	5.7	13.4
2023 0.2 7.5 5.5	2022	0.2	7.9	5./	13.8
	2023	0.2	7.5	5.5	13.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

v		b		
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	2.3	9.1	11.4
1965	(s)	2.6	10.5	13.1
1970	(s) (s)	3.9	12.6	16.5
1975	(s)	3.6	14.3	17.9
1980	_	2.8	16.2	19.0
1985 1990	_	2.0	16.3 17.1	18.3
1990	_	2.2 1.8	17.1	19.2
1996		2.0	16.8	18.9 18.8
1997	_	2.1	16.5	18.6
1998	_	1.7	16.9	18.6
1999	_	1.7	18.0	19.7
2000	_	1.6	17.2	18.8
2001 2002	<del>-</del>	1.4	16.1	17.4 17.8
2002	<del>-</del>	1.9 1.8	15.9	17.8
2003	_	1.8	18.0	19.7
2004 2005	_	1.5	17.5	19.0
2005	_	1.5	16.2 17.6	17.8 18.9
2007	_	1.4 1.3	17.0	19.3
2008		1.3	17.4	18.7
2009	_	1.4	17.9	19.3
2010	_	1.3	17.3	18.6
2011	_	1.3	16.8	18.0
2012	_	1.1	16.9	18.0
2013	_	1.2	17.8	19.0
2014	_	1.3	19.0	20.4
2015	_	1.2	17.5	18.7
2016 2017	_	1.0 1.1	17.3 16.7	18.3 17.8
2017	_	1.1	16.7	17.8
2016		1.5	17.2 17.9	19.4
2019		1.5	16.2	17.3
2021	_	0.7	16.7	17.4
2022	_	0.9	17.3	18.1
2023	_	0.8	17.7	18.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Kansas (million metric tons of carbon dioxide (CO2))

	_			
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.0	4.5	0.2	£ 7
1965	1.0	6.0	0.2	5.7 7.2
1970	0.8	8.9	0.3	9.9
1975	5.7	6.7 5.1	2.6	15.0
1980 1985	17.5 23.9	5.1 1.1	0.4 0.1	23.1 25.1
1990	25.5	1.4	0.1	27 በ
1995	27.1	1.5	0.1	28.7
1996	31.6	1.2	0.1	33.0
1997	29.2	1.4 2.0	0.1 0.1	28.7 33.0 30.7 31.3
1998 1999	29.2 31.1	2.0 1.9	0.1	31.3
2000	34.2	1.8	0.4	36.4
2001	33.4 37.0 36.9 36.4	1.2	0.5	36.4 35.2 38.6 38.4 37.7 37.5
2002	37.0	1.1	0.4	38.6
2003	36.9	0.8	0.8	38.4
2004 2005	35.4 35.8	0.6 0.8	0.8 0.9	31.1 37.5
2006	34.2	1.2	0.1	35.5
2007	34.2 37.3	1.4	0.3	35.5 38.9 36.7 35.7 35.8 34.6
2008	35.1	1.4	0.2	36.7
2009	33.8	1.7	0.2 0.2	35.7
2010 2011	34.1 32.9	1.5 1.6	0.2	30.8 34.6
2012	32.9 29.2	1.8	(s)	31.0
2013	31.0	1.3	(s)	32.3
2014	29.9	1.0	(s)	31.0
2015	25.9 24.0	0.8	(s)	26.7
2016 2017	24.0	1.1 1.1	(s) 0.1	25.1 21.7
2018	21.5	1.5	0.1	23.1
2019	18.7	1.5	0.1	20.3
2020	18.4	1.3	0.1	19.8
2021	20.9	1.2	0.2	22.2
2022 2023	21.5 17.4	1.6 2.2	0.1 0.1	23.3 19.7
2020	17.4	2.2	0.1	19.7

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

v		N	<b>5</b> h	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	27.1	8.1	12.8	47.9
1965	39.3	9.3	16.2	64.8
1970	49.9	13.2	22.8	86.0
1975	53.0	11.0	26.9	90.9
1980	60.9	10.7	31.9	103.5
1985	68.0	9.3	30.4	107.8
1990	76.3	10.0	34.0	120.4
1995	88.2	12.8	36.8	137.9
1996	90.3	13.0	35.7	139.0
1997	92.7	12.5	37.5	142.8
1998 1999	91.1	11.1	39.1	141.3 146.0
2000	93.9 94.9	11.8 12.2	40.3 39.6	146.0
2001	94.9 96.4	11.3	42.9	150.6
2002	90.6	12.3	47.8	150.7
2003	90.1	12.1	45.1	147.3
2004	91.8	12.2	49.8	153.9
2005	94.2	12.6	48.9	153.9 155.7
2006	97.6	11.4	49.4	158.4
2007	97.6 97.3	12.3	48.5	158.1 155.5
2008	97.7	12.2	45.5	155.5
2009	89.4	11.2	45.0	145.6
2010	96.4	12.5	44.0	152.9 151.1
2011	96.5	12.0	42.6	151.1
2012	86.9	12.2	41.4	140.5
2013 2014	87.4 87.2	12.3 13.7	39.8 39.2	139.5
2014	87.2 76.1	13.7 14.4	39.2 40.5	140.1
2016	76.1 70.4	14.4	40.5	131.0 126.3
2017	61.1	15.4	39.8	116.3
2018	62.7	18.6	41.0	122.3
2019	54.9	18.8	40.6	114.3
2020	46.2	18.0	36.7	100.9
2021	52.5	19.1	39.3	110.9
2022	50.1	21.0	38.6	109.8
2023	46.2	19.3	39.4	104.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	10	2.5	0.0	F 2
1965	1.0 0.6	3.5 3.5 4.7	0.8 1.2	5.3 5.3 7.2 6.0 5.7 4.5
1970	0.7	4.7	1.9	7.2
1075	0.2	4.2	1.9 1.6 1.6 1.1	6.0
1980 1985 1990 1995 1996	0.1 0.1 0.1	4.0 3.3 3.1 3.8	1.6	5.7
1985	0.1	3.3	1.1	4.5
1990	0.1	3.1	0.9	4.1
1995	(s) (s) 0.1 0.1	3.8	1.0	4.9
1996 1997	(S)	3.9	1.2	5.2
1997	U.I 0.1	3.7 3.0	1.2 1.1	5.U 4.2
1990	0.1	3.2	1.3	4.2
1999 2000	0.1	3.6	1.0	4.7
2001	0.1	3.1	8.0	4.0
2002 2003 2004 2005	0.1	3.3 3.4 3.1	0.7	4.1
2003	0.1 0.1	3.4	0.9	4.3
2004	0.1	3.1	0.9 0.8 0.8	4.0
2005	0.1	3.1	0.8	3.9
2006	(s)	2.6 2.8	0.6 0.7	3.3
2006 2007 2008	(s) (s)	2.8 3.0	0.7 0.7	3.5
2008		2.8	0.7	ა./ ე გ
2009	_	2.0 3.0	0.8	3.0 3.7
2010	_	3.0 2.8	0.7	3.5
2010 2011 2012 2013 2014	<del>-</del>	2.4	0.4	2.8
2013	_	2.9 3.1	0.5	3.4
2014	_	3.1	0.6	3.7
2015	_	2.7	0.6	3.2
2016	_	2.5	0.4	2.9
2017	_	2.4	0.3	2.7
2018 2019	_	2.9 2.7	0.3 0.4 0.6	3.3
2019		2. <i>1</i> 2.6	0.6	4.1 4.9 5.2 5.0 4.2 4.6 4.7 4.0 4.1 4.3 4.0 3.9 3.3 3.5 3.7 3.6 3.7 3.5 2.8 3.4 3.7 3.2 2.9 2.7 3.3 3.3 3.3 3.3
2020 2021 2022 2023	_	2.6 2.6 2.8	0.4 0.5	3.0 3.1
2022	<u> </u>	2.0	0.5 0.6 0.4	3.1
2023	_	2.3	0.4	2.7
		2.0	0.1	2.17

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Coai	ivaturai gas	renoieum	Total
1960	0.7	1.0	0.5	22
1965	0.5	1.2	0.5	2.2
1965 1970	0.5 0.5	2.3	0.8	3.6
1975	0.5 0.5 0.5 0.3 0.3 0.2 0.7	2.1 2.1	0.7	3.2
1980	0.5	2.1	1.6	4.2
1985	0.5	1.8	0.9	3.2
1990	0.3	1.8	0.6	2.6
1995 1996	0.3	2.2 2.3 2.2	0.6 0.7	3.1
1996	0.2 0.7	2.3 2.2	0.7	3.2 3.4
1998	0.7	1.8	0.6	2 9
1999	0.9	2.0	0.6	3.5
1999 2000	0.9 0.4	2.1	0.6	3.2
2001	0.5	1.9	0.6	3.0
2002	0.5 0.5 0.4 0.6 0.6 0.3 0.3	2.0	0.6	3.1
2003 2004	0.4	2.1	0.5 0.5	3.0
2004	0.6	2.0	0.5	3.1
2005	0.6	2.0	0.4	3.1
2006 2007	0.3	1.8 1.9	0.4 0.4	2.5
2007	0.3 0.1	2.0	0.4	2.5 2.6
2009	0.1	1 9		2.0
2010	0.1	2.0	0.2	2.4
2011 2012 2013 2014	0.1	1.9 2.0 1.9 1.7	0.3 0.2 0.3 0.3 0.3 0.3	2.3
2012	0.1	1.7	0.3	2.1
2013	(s)	2.0	0.3	2.4
2014	(s) (s) (s)	2.0 2.2 1.9 1.8	0.3	2.6
2015 2016	(s)	1.9	0.6 0.9 0.6	2.6
2016	(s)	1.8	0.9	2.7
2017 2018	(s) (s)	1.8	U.6 0.7	2.5
2019	(S) (S)	2.1 2.1	0.7 0.8	2.9 2.0
2020	(s)	1.9	0.7 0.8 0.7	2.2 2.2 3.6 3.2 4.2 3.2 2.6 3.1 3.2 3.4 2.9 3.5 3.2 3.0 3.1 3.1 3.1 2.5 2.5 2.6 2.4 2.4 2.3 2.1 2.4 2.6 2.7 2.9 2.9 2.9 2.9
2021	(s)	2.0	0.7	2.7
2021 2022	(s) (s)	2.1	0.7	2.9
2023	<del>('7</del>	2.1 1.9	0.7 0.7	2.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         Total           1980         8.9         2.4         2.1         135           1985         11.5         3.1         2.9         17.5           1970         9.9         3.9         4.1         17.9           19875         6.6         3.4         6.9         17.5           1980         7.1         3.4         6.9         17.5           1985         8.8         3.3         6.5         18.6           1980         8.2         3.8         7.3         19.3           1985         8.8         5.2         6.9         20.9           1986         8.7         5.2         7.3         19.3           1987         7.7         5.3         6.7         19.3           1989         8.8         5.2         6.9         20.9           1989         8.8         5.2         7.3         21.2           1987         7.7         5.3         6.7         19.3           1989         5.8         5.3         8.0         19.2           2000         5.6         5.5         7.0         18.1 <tr< th=""><th></th><th></th><th></th><th></th><th></th></tr<>					
1960					
1960	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1965					
1965	1960	8.0	2.4	21	13.5
1970         9.9         3.9         4.1         17.9           1975         6.6         3.4         5.8         15.8           1980         7.1         3.4         6.9         17.5           1985         8.8         3.3         6.5         18.6           1990         8.2         3.8         7.3         19.3           1995         8.8         5.2         6.9         20.9           1997         7.7         5.3         6.7         19.7           1998         6.6         5.1         7.6         19.3           1999         5.8         5.3         8.0         19.2           2000         5.6         5.5         7.0         18.1           2001         5.6         5.5         7.0         18.1           2002         5.2         5.7         9.7         20.6           2002         5.2         5.7         9.7         20.6           2002         5.2         5.7         9.7         20.6           2003         5.2         5.6         9.0         19.9           204         5.6         6.3         10.4         22.3           205 <td>1965</td> <td>11.5</td> <td>31</td> <td>2.1</td> <td>17.5</td>	1965	11.5	31	2.1	17.5
1975       6.6       3.4       5.8       15.8         1980       7.1       3.4       6.9       17.5         1985       8.8       3.3       6.5       18.6         1990       8.2       3.8       7.3       19.3         1995       8.8       5.2       6.9       20.9         1996       8.7       5.2       7.3       21.2         1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.3         1999       5.8       5.3       8.0       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2004       5.6       6.3       10.4       22.0         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2006       5.8 <td< td=""><td>1970</td><td>9.9</td><td>3.9</td><td>4.1</td><td>17.9</td></td<>	1970	9.9	3.9	4.1	17.9
1980         7.1         3.4         6.9         17.5           1985         8.8         3.3         6.5         18.6           1990         8.2         3.8         7.3         19.3           1995         8.8         5.2         6.9         20.9           1996         8.7         5.2         7.3         21.2           1997         7.7         5.3         6.7         19.7           1998         6.6         5.1         7.6         19.3           1999         5.8         5.3         8.0         19.2           2001         5.6         5.5         7.0         18.1           2002         5.2         5.7         9.7         20.6           2003         5.2         5.7         9.7         20.6           2004         5.6         6.3         10.4         22.3           2004         5.6         6.3         10.4         22.3           2005         5.4         6.2         10.4         22.3           2006         5.8         6.0         11.5         23.2           2007         6.0         6.0         10.3         22.2           20	1975	6.6	3.4	5.8	15.8
1985       8.8       3.3       6.5       18.6         1990       8.2       3.8       7.3       19.3         1996       8.7       5.2       7.3       21.2         1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.3         1999       5.8       5.3       8.0       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.3         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2010       4.7       <	1980	71	3 4	6.9	17.5
1990       8.2       3.8       7.3       19.3         1996       8.7       5.2       7.3       21.2         1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.3         1999       5.8       5.3       8.0       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.3         2006       5.8       6.0       10.3       22.2         2006       5.8       6.0       10.3       22.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8	1985	8.8	3.3	6.5	18.6
1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       9.0       19.7         2014       2.5       6.4       6.2       7.2       16.0         2014       2.5       6.4       7.2       16.1 <t< td=""><td>1990</td><td>8.2</td><td>3.8</td><td>7.3</td><td>19.3</td></t<>	1990	8.2	3.8	7.3	19.3
1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       9.0       19.7         2014       2.5       6.4       6.2       7.2       16.0         2014       2.5       6.4       7.2       16.1 <t< td=""><td>1995</td><td>8.8</td><td>5.2</td><td>6.9</td><td>20.9</td></t<>	1995	8.8	5.2	6.9	20.9
1997       7.7       5.3       6.7       19.7         1998       6.6       5.1       7.6       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       9.0       19.7         2014       2.5       6.4       6.2       7.2       16.0         2014       2.5       6.4       7.2       16.1 <t< td=""><td>1996</td><td>8.7</td><td>5.2</td><td>7.3</td><td>21.2</td></t<>	1996	8.7	5.2	7.3	21.2
1999       5.8       5.3       8.0       19.2         2000       5.6       5.5       7.0       18.1         2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2014       2.5       6.4       6.2       7.2       16.0         2014       2.5       6.4       7.2       16.1         2015       2.5       6.4       7.2       16.1         2016       <	1997	7.7	5.3	6.7	19.7
2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2010       4.7       5.7       9.0       19.7         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.0         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019 <t< td=""><td>1998</td><td>6.6</td><td>5.1</td><td>7.6</td><td>19.3</td></t<>	1998	6.6	5.1	7.6	19.3
2001       5.9       5.2       10.4       21.5         2002       5.2       5.7       9.7       20.6         2003       5.2       5.6       9.0       19.9         2004       5.6       6.3       10.4       22.3         2005       5.4       6.2       10.4       22.0         2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       6.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9 <t< td=""><td>1999</td><td>5.8</td><td>5.3</td><td>8.0</td><td>19.2</td></t<>	1999	5.8	5.3	8.0	19.2
2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2000	5.6	5.5	7.0	18.1
2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2001	5.9	5.2	10.4	21.5
2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2002	5.2	5./ F.C	9.7	20.6
2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2003	5.2 5.6	0.0 6.2	9.0 10.4	19.9
2006       5.8       6.0       11.5       23.2         2007       6.0       6.0       10.3       22.2         2008       5.4       5.9       10.3       21.6         2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2004	5.0 5.4	6.3	10.4	22.0
2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2005	5. <del>4</del> 5.8	0.2 6.0	11.5	22.0
2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2007	9.0 6.0	6.0	10.3	20.2
2009       4.1       5.3       10.3       19.7         2010       4.7       5.7       9.0       19.4         2011       4.5       5.8       8.5       18.8         2012       2.8       6.0       8.7       17.4         2013       2.6       6.2       7.2       16.0         2014       2.5       6.4       6.4       15.4         2015       2.5       6.4       7.2       16.1         2016       2.0       6.3       7.5       15.8         2017       2.1       6.3       6.5       15.0         2018       1.9       6.6       6.9       15.3         2019       1.7       6.7       7.0       15.5	2007	5.4	5.9	10.3	21.6
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2009	4.1	5.3	10.3	19.7
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2010	4.7	5.7	9.0	19.4
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2011	4.5	5.8	8.5	18.8
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2012	2.8	6.0	8.7	17.4
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2013	2.6	6.2	7.2	16.0
2015     2.5     6.4     7.2     16.1       2016     2.0     6.3     7.5     15.8       2017     2.1     6.3     6.5     15.0       2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2014	2.5	6.4	6.4	15.4
2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2015	2.5	6.4	7.2	16.1
2018     1.9     6.6     6.9     15.3       2019     1.7     6.7     7.0     15.5	2016	2.0	6.3	7.5	15.8
2019 17 67 70 155	2017	2.1	6.3	6.5	15.0
2019     1.7     6.7     7.0     15.5       2020     1.5     6.5     6.0     14.0       2021     1.7     6.8     6.3     14.8       2022     2.0     7.2     4.9     14.0       2020     1.7     1.7     1.7     1.7	2018	1.9	6.6	6.9	15.3
2020     1.5     6.5     6.0     14.0       2021     1.7     6.8     6.3     14.8       2022     2.0     7.2     4.9     14.0       14.0     14.0       15.0     14.0     14.0       16.0     14.0     14.0	2019	1./	6.7	7.0	15.5
2021 1.7 6.6 6.3 14.8 2022 2.0 7.2 4.9 14.0	2020	1.5	6.5	6.0	14.0
202 2.0 1.2 4.9 14.0	2021 2022	1./ 2.0	0.8 7.0	0.3 4.0	14.8
	2022	2.U 1.7	7.2 7.3	4.9 6.0	14.0 15.0
2020 1.7 7.3 0.0 10.0	2020	1.7	7.3	0.0	13.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

V	013	Not well was b	Datas Laure C	7.1.1
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.2	1.0	9.4	10.6
1965	(s)	1.5	11.6	13.1
1970	(s) (s) (s)	1.9	16.0	18.0
1975	(s)	1.3	18.8	20.1
1980	_	1.1	21.7	22.8 22.6
1985 1990	<u>-</u>	0.8 1.4	21.8	22.0 26.5
1995	<u> </u>	1.4	25.2 28.2	20.5
1996	_	1.5 1.5	26.4	26.5 29.6 27.9
1997	<del>-</del>	1.3	28.9	30.1 30.1
1998	_	0.9	29.3	30.1
1999	_	0.9 0.8	30.3	31.2
2000	_	0.8	30.8	31.6
2001 2002	_	0.8 0.7	31.1 32.3	31.9
2002		0.7	32.3 31.1	33.0 31.0
2004	_	0.6	33.9	34.5
2005	_	0.5	33.0	31.6 31.9 33.0 31.9 34.5 33.4 33.3 34.6
2006	_	0.4	33.0	33.3
2007	_	0.6	34.0	34.6
2008	_	0.7 0.7	30.8 31.3	31.6
2009	_	0.7	31.3	32.0
2010 2011	_	0.8 0.7	31.5 31.2	31.6 32.0 32.3 31.9
2011		0.7	30.3	30.8
2012 2013	_	0.4	30.2	30.6
2014	_	0.5	30.6	31.1
2015	_	0.6	30.9	31.1 31.5
2016	_	0.3	31.2	31.5
2017	_	0.4	31.7	32.1
2018	_	0.8	32.9	33.7
2019 2020	_	1.1 1.3	32.1 29.5	33.2 30.8
2020		1.3	31.8	33.4
2022	<u> </u>	1.7	32.3	33.7
2023	_	1.6	32.2	33.8
			<b>41.1</b>	

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Kentucky (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- Cui	- Cour	Huturur gus	1 Carolicani	Total
1960	16.3	0.1	(e)	16.4
1965	26.6	(s)	(S)	26.6
1970	38.9	(s) 0.5	(s) (s) 0.1	39.4
1975 1980	45.7	(s) 0.1	0.1 0.1	16.4 26.6 39.4 45.8 53.3 58.8
1980	53.1 58.7	0.1	0.1	53.3
1985	58.7	0.1	0.1	58.8
1990	67.8	(s)	0.1	67.9
1990 1995 1996	79.1 81.3	(s) (s) 0.1	0.1	67.9 79.2 81.5
1996	81.3	U. I	0.1	81.5
1997 1998	84.2 83.9	0.1 0.3	0.1 0.6	04.0 9/1 0
1999	87.1	0.1 0.3 0.3	0.1	84.5 84.8 87.5 89.2 90.3
2000	88.9	0.2	0.1	89.2
2001	90.0	0.2	0.1	90.3
2002 2003	90.0 84.9 84.4	0.2 0.7	4.4	90.0
2003	84.4	0.2 0.3	3.7	88.3
2004 2005	85.6	0.3	4.3	90.1 93.3
2005	88.1	0.9	4.3 3.9 3.2 3.3 2.3 2.5	93.3
2006	91.5	0.7	3.9	96.1
2007	91.0	1.1 0.5	3.2	95.3 96.0
2008 2009	92.2 85.2	0.5	ა.ა ე ვ	96.0 88.0
2010	91.5	1.0	2.5	95.1
2011	91.9	0.8	1.9	94.6
2012	84.1	1.7	1.9 1.7	87.4
2013	84.7	0.8	1.6	87.0 87.4
2014	84.6	1.5	1.3	87.4
2015	73.6	2.8	1.2	77.6
2016	68.4	3.6	1.4	73.4
2017	59.0	4.5	0.6	64.1
2018	60.8	6.2	0.1	67.1
2019 2020	53.2 44.7	6.2 6.2 5.7	0.1 0.1	59.5 50.5
2020	50.9	6.0	0.1	50.5 56.0
2022	48.1	7.5	0.1	50.9 55.7
2023	44.5	6.1	0.1	56.9 55.7 50.7
	1110	0.1	0.11	00.11

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960		51.9	28.6	90.5
1965	(a)	51.9	26.0 35.4	80.5 95.3
1970	(s)	98.2	47.3	93.3 145.5
1975	_	96.2	65.3	161.5
1980	0.2	96.6	101.1	197.9
1985	15.1	74.7	77.2	167.0
1990	19.9	85.8	87.3	193.0
1995	20.6	89.8	97.9	208.3
1996	19.5 21.5	87.2	107.6	214.3
1997	21.5	95.9	105.0	222.4
1998	21.4	86.7	100.9	209.0
1999	21.7	80.7	105.2	207.6
2000	24.1	84.2	113.9	222.2
2001	22.9	69.7	107.4	200.0
2002	22.2	76.5	106.7	205.4
2003	23.7	70.6	108.1	202.4
2004	24.5	72.7	111.3	208.5
2005	24.2	71.4	106.9	202.5
2006	25.3	70.2	115.6	211.0
2007	23.8 25.1	74.3 71.2	113.3	211.4 205.1
2008 2009	25.1	68.4	108.9 101.8	194.3
2009	24.1 24.8	68.4 77.2	101.8	194.3
2010	24.0	80.0	102.0	204.0 208.4
2012	22.8	82.6	92.4	197.8
2013	21.8	78.3	89.4	189.5
2014	20.0	80.4	86.3	186.8
2015	16.7	81.9	86.5	185.1
2016	13.4	88.3	86.8	188.5
2017	13.6	88.1	91.1	192.9
2018	13.2	95.8	85.3	194.3
2019	8.7	101.0	85.1	194.8
2020	4.7	98.9	79.2	182.8
2021	9.2	95.9	83.0	188.1
2022	9.2 9.3 5.6	107.5	76.0	192.8
2023	5.6	105.9	72.4	183.8

a Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	_	31	0.3	3.4
1965	_	3.4	0.4	3.8
1970	_	4.7	0.6	5.3
1975 1980	<del>-</del>	3.1 3.4 4.7 5.3 4.0 3.3 2.9 2.9 3.1 3.2 2.7 2.5 2.8 2.7 2.7 2.5 2.8 2.7 2.7	0.3 0.4 0.6 0.4 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.3 0.4 0.5 0.4	5.7
1980	(s)	4.0	0.2	4.3
1985 1990 1995 1996 1997 1998 1999 2000 2001	=	3.3 2.0	0.2 0.2	3.0 3.1
1995	(s)	2.0	0.2	3.0
1996	( <del>-)</del>	3.1	0.2	3.3
1997	(e) 	3.2	0.2	3.4
1998		2.7	0.3	3.0
1999	<del>-</del>	2.5	0.4	2.9
2000	_	2.8	0.5	3.3
2001		2. <i>1</i> 2.7	0.4 0.2	ა. i 2 g
2002 2003 2004 2005	_	2.7	0.2 0.2 0.2 0.2 0.2	2.5
2004	_	2.3	0.2	2.5
2005	_	2.3	0.2	2.5
2006 2007 2008	<del></del>	1.8 2.0 2.0	0.2 0.1 0.2	2.1
2007	(s)	2.0	0.1	2.2
2008	_	2.0	0.2	2.2
2009	<del>-</del>	2.U 2.5	0.2 0.2	2.2 2.7
2010	_	2.3	0.2	2.7
2009 2010 2011 2012	_	2.0 2.5 2.1 1.7 2.1	0.2 0.2 0.2 0.1 0.1	1.8
2013	_	2.1	0.1	2.2
2013 2014 2015 2016	_	2.4 2.0 1.7	0.1 0.1	2.6
2015	<del>-</del>	2.0	0.1	2.1
2016	_	1./	0.1	1.8
2017	<del>-</del>	1.0	0.1 0.1	1.7
2010		2.0 1 Q	0.1	2.2 2.1
2018 2019 2020	_	1.6 2.0 1.9 1.7	0.1	3.4 3.8 5.3 5.7 4.3 3.6 3.1 3.0 3.3 3.4 3.4 3.0 2.9 3.3 3.1 2.9 2.8 2.5 2.5 2.1 2.2 2.2 2.7 2.3 1.8 2.2 2.2 2.7 2.3 1.8 2.2 2.1 1.9 2.1 2.0 1.6
2021	_	2.0	0.1	2.1
2021 2022 2023	<del>-</del>	2.0 1.9 1.5	0.1	2.0
2023	<del>-</del>	1.5	0.1	1.6

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		Time and gard		
1960	<u></u>	1.3	1.1	24
1965	_	1.3 1.2	0.9	2.4 2.1 5.0 4.8 9.1 3.3
1970 1975	_	3.8	1.1	5.0
1975	_	3.8 2.8 2.2 1.7	2 0	4.8
1980 1985	(s)	2.2	6.9	9.1
1985		1.7	6.9 1.6 0.5 0.2	3.3
1990 1995	<del>-</del>	1.4	0.5	1.9
1995	(s)	1.3	0.2	1.5 1.6
1996 1997	<u> </u>	1.4 1.5	0.1	1.0
1998	(s)	1.3	0.2 0.2	1.8 1.6
1999	_	1.4	0.4	1.0
2000	_	1.4	1.1	1.8 2.6
2001	<u> </u>	1.3	0.6	2.0
2002	_	1.4	0.5	1.9
2003 2004	_	1.4	1.0	2.4
2004	<del>-</del>	1.4	0.8 0.7	2.2
2005	<del>-</del>	1.4	0.7	1.9 2.4 2.2 2.1 1.5 2.7 1.6 2.0 2.0 1.9
2006		1.2 1.3 1.3 1.3	0.2 1.4 0.3 0.7	1.5
2007	(s)	1.3	1.4	2./
2008 2009		1.3	0.3	1.0
2009		1.3 1.5	0.7 0.5	2.0 2.0
2010	<u> </u>	1.5 1.4	0.5 0.5	1 9
2010 2011 2012 2013	_	1.4	0.4	1.9
2013	_	1.6	0.3	1.8
2014	<del>-</del>	1.6 1.7	0.3 0.3	2.0
2015	_	1.6	0.5	2.2
2016	<del>-</del>	1.6	0.6	2.2
2017	_	1.5	0.6	2.1
2018	_	1.9 1.8	0.6 0.6	1.8 2.0 2.2 2.2 2.1 2.5 2.4 2.3 2.4 2.4 2.4
2019	_	1.8	0.6	2.4
2020 2021 2022	_	1.6 1.8	0.7	2.3
2021 2022	<del>-</del>	1.8	0.0 0.8	2.4 2.4
2022		1.7	0.6 0.6 0.6 0.6	2. <del>4</del> 2.1
2020		1.0	0.0	2.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	<u> </u>	39.3	11.0	50.3
1965	_	42.6	15.8	58.4
1970	_	67.7	15.8 22.7	50.3 58.4 90.3
1975	_	64.8	27.7	92.5
1980	0.2	62.9	48.7	111.8 88.8
1985	1.0 1.5 0.7	51.6	36.2	88.8
1990	1.5	62.5	40.8	104.8
1995	0.7	64.2	45.3	110.2 114.9
1996 1997	0.2	64.8	49.8	114.9 121.6
1997	0.2 0.1	71.6 61.5	49.8 45.9	121.6
1999	0.1	56.4	49.8	107.0
2000	0.1	60.3	51.8	112.3
2001	0.2	49.7	52.0	101.8
2002	0.1	52.0	51.9	103.9
2003	0.3 0.2	51.1	51.6	103.0
2004	0.2	53.1	55.7	109.0 103.9
2005	0.2	49.8	54.0	103.9
2006	0.2	53.7	60.7	114.6
2007	0.2	55.8	61.9	117.8
2008	0.2	52.0	61.8	113.9
2009	(s) (s) 0.1	50.2	55.5	105.7 114.7
2010 2011	(S)	56.0 57.8	58.6 56.9	114.7
2012	0.1	57.6 59.4	52.5	114.8
2012	0.2	58.1	48.5	106.9
2014	0.3	59.1	47.7	107.1
2015	0.4	57.7	47.0	105.1
2016	0.4	62.4	47.9	110.7
2017	0.4	64.3	50.1	114.8
2018	0.4	68.3	49.3	118.1 119.5
2019	0.3	69.7	49.5	119.5
2020	0.3	66.5	45.5	112.3
2021	0.4	62.8	45.6	108.8
2022	0.5	69.0	39.4	108.9
2023	0.4	67.7	38.7	106.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	<del>-</del>	1.7	16.1	17.8 21.2 26.8
1965	_	3.0	18.2	21.2
1970	_	3.9	22.9	26.8
1975	<del>-</del>	3.3	32.4	35.8
1980	_	4.1	41.4	45.4
1985	_	2.3	39.1	41.4
1990	_	3.1	45.7	48.8
1995	_	3.6	50.3	53.9 59.2 56.5 55.3 55.2 61.2 53.5 54.9 54.9 53.7
1996	_	3.8	55.4	59.2
1997 1998	_	4.3 3.5	52.2 51.9	50.5
1999	_	3.5 2.7	52.5	55.3 EE 0
2000	=	2.7	52.5 58.3	00.Z 61.0
2000	_	2.9	50.5 50.0	01.2 52.5
2001 2002 2003 2004	_	2.9 2.6 2.8 2.6 2.5	50.9 52.1 52.3	53.5 54.0
2002	_	2.0	52.1 52.3	54.9 54.0
2004	<u>_</u>	2.0	51.2	54.5 53.7
2005	_	2.3	48.6	50.9
2006	_	2.6	52.2	54.9
2007	_	2.9	47.6	54.9 50.4
2008	_	2.9	44.4	47.3
2009	_	2.9 2.7	44.4 43.7	47.3 46.5
2010	<del>_</del>	2.6	39.5	42.0
2011	<del>-</del>	2.8 2.6	40.1	/2 Q
2012	_	2.6	36.2	38.8
2012 2013	_	2.0 2.7	36.2 35.6	37.6
2014 2015	_	2.7	33.0	38.8 37.6 35.7 36.4 37.6
2015	_	2.0	34.4	36.4
2016	_	4.6 5.5	33.0	37.6
2017	_	5.5	34.4 33.0 35.3	40.7
2018	_	7.2	30.5	37.7
2019	_	8.9 9.7	31.2	40.1
2020	<del>-</del>	9.7	29.0	38.8
2021	<del>-</del>	12.1	32.3	44.4
2022	<del>-</del>	15.2	32.4	47.5
2023	<del>-</del>	15.2	31.8	47.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Louisiana (million metric tons of carbon dioxide (CO2))

Vasu	Onal	National and 2	Datus Issues h	Tatal
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	<u> </u>	6.6	(s)	6.6
1965	(s) —	9.7	(s) (s) 0.1	6.6 9.7
1970	<u>~</u>	18.1	0.1	18.2
1975 1980	_	20.0	2.7	22.7 27.3
1980 1985		23.5 15.8	3.9 0.1	27.3 30.0
1990	18.3	15.8	0.1	30.0
1995	19.9	18.0	1.9	39.7
1996	19.3	14.0	2.0	35.4
1997	21.3	15.3	2.5	39.2
1998	21.3	17.7	2.5	41.5
1999	21.6	17.7	2.1	41.4
2000	24.0	16.7	2.2	42.9
2001 2002	22.7 22.0	13.4 17.6	3.4 2.0	39.5
2002	23.4	12.9	2.0	41.7 39.3
2004	24.4	13.4	3.4	41.2
2005	24.1	15.6	3.4	43.1
2006	25.1	10.8	2.1	38.1
2007	23.7	12.3	2.4	38.3
2008	24.9	12.9	2.2	40.1
2009 2010	24.1 24.8	12.2 14.7	1.7 3.3	38.0 42.7
2010	24.8 25.7	15.9	4.9	46.5
2012	22.6	17.4	3.2	43.2
2013	22.6 21.6	14.5	5.0	41.0
2014	19.8	14.5	5.2	39.5 39.3 36.2 33.5
2015	16.3	18.6	4.4 5.2	39.3
2016	13.0	18.0	5.2	36.2
2017	13.2	15.2	5.0	33.5
2010 2010	12.8 8.4	16.3 18.6	4.8 3.7	33.9 20.7
2018 2019 2020	4.3	19.3	3.7 3.9	33.9 30.7 27.5
2021	8.4 4.3 8.8 8.8 5.2	17.2	4.4	30.4
2022	8.8	19.8	3.5 1.2	30.4 32.1 26.3
2023	5.2	20.0	1.2	26.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
-				
1960	1.9 0.8 0.2	<del>-</del>	10.7	12.7
1965	0.8	_	12.1	12.9
1970	0.2	0.1	16.5	16.8
1975	0.1 0.3 0.5 1.0	0.1	15.8	16.1
1980	0.3	0.1	14.2	14.6 14.8
1985	0.5	0.1	14.1	14.8
1990 1995	1.0	0.2	17.7	18.9
1995	1.0	0.3	17.5	18.8 19.3
1996	0.9	0.3	18.1	19.3
1997 1998	0.8 0.7	0.3 0.3	18.4 18.3	19.6
1998	0.7	0.3	19.2	19.3
2000	0.7	0.3 2.5	19.2	20.2 22.3
2000	0.9	2.5 5.3	16.3	22.3 22.4
2001	0.7	6.7	16.5	23.9
2002	0.6	0.7 3.0	19.2	23.9
2003	0.7	3.9 4.7	18.7	20.0
2005	0.7	3.4	19.0	23.8 24.1 23.1
2006	0.7	3.6	17.0	21.2
2007	0.6 0.6	3.6 3.5	16.7	20.9
2008	0.6	3.9	14.6	20.9 19.0
2009	0.2	3.9 3.9	14.3	18.3
2010	0.2	4.3	13.3	17.8
2011	0.1	4.3 3.9	13.2	17.3
2012	0.1	3.7	11.8	15.6
2013	0.2	3.4	12.7	16.3
2014	0.1 0.2 0.2	3.3	12.9	16.4
2015	0.2 0.2	2.8	13.5	16.6
2016	0.2	2.8	13.0	16.1
2017	0.2	2.3	12.7	15.3
2018	0.2	2.5	12.0	14.7
2019	0.2	2.4	11.8	14.4
2020 2021	0.2 0.2 0.1	2.4	10.8 11.2	13.4
2021	0.2	3.0	11.2	14.4
2022	0.1	3.3	11.6	15.0 15.6
2023	0.1	3.2	12.3	15.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.3		3.0	2.2
1965	0.3 0.2 0.1	<u> </u>	3.0 3.4	3.6
1970	0.1	(s)	4.1	4.2
1970 1975	(s)	(s)	4.1 3.8	3.8
1980	(s) (s) (s) (s)	(s) (s) (s) (s) 0.1	3.0 2.8	3.0
1985	(s)	(S)	2.8	2.8
1990	(S)	(S)	2.9	3.0
1995 1996	(s)	(\$)	3.9	3.9
1996	(s) (s)	0.1 0.1	4.0 3.0	4.1 3.0
1998	(S) (S)	0.1 (s) 0.1	3.9 4.0 3.9 4.2	4 2
1999	(s)	0.1	4.0	4.0
2000	(s)	0.1	3.9	3.9
2001	(s) (s)	0.1	3.9	3.9
2002	(s)	0.1	3.5	3.5
2003 2004	(s)	0.1	4.8	4.8
2004	(s) (s)	0.1	4.8 5.2 4.6	5.2
2005	(S)	0.1	4.6	4.7
2006	(S)	0.1 0.1	4.0 3.8	4.U 2.0
2007 2008	(s) (s)	0.1	3.0	3.1
2009	_	0.1	2.9	2.9
2010	<del>_</del>	0.1	2.6	2.7
2011	_	0.1	2.7	2.7
2012 2013 2014	_	0.1	2.2	2.3
2013	_	0.1	2.3 2.4 2.9 2.8 2.8 3.0	2.4
2014	_	0.1	2.4	2.6
2015 2016	_	0.1 0.1	2.9	3.1
2017		0.1	2.0 2.0	3.0 3.0
2018	_	0.2	3.0	3.0
2019	_	0.2	2.9	3.2 3.6 4.2 3.8 3.0 2.8 3.0 3.9 4.1 3.9 4.2 4.0 3.9 3.5 4.8 5.2 4.7 4.0 3.9 3.1 2.9 2.7 2.7 2.3 2.4 2.6 3.1 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
2020	_	0.2	2.7	2.9
2021 2022 2023	<del>-</del>	0.2 0.2 0.2 0.2	2.5	2.7
2022	<del>-</del>	0.2	2.5 2.6	2.7
2023	<del>-</del>	0.2	2.6	2.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	0.0		0.0	0.0
1960 1965	0.2 0.1	<u> </u>	0.6 0.7	0.8 0.8
1965 1970	(s)	(s)	1.0	0.8 1.0
1975	(s) (s) (s) 0.1	(s) (s) (s) 0.1	1.0	1.0
1980	(s)	(s)	1.2 1.1	1.3
1985 1990	0.1	0.1	1.1	1.3 1.2 2.2 1.5 1.7 1.7 1.7 1.7 1.6 1.9 1.6 1.8 2.3 2.2 2.1 1.8 2.2 2.1 1.8 1.7 1.9 1.6
1990	0.1	0.1	2.1 1.4 1.5 1.5 1.6	2.2
1995 1996 1997	(s) (s)	0.1	1.4	1.5
1996		0.1 0.1	1.5	1.7
1997	(s) (s) (s)	0.1	1.5	1./
1998	(S)	0.1	1.6	1./
1999 2000	(S)	0.1 0.2	1.4 1.7	1.0 1.0
2000	(s) (s)	0.2	1.7	1.9
2002	(5)	0.3	1.5	1.0
2003	(s) (s)	0.3	2.1	2.3
2004	(s)	0.3	1.9	2.2
2005	(s)	0.3	1.8	2.1
2006	(s)	0.3	1.5 1.8	1.8
2007	(s) (s)	0.3	1.8	2.2
2008	<u> </u>	0.3 0.3 0.3	1.9	2.2
2009	_	0.3	1.5	1.8
2010	_	0.3	1.4	1.7
2011	_	0.4	1.4 1.5 1.2	1.9
2008 2009 2010 2011 2012 2013 2014	_	0.4	1.2	1.6
2013	_	0.4 0.5	1.2 1.2	1.6 1.7
2014	_	0.5 0.5	1.2	1./ 1.0
2016	_	0.5 0.5	1.2	1.8 1.6
2017	_	0.5	1.2 1.2 1.2	1.7
2018	_	0.5 0.5	1.2	1.7
2019	_	0.5	1.2	1.8
2020		0.5	1.1	1.6 1.8 1.8 1.8
2021 2022 2023	<del>-</del>	0.5 0.5 0.5 0.5	1.3 1.2 1.3	1.8
2022	_	0.5	1.2	1.8
2023	_	0.5	1.3	1.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.4	<u>_</u> .	1.5	2.0
1965	0.5	_	1.5 1.0 2.9 3.1 2.3 1.9 2.7	1.5
1965 1970	0.1	(s)	2.9	3.0
1975	0.1	(s)	3.1	3.2
1980 1985 1990	0.2	(s) (s) 0.1	2.3	2.6
1985	0.4	(s)	1.9	2.3
1990	0.5 0.7	0.1	2./	3.3
1995	0.7	0.1	4.1	4.9
1996 1997	0.5 0.4	0.1 0.1	4.3 3.8 3.2	5.U 4.4
1998	0.4	0.1	3.0	3.7
1999	0.3	0.1	3.0	3.4
2000	0.5	0.8	3.0 3.0 2.6	4.3
2001	0.3	0.7	2.6	3.5
2002 2003 2004 2005	0.2 0.3 0.3 0.3	1.3 0.2 0.9 0.4	2.4	3.9
2003	0.3	0.2	2.0	2.4
2004	0.3	0.9	2.0 2.3 2.5	3.4
2005	0.3	0.4	2.5	3.1
2006 2007	0.3	1.0	2.1	3.3
2007	0.3 0.3 0.2	1.2	1.9 1.5	3.3
2008 2009	0.2	1.4 1.4	1.3	ა.∠ ე ი
2010	0.1 0.1	1.4	1.3	2.0 2.7
2011	0.1	1.5	1.1	26
2011 2012	(s)	1.5 1.6	1.0 0.7	2.4
2013	(s) 0.1	1.7	0.6	2.3
2013 2014	0.1	1.3	0.6 0.5	1.9
2015	0.1	1.1	0.4	1.6
2016	(s)	1.0	0.4	1.4
2017	(s) (s) 0.1	0.9	0.4	1.4
2018	0.1	1.0	0.5 0.5	1.5
2019	(s) (s)	1.1	0.5	1./
2020	(S)	1.2	0.4	1./
2021 2022	_	1.2 1.1	0.5 0.5	1.0 1.6
2019 2020 2021 2022 2023		1.0	0.5 0.4	2.9 1.5 3.0 3.2 2.6 2.3 3.3 4.9 5.0 4.4 3.7 3.4 4.3 3.5 3.9 2.4 3.4 3.1 3.3 3.2 2.8 2.7 2.6 2.4 2.3 1.9 1.6 1.4 1.4 1.5 1.7 1.7 1.6 1.6 1.6 1.4
_0_0		1.0	0.7	1.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(e)	<u>_</u>	17	18
1965	(s) (s) (s) (s)	_	4.7 4.9 6.3	4.9
1965 1970 1975	(s)	_	6.3	6.3
1975	(s)	<del></del>	6.6 5.9 6.7	6.6
1980	_	(s) (s)	5.9	5.9
1985	_	(s)	6.7	6.7
1990	_	(s)	8.3 7.3	8.3
1995 1996	_	(s)	7.3 7.5	7.3 7.5
1997		(s)	7.5 7.0	7.5 7.0
1998	_	(s) (s) (s) (s) 0.1 (s) (s) (s) (s) (s) (s)	7.9 7.7	7.3
1999	_	(s)	8.0	8.0
2000	_	(s)	8.6 7.6 8.7	8.6
2001	<del>-</del>	0.1	7.6	7.6
2002	_	(s)	8.7	8.7
2003	_	(s)	9.4	9.4
2004 2005	_	(s)	8.7	8.7
2005	_	(\$)	9.4 8.7 9.3 9.3 8.9 8.0	9.3
2006 2007	_	(S)	9.3	9.4
2007	_	(5)	0.9 8.0	9.0 8.0
2009	_	(9)	8.3	8.0 8.4
2010	_	(s) 0.1	8.0	8.1
2011	_	0.1	7.9	8.0
2012	_	(s) (s) 0.1 0.1	7.6	7.7
2013 2014 2015	_	(s)	8.5 8.5 8.5 8.5 8.1	8.5
2014	_	0.1	8.5	8.6
2015	_	0.1	8.5	8.6
2016	_	(S)	8.5	8.5
2017 2018	_	(s) (s) (s) 0.1	8.1	8.1
∠UIԾ 2010	<del>-</del>	(S)	7.2 7.1	7.2 7.0
2019 2020		0.1	7.1 6.5	7.2 6.6
2021	<u> </u>	0.1	7.0	4.8 4.9 6.3 6.6 5.9 6.7 8.3 7.3 7.5 7.9 7.7 8.0 8.6 7.6 8.7 9.4 8.7 9.3 9.4 9.0 8.0 8.4 8.1 8.0 7.7 8.5 8.6 8.7
2022	_	0.1	7.2	7.3
2022 2023	<del>-</del>	0.1	7.8	7.9

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Maine (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	(1)			
1960 1965	(s)	<del>-</del>	0.9 2.1	0.9 2.1 2.3 1.3 1.7 1.6 2.1 1.2 1.1 1.7 1.9 3.3 3.5 5.7 5.9 4.8 4.5 3.8 2.7 2.6 2.5 2.4 2.6 2.1 1.7
1970	_		2.3	2.1
1970 1975	_	_	1.3	1.3
1980	_	_	1.3 1.7	1.7
1985	_	<del></del>	1.6	1.6
1990	0.4	(s) (s) (s)	1.7	2.1
1995	0.4	(s)	0.9 0.7	1.2
1996 1997	0.4	(\$)	0.7	1.1
1997	0.4 0.4	(s) (s) (s) 1.5 4.4 5.0 3.3 3.5 2.7	1.3 1.6	1./ 1.0
1999	0.4	(S)	2.9	33
2000	0.4	1.5	2.9 1.6 0.9 0.4	3.5
2001 2002 2003 2004	0.4 0.5 0.4 0.4	4.4	0.9	5.7
2002	0.5	5.0	0.4	5.9
2003	0.4	3.3	1.0	4.8
2004	0.4	3.5	0.6	4.5
2005 2006	0.4 0.4	2.7	0.7 0.1	3.8
2006	0.4 0.3	2.ა 1 0	0.1	2./ 2.6
2008	0.3 0.3	1.9 2.1	0.3	2.0
2009	0.1	2.0	0.2 0.2	2.4
2010	0.1	2.2	0.2	2.6
2011	0.1	1.9 1.6	0.1	2.1
2012	0.1	1.6	0.1	1.7
2011 2012 2013 2014	0.1 0.1 0.1 0.2 0.2 0.2	1.1	0.1 0.2 0.2	1.4 1.7 1.6 1.5
2014	0.1	1.3	0.2	1./
2015 2016 2017	0.2	1.0 1.2	0.4 0.1	1.0 1.5
2010	0.2	0.7	0.1	1.0
2018	0.2	0.8	0.2	1.1
2019	0.2	0.5	(s)	0.7
2019 2020	0.2 0.2 0.2 0.1	0.5 0.5	(s) (s)	1.1 0.7 0.7 1.3 1.7
2021	0.2	1.1	(s) 0.2	1.3
2022	0.1	1.4	0.2	1.7
2023	0.1	1.4	0.1	1.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Teal	Coal	ivaturai gas ~	reti oledili ~	Total
1960	21.1	3.9	24.5	49.4
1965	30.6	5.3	27.9	63.8
1970	29.0	8.4	36.8	63.8 74.2
1975	18.4	7.4	41.3	67.1
1980	22.1	8.5	36.8	67.4
1985	24.1	8.2	32.5	64.8
1990	27.1	9.5	33.8	70.4
1995	27.5 27.8	10.4	32.5	70.4
1996	27.8	10.6	34.3	72.6
1997	27.5	11.5	33.8	72.8
1998	28.9	10.3	36.8	76.0
1999 2000	29.0 29.7	10.7	38.8 37.2	78.6
2000	30.3	11.5 9.7	37.2 38.9	78.4 78.9
2001	30.3	10.7	36.9	78.9 78.9
2002	31.1 31.5	10.7	37.1	76.9 82.0
2003	31.5 31.2	10.7	41.3	82.0 83.2
2005	31.5	11.2	42.2	84.8
2006	31.0	10.0	37.2	78.1
2007	31.0 31.3	11.0	36.1	78.4
2008	29.5	10.7	34.3	74.5
2009	25.5	10.8	35.1	71.3
2010	25.4	11.5	34.4	71.4
2011	23.0	10.5	33.2	66.8
2012	18.4	11.5	32.4	62.3
2013	17.5	10.9	33.1	61.5 64.0
2014	19.2	11.5	33.3	64.0
2015	15.9	11.9	34.3	62.0
2016	15.6	12.1	32.5	60.2
2017	10.2	12.3	32.3	54.8
2018	11.9	16.5	33.1	61.5
2019	7.4	16.4	32.9	56.7
2020 2021	4.8 6.6	15.5	27.5 29.9	47.8 52.2
2021	5.9	15.8 16.4	29.9	52.3 50.6
2022	2.9	16.1	26.3 29.7	48.6
2020	2.5	10.1	23.1	40.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.4	2.5	3.7	6.6
1965	0.3	3.1	4.2	7.6
1965 1970	0.1	4.0	4.2 4.6	8.7
1975	(s) (s) 0.1	3.7 3.7	4.3	8.0
1980	(s)	3.7	4.3	8.0
1985	0.1	3.7	3.1	6.9
1990	(s) 0.1	3.6	2.6 2.7	6.2
1990 1995 1996	U.1 (e)	4.2 4.6	3.1	0.9 7.8
1997	(s) (s)	4.0	2.8	7.0 7.1
1998	(s)	4.2 3.7	2.8 2.5	6.3
1999 2000	(s)	4.1 4.6	2.6 2.6 2.6 2.6	6.7
2000	(s) (s) (s)	4.6	2.6	7.2
2001	(s)	3.9	2.6	6.5
2002 2003 2004 2005	(S)	4.4	2.4 2.5 2.4 2.4	6.8
2003	(S)	5.0 4.7	2.5	7.5 7.0
2004	(5)	4.7	2.4	7.2 7.2
2006	(s) (s) (s) (s) (s)	3.9	2.0	5.9
2006 2007 2008	(s)	4.6	2.0 1.9 1.9 1.9 2.0 1.7	6.5
2008		4.5	1.9	6.3
2009	_	4.5	1.9	6.5
2010	_	4.6	2.0	6.6
2011	_	4.2	1./	5.9
2012	<del>-</del>	3.9 4.6	1.4	5.Z 6.2
2011 2012 2013 2014		3.9 4.6 4.5 4.5 4.6 4.2 3.9 4.6 5.0 4.6 4.2	1.0	0.2 7.0
2015	_	4.6	1.9	6.5
2015 2016	_	4.2	1.3	5.5
2017	_	4.2	1.2	5.4
2017 2018 2019 2020 2021 2022 2023	_	4.8 4.5 4.3 4.2	1.6 1.9 1.9 1.3 1.2 1.5 1.2 1.3 1.5	6.6 7.6 8.7 8.0 8.0 8.0 6.9 6.2 6.9 7.8 7.1 6.3 6.7 7.2 6.5 6.8 7.5 7.2 7.2 5.9 6.5 6.3 6.5 6.6 5.9 5.2 6.2 7.0 6.5 5.5 5.4 6.3 5.8 5.5 5.7 6.0 5.3
2019	_	4.5	1.2	5.8
2020	_	4.3	1.3	5.5
2021	_	4.2 4.5	1.5 1.5	5./ e.n
2022		4.5 3.9	1.5	0.0 5.3
2020		0.0	1.7	5.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	•			
1960 1965 1970 1975	0.3 0.2	0.4	2.3 2.3 2.2	3.0 3.2 3.7 3.5 3.5 2.8 2.9 4.8 4.3 4.2 4.7 4.5 4.7 4.9 4.9 5.3 5.2 5.0 4.6 4.7 4.7 4.7 4.8 4.6 4.6 4.6 4.7 5.1 5.3 5.1 5.2 5.6 5.6 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
1965	0.2	0.7	2.3	3.2
1970	0.1	1.4	2.2	3.7
1975	0.1	1.4	2.1	3.5
1980 1985	0.1	1.5	1.9 1.2 1.5	3.5
1985	0.2	1.3	1.2	2.8
1990	0.1	1.3	1.5	2.9
1995 1996	0.6 0.1	2.5 2.5	1.6 1.7	4.8
1997	U. I O 1	2.5 2.7	1.7	4.3
1998	0.1 0.1	3.2	1.4 1.4	4.2 1.7
1000	0.1	3.2	1.4	4.7
1999 2000	0.1	3.2	1.2	4.3 A 7
2000	0.2 0.2	3.3	1.3	4.7 4.9
2001 2002 2003 2004 2005	(9)	3.2 3.0 3.3 3.5 3.9 3.9 3.9	1.2 1.5 1.4 1.3	4.0
2002	(s) (s) 0.1	3.9	1.0	5.3
2004	0.1	3.9	1.2	5.2
2005	0.1	3.9	1.4 1.2 1.1	5.0
2006 2007	0.1	3.5	1.0	4.6
2007	0.1 0.1	3.5 3.9 3.9 3.8 3.7 3.7	1.0 0.7	4.7
2008	0.1	3.9	0.7	4.7
2009	0.1 (s) 0.1	3.8		4.8
2010	(s)	3.7	0.9	4.6
2011	0.1	3.7	0.8	4.6
2012	(s)	3.5	0.8	4.4
2013	(s)	3.9	0.8	4.7
2009 2010 2011 2012 2013 2014 2015 2016	(s) (s) (s) (s)	3.5 3.9 4.2 3.9 3.9 4.0	0.9 0.9 0.8 0.8 0.9 1.4 1.2	5.1
2015	(s)	3.9	1.4	5.3
2016		3.9	1.2	5.1
2017 2018 2019 2020 2021 2022 2023	_	4.0	1.2	5.2
2018	_	4.3 4.2 3.7 3.6	1.3 1.4	5.6
2019		4.2	1.4	5.6
2020	_	3.7	1.3	5.0
2021	<del>-</del>	3.6	1.4	5.0
2022	_	4.1 3.7	1.4 1.3	5.4
2023	_	3.7	1.3	5.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	12.4	0.9	6.3	19.5
1965 1970	14.9	0.9 1.5	5.9	22.2
1970	14.9 14.9	2.3	6.3 5.9 5.4	19.5 22.2 22.6
1975 1980 1985	9.3	2.3 2.2 2.8 2.9 3.3 2.6 2.6 3.5 2.0	5.0 3.7 2.9 2.7	16.5
1980	8.1	2.8	3.7	14.7 12.7 11.3 6.6 7.3 7.5 7.0
1985	6.9 5.3 1.8 1.9 1.8 1.8	2.9	2.9	12.7
1990	5.3	3.3	2.7	11.3
1990 1995 1996	1.0 1.0	Z.0 2.6	2.3 2.8	0.0 7.2
1997	1.9	2.0	2.0	7.5 7.5
1998	1.0	2.0	2.1 3.1	7.0
1999	1.9	2.0	3.1	7.0
1999 2000	1.9 1.9 3.2 3.2 3.0 3.2 3.1 2.9 2.8 2.7 2.1 2.1 2.1 1.9 1.5 1.5 1.4 1.2 1.2	2.0 2.1	3.1 2.5 3.7	6.6
2001	3.2	1.5	3.7	8.3
2002 2003 2004 2005	3.2	1.4 1.2 1.3 1.3	3.3	8.0
2003	3.0	1.2	3.5 4.1	7.6
2004	3.2	1.3	4.1	8.6
2005	3.1	1.3	3.8	8.2
2006	2.9	1.2 1.1	1.9	0.U 5.5
2006 2007 2008	2.0	1.1	1.9 1.6 1.5	5.5 5.4
2009	2.7	1.1	1.5	4.5
2010	2.1	1.2	1.0	4.3
2011	2.1	1.3 1.2 1.1 0.9 0.8 0.8	1.1 1.0 1.1 0.9 1.0 1.1	4.3
2012	1.9	0.9	0.9	3.8
2013	1.5	0.8	1.0	3.2
2014	1.5	0.8		3.4
2015	1.4	0.8 0.8 0.8	1.0	3.2
2016	1.2	0.8	0.9	2.9
2017		0.8	0.9	2.9
2010	1.1 1.0	0.9 1.0	0.9 1.0	ረ. <del>ሃ</del> ጳ በ
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	1.1 1.0 0.9 0.9 0.9 0.9	1.0 0.9	1.0 0.9 0.9 0.9 1.0 0.9 0.9	7.0 6.6 8.3 8.0 7.6 8.6 8.2 6.0 5.5 5.4 4.5 4.3 4.3 3.8 3.2 3.4 3.2 2.9 2.9 2.9 2.9 2.9 2.7 2.8 2.7
2021	0.9	1.0	0.9	2.8
2022	0.9	0.9	1.0	2.7
2023	0.8	0.9 0.8	1.0 0.9	2.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year         Coal a         Natural gas b         Petroleum c           1960         0.2         (s)           1965         (s)         0.1           1970         (s)         0.1           1975         (s)         0.1           1980         —         0.2           1985         —         0.1	12.1 15.4 19.4	Total
1960 0.2 (s) 1965 (s) 0.1 1970 (s) 0.1 1975 (s) 0.1 1980 — 0.2	15.4	12.4
1965 (s) 0.1 1970 (s) 0.1 1975 (s) 0.1 1980 — 0.2	15.4	12.4
1965 (s) 0.1 1970 (s) 0.1 1975 (s) 0.1 1980 — 0.2	15.4	14.1
1970 (s) 0.1 1975 (s) 0.1 1980 — 0.2	10 /	15.6
1975 (s) 0.1 0.2	13.4	19.5
1980 — 0.2	21.1	19.5 21.2 22.7
1085 — 0.1	22.5	22.7
0.1	22.5	22.6
1990 — 0.1	23.4	23.6 24.7
1995 — 0.2	24.5	24.7
1996 — 0.1 1997 — 0.2	25.2	25.4
1997 — 0.2 1998 — 0.2	26.0 26.7	∠0. I 26. 0
1999 — 0.2	28.2	26.1 26.9 28.3 28.7 28.7 28.3 29.7 31.1 31.9
2000 — 0.2	28.6	28.7
2001 — 0.2	28.6	28.7
2002 — 0.1	28.2	28.3
2003 — 0.2	29.5 31.0	29.7
2004 — 0.2	31.0	31.1
2005 — 0.2	31.8	31.9
2006 — 0.2	31.7	31.9
2007 — 0.2	31.1	31.3 30.0
2008 — 0.2	29.8	30.0
2009 — 0.1	30.8	31.0 30.7
2010 — 0.4 2011 — 0.3	30.3 29.4	30.7 29.8
0040	29.2	29.7
2012 — 0.4 2013 — 0.2	29.5	29.8
2014 — 0.4	29.0	29.4
2015 — 0.4	29.8	30.2
- 0.4	28.9	30.2 29.3
2017 — 0.5	28.9	29.3
2018 — 1.3	29.1	30.3
2019 — 1.4	29.1	30.6 25.4
2020 — 1.4	24.0	25.4
2021 — 1.5	26.0	27.5
2022 — 1.6	24.3	27.5 25.9 27.5
2023 — 1.5	26.0	27.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Maryland (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	7.8	(S)	0.1	7.9
1965	15.1	(s) (s) 0.6	0.1	7.9 15.2
1970	13.9	0.6	5.1	19.6
1975	9.0 13.9	(s) 0.3 0.1	8.8 4.3 2.8	17.8 18.5 19.8
1980	13.9	0.3	4.3	18.5
1985	17.0 21.7	0.1 1.1	2.8 3.5	19.8
1005	21.7 25.0	1.0	3.5 1.4	20.4 27.4
1990 1995 1996	25.0 25.8	0.6	1.4	26.4 27.4 27.9
1997	25.6 25.6	0.0	15	27.9
1997 1998	26.9	0.9 1.2	3.0	31.1
1999	25.6 26.9 27.0	1.3	1.5 3.0 3.8 2.0	27.9 31.1 32.0 31.2 30.6 31.0
2000	27.6 27.0 27.9 28.5 27.9 28.3	1.6	2.0	31.2
2001	27.0	1.0 1.2 0.6	2.6	30.6
2002 2003	27.9	1.2	1.9	31.0
2003	28.5	0.6	1.9 2.9 2.6	31.9 31.1 32.4
2004 2005	27.9	0.7	2.6	31.1
2005	28.3	1.1	3.0	32.4
2006 2007	28.0 28.4	1.2 1.3	0.5 0.8	29.7
2007	26.7	1.1	0.6	30.5 28.2
2008 2009	23.3	1.0	0.3	24.6
2010	23.3 23.2	1.7	0.3	25.2
2011	20.9	1.1	0.3 0.2	24.6 25.2 22.3
2012	16.4	2.7	0.1	19.2
2013	16.0	1.4	0.2	17.5
2014	17.7	1.1	0.4	19.2
2015	14.4	2.2 2.7	0.2	16.8
2016	14.4	2.7	0.2	17.3
2017 2018	9.1	2.8 5.4	0.1 0.2	12.0 16.3
2010 2010	10.7 6.4	5.4 5.3	0.2 0.1	10.3 11.0
2019 2020	3.0	5.3 5.2	0.1	11.8 9.2
2021	3.9 5.7	5.4	0.1	11.2
2022	5.0	5.3	0.1	10.5
2022 2023	2.1	6.1	0.1	10.5 8.3
		**	•	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		<b>3</b>	*****	
1960	11.3	4.3	57.7	73.2
1965	11.3 12.2	6.1	68.6	73.2 86.9 99.5
1970	2.0 2.3 2.2	7.9	89.6	99.5
1975	2.3	7.9 8.2	81.3	91.8
1980	2.2	9.0	65.6	76.7 79.2
1985	10.5 10.8	11.7	57.1	79.2
1990	10.8	14.4	57.6	82.9
1995	10.0	20.6	47.9	78.5 79.2
1996	10.8	20.4	47.9	79.2
1997	11.7	21.7	51.8	85.2
1998	10.4	19.3	53.4	83.1
1999 2000	10.8 10.9	19.0 18.8	51.0	80.8
2000	10.9	18.8	52.6 52.5	82.3 82.0
2001	10.4	21.3	52.5 50.4	83.0
2002	11.3 10.5 10.0	21.9	52.5	9.00 9.40
2003	10.0	20.3	52.6	84.9 83.0
2005	11.4	20.4	52.5	84.4
2006	10.7	20.0	45.8	76.5
2007	11.5	22.1	46.2	79.8
2008	10.2	22.0	44.5	79.8 76.7
2009	8.8	21.6	40.0	70.4
2010	8.0	23.7	41.1	72.8
2011	4.1	24.6	40.0	72.8 68.7
2012	2.3	22.8	37.3	62.4
2013	4.0	23.0	39.3	66.4
2014	2.9 2.3	22.9	39.2	64.9
2015	2.3	24.1	40.2	66.6
2016	1.9	23.2	38.7	63.9
2017	1.2	24.4	39.0	64.5
2018 2019	(s) (s)	23.8 23.3	40.1 39.9	63.9 63.2
2019		23.3	39.9	53.2 52.1
2020		21.3	31.0	52.1 56.0
2021		21.3	34.6 36.5	50.0 50 3
2023		20.4	36.5	56.0 59.3 56.8
2020		20.4	00.0	30.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	1.2 0.5 0.2	2.5	16.9	20.6
1965 1970	0.5	3.5	17.3	20.6 21.3 22.1
1970	0.2	2.5 3.5 4.4	17.4	22.1
1975	0.1 (s) 0.1	4.8 4.7 5.2 5.9 5.8 6.2 6.1 5.5 5.9 6.3 5.9	16.8	21.6
1980	(s)	4.7	10.1 9.1 9.2 9.0 8.3 8.3 7.7	14.8 14.4 15.1 14.7 14.5 14.4 13.2
1985	U.1	5.2	9.1	14.4
1990 1995	(S)	5.9 5.9	9.2	13.1 14.7
1996	(5)	5.0 6.2	8.3	14.7
1996 1997	(5)	6.2	8.3	14.5
1998	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5.5	7.7	13.2
1998 1999	(s)	5.9	8.1 9.4 10.1	14.0
2000 2001	(s)	6.3	9.4	15.7 16.0
2001	(s)	5.9	10.1	16.0
2002 2003 2004 2005	(s)	6.0 6.9 6.2 6.4	9.9 9.5 8.9 8.5	15.9 16.4 15.0 14.9
2003	(s)	6.9	9.5	16.4
2004	(S)	6.2	8.9	15.0
2005	(S)	0.4 5.6	8.5 7.3	14.9
2000	(8)	5.0 6.2	7.3 7.3	12.0 12.5
2006 2007 2008	(5) —	5.6 6.2 7.1	7.3	12.8 13.5 14.4 13.9 13.6 13.6
2009	_	7.1	6.6	13.9
2010	_	6.9	6.6 6.7	13.6
2011	_	7.1	6.6	13.6
2010 2011 2012	_	7.3 6.9 7.1 6.3 6.4	6.6 5.5	11.8
2013	<del>-</del>	6.4	6.0	12.4 13.7
2014 2015	_	6.9 6.9	6.8 6.7 5.3	13.7
2015	_	6.9	6.7	13.6
2016	_	6.1	5.3	11.4
2017	_	6.6 7.1	5.8	12.4
2018 2019	<del>-</del>	7.1 7.4	6.3 6.3	13.4 13.7
2020		6.6	5.6	13.7
2021	_	6.7	5.0 5.8	12.2
2022	_	7.2	5.8 5.8	12.9
2021 2022 2023	_	6.0	5.8	12.5 12.9 11.7

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000				
1960 1965 1970	0.8 0.4	0.6 0.9	10.2 12.6	11.5
1970	0.2	1.9	13.0	13.9 15.1
1975	0.2	2.0	10.1	12.3
1980	0.2 0.2	2.6 2.2	5.7	8.5
1985 1990	0.2	2.2	4.4 5.5 4.4 3.8 3.7 3.2 2.4	6.9
1990	0.1 0.1	2.8 4.5 5.2 5.7 4.8 3.7	5.5	8.4
1995 1996 1997 1998	0.1	4.5	4.4	9.0
1996	0.1 0.1	5.2	3.8	9.1
1997	0.1	5.7 4.9	3./ 2.0	9.5 9.1
1999	0.1	4.0	3.2 2.4	0.1 6.2
2000	(s)	3.5	3.2	6.8
2001	(s)	3.4	2.3	5.8
2001 2002	(s) (s) 0.2	3.6	3.2 2.3 2.1	5.9
2003 2004	0.1	3.4	3.6	7.1
2004	0.1	3.1	3.4	6.5
2005	0.1	3.0	3.6 3.4 3.5 2.2 2.0 1.7	6.7
2006 2007	(s)	2.8 3.3	2.2	5.0
2007	(s) (s) —	3.3	2.0	5.3
2008 2009	_	3.9	1./	5.0 5.0
2010	<u> </u>	3.9 4.0	1.9 2.8	5.0 6.7
2011	_	4.4	1.9	6.3
2010 2011 2012 2013 2014	_	3.9 3.9 4.0 4.4 4.0	1.9 2.8 1.9 1.2	5.2
2013	_	5.5	1.3	6.8
2014	_	5.5 5.7	1.4	7.1
2015 2016	_	5.7 5.7	1.8 1.2 1.3	7.5
2016	_	5.7	1.2	7.0
2017	<del>-</del>	6.0	1.3	7.3
2018 2019	_	6.5 6.6	1.4 1.4	7.9 • ^
2020		6.0	1.4 1.2	12.3 8.5 6.9 8.4 9.0 9.1 9.5 8.1 6.2 6.8 5.8 5.9 7.1 6.5 6.7 5.0 5.3 5.6 6.7 6.3 5.2 6.8 7.1 7.5 7.0 7.3 7.9 8.0 7.2 7.4 8.1
2020		5.6	1.3 1.8 1.8 1.7	7.2 7.1
2021 2022 2023	_	6.4	1.8	8.1
2023	_	5.8	1.7	7.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	3.1	0.6	10.2	14.0
1965 1970	1.2	1.0	13.8	16.0
1970	3.1 1.2 0.3 0.2	1.2 1.2	14.1	14.0 16.0 15.6
1975	0.2	1.2	14.1 9.1 2.7 5.1	10.6
1980	0.2	1.4 1.7 2.4 3.3 3.2 3.4 3.3 4.2	2./	4.3
1985 1990	0.4	1./	5.I 2.0	7.2 5.4
1990	0.2 0.1	2.4	2.8 1.6 1.7	5.4 5.1
1996	0.1	3.3	1.0	5.1 5.0
1997	0.1	3.4	1.7	5.0
1998	0.1	3.3	1.6 1.6	5.0
1999	0.1	4.2	1.4	5.7
2000 2001	0.1 0.1		1.3 2.2	5.5
2001	0.1	4.3	2.2	6.6
2002 2003	0.1	4.0 4.3 4.6 2.3 2.3 2.5	1.8	6.5
2003	0.1	2.3	1.8 1.7	4.3
2004	0.1	2.3	1./	4.1
2005 2006	0.2	2.5	1.7	4.4
2000	0.2 0.2	2.3 2.4	1.0 1.5	4.2 4.2
2007 2008	0.2	2.3 2.4 2.3	1.8 1.5 1.3	4.2 3.8
2000	0.2	2.1	0.9	3.1
2009 2010	0.2	2.4	0.9 1.0	3.6
2011	0.1 0.2 0.2	2.5	1.1	3.8
2012	0.2	2.3	0.8	3.3
2013 2014	0.2	2.5 2.4	0.8	3.5
2014	0.1	2.4	0.8 0.8 0.9 0.8	3.4
2015	0.1	2.3	0.9	3.3
2016	(s)	2.4	0.8	3.2
2017 2018	(S)	2.5 2.5	0.9 0.8	3.3
2018	(s) (s) (s)	2.5 2.6	0.8 Λ Ω	ა.ა ი ი
2019	(s) —	2.0	0.8 0.7	ა.ა 2 1
2020	_	2.4 2.5	0.7 0.8	3.1
2021 2022	_	2.5 2.5	0.8 0.8	3.3
2023	_	2.3	0.8	10.6 4.3 7.2 5.4 5.1 5.0 5.1 5.0 5.7 5.5 6.6 6.5 4.3 4.1 4.4 4.2 4.2 4.2 3.8 3.1 3.6 3.8 3.1 3.6 3.8 3.3 3.3 3.1 3.3 3.3 3.3 3.3 3.3 3.3 3.3
-				

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	(c)	15.5	15.6
1965	(s)	(s) (s) 0.1	19.0	19.0
1970	(s) (s) (s)	0.1	24.7	19.0 24.8
1975	(s)	(s) (s) 0.1	26.2 25.3	26.2 25.4 27.0
1980		(s)	25.3	25.4
1985 1990	_	0.1 0.1	27.0	27.0
1995	_	0.1	20.0 28.2	20.0 28.3
1996	<u> </u>	0.1	28.8 28.2 29.6	28.8 28.3 29.7
1997	_	0.1	30.0	30.1
1998	_	0.1	30.0	30.1 30.1 30.9 32.2 31.6 31.7 32.0 33.5 33.9 32.8 33.1 32.7 30.0 30.6
1999	_	0.2	30.7	30.9
2000	_	0.1	32.1 31.4	32.2
2001 2002	_	0.2	31.4	31.6
2002	<del>-</del>	0.2 0.1	31.5 31.9	31./
2003 2004	_	0.1	33.4	32.0 33.5
2005	_	0.1	33.7	33.9
2006	_	0.1	32.7	32.8
2007	_	0.1	32.7 33.0	33.1
2008	_	0.1	32.6 29.9	32.7
2009	_	0.1	29.9	30.0
2010	_	0.3	30.4 30.3	30.6
2011		0.3	30.3 29.7	30.0
2012 2013		0.2 0.2	30.9	30.0 31.1
2014	_	0.5	29.4	29.9
2015	_	0.6	30.2	30.8
2016 2017	_	0.5	31.1	31.6 31.2
2017	_	0.5	30.8	31.2
2018	_	0.5	31.3	31.8 31.9 23.8
2019	_	0.6	31.3	31.9
2020 2021	_	0.5 0.4	23.4 26.3	23.8
2021	_	0.4	20.3 27.6	20.7 28.1
2023		0.3	28.1	26.7 28.1 28.5
		0.1	20.1	20.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Massachusetts (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	6.1	0.6	4.8	11.6
. 1965	10.1	0.7	4.8 5.9	16.7
1970	1.3	0.3	20.5	22.1
1975 1980	1.9	0.1	19.1	21.0
1980	1.7	0.2	21.9	23.8 23.7
1985	9.8	2.4	11.5	23.7
1990 1995	10.5 9.8	3.4 7.0	11.4 4.6	25.3 21.4
1995	10.6	7.0 5.6	4.6	20.9
1997	11.5	6.4	8.2	26.9
1998	10.3	5.6	10.8	26.2 26.7
1999	10.6	5.0	8.3	24.0
2000	10.7	4.8	6.6 6.5	22.2
2000 2001	10.2	5.3	6.5	22.0
2002 2003 2004	11.0	4.8 5.3 6.9 9.2 8.6 8.3	5.0 5.6 5.3 5.0	22.2 22.0 22.9 25.0 23.7 24.5
2003	10.2	9.2	5.6	25.0
2004	9.8 11.1	8.6	5.3	23.7
2005	11.1	8.3	5.0	24.5
2006 2007	10.5 11.2	9.2	1.9 2.4	21.6 23.7
2007	10.0	10.1	2.4 1.7	23.7
2009	8.7	8.5 8.2 10.2	0.7	20.2 17 6
2010	7.8	10.2	0.7	18.3
2010 2011 2012	7.8 3.9	10.3	0.2 0.2	17.6 18.3 14.4
2012	2.1	9.9 8.5	0.1 0.3 0.7	12.1 12.7
2013	2.1 3.9 2.7 2.2 1.9 1.2	8.5	0.3	12.7
2014 2015	2.7	7.4 8.5 8.5 8.9	0.7	10.8
2015	2.2	8.5	0.6	11.3
2016	1.9	8.5	0.3	10.7
2017		8.9	0.3 0.2 0.3	10.3
2016 2017 2018 2019 2020	_	7.3	0.3 0.1	/.b
2019		6.1 5.7	U.1 (c)	0.2 5.7
2020	_	6.1	(s) 0.1	10.7 10.3 7.6 6.2 5.7 6.1 6.8 6.0
2022	_	6.3	0.5	6.8
2023	_	6.3 5.9	0.1	6.0
		0.0	Ų. i	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-	I	
1960	61.6	20.1	48.8	130.4
1965	78.3	29.5	54.6	162.4
1970	78.2	43.1	65.6	186.9
1975	70.8	46.9	74.2	191.9
1980	71.7	45.9	61.8	179.4
1985	74.0	37.7	54.7	166.4
1990	74.8	46.1	58.4	179.4
1995	74.6	51.0	62.1	179.4 187.7 193.1
1996	75.5	53.5	64.1	193.1
1997	74.1	51.9	64.7	190.7
1998	78.5	45.8	65.8	190.0
1999	79.0	49.8	69.1	197.9
2000	76.0	51.1	66.8	193.9
2001	75.1	48.6	65.8	189.4
2002	70.4	51.8	66.5	188.8
2003	71.3	50.1	65.7	187.1
2004	73.8	49.5	65.5	188.8
2005	76.3	48.9	64.8	190.0
2006	73.7	43.1	62.4	179.2
2007	76.3	43.0	62.5	181.8
2008	76.2 70.2	42.1	57.2	175.4
2009	70.2	39.6	54.9	164.7 167.6
2010 2011	71.4	40.1	56.2	162.5
2012	65.8	41.6 42.4	55.1 53.8	102.0
2012	59.2 62.7	42.4 43.8	53.6 57.4	100.0
2013	58.9	45.6 46.3	57.4 58.6	155.5 163.9 163.8
2014	58.9	46.3 45.7	50.0 59.5	103.0
2016	36.9 44.9	48.6	60.4	164.1 154.0
2017	47.6	40.0 47.7	60.0	155.2
2018	48.3	53.1	61.9	163.3
2019	46.3 42.7	55.4 55.4	60.6	158.7
2020	31.9	52.8	51.7	136.4
2020	41.6	32.0 49.9	55.9	147.4
2022	40.4	49.9 57.2	50.5 56.5	154.1
2023	27.4	58.0	55.7	134.1
2020	21.4	30.0	55.1	141.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	3.4	11.1	8.3 8.2	22.8
1965	2.4	14.6	8.2	25.1
1970	1.1	18.3	9.5	28.9
1975 1980	0.3	18.2	9.9	28.3
1980	0.2	20.9	4.9	26.0
1985	0.1	18.4	4.0	22.6
1990	0.1	17.7	3.9	21.7
1995 1996	0.1	20.5 21.4	3.8 4.6	24.4 26.1
1996	0.1	21.4	4.0 4.2	26.1
1998	(8)	17.3	4.3 3.7	21.0
1000	(s) (s) (s) (s) (s) 0.1	17.3	0.7 A 3	23.3
1999 2000	(6)	18.9 19.9	4.3 4.3	24.2
2001	(3)	18.7	4.8	23.6
2002	0.1	19.9	4.9	24.9
2003		21.1	4.9	26.0
2004	(s)	19.7	4.3	26.0 24.0
2003 2004 2005	(s) (s) (s) (s)	19.3	4.9 4.3 4.7	24.0
2006 2007	(s)	17.0	3.0	20.0
2007	(s)	17.8	3.0 3.3	20.0 21.1
2008	<del>-</del>	18.6	3.0 2.8 2.5 2.4	21.6
2009	_	17.7	2.8	20.5
2010	<del>-</del>	16.4	2.5	18.9
2011 2012	_	17.1	2.4	19.5
2012	_	14.9	1.9	16.8
2013 2014	_	18.1	2.6	20.7
2014	_	19.1	2.6 2.8 2.3	20.5 18.9 19.5 16.8 20.7 21.9
2015 2016	_	17.1	2.3	19.4 18.6
2016	_	16.2	2.4 2.4	18.6
2017	_	16.6	2.4	18.9
2018	_	18.1	2.9 3.0	21.0 21.5
2019 2020 2021 2022 2023	_	18.6	3.0	21.5
2020	_	17.1	2.5	19.6
2021	_	16.6	2.4	19.0 20.8 18.2
2022	_	18.4	2.4 2.3	20.8
2023	_	15.9	2.3	18.2

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
4000				
1960 1965	2.3 1.8	2.4 4.6	2.3 2.3	7.0 8.7
1905	0.9	4.0 7.1	2.3	0.7 10.3
1975	0.6	7.1 9.9	2.3	10.3 12.8
1980	0.0	10.3	1.8	12.7
1985	0.6 0.5 0.5	10.3 8.5	1.8 1.6	12.7 10.5
1990	0.5	8.6	1.4	10.5
1995	0.5 0.6	10.5	1.0	12.0
1996	0.6	10.8	1.1	12.0 12.5
1997	0.4	10.4	1.1	11.9
1998	0.3	8.8	1.0	10.1
1999	(s) (s) (s) 0.5	9.7	0.9	10.7
2000	(s)	10.1	1.0	11.2
2001	(S)	9.5	1.2	10.6
2002 2003	0.5 0.1	9.5	0.9 1.0	11.0 11.2
2003	0.1	10.2 9.5	0.9	11.2 10.9
2004	0.4	9.4	0.9	10.8 10.6
2006	(2)	8.3	0.8	9.2
2007	(s) 0.4	8.9	0.7	10.0
2008	0.5	8.3 8.9 9.3	0.8	9.2 10.0 10.6
2009	0.6	8.9	0.8	10.3
2010	0.4	8.2 8.8	0.7	9.4
2011	0.4	8.8	0.8	10.0
2012	0.2 0.2	7.8	0.7	8.7
2013	0.2	9.3	0.8	10.3
2014	0.2	10.1	1.8	12.0
2015	0.1	9.2	1.4	10.7
2016	<u>(s)</u>	8.8	1.4	10.2
2017		9.0	1.5	10.5
2018 2019	_	10.0 10.2	1.4 1.6	11.4 11.8
2019	_	10.2	1.6	11.8 10.6
2020	<del>-</del>	9.0 9.0	1.0	10.6 10.7 11.7
2021		10.0	1.7	10.7 11.7
2022		9.1	1.7	10.6
2020		0.1	1.0	10.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	31.0	6.2	11.1	48.3
1965	36.0	10.0	11.2	57.2
1965 1970	36.0 29.9	13.6	11.2 9.9	57.2 53.4
1975	22.8	15.8	8.5	47.2
1980	20.3	13.0 9.9	7.1	40.4
1985	15.8	9.9	5.9	31.7
1990	11.1	15.2	5.5	31.8
1995 1996	10.2	13.2 13.5	4.7	28.1 28.7
1996	10.1	13.5	5.1 4.9	28.7 27.1
1998	8.9 9.2	13.3 11.7	4.9	27.1
1999	11.2	13.0	5.0	29.1
2000	9.8	13.0	4.6	27.4
2001	11.2 9.8 9.2	12.3	3.9	25.4
2002	6.8 6.9 7.3 7.2	13.1	3.7	23.5
2003	6.9	11.9	4.6	23.4 23.7 23.5
2004	7.3	11.6	4.8	23.7
2005	7.2	11.7	4.6	23.5
2006	7.5 7.1	10.5 8.2	4.3 4.9	22.3 20.2
2007	7.1 7.7	8.2 7.8	4.9	20.2
2008 2009	[.[ 4.4	7.8 7.2	4.3	19.9
2009	4.4 6.2	8.0	3.6 3.6	15.2 17.8
2011	6.2	8.3	3.6	18.1
2012	5.6	8.8	3.6	18.0
2013	6.3	9.4	4.2	20.0
2014	5.6 6.3 5.9	9.4 9.9	4.2	20.0 19.9
2015	5.7	9.4	4.5	19.6
2016	3.6	9.4	4.7	17.8
2017	5.0	9.4	4.6	18.9
2018	5.0	9.7	4.4	19.0
2019	4.6	9.6	4.6	18.9
2020 2021	2.9 4.2	8.6	4.4	15.9 17.6
2021	4.2 4.4	8.8 9.3	4.6 4.7	17.6 18.3
2022	4.4	9.0	4.7	18.3 17.9
2020	7.7	0.0	т.0	17.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.5	0.1	26.8	27.4
1965	0.1	0.2	32.7	33.0
1970	(s) (s)	0.6	41.3	33.0 41.9
1975	(s)	0.6 0.7	46.2	46.7 43.8 43.2 48.0 53.3 54.0 55.1 56.4 58.8 57.3 56.4 57.6 55.9 56.2 55.4 55.3 54.5 50.0 48.7 50.4 49.4 49.4 48.4 50.3 49.7 51.4 51.9 51.1
1980		0.7	43.1	43.8
1985	_	0.6	42.7	43.2
1990 1995	_	1.0 1.4	47.0 51.0	48.U 52.2
1996		1.4	51.9 52.5	53.3 54.0
1997	_	1.3	53.8	5 <del>1</del> .0
1998	_	1.3 1.2	53.8 55.2 57.6	56.4
1999	_	1.2 1.5	57.6	58.8
2000	_	1.5	55.9 55.2	57.3
2001 2002	<del>-</del>	1.2	55.2	56.4
2002	<del>-</del>	1.2 1.5 1.5	56.1 54.4	57.6
2003	_	1.5	54.4	55.9
2004 2005	_	1.5	54.7	56.2 EE 4
2005	<del>-</del>	1.5 1.4	53.9	55.4 55.2
2007	_	1.4	53.9 53.1	55.5 54.5
2008	_	1.3	48.7	50.0
2009	_	1.3 1.3	47.4	48.7
2010	<del>-</del>	1.4	49.0	50.4
2011	_	1.3	48.1	49.4
2012	_	1.1	47.3	48.4
2013	<del>-</del>	1.0	49.2	50.3
2014	_	1.1	48.6	49.7
2015	_	1.1	50.3	51.4
2016 2017	_	0.9 1.1	51.0 50.1	01.9 51.4
2017		1.1	51.6	51.1 52.8
2019	_	1.6	50.4	52.8 52.0 43.3
2020	_	1.3	41.9	43.3
2021	_	1.5	45.8	47.2
2022	<del>-</del>	1.6	45.7	47.3 47.0
2023	_	1.3	45.7	47.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Michigan (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	24.4	0.3	0.2	24.9 38.4 52.3 56.9 56.5 58.4
1965	38.0	0.2	0.2	38.4
1970	46.3	3.5	2.5	52.3
1975 1980	47.1 50.6	2.5 1.0	7.3 4.9 0.5	56.9 F6.F
1985	50.6 57.6	0.2	4.9	C.OC 6 0 A
1000	07.0 62.1	3.6	0.5	50.4 67 <i>A</i>
1005	63.1 63.8	5.4 5.4	0.7	60.0
1990 1995 1996	64.8	6.3	0.7	67.4 69.9 71.9
1997	64.7	6.5	0.7	71.8
1997 1998	64.7 69.0	6.8	0.6 1.0	71.8 76.8
1999	67.8	6.5 6.8 6.9	1.3	76.0
2000	66.2	6.6	1.0	73.7
2001	65.8	7.0	0.7	73.5
2002 2003	63.1 64.3	7.8 5.5	1.0	73.5 71.9
2003	64.3	5.5	0.8 0.7	70.7 74.0 76.5
2004	66.1	7.2 7.0	0.7	74.0
2005	68.7	7.0	0.8	76.5
2006	66.2	5.9	0.4	72.4
2007	68.8	6.7	0.5	76.0
2008	68.0	5.0	0.4	73.4
2009	65.2	4.5	0.3	70.0
2010	64.7	6.1	0.3	71.1
2011 2012	59.3 53.5	6.1 9.8	0.3 0.2	65.6
2012	53.5 56.2	6.0	0.2 0.5	63.5 62.7
2013	52.9	6.1	0.5 1.2	60.2
2015	53.1	9.0	1.0	63.0
2016	41.3	13.3	0.9	63.0 55.5
2017	42.6	11.7	1.4	55.8
2018	43.3	14.1	1.6	59.0
2019	38.0	15.4	1.1	54.6
2020	29.0	16.8	1.1	47.0
2021	37.4	14.0	1.4	52.9
2022	36.1	17.9	2.1	56.0
2023	22.9	22.9	1.6	47.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	12.4	9.8	25.7	47.9
1965	15.1	13.0	28.3	56.5
1970	17.0	18.0	34.2	69.3
1975	18.1	17.4	37.2	72.7
1980	23.1	14.9	33.2	71.2 66.6
1985	21.5	13.6	31.6	66.6
1990	30.9	15.3	32.6	78.9
1995 1996	32.1 33.7	18.8 19.7	37.9 40.4	88.8 93.7
1996	33.7 32.4	18.9	40.4 40.2	93.7 01.5
1998	33.9	17.7	40.2 40.1	91.5 91.7
1999	32.5	18.4	41.6	92.5
2000	35.6	19.3	43.1	92.5
2001	33.6	18.1	43.0	98.0 94.7
2002	34.4	19.7	42.9	97.0
2003	37.3	19.7	44.7	101 7
2004	37.3 36.2	19.1	45.3	100.6
2005	36.2	19.6	45.7	101.7 100.6 101.6
2006	35.4	18.9	44.7	98.9 100.4 99.9
2007	35.4 34.9	20.8	44.7	100.4
2008	34.3	22.9	42.7	99.9
2009	31.4	21.3	39.1	91.7
2010	30.1	22.4	39.1 39.2 38.5 38.8	91.7 91.7
2011	30.1	22.3	38.5	91.0
2012	24.6	22.6 25.2	38.8	86.0
2013	25.6 29.9	25.2	39.7 39.7	91.0 86.0 90.4 95.3
2014	29.9	25.7	39.7	95.3
2015	26.0 25.0	23.4	39.2 40.9	88.5 90.2
2016	25.0	24.3	40.9	90.2
2017	24.6	24.3	41.4	90.4
2018	25.0	26.8	41.6	93.5
2019	19.6	28.7	42.3	90.6
2020	15.6	25.9 27.4	35.5	77.0 82.5 84.2 80.8
2021	17.2	27.4	38.0	82.5
2022	17.7	28.0	38.5	84.2
2023	14.3	28.1	38.5	80.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	12	3.4	3.8	8.4
1965	1.2 0.7	3.4 4.6	3.8 4.4	8.4 9.7 11.2
1970 1975	0.6 0.1	5.4	5.2	11.2
1975	0.1	6.1	5.2 4.8 3.3 2.4	11.1
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001	0.1 0.1	5.5 5.7 5.7	3.3	8.9
1985	0.1	5.7	2.4	8.1
1990	U. I O 1	5. <i>1</i>	2.4	0.1 0.4
1995	(s)	0.9 7.7	2.5	9.4 10.7
1997	0.1 0.1 (s) (s) (s) (s) (s) (s)	6.9 7.7 7.0 6.0	2.4 2.5 3.0 2.7 2.1	9.7
1998	(s)	6.0	2.1	8.1
1999	(s)	6.4	2.1	8.5
2000	(s)	7.0	2.4	9.3
2001		7.0 6.7 7.2 7.4 7.1 6.9 6.3 7.0 7.6 7.3 6.6 6.7 5.9 7.6 8.0 6.5 6.4	2.1 2.4 2.3 2.1 2.5 2.3 2.1	8.9
2002 2003 2004 2005 2006 2007 2008	(s) (s) (s) (s) (s) (s)	7.2	2.1	9.4
2003	(S)	7.4 7.1	2.5	9.9
2004	(5)	69	2.5	9.4
2006	(S)	6.3	1.9	8.2
2007	(s)	7.0	1.9	8.9
2008		7.6	1.9 1.9 2.0	9.6
2009	_	7.3	1.7 1.7 1.7 1.7	9.0
2010	_	6.6	1.7	8.3
2011	_	6.7	1./	8.4
2012	<del>-</del>	5.9 7.6	1.4 1.7	7.3
2009 2010 2011 2012 2013 2014 2015 2016 2017		7.0 8.0	1.7	9.2
2015	_	6.5	1.9 1.6 1.6	8.1
2016	_	6.4	1.6	8.1
2017	_	6.8	1.8 2.1	8.6
2018	_	7.8	2.1	9.9
2018 2019 2020	_	8.0 7.2	2.2	8.9 8.1 8.1 9.4 10.7 9.7 8.1 8.5 9.3 8.9 9.4 9.9 9.4 9.0 8.2 8.9 9.6 9.0 8.3 8.4 7.3 9.2 9.9 9.9 9.1 10.2 9.9 9.3
2020	_	7.2	2.0	9.2
2021 2022 2023	_	7.3 8.4 7.3	2.0 2.2 2.0	9.3
2022 2023		8.4 7.2	2.2	1U.0 Q 2
2020		1.3	2.0	9.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	0.0	4.1	1.0	2.1
1960 1965 1970 1975	0.8 0.6	1.1 1.4	1.2 1.2	3.1 3.2
1970	0.5	4.1	1.4	5.9
1975	0.3 0.2 0.3 0.2	4.8	1.3	6.3
1980 1985 1990 1995 1996	0.2	3.4 4.1 4.2 4.9 5.3	1.3 0.9 1.6 1.3	4.5
1985	0.3	4.1	1.6	6.0
1990	0.2	4.2	1.3	5.7
1995	0.4 0.2 0.2 0.1	4.9	0.6	5.9
1996	0.2	5.3 5.0	0.7	0.3 6.0
1997 1998	0.2 0.1	3.0 4.4	1.0 0.9	0.2 5.4
1999	(9)	4.8	0.7	5. <del>4</del> 5.4
1999 2000	(s) (s) (s) (s) 0.2	5.1	0.7	5.8
2001 2002 2003 2004 2005	(s)	5.0	0.8	5.8
2002	0.2	5.6 5.4 5.2 5.1	0.6	6.4
2003	(s) (s) 0.1	5.4	1.0 0.8 0.8	6.4
2004	(s)	5.2	0.8	5.9
2005	0.1	5.1	0.8	6.0
2006	0.1 0.1	4.7	1.1	5.9
2006 2007 2008 2009	0.1	4.9 5. <i>1</i>	1.1 0.8 1.0	5.9 6.5
2009	0.1	5. <del>4</del> 5.3	1.0	6.3
2010	0.1	4.8	0.8	5.7
2011	0.1	5.1	0.8 0.9	6.0
2010 2011 2012 2013 2014	(s) (s)	4.7 4.9 5.4 5.3 4.8 5.1 4.5 5.7	0.8	5.3
2013	(s)	5.7	1.0	6.7
2014	(s)	6.1	1.0	7.1
2015	(s)	5.1	1.2 1.2 1.1	6.3
2016 2017	(s)	5.1	1.2	6.3
2017	(S)	5.4	1.1	0.0 7.0
2018 2019	(s) (s) (s)	6.1 6.3	1.1	7.2 7.2
2020	(9)	5.6	1.0	3.1 3.2 5.9 6.3 4.5 6.0 5.7 5.9 6.3 6.2 5.4 5.4 5.8 5.8 6.4 6.4 6.4 5.9 6.0 5.9 6.5 6.3 6.5 6.3 6.7 7.1 6.3 6.3 6.4 6.4 6.4 6.4 6.4 6.5 6.3 6.5 6.3 6.3 6.4 6.5 6.3 6.5 6.3 6.3 6.4 6.5 6.3 6.5 6.3 6.3 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
2020 2021 2022 2023	(s) (s)	5.6 5.7 6.7	1.1	6.8
2022	(s)	6.7	1.4	8.1
2023	(s) (s)	6.0	1.1	7.1
	( )			

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
4000				45.5
1960	5.2 5.7	2.6	7.7	15.5
1965 1970	5.7 3.9	4.2 5.0	8.0 8.0	17.9 17.0
1975	3.9 4.7	5.0	7.9	17.0
1980	1.7	5.2 5.2	5.8	12.7
1985	2.0	3.4	4.5	10.0
1985 1990	2.0 2.3 2.5 3.8 2.7	4.6	4.5 5.4	12.2
1995 1996	2.5	5.5	5.8	13.9 15.6
1996	3.8	5.3	6.5 6.7	15.6
1997	2.7	5.6	6.7	14.9
1998	3.5	5.4	5.9	14.9
1999 2000	3.4	5.4	5.5 5.3 6.1	14.4
2000	3.8 2.3 2.2 2.3 2.3 2.3 2.4 2.5 2.1	5.5	5.3	14.7
2001	2.3	4.8	6.1	13.2
2002	2.3	4.9	6.0	13.2 13.5 13.9 14.1
2003	2.2	5.0 5.1	0.3 6.5	13.5
2003 2004 2005	2.3 9.3	5.0	6.3 6.5 6.8	10.9
2003	2.3	5.0	0.0 6.1	14.1
2006 2007	2.5	5.4 6.0	6.4 6.6	15.0
2008	2.5	5.4 6.0 7.6	6.5	15.0 16.5
2009	2.1	6.8	6.5 5.7 6.5	14.7
2010	2.4	8.3	6.5	17.1
2011 2012	2.3	6.8 8.3 8.2 8.4	6.6	14.7 17.1 17.2
2012	2.0	8.4	6.6	17.1
2013 2014	2.3	8.5	6.9	17.6
2014	2.3 2.0 2.3 2.2 1.7 1.9 2.1	8.5 9.2 8.3 8.6	6.6 6.9 6.7 6.3 6.5	17.6 18.2 16.2
2015 2016	1.7	8.3	6.3	16.2
2016	1.9	8.6	6.5	16.9
2017	2.1	8.7	6.8	17.5
2018	1.9 1.8	8.6 8.7	/.1 7.5	17.5
2010 2019 2020 2021 2022 2023	1.8	8.7 7.5	7.1 7.5 7.3	18.0 16.1
2020	1.3	7.5 8.2	7.3 7.1	16.7
2021	1.4	0.2 Q 2	7.1	10.7
2022	1.6	8.2 8.2	6.8	16.7 16.6
2020	1.0	0.2	0.0	10.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	(s)	12.7	12.8
1965	(s)	(s) 0.1	14.6	14 7
1970	(s) (s)	0.4	18.9	19.3 22.6 23.4
1975	<u>(s)</u>	0.2 0.5	22.4	22.6
1980		0.5	22.9	23.4
1985	_	0.3	23.1	23.4
1990	_	0.6	23.1	23.8 29.5 30.5 30.0 31.5
1995	_	1.0 1.1	28.5 29.4	29.5
1996	_	1.1	29.4	30.5
1997	_	1.1 1.1	28.9 30.4	30.0
1998	_	1.1	30.4	31.5
1999 2000	<del>-</del>	1.2 1.1	32.4	33.6 35.1
2000	_	1.1 1.0	აა.ყ ვვ.1	33.1 24.1
2001 2002 2003 2004		1.0 1.2 1.1	33.9 33.1 33.4 34.0 34.9	34.1 34.7
2002		1. <u>C</u> 1.1	34.0	35.1
2004	_	i.i	34.9	36.0
2005	_	1.2	35.2	34.1 34.7 35.1 36.0 36.4
2006	_	1.1	34.9	36.0
2007	_	1.1	35.0	36.0
2008	_	1.0	33.0	33.9 31.3 30.9
2009	_	0.7	30.6	31.3
2010	_	0.8	30.1	30.9
2011	_	0.8	29.3	30.1
2012	_	0.7	29.9	30.6
2013	<del>-</del>	0.6	30.2	30.8
2014	_	0.7	30.0	30.8
2015	_	0.6	30.1	30.6
2016	_	0.6	31.6	30.6 32.3 32.4
2017	_	0.7	31.7	32.4
2018	_	0.8	31.4	32.2
2019 2020	_	0.7 0.6	31.5 25.2	32.2 25.8
2020	_	0.6	25.2 27.7	20.0 00 F
2021	_	1.0	27.7 27.9	28.5 28.9
2022		0.8	28.6	20.9
2020	_	0.0	20.0	23.4

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Minnesota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	5.2	2.7	0.2	8.0
1965	8.1	2.7	0.2	11.1
1970	11.9	3.1	0.7	15.8
1975	13.0	1.2	0.7 0.2	14.9
1980	21.1	0.4	0.2	21.7
1985	19.1	0.1	(s) 0.5	19.2
1990 1995	28.4 29.1	0.3 0.4	0.5 0.5	29.2 30.1
1996	29.6	0.4	0.5 0.7	30.6
1997	29.6	0.3	0.9	30.8
1998	30.3	0.7	0.7	31.7
1999	29.0	0.6	0.9	30.5
2000	31.8	0.5	0.8	33.1
2001	31.3	0.6	0.7	32.6
2002	31.9 35.1	0.7	0.7	33.3 36.9 35.3 35.9
2003 2004	35.1 33.8	0.9 0.7	0.9 0.8	36.9
2004	33.8	1.4	0.8	ან.ა 35.0
2006	32.9	1.3	0.5	34.8
2007	32.4	1.9	0.4	34.6
2008	31.7	1.3	0.2	34.6 33.3 30.5 29.6 29.3
2009	29.2	1.3	0.1	30.5
2010	27.7	1.9	(s)	29.6
2011	27.7	1.5	(s)	29.3
2012	22.6 23.3	3.1	(s)	25.7
2013 2014	23.3 27.7	2.7 1.7	(s) (s)	26.0
2014	21.1 24.3	3.0	(5)	29.4 27.3
2016	24.3 23.1	3.6	(s) (s)	26.7
2017	22.5	3.6 2.7	(s)	29.4 27.3 26.7 25.3
2018	22.5 23.1	3.6	(s)	26.7
2019 2020	17.8 14.3	5.0 4.9	(s)	22.9
2020	14.3	4.9	(s) (s) (s) (s) 0.1	26.7 22.9 19.2 21.2
2021	15.7	5.4	0.1	21.2
2022	16.1	3.7	(s) 0.1	19.9
2023	12.6	5.7	0.1	18.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	9.8	9.5	19.4
1965	0.1	13.1	11.6	24.8
1970	1.3	19.3	18.0	24.8 38.6
1975	3.2	12.3	25.2	40.7
1980	7.1	14.2	26.1	47.5
1985	10.4	12.2	21.1	43.6
1990	9.9	13.7	24.7	48.3
1995	9.9 12.1	15.5	26.1	51.4 54.2
1996 1997	12.1	14.6 13.8	27.5 29.4	54.2 FF 0
1998	12.0	13.2	31.5	55.8 56.7
1999	13.1	16.6	31.7	61 4
2000	14.0	16.3	31.0	61.4 61.3
2001	18.9	17.9	33.0	69.7
2002	14.7	18.6	29.2	62.5
2003	17.1	14.5	32.5	64.0
2004	17.7	15.3	32.8	64.0 65.7 64.0
2005	16.9	16.4	30.8	64.0
2006	18.1	16.6	31.4	66.2 68.3 64.8
2007 2008	17.7 16.9	19.7 19.1	30.9 28.7	00.3 64.0
2009	13.5	19.1	27.6	04.0 60.6
2010	10.5	23.4	26.1	63.7
2011	10.3	23.1	25.1	60.6 63.7 58.5
2012	7.9	26.4	25.8	60.1
2013	9.3	22.5	25.1	57.0
2014	14.2 10.3 7.9 9.3 11.1	23.1	25.4	60.1 57.0 59.7
2015 2016	6.8 5.8 5.1	28.1	26.1 26.7	61.1 62.0
2016	5.8	29.4	26.7	62.0
2017	5.1	28.5	26.5	60.2
2018 2019	5.7 4.9 5.2	31.0 30.6	26.2	63.0 62.3
2020	4.9 5.0	30.6	26.9 25.7	02.3 62.0
2021	5.2 6.2	30.2	26.4	62.9 62.8
2022	6.3	32.4	26.3	65.0
2023	6.2 6.3 4.8	33.1	26.0	62.9 62.8 65.0 63.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	_	1.3	0.5	19
1965 1970 1975	_	1.3 1.3 2.0 1.6 1.6 1.4 1.5 1.6 1.5 1.6	0.5 0.6 1.2 1.0 0.5 0.4 0.5 0.4 0.5 0.5 0.5 0.9 0.9 0.9	2.0
1970	_	2.0	1.2	3.2
1975	<del>-</del>	1.6	1.0	2.6
1980	(s) (s) (s)	1.6	0.5	2.1
1985	(S)	1.4	0.4	1.8
1990	(5) —	1. <del>4</del> 1.5	0.5	1.0 1.0
1996	_	1.5	0.5	22
1997	(s)	1.5	0.5	2.0
1998	<del>( /</del>	1.4	0.5	1.9
1999	_	1.4	0.5	1.9
2000	<del>-</del>	1.5	0.9	2.4
2001	_	1.5	0.9	2.4
1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	_	1.4 1.5 1.5 1.5 1.5 1.3 1.3 1.2 1.2 1.2 1.3 1.3	U.b	2.1
2003		1.3	0.5	1.8
2005	_	1.3	0.4	1.8
2006	_	1.2	0.4 0.4 0.5	1.6
2007	_	1.2	0.4	1.6
2008	_	1.3	0.5	1.8
2009	<del>-</del>	1.3	0.5	1.8
2010	_	1.5	0.5	2.0
2009 2010 2011 2012	_	1.3	0.5 0.5 0.4 0.3	1./ 1./
2012	<u> </u>	1.1	0.3	17
2013 2014 2015 2016	_	1.4 1.5 1.3 1.1	0.4 0.4 0.3 0.3	2.0
2015	_	1.3	0.3	1.6
2016	_	1.1	0.3	1.4
2017	_	1.0 1.3	0.3	1.3
2017 2018 2019	_	1.3	0.3 0.3 0.4 0.3	1.7
2019	_	1.3 1.1	0.4	1.6
2020	_	1.1	0.3 0.3	1.4
2022		1.2	0.3	1.5
2020 2021 2022 2023	_	1.2 1.2 1.2 1.1	0.3 0.3 0.3	1.9 2.0 3.2 2.6 2.1 1.8 1.8 1.9 2.2 2.0 1.9 1.9 2.4 2.4 2.1 2.0 1.8 1.8 1.8 1.8 1.6 1.6 1.6 1.6 1.7 1.7 1.4 1.7 2.0 1.7 1.4 1.7 2.0 1.6 1.4 1.3 1.7 1.6 1.4 1.3 1.7 1.6 1.4 1.5 1.5 1.5

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960		0.0	0.2	11
1965	_	0.8 0.7	0.2 0.3 0.5	1.1 0.9
1965 1970	_	1.3	0.5	1.7
1975	_	1.3 1.3	0.9	1.1 0.9 1.7 2.2 3.0 1.4 1.3 1.4 1.6 1.5 1.5 1.5
1980	(s) (s) (s)	1.1	1.8 0.5	3.0
1985	(s)	0.9	0.5	1.4
1990	(s)	1.0	0.4	1.3
1995 1996	<del>-</del>	1.1	0.3	1.4
1996	_	1.2 1.2 1.2 1.2	0.4 0.3 0.3	1.6
1997	(s)	1.2	0.3	1.5
1998		1.2	0.3	1.5
1999 2000	_	1.1 1.2	0.3	1.4 1.6
2000	_	1.1 1.2 1.2	0.4 0.5 0.3	1.0
2001 2002	_	1.2	0.3	1.0
2002	_	1.2 1.3 1.2	0.4	1.7
2003 2004	_	1.2	0.3	
2005	_	1.1	0.3 0.3	1.5 1.4 1.3 1.8 1.5 1.5 1.5
2006	<del>-</del>	1.1	0.2 0.6	1.3
2007	<del>-</del>	1.1	0.6	1.8
2008	_	1.1	0.4	1.5
2009	_	1.0	0.4	1.5
2010	_	1.1	0.4	1.5
2011 2012	_	1.1 1.0	0.4	1.5
2012	_	1.0	0.4	1.4
2013 2014	_	1.0 1.2	0.4 0.4	1.4 1.7
2014	_	1.2	0.4	1./ 1.6
2015 2016		1.0	0.6	1.0 1.5
2017	_	1.0	0.6	1.6 1.5 1.5
2018	_	1.1	0.5	1.7
2019	_	i.i	0.5	1.6
2020	_	1.0	0.6	1.6
2021	_	1.0	0.5	1.6
2022	_	1.0 1.1	0.5 0.6	1.6 1.7
2023	_	1.1	0.5	1.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	4.1	1 9	6.0
1965	0.1	5.6	1.9 2.5 5.1 5.2	6.0 8.1
1965 1970	0.1	7.4 5.6	5.1	12.7
1975	0.1	5.6	5.2	10.8 9.9 10.0 11.5 9.6 9.9 10.0 9.1
1980	0.1	4.2 5.5 5.7	5.6 3.9 5.2 4.4 5.0 4.8 4.2 4.4 3.9 4.8 4.7 5.0 5.2	9.9
1985 1990	U.6	5.5 5.7	3.9	10.0
1990	0.0 0.7	5.7 4.6	5.2 4.4	11.5 0.6
1996	0.7	4.0	5.0	9.0
1997	0.6 0.6 0.7 0.5 0.5 0.5	4.6 4.5 4.6	4.8	10.0
1998	0.5	4.4	4.2	9.1
1999	0.4	6.6	4.4	11.4
2000	0.3 0.4	6.4	3.9	10.7
2001 2002 2003	0.4	6.4 5.4 5.6	4.8	10.7 10.6 10.6
2002	0.3 0.3 0.4	5.0 5.1	4.7 5.0	10.6
2003	0.3	5.1 5.7	5.0	10.4 11.3
2004 2005 2006 2007 2008	0.3	5.3 5.5 5.9 6.1	4.9	10.4
2006	0.3 0.3 0.3	5.5	4.9 4.7	10.8
2007	0.3	5.9	4.7	10.9
2008	0.3	6.1	4.1	10.5
2009	0.2	5.8 6.7	3.6	9.7
2009 2010 2011 2012	0.2 0.3 0.2	6.7	4.1 4.0	10.8 10.9 10.5 9.7 11.0 10.4
2011	0.2	6.1	4.0	10.4
2012	0.2	62	4.4	10.0
2013 2014 2015 2016	0.3 0.2	6.2 6.4	4.4 4.2 3.8	10.9 10.8
2015	0.2	6.5 6.2	3.8	10.6 10.2
2016	_	6.2	4.0	10.2
2017	_	6.9 7.1	4.2	11.1 11.3
2017 2018 2019	0.1	7.1	4.1	11.3
2019	0.1	7.0 6.9	4.3 4.3	11.3 11.4
2020	0.2 0.2	7.0	4.3	11.4
2021 2022	0.2 0.2	7.0	4.0	11.6
2023	0.2	6.7	4.0	10.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
- I Cai	Coai	ivaturar gas	renoieum	Total
1960	(s)	1.7	6.8	8.6
1965	(s)	2.5	8.2	10.6
1970	(s) (s)	3.2	11.0	14.2
1975	<u>(s)</u>	2.1	13.7	15.8
1980		2.2	15.8	18.0
1985	_	1.4	16.1	17.5
1990	_	2.1	18.1	20.2
1995	_	2.3	21.0	23.2
1996 1997	_	2.7 2.5	20.8 21.8	23.5
1997		2.5 2.0	21.0 22.5	23.5 24.3 24.5 25.9 25.3 24.5 25.0 26.8 25.8 25.2
1999	_	2.0 1.7	22.5 24.2	25.9
2000	_	1.7	23.6	25.3
2001	_	1.6	22.8	24.5
2001 2002	_	1.5	23.5	25.0
2003 2004	_	1.4	25.3	26.8
2004	_	1.2 1.2	24.7	25.8
2005	_	1.2	24.1	25.2
2006	_	1.2 1.5	25.5	26.8
2007	_	1.5	24.9	26.8 26.4 25.2 24.6 22.6 21.8 23.3 21.2 21.5 22.5 22.9
2008 2009	_	1.6	23.6 23.0	25.2
2009	_	1.0 1.5	23.0	24.0 22.6
2010		1.6 1.5 1.6	21.1	22.0
2012	_	2.6	20.2 20.7	23.3
2013	_	1.3	20.0	21.2
2014	_	1.3 1.1	20.0 20.4 21.3	21.5
2015	_	1.2	21.3	22.5
2016	_	1.1	21.8	22.9
2017	_	1.1	21.4	22.5
2018	_	1.4	21.2	22.6 23.3 22.2 23.2
2019 2020	_	1.5 1.6	21.7	23.3
2020	_	1.6	20.5	22.2
2021	_	1.8	21.4	23.2
2022 2023	_	2.1	21.4 21.2	23.4 23.5
2023	_	2.3	21.2	23.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Mississippi (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s) (s) 1.1	1.9 3.1	(s) (s) 0.2	1.9 3.1
1965 1970	(S)	5.4 5.4	(S)	3.1 6.9
1975	31	1.7	4.5	6.8 9.3 14.6 12.9
1980	3.1 7.0	5.1	2.4	14.6
1985	9.8 9.3 9.2 11.6	3.0	0.1	12.9
1990	9.3	3.6	0.6	13.4 15.3 17.0 17.9
1995	9.2	6.1	(s) 0.8	15.3
1996	11.6	4.6	0.8	17.0
1997 1998	12.0	4.0	1.9	1/.9
1996	11.5 12.7	4.2 5.8	4.0 2.3	19.6 20.8
2000	13.7	5.0 5.5	2.3	20.0
2001	18.5	5.5 8.2	4.0	21.3 30.7
2002	14.4	8.9	(s)	23.3 23.3 25.3 25.2
2002 2003	16.8	8.9 5.3 5.9 7.4	(s) 1.2	23.3
2004	17.3	5.9	2.1 1.2	25.3
2005	16.6	7.4	1.2	25.2
2006 2007	17.8 17.3	7.7	0.3 0.3	25.8
2007 2008	17.3	10.0	0.3	27.7
2008	16.6 13.3	9.1 9.9	0.1	25.8
2010	13.9	9.9 12.6	(s) 0.1	23.2 26.6
2010	10.0	13.0	(s)	23.1
2011 2012	7.6	15.6	(s)	25.8 27.7 25.8 23.2 26.6 23.1 23.2 21.7 23.8 24.7 25.9 23.7
2013	7.6 9.1	12.6	(s)	21.7
2014 2015	10.9 6.6 5.8 5.1	12.9 18.1	(s)	23.8
2015	6.6	18.1	(s)	24.7
2016	5.8	20.1	(s)	25.9
2017	5.1	18.6	(s)	23.7
2017 2018 2019 2020	5.7 4.8	20.0	(s)	25.7 24.5
2019	4.8 5.0	19.7 21.3	(s) (s)	24.5 26.3
2021	6.0	19.2	(s)	25.7 24.5 26.3 25.2 26.8 26.5
2022	6.0 6.1	19.2 20.6	(s)	26.8
2023	4.5	22.0	(s)	26.5
			( )	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		
1960	16.2	14.2	26.5	56.9
1965	18.0	18.3	30.3	66.6
1970	26.5	22.7	37.3	86.6
1975	40.9	19.6	40.4	100.8
1980	50.5	17.0	36.9	104.3
1985	50.3	13.9	36.4	100.6
1990	51.3	12.7	38.9	102.9
1995	56.4	14.8	44.6	115.8 122.3
1996	60.0	15.6	46.7	122.3
1997	63.7	15.0	47.1	125.8
1998	66.1	13.7	51.1	130.9
1999	65.4	14.1	51.8	131.4
2000	65.6	15.2	45.7	126.5
2001	68.2	15.2	49.0	132.4
2002	69.2	14.7	48.9	132.8
2003	76.0	14.0	50.3	140.3
2004	77.2	14.2	50.0	141.3
2005	79.9	14.4	49.8	144.1
2006 2007	79.1 76.6	13.6	50.2	142.9
2007	76.6 75.7	14.6 15.7	50.1 46.8	141.3 138.2
2008	70.7	10.7	40.8	138.2
2009 2010	73.1 76.6	14.1 14.9	44.7	131.9
2011	76.6 78.9	14.9	45.4 43.2	136.8 136.6
2012	76.9 73.4	13.7	43.2	100.0
2012	73.4 77.0	14.8	41.8	128.9
2014	77.0	15.9	42.8	133.6 133.2
2014	66.6	14.2	43.6	133.2
2016	61.1	14.2	43.0	118.5
2017	67.9	13.9	42.3	124.0
2018	63.9	17.3	43.1	124.4
2019	55.9	17.3	43.5	116.6
2020	52.8	15.9	39.6	108.3
2021	52.0 59.1	15.4	42.1	116.5
2022	54.3	16.9	41.8	116.5 113.1
2023	42.4	16.6	42.5	101.5
	TE.T	10.0	TE.0	101.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		-		
1960	1.5	6.1	1.7	9.4 9.3 11.1
1965	0.4	7.0	1.9	9.3
1970	0.1	8.4	2.6	11.1
1975	0.1	8.3	2.8 1.7	11.2
1980 1985	(s) 0.1	7.7	1.7	9.5
1985	0.1	6.9 6.2 6.7	1.2	8.2
1990	0.1	6.2	1.1	7.5
1995	0.1	6.7	1.5 1.9 1.8 1.3	8.3
1996 1997	0.1	7.3	1.9	9.3
1997	0.1	6.8 5.9	1.0 1.2	0. <i>l</i>
1000	(s) 0.1	5.9 6.0	1.3	7.3 7.0
1999 2000	(e)	6.0	1.7	7.8 7.8
2001	(s) 0.1	6.0 6.2 6.2	22	7.8 8.5
2002 2003 2004 2005	(s)	61	1.5 2.2 1.7	7.9
2003	(s) 0.1	6.1	1.6	7.8
2004	(s)	5.9	1.3	7.3
2005	(s) (s)	6.1 5.9 5.8	1.6 1.3 1.2	7.0
2006 2007	(s) (s)	5.2 5.5 6.1 5.7 5.7	1.1	6.3
2007	(s)	5.5	1.1 1.2 1.5 1.3 1.2 1.1	6.7
2008	<del>-</del>	6.1	1.5	7.6
2009	<del>-</del> -	5.7	1.3	6.9
2010	<del>-</del>	5.7	1.2	6.9
2009 2010 2011 2012	_	5.5	1.1	6.6
2012	_	4.4	0.8	5.3
2013	_	5.5 4.4 5.7 6.2	1.0 1.1	0./ 7.0
2013 2014 2015 2016	_	5.1	1.1	7.3
2015	_	5.1 4.7	0.9 0.9 0.8	0.U 5.6
2010		4.7	0.9	5.0 5.4
2017 2018 2019 2020 2021 2022 2023	_	6.2	0.6 1 1	11.2 9.5 8.2 7.5 8.3 9.3 8.7 7.3 7.8 7.8 8.5 7.9 7.8 7.3 7.0 6.3 6.7 7.6 6.9 6.9 6.6 5.3 6.7 7.3 6.0 5.6 5.4 7.2 7.2 7.2 6.4 6.3 6.9 6.1
2019	<u> </u>	6.0	1.1 1.2	7.2
2020	_	5.4	1.2	6.4
2021	_	5.4 5.5	1.0 0.9 1.3 1.2	6.3
2022	_	5.6	1.3	6.9
2023	<del>-</del>	5.0	1.2	6.1

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.1	1.8 2.2 4.7 4.8	2.1 1.8	4.9 4.3 6.8 6.6 5.4 4.5 4.5 4.8 5.4 5.2 4.5 4.8 4.6 5.2 4.6 4.5 4.6 4.5
1965 1970 1975	0.3	2.2	1.8	4.3
1970	0.1 0.2	4. <i>1</i>	2.0 1.6	0.0 6.6
1980	0.2	4.0 // 1	1.0	0.0 5.4
1985	0.1	4.1 3.2 3.2	1.0	J.4 4.5
1990	0.5	3.2	0.8	4.5 4.5
1995	0.4	3.5	0.9	4.8
1996	0.4	3.9	1.1	5.4
1997	0.4 0.5 0.3	3.9 3.7	1.0	5.2
1998	0.3	3.3	0.9	4.5
1999	0.4	3.4	1.0	4.8
2000	0.3 0.4	3.4	1.0	4.6
2001	0.4	3.5	1.3	5.2
2002	0.4	3.3 3.3	0.9	4.6
2003	0.4	3.3	0.9	4.5
2004	0.4	3.3	0.8	4.6
2005	0.4	3.3	0.6	4.3
2006	0.4	3.1 3.2	0.5	4.0
2007	0.4	3.2	0.4	4.0
2008	0.4	3.5	0.7	4.6
2009	0.3	3.3	0.6 0.5 0.4	4.2
2010 2011	0.3 0.3	ა.ა ვე	0.5	4.1 4.0
2011	0.3 0.2	3.5 3.3 3.3 3.3 2.9	0.4	4.0 3.6
2012 2013	0.2	3.5	0.9	43
2014	0.3 0.3 0.3 0.2 0.2 0.2	3.5 3.9 3.3 3.1	0.6 0.6	4.8
2015	0.1	3.3	1.1	4.5
2016	0.1	3.1	1.0	4.2
2017	0.1	3.1	1.0	4.1
2018	(s)	3.8	1.1	4.9
2019	(s) (s)	3.1 3.8 3.7	1.0	4.7
2020 2021 2022	(s)	3.3	1.0	4.0 4.6 4.2 4.1 4.0 3.6 4.3 4.8 4.5 4.2 4.1 4.9 4.7 4.3 4.6 4.6 4.6
2021	(s)	3.4	1.2	4.6
2022	(s) (s) (s)	3.6	1.0	4.6
2023	(s)	3.3	0.9	4.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960 1965	5.9 5.7	4.2 6.0	5.2 5.5 5.7	15.3 17.2 15.5
1965	5.7 4.1	5.7	5.5 5.7	17.2 15.5
1975	4.3	4.7	5.7 5.9	1/1 8
1980	3.4	4.1	4.9	12.4
1980 1985	3.4 3.9 2.9	4.1 3.4 2.8	5.9 4.9 3.7	12.4 11.0 9.1 9.5 9.8
1990 1995	2.9	2.8	3.4 3.6 3.7	9.1
1995	2.4 2.4	3.6	3.6	9.5
1996	2.4	3.7	3.7	9.8
1997	3.0 2.6	3.7 3.3	3.4 4.1	10.1 10.0
1998	2.6	3.3	4.1	10.0
1999 2000	2.6	3.3	5.1	11.0 9.4
2000	2.1	3.6	3.8 5.2	9.4 11.0
2001	2.2 2.2 2.2 2.3 2.3	3.5 3.5 3.2 3.4	3.8 5.3 5.4	11.0
2002 2003 2004	2.2	3.2	5.4 5.6	11.0
2004	2.2	3.4	6.9	12.6
2005	2.3	3.5	5.6 6.9 6.4	10.9 12.6 12.2
2006 2007	2.3 2.3 2.1	3.5 3.6 3.5	6.7 6.3 5.5	12.5
2007	2.3	3.6	6.3	12.2
2008	2.1	3.5	5.5	11.1
2009	1.7	3.3	4.3	9.3
2010	1.7	3.4	4.4 3.5	9.5
2011	1.2	3.3	3.5	8.0
2012	2.2	3.3	3.5	9.0
2013 2014	1.2 2.2 2.3 2.3	3.4 3.3 3.3 3.3 3.5	3.2 3.5	0.0
2014	2.0	3.4	0.0 4.2	9.3
2016	1.5	3.3	4.2 3.1	9.0 8.0
2017	1.9	3.2	2.7	7.9
2018	1.8	3.5	3.2	8.5
2019	1.8	3.4	2.7 3.2 3.3 3.2 3.2 2.8 3.3	12.5 12.2 11.1 9.3 9.5 8.0 9.0 8.8 9.3 9.6 8.0 7.9 8.5 8.4 8.3 8.6 8.0 8.0
2020 2021 2022 2023	1.7	3.3	3.2	8.3
2021	2.0	3.3	3.2	8.6
2022	2.0 1.8 1.6	3.4	2.8	8.0
2023	1.6	3.4	3.3	8.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	0.1	0.4	17.3	17.9
1965	(s) (s)	0.5	21.0	17.9 21.5 27.6
1970	(s)	0.7	26.9	27.6
1975	<u>(s)</u>	0.4	29.7	30.1 29.1 30.6
1980		0.3	28.8	29.1
1985 1990	_	0.2	30.3	30.6
1990	_	0.3 0.4	33.5 37.8	33.8 38.2
1996		0.4	37.6	30.Z 40.3
1997		0.4	40.8	40.3 41.2
1998	_	0.3	44.5	44.8
1999	_	0.4	43.8	44.8 44.2
2000	<del>_</del>	0.4	39.2 39.4	39.6
2001	_	0.1	39.4	39.5
2002	_	0.1	40.3	40.5
2003	_	0.2	42.1	42.3
2004	<del>-</del>	0.2 0.1	40.7	40.9
2005	_	0.1	41.4	39.6 39.5 40.5 42.3 40.9 41.6 42.0 42.3 39.5
2006	_	0.1	41.9	42.0
2007	_	0.2 0.4	42.1	42.3
2008 2009		0.4	39.1 38.5	39.5 39.7
2010		0.2	39.2	30.7 30.5
2011	_	0.4	38.1	38.5
2012	_	0.3	36.9	37.2
2013	_	0.3	37.0	37.3
2014	_	0.3 0.3	37 4	37.8
2015	_	0.3	37.3 37.9 37.7	37.7
2016	_	0.4	37.9	38.3
2017	_	0.4	37.7	38.1
2018	_	0.5	37.6 37.9 34.3	38.7 39.5 38.5 37.2 37.3 37.8 37.7 38.3 38.1 38.2 38.4 34.5 36.8 36.8 36.8
2019 2020	_	0.5	37.9	38.4
2020	_	0.3	34.3	34.5
2021	_	0.2	36.6	36.8
2022 2023	_	0.3 0.2	36.5 37.0	30.8
2023	_	0.2	37.0	31.2

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Missouri (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
4000	7.7	47	0.4	0.5
1960 1965	7.7 11.7	1.7 2.6	0.1 0.1	9.5 14.3 25.7
1905	22.2	3.4	0.1	14.3 25.7
1975	36.3	1.4	0.1	38.1
1980	46.9	0.8	0.5 0.3	48.1
1985	46.1	0.1	0.1	38.1 48.1 46.3
1990 1995 1996	47.8 53.5	0.2 0.7	0.1	48.1
1995	53.5	0.7	0.8	55.0 57.5
1996	57.1	0.3	0.1	57.5
1997 1998	60.1 63.1	0.4 0.9 1.0	0.1 0.3	60.6 64.3 63.6
1998	63.1	0.9	0.3	64.3
2000	63.2	1.0	0.3 0.3 0.7	03.0 65.1
2000	03.2 65.6	1.9	0.3 0.7	65.1 68.2
2001	65.6 66.7	1.6	0.6	68.8
2002 2003	73.4	1.2	0.0	74.8
2004	74.4	1.3	0.2	76.0
2005	77.1	1.2 1.3 1.7	0.2 0.2 0.2	79.0
2006	76.3	1.8	0.1	78.2
2007	73.9	2.2	0.1	76.2
2008	73.1	2.3	0.1	75.5
2009	71.1	1.6	0.1	72.8
2010 2011	74.6 77.4	2.2 2.0	0.1 0.1	76.8 79.5
2012	71.4	2.8	0.1	79.5
2013	74.5	2.0	0.1	76.6 76.6
2014	72.0	1.9	0.1	74.0
2015	64.4	2.1	0.1	66.6
2016	59.5	2.9	0.1	62.4
2017	65.9	2.6	0.1	68.5
2018	62.1	3.4	0.1	65.6
2019	54.1	3.7	0.1	57.9 54.8
2020	51.0	3.7	0.1	54.8
2021 2022	57.0 52.5	3.0 4.1	0.2 0.2	60.2 56.8
2022	52.5 40.8	4.1	0.2	56.8 45.6
2023	40.0	4.0	0.1	45.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.4	3.0	7.3 7.5	10.7 11.7
1965	0.5	3.7	7.5	11./
1970 1975	1.1	4.7	8.5	14.3
1975	1.8 5.7 9.4	4.2	10.8 11.3	16.8
1985	5. <i>l</i>	3.2 2.5 2.3	10.2	20.2 22.1 27.9
1990	9.4 16.1	2.0 0.0	9.5	22.1 27.0
1995	16.7	2.3 3.1	10.9	21.9
1996	13.2	3.3	11.4	30.7 27.9
1997	15.2 15. <i>1</i>	3.2	11.2	27.9
1998	15.4 17.7	3.2 3.2	11.1	29.9 32.0
1999	17.8	3.3	11.7	32.8
2000	16.8	3.6	11.3	31.7
2001	17.6	3.5	11.0	32.0
2002	15.9	3.7	11.3	30.9
2003	18.1	3.7	11.4	33.1
2004	18.7	3.6	12.5	34.8
2005	19.1	3.7	13.0	33.1 34.8 35.8
2006	18.5 19.3	3.9 3.9 4.1	13.5	36.0 38.0 37.2
2007	19.3	3.9	14.7	38.0
2008	19.4	4.1	13.7	37.2
2009	16.5	4.0	12.6	33.1
2010	19.4	3.8	11.7	35.0 32.1
2011	15.8	4.2	12.0	32.1
2012	15.0	4.0	11.8	30.8
2013	15.9	4.3	11.9	32.1
2014	16.7	4.2	11.6	32.6
2015	17.1	4.0	11.4	32.5
2016	15.5	4.1	11.6	31.1
2017	14.9	4.3	12.0	31.2
2018	14.6	4.7	11.9	31.2
2019	15.2	4.8	12.2	32.3
2020	9.5 11.8	4.6 4.5	12.2	26.2
2021	11.8	4.5	12.1	28.4 29.6
2022	12.6	4.9	12.1	29.6
2023	12.5	5.1	11.9	29.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		. Tatala gao		10.00
1060	(s)	0.9	0.2	1.2
1960 1965 1970 1975	(s)	1.1	0.2 0.3 0.3	1.2 1.4 1.7 1.8
1970	(s)	1.4	0.3	1.7
1975	(s)	1.3	0.5	1.8
1980 1985 1990	(s)	1.0	0.4	1.4
1985	(s) (s)	1.0	0.3	1.3
1990	(s)	0.9	0.3	1.3
1995	(s)	1.1	0.2	1.3
1996 1997	(s)	1.2	0.3	1.5
1997 1998	(s)	1.1 1.0	0.3	1.5
1990	(s) (s)	1.0	0.2	1.Z 1.0
1999 2000	(5)	1.1	0.2 0.3	1.2 1 <i>A</i>
2000	(3)	1.1	0.3	1.4
2001 2002 2003 2004 2005	(s) (s) (s) (s) (s) (s) (s)	1.2	0.3	1.5
2003	(s)	1.1	0.4	1.5
2004	(s)	1.1	0.5	1.6
2005	(s)	1.1	0.5	1.6
2006 2007 2008	(s)	1.0 1.1	0.5	1.6
2007	(s)	1.1	0.6	1.6
2008		1.2	0.6	1.8
2009	_	1.2	0.6	1.8
2010	_	1.1	0.5	1.6
2011	_	1.2 1.0	0.5	1./
2012	_	1.0	0.4	1.5 1.6
2013		1.1 1.2	0.4 0.5	1.0
2015	_	1.0	0.5	1.0
2016	_	1.0	0.4	1.5
2017	_	1.0 1.2	0.5	1.7
2018	_	1.2	0.5	1.7
2019	_	1.3	0.6	2.0
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	1.2 1.3 1.2 1.2	0.4 0.3 0.3 0.2 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.4 0.5 0.5 0.6 0.6 0.6 0.6 0.5 0.5 0.5 0.5 0.4 0.4 0.5 0.5 0.5 0.5 0.7	1.4 1.3 1.3 1.3 1.5 1.5 1.5 1.2 1.2 1.4 1.4 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.7 1.5 1.6 1.7 1.7 1.7 2.0 1.8 1.7 2.0 1.8
2021	_	1.2	0.5	1.7
2022	_	1.3 1.2	0.7	2.0
2023	_	1.2	0.5	1.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year         Coal         Natural gas a         Petroleum b         Total           1980         (s)         0.7         0.4         1.1           1985         (s)         0.7         0.3         1.1           1970         (s)         1.0         0.3         1.3           1975         (s)         0.0         0.4         1.4           1980         (s)         0.8         0.2         1.0           1985         (s)         0.8         0.5         1.2           1990         0.1         0.7         0.1         0.9           1995         (s)         0.8         0.5         1.2           1997         0.1         0.7         0.1         0.8           1997         0.1         0.8         0.1         1.0           1998         (s)         0.7         0.1         0.8           1999         (s)         0.7         0.1         0.8           1999         (s)         0.7         0.1         0.7           2000         (s)         0.7         0.1         0.7           2001         (s)         0.7         0.1         0.9           20					
1965 (s) 0.7 0.3 1.1 1970 (s) 1.0 0.3 1.3 1975 (s) 1.0 0.3 1.1 1980 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.5 1.2 1990 0.1 0.7 0.1 0.9 1996 (s) 0.8 0.1 0.1 0.9 1996 (s) 0.8 0.1 0.1 0.8 1997 0.1 0.1 0.8 1998 (s) 0.8 0.1 1.0 1998 (s) 0.7 0.1 0.8 1999 (s) 0.7 0.1 0.8 2000 (s) 0.7 0.1 0.8 2000 (s) 0.7 0.1 0.9 2002 (s) 0.7 0.1 0.9 2003 (s) 0.8 0.1 0.9 2004 0.2 0.7 0.1 0.9 2005 0.2 0.7 0.1 0.9 2006 0.2 0.7 0.2 1.1 2007 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 0.2 1.1 2008 (s) 0.8 0.2 0.7 2009 (s) 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 0.2 0.1 2009 (s) 0.8 0.2 0.7 200 0.9 2009 (s) 0.8 0.2 0.7 200 0.9 2009 (s) 0.8 0.7 0.2 0.9 2009 (s) 0.8 0.8 0.9 2009 (s) 0.8 0.9 2009 (s) 0.9	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1965 (s) 0.7 0.3 1.1 1970 (s) 1.0 0.3 1.3 1975 (s) 1.0 0.3 1.1 1980 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.5 1.2 1990 0.1 0.7 0.1 0.9 1996 (s) 0.8 0.1 0.1 0.9 1996 (s) 0.8 0.1 0.1 0.8 1997 0.1 0.1 0.8 1998 (s) 0.8 0.1 1.0 1998 (s) 0.7 0.1 0.8 1999 (s) 0.7 0.1 0.8 2000 (s) 0.7 0.1 0.8 2000 (s) 0.7 0.1 0.9 2002 (s) 0.7 0.1 0.9 2003 (s) 0.8 0.1 0.9 2004 0.2 0.7 0.1 0.9 2005 0.2 0.7 0.1 0.9 2006 0.2 0.7 0.2 1.1 2007 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 0.2 1.1 2008 (s) 0.8 0.2 0.7 2009 (s) 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 0.2 0.1 2009 (s) 0.8 0.2 0.7 200 0.9 2009 (s) 0.8 0.2 0.7 200 0.9 2009 (s) 0.8 0.7 0.2 0.9 2009 (s) 0.8 0.8 0.9 2009 (s) 0.8 0.9 2009 (s) 0.9					
1970   (s)	1960	(s)	0.7	0.4	1.1
1980 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.5 0.5 1996 (s) 0.1 0.7 0.1 0.9 1996 (s) 0.7 0.1 0.1 0.8 1997 0.1 0.1 0.8 0.1 1.0 1998 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 2000 (s) 0.7 0.1 0.1 0.9 2001 (s) 0.7 0.1 0.9 2002 (s) 0.8 0.7 0.1 0.9 2002 (s) 0.8 0.7 0.1 0.9 2004 0.2 0.7 0.1 0.9 2005 0.8 0.1 0.9 2006 0.8 0.2 1.0 2006 0.2 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 (s) 0.8 0.2 0.7 2008 (s) 0.8 0.2 0.7 2009 (s) 0.9 0.9 2009 (s) 0.9 0.9 0.9 0.9 2009 (s) 0.9 0.9 0.9 0.9 2010 (s) 0.9 0.9 2021 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	1965	(S)	U./ 1.0	0.3 0.2	I.I 1.2
1980 (s) 0.8 0.2 1.0 1985 (s) 0.8 0.5 0.5 1996 (s) 0.1 0.7 0.1 0.9 1996 (s) 0.7 0.1 0.1 0.8 1997 0.1 0.1 0.8 0.1 1.0 1998 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 1999 (s) 0.7 0.1 0.1 0.8 2000 (s) 0.7 0.1 0.1 0.9 2001 (s) 0.7 0.1 0.9 2002 (s) 0.8 0.7 0.1 0.9 2002 (s) 0.8 0.7 0.1 0.9 2004 0.2 0.7 0.1 0.9 2005 0.8 0.1 0.9 2006 0.8 0.2 1.0 2006 0.2 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2006 0.2 0.7 0.2 1.1 2007 (s) 0.8 0.2 0.7 2008 (s) 0.8 0.2 0.7 2009 (s) 0.9 0.9 2009 (s) 0.9 0.9 0.9 0.9 2009 (s) 0.9 0.9 0.9 0.9 2010 (s) 0.9 0.9 2021 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	1970	(5) (c)	1.0	0.3	1.0 1. <i>A</i>
1995       (s)       0.7       0.1       0.8         1996       (s)       0.8       0.1       1.0         1997       0.1       0.1       1.0         1998       (s)       0.7       0.1       0.8         1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2001       (s)       0.7       0.1       0.9         2002       (s)       0.7       0.1       0.9         2002       (s)       0.8       0.1       0.9         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       1.1         2008       (s)       0.7       0.2       1.1         2010       (s)       0.8       0.2       1.0         2011       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.	1980	(3) (8)	0.8	0.4	1.7
1995       (s)       0.7       0.1       0.8         1996       (s)       0.8       0.1       1.0         1997       0.1       0.1       1.0         1998       (s)       0.7       0.1       0.8         1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2001       (s)       0.7       0.1       0.9         2002       (s)       0.7       0.1       0.9         2002       (s)       0.8       0.1       0.9         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       1.1         2008       (s)       0.7       0.2       1.1         2010       (s)       0.8       0.2       1.0         2011       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.	1985	(s)	0.8	0.5	1.2
1995       (s)       0.7       0.1       0.8         1996       (s)       0.8       0.1       1.0         1997       0.1       0.1       1.0         1998       (s)       0.7       0.1       0.8         1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2001       (s)       0.7       0.1       0.9         2002       (s)       0.7       0.1       0.9         2002       (s)       0.8       0.1       0.9         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       1.1         2008       (s)       0.7       0.2       1.1         2010       (s)       0.8       0.2       1.0         2011       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.	1990	0.1	0.7	0.1	0.9
1997       0.1       0.8       0.1       1.0         1998       (s)       0.7       0.1       0.8         1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2001       (s)       0.8       0.1       0.9         2002       (s)       0.8       0.1       0.9         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       1.1         2008       (s)       0.8       0.2       0.9         2009       (s)       0.8       0.2       1.0         2010       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.2         2011       (s)       1.1       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.1       0.	1995	(s)	0.7	0.1	0.8
1997       0.1       0.8       0.1       1.0         1998       (s)       0.7       0.1       0.8         1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2001       (s)       0.8       0.1       0.9         2002       (s)       0.8       0.2       1.0         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.8       0.2       1.1         2008       (s)       0.8       0.2       1.0         2009       (s)       0.8       0.2       1.0         2010       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.2         2011       (s)       1.1       0.1       1.2         2012       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.	1996	(s)	0.8	0.1	1.0
1999       (s)       0.7       0.1       0.7         2000       (s)       0.7       0.1       0.9         2002       (s)       0.8       0.1       0.9         2003       (s)       0.8       0.2       1.0         2004       0.2       0.7       0.2       1.1         2005       0.2       0.7       0.2       1.1         2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       0.8       0.2       1.0         2010       (s)       1.3       0.1       1.4         2011       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.1       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.1       0.1       1.3         2015       (s)       1.1       0.2       1.4         2016       (s)       1.2       0.	1997	0.1	0.8	0.1	1.0
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	1998	(s)	0.7	0.1	0.8
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	1999	(s)	0.7	0.1	0.7
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2000	(S)	0.7	U.1	0.9
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2001	(8)	0.7	U. I O 1	0.9
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2002	(5) (c)	0.0 0.8	0.1	0.9 1.0
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2004	0.2	0.0	0.2	1.0
2006       0.2       0.7       0.2       1.1         2007       (s)       0.7       0.2       0.9         2008       (s)       0.8       0.2       1.0         2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2005	0.2	0.7	0.2	1.1
2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2006	0.2	0.7	0.2	1.1
2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2007	(s)	0.7	0.2	0.9
2009       (s)       1.3       0.1       1.4         2010       (s)       1.1       0.1       1.2         2011       (s)       1.2       0.1       1.4         2012       (s)       1.0       0.1       1.2         2013       (s)       1.1       0.1       1.3         2014       (s)       1.2       0.1       1.3         2015       (s)       1.1       0.2       1.2         2016       (s)       1.2       0.2       1.4         2017       (s)       1.3       0.2       1.5         2018       (s)       1.5       0.2       1.7         2019       (s)       1.5       0.2       1.7	2008	(s)	0.8	0.2	1.0
2019 (s) 15 0.2 1.7	2009	(s)	1.3	0.1	1.4
2019 (s) 15 0.2 1.7	2010	(s)	1.1	0.1	1.2
2019 (s) 15 0.2 1.7	2011	(S)	1.2	0.1	1.4
2019 (s) 15 0.2 1.7	2012	(S)	1.U 4.4	U. I	1.2
2019 (s) 15 0.2 1.7	2013		.  	U. I O. 1	1.3 1.3
2019 (s) 15 0.2 1.7	2014	(5) (c)	1.2	0.1	1.0
2019 (s) 15 0.2 1.7	2016		12	0.2	1.4
2019 (s) 15 0.2 1.7	2017	(s)	1.3	0.2	1.5
2019 (s) 15 0.2 1.7	2018	(s)	1.5	0.2	1.7
2020       (s)       1.5       0.2       1.7         2021       (s)       1.4       0.2       1.6         2022       (s)       1.5       0.3       1.8         2023       (s)       1.5       0.3       1.8	2019		1.5	0.2	17
2021       (s)       1.4       0.2       1.6         2022       (s)       1.5       0.3       1.8         2023       (s)       1.5       0.3       1.8	2020	(s)	1.5	0.2	1.7
2022       (s)       1.5       0.3       1.8         2023       (s)       1.5       0.3       1.8	2021	(s)	1.4	0.2	1.6
2023 (s) 1.5 0.3	2022	(s)	1.5	0.3	1.8
	2023	(S)	1.5	0.3	1.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	1.4	2.5	4.0
1965	0.1	1.8	2.8	4.7
1960 1965 1970 1975	0.1	2.2	2.5 2.8 3.0	5.3
1975	0.1	1.8	4.1	6.0
1980 1985	0.3	1.0	4.5 3.8 3.3 3.1 3.6 3.2 3.3	5.8
1985	0.4	0.5	3.8	4.7
1990	0.4	0.6	3.3	4.3
1995	1.1	1.1 1.1	3.1	5.2
1996 1997	0.2	1.1	3.0 2.2	4.9 4.5
1998	0.2 0.2	1.1	3.2 3 3	4.5 4.8
1999	0.3	1.3	3.6	7.0 5.1
1999 2000	0.3	1.4	3.6 2.9 2.5 3.0 3.2 3.6 3.7	4.6
2001 2002 2003 2004 2005	0.3 0.2	1.3	2.5	4.0
2002	0.1	1.3 1.3 1.3 1.3	3.0	4.4
2003	0.1 0.1	1.3	3.2	4.6
2004	0.1	1.3	3.6	5.0
2005	0.1	1.5	3.7	5.3
2006 2007	0.1 0.2	1.7	3.9 4.7	5.8
2007	0.2	1.7	4.7	6.6
2008	0.1	1.7	4.4	6.2
2009	0.1 0.1	1.3	3.5 0.7	4.9
2010	U. I O 1	1.2	2. <i>1</i> 2.9	3.9 4.1
2011	0.1 0.4	1.2	2.0	4.1
2012	0.4	1.2	2.3	4.6
2009 2010 2011 2012 2013 2014 2015 2016	0.4 0.5 0.5 0.4	1.3 1.2 1.2 1.2 1.3 1.3	4.4 3.5 2.7 2.8 2.9 2.9 2.8 2.6 2.5 2.6	4.6
2015	0.5	1.3	2.6	4.4
2016	0.4	1.3 1.3	2.5	4.3
2017	0.4	1.4	2.6	4.5
2018	0.4 0.3 0.3	1.5 1.5 1.5	2.6	4.6
2019	0.3	1.5	2.8	4.7
2017 2018 2019 2020 2021 2022 2023	0.3	1.5	2.6 2.8 2.8 2.6 2.6 2.5	4.0 4.7 5.3 6.0 5.8 4.7 4.3 5.2 4.9 4.5 4.8 5.1 4.6 4.0 4.4 4.6 5.0 5.3 5.8 6.6 6.2 4.9 3.9 4.1 4.5 4.6 4.9 4.9 4.9 4.9 4.0 4.4 4.6 5.0 5.3 5.3 5.8 6.6 6.2 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9
2021	0.4	1.5	2.6	4.5
2022	0.4 0.3	1.5 1.6	2.6	4.5
2023	0.3	1.0	2.5	4.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		<b>g</b>		10.00
1960	(s)	(s)	4.1	4.2
1965	(s)	(s) (s) (s) 0.1 0.2	4.1	4.2 4.1 4.9 5.8 6.3 5.8 7.0 6.9 7.0 7.0
1965 1970	(s)	(s)	4.8	4.9
1975	(s) (s)	0.1	5.8 6.2	5.8
1980	<u> </u>	0.2	6.2	6.3
1985	_	0.1	5.7	5.8
1990	<del>-</del>	0.1	5.7	5.8
1995 1996	_	0.2 0.2	6.8 6.7	7.0
1996	_	0.2	0.7 6.9	0.9 7.0
1998	_	0.2	6.8 6.8	7.0 7.0
1999	_	0.2	7.0	7.3
1999 2000	_	0.3 0.4	7.0 7.1 7.2 7.2 6.8	7.3 7.5 7.6 7.6 7.3
2001	<del>-</del>	0.4	7.2	7.6
2001 2002 2003 2004	_	0.4 0.5	7.2	7.6
2003	_	0.5	6.8	7.3
2004	<del>-</del>	0.5	7.4	7.8
2005	_	0.4	7.8	8.3
2006	_	0.4	8.1 8.5	8.5
2007	_	0.4 0.4	8.5 7.8	8.9
2008 2009	_	0.4	7.6 7.6	0.2 7.8
2010	_	0.3	7.7	7.0 8.1
2011	_	0.4	7.8	8.2
2012	_	0.4	7.5 7.7	7.9
2012 2013	_	0.4 0.2	7.7	8.1
2014 2015	_	0.2	7.6 7.3 7.7	7.8
2015	<del>-</del>	0.2 0.3 0.2 0.2	7.3	7.6
2016 2017	_	0.3	7.7	7.9
2017	_	0.2	7.9	8.1
2018	_	0.2	7.9 7.8	7.8 8.3 8.5 8.9 8.2 7.8 8.1 8.2 7.9 8.1 7.8 7.6 7.9 8.1 8.1 8.0 8.1
2019 2020		U.2 0 2	7.8 7.9	δ.U Q 1
2020	_	0.2 0.2 0.2 0.2	7.9 8.0	0.1 8.1
2021 2022	_	0.1	7.8	8.0
2023	_	0.1	7.8	7.9
		<b>V</b> 11	110	7.10

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Montana (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	(s) 0.1	(s)	0.3 0.5 1.2 1.7 5.7 9.1 15.6 16.4
1965	0.4	0.1	(s)	0.5
1970	1.1	0.1	(s)	1.2
1975 1980	1.7 5.4	0.1 0.2	(s)	1./ 5.7
1985	9.0	0.2 (s)	(S) (S)	3.7 0.1
1990	15.6	(3)	(3)	15 A
1995	15.6	(S)	0.8	16.4
1996	13.0	(s) (s) (s)	(s) 0.8 0.7	13.7
1997	15.1	(s)	0.7	15.9 18.2 18.3
1998	17.4	(s)	0.7	18.2
1999	17.5	(s)	0.8 0.9 0.9 0.8 0.7	18.3
2000	16.6	(S) (S) (S) (S)	0.9	17 /
2001	17.3	(s)	0.9	18.2 16.5 18.7 19.2 19.5
2002	15.7	(S)	0.8	16.5
2003 2004	17.9 18.4	(S)	U.7 0 0	10.7
2004	18.7	(s) (s)	0.8 0.7	19.2
2005	18.2	(5)	0.7	19.0
2007	19.2	(s) 0.1	0.7	19.0 20.0
2008	19.2	(s)	0.7	20.0
2009	16.4	(s) (s) (s) (s) 0.3	0.8	20.0 17.2 20.0 16.7
2010	19.3	(s)	0.7	20.0
2011	15.7	0.3	0.8	16.7
2012	14.6	0.3	0.8	15.7
2013	15.4	0.4	0.8	16.6
2014	16.3	0.3	0.7	17.3
2015	16.6	0.4	0.9	17.8
2016 2017	15.0	0.3 0.3	0.8 0.8	16.1 15.6
2017	14.5 14.2	0.3	0.6	15.0
2016	14.2	0.3	0.7	15.2 15.9
2019	9.1	0.3	0.8	10.1
2021	11.4	0.3	0.8	12.5
2022	12.1	0.4	0.8	13.3
2023	12.1	0.6	0.8	13.3 13.5
		0.0	<b>V.V</b>	1010

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

Veer	Cool	Metrival mag 2	Petroleum <sup>b</sup>	Total
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>2</sup>	I Olai
1960	1.9	7.4	9.1	18.4
1965	2.0	8.7	9.5	20.1
1970	2.8	11.8	12.9	27.5
1975	3.1	11.4	14.1	28.6
1980	8.9	8.4	12.7	30.0
1985	11.0	6.4	13.1	30.4
1990	13.5	5.6	13.7	32.8
1995 1996	17.1 17.0	7.0 7.0	14.3 15.5	38.4 39.5
1996	18.4	6.9	15.6	39.5 40.9
1998	19.5	6.8	16.6	42.9
1999	18.9	6.4	16.4	41.7
2000	18.9 19.7	6.7	15.2	41.6
2001	21.6	6.5	14.8	42.8
2002	20.8 21.7	6.4	15.1	42.2
2003	21.7	6.3	15.5	43.6
2004	21.4	6.1	15.8	43.6 43.3 43.7
2005	21.9	6.3	15.6	43.7
2006 2007	21.7 20.7	6.9 8.0	15.6 15.8	44.2
2007	20.7	9.1	15.0	44.6 46.6
2009	23.8	8.7	14.7	47.2
2010	24.3	8.9	16.8	50.0
2011	24.3 27.2	9.1	16.0	50.0 52.4
2011 2012	26.0	8.5	16.1	50.6 53.4 52.0
2013	28.0	9.4	16.0	53.4
2014	26.4	9.4 9.4 8.8 8.9	16.2	52.0
2015	25.5 23.0	8.8	16.3	50.5 48.1
2016	23.0	8.9	16.2	48.1
2017 2018	22.4	9.1 10.2	16.1 16.7	47.6 52.1
2018	25.3 23.0	10.2	16.7	52.1 50.3
2019	20.5	10.0	15.9	46.3
2021	20.7	9.9	16.5	47.1
2022	21.4	10.3	16.5	48.2
2023	18.7	10.7	16.2	45.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.0	0.0	0.7	2.1
1965	0.3 0.1	2.2 2.5	0.7 0.9	ა. i 3 5
1970	(s)	3.1	0.9 1.3	4.4
1075	(s) (s)	3.1 2.8 2.5 2.4 2.1 2.3 2.6	1.1	3.9
1980 1985 1990 1995 1996	(s)	2.5	0.5 0.4 0.3 0.3 0.5	3.1
1985	(s) (s) (s)	2.4	0.4	2.8
1990	(S) (S)	2.1	0.3	2.5
1995	(5)	2.3	0.3 0.5	2.7
1997	(s) (s)	2.5	0.4	2.9
1998	<del>(-)</del>	2.5 2.2	0.4 0.5	2.6
1999 2000	_	2.1 2.3	0.5 0.5	2.6
2000	<del></del>	2.3	0.5	2.8
2001 2002 2003 2004 2005	(s) (s) (s) (s)	2.5 2.3 2.3 2.3 2.1	0.5	3.0
2002	(S)	2.3	0.6	2.9
2003	(5) (c)	2.3 2.1	0.5 0.5	2.0 2.5
2005	(S)	2.0	0.5 0.5 0.5	2.5
2006 2007 2008	(s) (s) (s)	1.9 2.1	0.4	2.4
2007	(s)	2.1	0.4 0.5 0.6	2.6
2008		2.3 2.2	0.6	2.9
2009	_	2.2	0.5 0.5 0.5	2.7
2010	_	2.1 2.1	U.5	2.7
2011		1.7	0.5	2.0
2012	_	23	0.5	2.1
2010 2011 2012 2013 2014	_	2.3 2.3	0.4	2.8
2015	_	1.9	0.4	2.3
2016	_	1.9	0.4	2.2
2017	_	1.9	0.3	2.2
2018 2019	_	2.4 2.4	0.3 0.4 0.5	2.8
2019		2.4	0.5 0.4	3.1 3.5 4.4 3.9 3.1 2.8 2.5 2.7 3.1 2.9 2.6 2.6 2.8 3.0 2.9 2.8 2.5 2.5 2.4 2.6 2.9 2.7 2.7 2.7 2.6 2.9 2.9 2.8 2.5 2.5 2.7 2.7 2.8 2.9 2.9 2.8 2.9 2.9 2.8 2.5 2.7 2.7 2.8 2.9 2.9 2.8 2.9 2.9 2.8 2.9 2.7 2.7 2.7 2.8 2.9 2.7 2.7 2.7 2.8 2.7 2.7 2.8 2.9 2.7 2.7 2.8 2.9 2.7 2.7 2.8 2.9 2.7 2.7 2.8 2.9 2.8 2.9 2.7 2.7 2.8 2.9 2.8 2.9 2.7 2.7 2.8 2.9 2.9 2.8 2.9 2.7 2.7 2.8 2.9 2.9 2.8 2.9 2.7 2.7 2.8 2.9 2.9 2.9 2.9 2.7 2.7 2.8 2.9 2.9 2.9 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
2020 2021 2022 2023	_	2.1	0.4 0.4	2.5 2.4
2022	_	2.0 2.2	0.4 0.4 0.3	2.6
2023		2.1	0.3	2.4

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	1.2	0.2	1.6
1965	0.2 0.1	1.2 1.3 2.5 2.3	0.2 0.2	1.6
1965 1970	(s)	2.5	0.3	1.6 2.9 2.6 2.5 2.5 2.1 2.2 2.3 2.1 1.7
1975	(s) (s)	2.3	0.3	2.6
1980	(s) (s) (s)	2.3 2.0	0.2 0.4	2.5
1985	(s)	2.0	0.4	2.5
1990	(s)	1.9 2.1	0.2	2.1
1995 1996	(s)	2.1	0.1	2.2
1996	(s) (s) 0.2	2.2	0.1	2.3
1997 1998	0.2 —	1.8	0.1 0.1	2.1
1998		0.1 1.5	0.1	1./
2000		1.5	0.1 0.2	1.0
2000		1.5	0.2 0.2	1.6 1.8 1.7
2001 2002	(s) (s) (s)	2.2 1.8 1.5 1.5 1.5 1.5 1.5 1.5	0.1	1.7
2003	(s)	1.5	0.2	1.6 1.7
2003 2004	(s)	1.6	0.2	1.8
2005	(s)	1.5	0.2 0.2 0.1	1.8 1.6
2006	(s) (s)	1.5 1.6	0.2 0.2	1.7
2007	(s)	1.6	0.2	1.8
2008	_	1.9	0.2	2.1
2009	_	1.7	0.2 0.2	1.9
2010	_	1.7	0.2	1.9
2011 2012	_	1.7 1.4	0.1 0.1	1.9
2012	<del>-</del>	1.4	0.1	1.0
2013 2014		1.8 1.8	0.2	1.8 2.1 1.9 1.9 1.9 1.6 2.0 2.0
2014	<u> </u>	1.6	0.2	2.0
2015 2016	_	1.5	0.3 0.3	1.8
2017	_	1.6	0.3	1.9
2018	_	2.0	0.3	2.3
2019	<del>-</del>	2.0	0.4	2.4
2020	_	1.8	0.4	2.0 1.8 1.9 2.3 2.4 2.2 2.1 2.2 2.2
2021	_	1.8 1.8	0.3	2.1
2022	_	1.8	0.4	2.2
2023	_	1.9	0.3	2.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Odi	reatural gas	renoieum	Total
1960	0.8	2.0	2.0	4.0
1965	0.8 0.7	2.4	1.7	4.5 4.9
1970	0.5	2.9	22	5.6
1975	0.6 0.5 0.5 0.4	3.8	2.4 2.3 2.6 2.7	6.7
1980	0.5	2.6	2.3	5.4
1985	0.5	1.6 1.3	2.6	4.7
1990	0.4	1.3	2.7	4.4
1995	0.6	2.2	2.5 2.5	5.4
1996	0.5	1.9	2.5	4.9
1997 1998	0.6 0.5 0.5 0.7	2.3 2.7	2.5 2.7	5.3
1000	0.7	2.3	2.7	0. I 5. 2
1999 2000	0.7	2.3 2.4	2.2 2.4	5.5 5.6
2001	1.0	2.1	2.8	5.0
2002	0.7	2.1	28	5.6
2003 2004	0.7 0.7	2.0	2.9 3.1 2.9	5.6
2004	0.7	2.1	3.1	5.9
2005	0.7	2.2	2.9	5.8
2006	0.8	2.8 3.5 4.0	2.9	6.4
2007	0.8	3.5	3.0	7.2
2008	0.7	4.0	2.7	7.5
2009 2010	0.7	4.2	2.2	/.1 7.0
2010	I.2 1.0	4.4 4.5	2.1 2.1	7.8 9.4
2011	1.0	4.5 4.5	2.1 2.7	0.4 0.0
2012	1.0	4.5 4.7	2.7	9.1
2011 2012 2013 2014	0.8 0.8 0.7 0.7 1.2 1.8 1.9 2.1 2.0 1.9 2.0	4.4 4.5 4.5 4.7 4.7 4.6 4.9	2.9 3.0 2.7 2.2 2.1 2.1 2.7 2.4 2.2 2.3 2.4	9.0
2015 2016	2.0	4.6	2.3	8.9
2016	1.9	4.9	2.4	9.2
2017 2018	2.0	4.8	2.4	9.2
2018	1.9 1.7	4.8 4.9	2.2 2.3	8.9
2019	1.7	4.9	2.3	4.9 4.9 5.6 6.7 5.4 4.7 4.4 5.3 6.1 5.3 5.6 5.8 5.6 5.8 5.6 5.9 5.8 6.4 7.2 7.5 7.1 7.8 8.4 9.0 9.1 9.0 9.1 9.2 9.2 9.2 9.9
2020	1.5	5.1 5.2 5.3 5.6	2.4 2.3 2.3 2.3	9.0
2021 2022	1.6 1.6	5.2	2.3	9.1
2022	1.6 1.1	5.3	2.3	9.2
2023	1.1	5.0	2.3	9.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

		b		
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	0.3	6.2	6.5
1965	(s)	0.5	6.2 6.6	7.1 9.7
1970	(s) (s)	0.7	9.0	9.7
1975	(s)	0.6	9.9 9.6	10.5 9.9 9.9
1980	_	0.4	9.6	9.9
1985 1990	_	0.3 0.2	9.6 10.4	9.9
1990	_	0.2	10.4	10.6
1996		0.2	12.3	12.6
1997	_	0.2	12.6	12.8
1998	_	0.2	13.2	13.4
1999	<del>-</del>	0.2	13.6	13.7
2000	_	0.2	12.0	12.2
2001 2002	<del>-</del>	0.2	11.3	11.4
2002	_	0.1	11.6	11.7
2003	_	0.3 0.2	11.9	12.2
2004	_	0.2	12.0	11.4 11.7 12.2 12.3 12.2
2005	_	0.2	12.0	12.2
2006 2007	_	0.2 0.3	12.2 12.2	12.4 12.5
2007		0.5	11.6	12.0
2009	_	0.3	11.8	12.1 12.2
2010	_	0.4	14.0	14.4
2011	<del>-</del>	0.5	13.3	14.4 13.8
2012	_	0.4	12.9	13.3
2013	<del>-</del>	0.4	12.9	13.3
2014	_	0.4	13.3	13.7
2015	_	0.4	13.3	13.7
2016	_	0.4	13.1	13.5
2017	_	0.4	13.2	13.6
2018 2019		0.5 0.4	13.7 13.8	14.2 14.2
2019		0.4	13.6	14.2
2021	_	0.4	13.4	13.6
2022	_	0.3	13.4	13.7
2023	<del>-</del>	0.3	13.3	13.6
		0.0	.6.0	

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Nebraska (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		Transaction gard		
1960	0.6	1.7	0.1	2.4
1965	1.1	1.9	0.1	3.1
1970	2.3	1.9 2.5	0.1	5.0
1975	2.3 2.5 8.4	2.0 0.6	0.4 0.1	2.4 3.1 5.0 5.0 9.1 10.6
1980	8.4	0.6	0.1	9.1
1985	10.5 13.1	0.1	(s) (s) (s)	10.6
1990	16.4	0.2 0.2	(8)	13.3 16.6
1990 1995 1996	16.5	0.2 0.2 0.1	(3) (s)	16.6
1997	17.6	0.1	(s)	17.8
1997 1998	17.6 18.8	0.1 0.3 0.2	(s)	19.1
1999	18.2	0.2	(s)	18.4
2000	18.9	0.3	(s) (s) 0.1 (s) (s) (s)	19.3
2001	20.6	0.2	(s)	20.9
2002 2003	20.6 20.0 21.0	0.3	(S)	20.3
2003	21.0	0.2 0.2	(8)	21.3 20.0
2004 2005	21.1	0.4	(s) (s)	21.3 20.9 21.6
2006	20.9	0.4	(s)	21.4
2007	19.9	0.6	(s)	20.5
2008 2009	21.7	0.4	(s)	22.1 23.3 23.3 25.7
2009	23.1	0.2	(s)	23.3
2010	23.1	0.2	(s)	23.3
2011 2012	25.4	0.2 0.4	(s)	25.7
2012	24.2 26.0	0.4	(8)	24.7 26.3
2014	24.3	0.3	(s) (s) (s) (s)	24.7 26.3 24.6
2015	23.4	0.2	(S)	23.7
2016	21.1	0.3	(s)	21.4
2017	20.3	0.3	(s) (s)	20.7
2018	23.3	0.5	(S)	23.8
2019	21.3 19.0	0.7	(s) (s) 0.1	22.0
2020	19.0	0.6	(s)	19.6
2021	19.1 19.8	0.6 0.7	U.1 (a)	19.8 20.5
2022 2023	19.6	0.7	(s) (s)	20.5 18.4
2020	17.0	0.0	(5)	10.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			1	
1960	0.4	0.7	3.7	4.7 7.1
1965	0.8	1.5	4.8	7.1
1970	1.6 9.6 8.9 12.0	3.0	6.1	10.8
1975	9.6	3.4	7.9	21.0
1980	8.9	3.3 2.2 3.5	10.2 9.3 11.5	22.3 23.5 30.7 35.5 38.2 38.2
1985	12.0	2.2	9.3	23.5
1990	15.7	3.5	11.5	30.7
1995	15.4	6.0	14.1	35.5
1996	16.1	6.7	15.4	38.2
1997	15.8 17.5	7.2	15.2	38.2
1998	17.5	8.2	15.1	40.8
1999	17.3	8.5	15.7	41.4
2000	19.0	10.3	16.3	45.6
2001	18.0	9.6	17.2	44.8
2002	15.7	9.6	16.4	41.7
2003	17.4	10.1	16.4	44.0
2004	18.5	11.7	17.8	44.0 48.1 50.2
2005	18.9	12.5	18.8	50.2
2006	8.0 7.9 8.5	13.6	20.0	41.7
2007	7.9	13.9	20.0	41.8 40.9
2008	8.5	14.6	17.9	40.9
2009	8.0	15.1	16.4	39.5
2010	7.7	14.2	19.5	41.4 37.9
2011	6.0	13.6	18.4	37.9
2012	5.0 6.2	14.9	18.0	37.9
2013	6.2	14.9	18.6	39.8
2014	7.6 3.5	13.9	19.2	40.6
2015	3.5	16.5	18.5	38.5
2016	2.9	16.7	20.3	40.0
2017	2.6	16.1	21.5	40.2
2018	2.6 3.3 3.6	16.4	21.6	41.4
2019	3.6	16.7	21.5	41.7
2020	2.7	16.4	17.1	36.2 39.5 40.5 39.3
2021	3.4	16.1	19.9	39.5
2022	3.4 2.8	16.0	21.1	40.5
2023	2.8	15.9	20.6	39.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965 1970 1975	(s) 0.1	0.1 0.2	0.1	0.3 0.6 0.8 0.8 0.9 1.0 1.2 1.3 1.4 1.6 1.9 1.8 1.8 2.0 2.0 2.0 2.0 2.2 2.2 2.3 2.3 2.3 2.3 2.3 2.3 2.4 2.4 2.4 2.2 2.5 2.1 2.2 2.3 2.3 2.4 2.4 2.4 2.8 2.7 2.6 2.8 3.0
1900	0.1	0.2	0.2 0.3	0.6 0.8
1975	(s)	0.6	0.2	0.8
1980 1985 1990	(s) (s)	0.7	0.2 0.2 0.3 0.3 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2	0.9
1985	(s) (s)	0.7	0.3	1.0
1990	(s)	0.9	0.3	1.2
1995 1996	(s)	1.1 1.2	0.2	1.3
1996	(s) (s)	1.2 1. <i>1</i>	0.2 0.2	1.4 1.6
1998	(S)	1.4 1.7	0.2	1.0
1999	(s) (s) — (s) (s) (s) (s)	1.6	0.3	1.8
1999 2000	<del></del>	1.6	0.2	1.8
2001 2002 2003 2004 2005	(s)	1.8	0.2	2.0
2002	(s)	1.8	0.2	2.0
2003	(S)	1.8 2.0	0.2	2.0
2004	(S)	2.0	0.2 0.2	2.2 2.2
2005	(s) (s) (s)	2.0	0.2	2.2
2006 2007 2008	(s)	2.1 2.1	0.2	2.3
2008	<del>(-)</del>	2.1	0.2	2.3
2009	_	2.1	0.2	2.3
2010	_	2.2	0.2	2.4
2011	_	2.2	0.2	2.4
2009 2010 2011 2012 2013 2014 2015 2016	_	2.0	0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.2 0.1	2.2
2013		2.3 1.0	0.2 0.1	2.0 2.1
2015		2.0	0.1	2.1
2016	_	2.2	0.1	2.3
2017	_	2.3	0.1 0.2	2.4
2017 2018 2019 2020 2021 2022 2023	_	2.2 2.2 2.0 2.3 1.9 2.0 2.2 2.3 2.3 2.6 2.5	0.1	2.4
2019	_	2.6	0.1	2.8
2020	_	2.5	0.2 0.2 0.2 0.2 0.2	2.7
2021 2022	_	2.5	0.2	2.6
2022	_	2.6 2.8	0.2 0.2	2.0 3.0
2020		2.0	U.E	0.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			****	
1960	(s)	(9)	0.1	0.2
1965	(s) 0.1	(s) 0.1	0.1 0.1 0.2	0.2 0.3 0.8
1970 1975	0.1	0.6	0.2	0.8
1975	(s) (s)	0.8	0.1	1.0 0.8 0.9 1.1
1980	(s)	0.6	0.2 0.2	0.8
1985	(S)	0.7	0.2	0.9
1990	(s)	0.8	0.2	1.1
1995 1996 1997 1998	(s)	1.0 1.1 1.2	0.4	1.4
1996	(s)	1.1	0.5	1.0
1997	(s)	1.2	0.2 0.2	1. <del>4</del> 1.5
1999	(s) (s)	1.2	0.2	1.5
2000	_	1.4	0.2 0.4 0.5 0.2 0.2 0.2 0.2 0.2	1.4 1.6 1.4 1.5 1.5
2001	(s)	1.2	0.2	1.4
2002	(s) (s)	1.2	0.2	1.5
2003	(s)	1.3	0.2	1.5
2003 2004 2005	(s)	1.3 1.5 1.5	0.2	1.7
2005	(s)	1.5	0.2 0.2 0.3 0.3 0.2 0.2	1.5 1.5 1.7 1.8 1.8 1.8
2006 2007	(s) (s)	1.5	0.3	1.8
2007	(S)	1.6 1.6	0.2	1.8
2008		1.6	0.2	1.8
2009 2010	_	1.6	0.2	1.0 1.0
2011		1.7	0.2 0.2 0.2	1.0
2012	<u> </u>	1.6	0.2	1.8 1.9 1.8
2013	_	1.7	0.2	1.9
2013 2014 2015 2016 2017	<del>-</del>	1.6 1.6 1.7	0.2 0.2 0.2 0.5 0.5 0.6	1.8
2015	<del>-</del>	1.6	0.5	2.2
2016	_	1.7	0.5	2.2
2017	_	1.8	0.6	2.3
2018 2019	<del>-</del>	1.8	0.6	1.9 1.8 2.2 2.2 2.3 2.4 2.5 2.0 2.3 2.4 2.5
2019		1.9	0.6	2.5
2020	_	1.4	0.5	2.0
2021	_	1.7	U.6	2.3
2021 2022 2023	<del>-</del>	1.8 1.9	0.6 0.6 0.6 0.6	2.4 2.5
2020	_	1.9	0.0	2.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
4000				
1960 1965	0.3 0.2 0.2 0.2 0.3 0.2 0.4 0.5	0.2 0.4	0.4 0.4	0.9 1.0 1.2 1.1
1900	0.2 0.2	0.4 0.6	0.4	1.0 1.2
1970 1975	0.2	0.6 0.5	0.3	1.2
1980	0.2	0.0	0.4	11
1985	0.2	0.4 0.3 0.4	0.4 0.8	1.4
1990 1995	0.4	0.4	1.4	2.1
1995	0.5	0.4	2.1	3.0
1996	0.4	0.4	1.9	2.7
1997	0.4 0.6	0.4	2.0 1.6	2.9
1998	0.6	0.5	1.6	2.7
1999	0.7	0.6	1.3	2.6
2000	0.5 0.5	0.6	1.3	2.5
2001	0.5	0.6	1.4	2.4
2002	0.4	0.6	1.2	2.2
2003 2004	0.5	0.6	1.0	2.0
2004	0.5 0.5 0.4	0.6 0.7	1.4 1.6	2.5
2005	0.4	0.7	1.0 1.7	2.8
2006	0.4 0.4	0.7	1.7 1.7	2.9
2007	0.4	0.7	1.6	2.0
2009	0.4	0.7	1.7	2.7
2010	0.5	0.6	1.7	2.0
2011	0.4 0.2 0.7 0.7	0.6	1.0	1.8
2011 2012 2013	0.7	0.6	0.9	2.1
2013	0.7	0.7	1.0	2.4
2014	0.7	0.9	1.7	3.2
2015	0.7	0.9	0.5	2.1
2016	0.6	1.0	1.5	3.1
2017	0.6	1.0	1.9	3.5
2018	0.7	1.1	2.0	3.7
2019	0.6	1.1	2.0	1.1 1.4 2.1 3.0 2.7 2.9 2.7 2.6 2.5 2.4 2.2 2.0 2.5 2.8 2.9 2.7 2.6 2.7 1.8 2.7 2.6 2.7 1.8 2.1 2.4 3.2 2.1 3.1 3.1 3.5 3.7 3.7 2.8 3.0 3.0 3.1
2020 2021 2022	0.6 0.5 0.5 0.4	1.0 0.9	1.2	2.8
2021	0.5	0.9	1.6	3.0
2022	0.5	1.0 1.1	1.6 1.5	3.0
2023	0.4	I.I	1.5	ა. I

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
	- Cour	Tractar at gao		. • • • • • • • • • • • • • • • • • • •
1960	(s)	_	3.0	3.0
1965	(s)	_	4.0	4.0
1970	(s)	_	5.2	5.2
1975	(s) (s)	<del></del>	6.6	4.0 5.2 6.6 8.3 7.9 9.4
1980	_	(s) (s)	8.3	8.3
1985	_	(S)	7.9	7.9
1990 1995	_	(\$)	9.4 11.4	9.4 11.4
1995		(s) (s) (s)	11.4	12.8
1997	<del>-</del>	(9)	12.7	12.7
1998	_	(s) 0.1	13.0	13.1
1999	_	0.1	13.8	13.9
2000	_	0.1	14.5	14.6
2001 2002	_	0.1	14.4	14.5
2002	_	0.1	14.7	14.5 14.7 15.2
2003	_	0.1	15.1	15.2
2004 2005	_	0.2	16.0 16.6	16.1
2005	_	0.1 0.2	17.8	16.8 18.0
2007	_	0.2	17.8	18.1
2008	_	0.2	15.9	16.1
2009	_	0.2	14.3	14.5
2010	<del>-</del>	0.2	17.4	17.6
2011	_	0.3	17.0	17.2
2012 2013	_	0.4	16.8	17.2
2013	_	0.3	17.2	17.5 17.5 17.6
2014 2015	_	0.3	17.2	17.5
2015	_	0.3 0.3	17.3 18.1	17.6
2017		0.3	18.8	19.1
2018	<u> </u>	0.3	18.8	19.1
2019	_	0.3	18.8	19.1
2020	_	0.3	15.2	15.5
2021	<del>-</del>	0.3	17.6	17.8
2022	<del>-</del>	0.3	18.7	19.0
2023	<del>-</del>	0.3	18.3	18.6

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Nevada (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	0.3	(s)	0.4
1965	0.4	0.7	(s)	1.2
1970	1.3	1.5	(s)	2.8
1970 1975 1980	9.4 8.5	1.4	0.6 1.2 (s) 0.2	0.4 1.2 2.8 11.5 11.3 12.3 16.9 18.3 19.7
1980	8.5	1.6 0.5 1.3	1.2	11.3
1985	11.8	0.5	(\$)	12.3
1990 1995	15.3	1.3 3.4	0.2	10.9
1995	15.3 14.9 15.7	3.9	(s) 0.1	10.3 10.7
1990	15.7		(s)	19.7
1997 1998	17.0	4.1 4.6	(s)	19.6 21.6
1999	16.6	5.0	(s)	21.6
2000	18.5	5.0 6.6	(s) 0.1	25.1
2001	17.5	5.9 5.9 6.3	1.0	25.1 24.4 21.3 23.3 25.6 26.6
2002 2003	15.3	5.9	(s) (s) 0.1	21.3
2003	17.0	6.3	(s)	23.3
2004	18.0	7.5 8.1 9.1	0.1	25.6
2005	18.5	8.1	(s)	26.6
2006	7.6	9.1	(s)	16.7
2007	7.5	9.4	(s)	16.8
2008 2009	8.0 7.7	10.0 10.5	(s)	18.0 18.2 16.9 14.6
2010	7.1 73	9.6	(s) (s)	16.2
2011	7.3 5.8	8.8	(s)	14.6
2012	4.4	10.3	(s)	14.7
2013	5.5	9.9	(S)	15.4
2014	4.4 5.5 6.9	9.9 9.1	(s)	15.4 16.0
2015	2.9 2.3	11.6	(s)	14.4
2016	2.3	11.6	(s)	13.9
2017	2.1	10.8	(s)	12.9
2018	2.7 2.9	11.0	(s)	13.7 13.6 13.3
2019	2.9	10.7	(s)	13.6
2020	2.1	11.2	(s)	13.3
2021	2.9 3.0	10.8 10.3	(s)	13.7 13.3 12.2
2022 2023	3.0 2.4	9.8	(s) (s)	10.0
2023	2.4	9.0	(8)	12.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000				
1960 1965	0.5 1.1	0.2 0.2	5.8 6.8	6.5
1970	2.6	0.2	9.9	8.0 12.8
1975	2.5	0.4	9.6	12.5
1980	2.8	0.5	9.5	12.5 12.7
1985	3.8	0.5	9.5 8.9	13.2
1990	3.0	0.8	10.8	14.6
1995	3.4 3.4	1.1	10.6	15.0 15.2
1996	3.4	1.0	10.8	15.2
1997	4.2 3.7	1.1	11.2	16.5 16.5
1998	3.7	1.0	11.8	16.5
1999	3.4	1.1	12.2	16.7 17.4
2000	4.2	1.4	11.9	17.4
2001 2002	3.8 3.8	1.3 1.4	11.8 12.5	16.9 17.7
2002	3.0 4.0	3.0	14.1	21.0
2003 2004	4.0 4.2	3.4	14.1	21.0 22.0
2005	4.0 4.2 4.2	3.9	13.2	21.0 22.0 21.2
2006	4.3	3.4	11.7	19.4
2006 2007	4.3	3.4	11.4	19.2
2008	4.3 4.3 3.8	3.9	11.0	19.4 19.2 18.7
2009	3.1 3.2 2.3 1.4	3.3	10.6	17.1 16.7 16.3 14.7
2010	3.2	3.3	10.2	16.7
2011	2.3	3.9	10.2	16.3
2012	1.4	3.9	9.4	14.7
2013 2014	1.6 1.4	3.3 3.3 3.9 3.9 2.9 3.1 3.7	10.2 9.4 9.9 10.6	14.4 15.1 15.2 13.8 13.5
2014	1.4	3.1	10.6	15.1
2015	1.1	3.7	10.5	15.2
2016	0.5	3.1	10.1	13.8
2017 2018	0.3	2.8	10.3 10.7	13.5
2019	0.7 0.4	2.7 2.9	10.7	14.2 12.0
2020	0.4	2.9 2.8	9.5	14.2 13.9 12.4
2021	0.3	2.8 3.2	9.8	13.3
2022	0.4	3.2	10.3	13.8
2021 2022 2023	0.2	3.2 3.1	10.2	13.3 13.8 13.5
. ,	V.=	•		

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

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## Н

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1060	(e)	0.1	2.0	21
1960 1965 1970 1975 1980 1985 1990 1995 1996 1997	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.1 0.1 0.2 0.2 0.2 0.2 0.3 0.3 0.4 0.4 0.4 0.3	2.0 2.4 3.0 2.8 1.8 2.1 2.1 2.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	26
1970	(s)	0.2	3.0	3.2
1975	(s)	0.2	2.8	3.0
1980	(s)	0.2	1.8	2.0
1985	(s)	0.2	2.1	2.3
1990	(s)	0.3	2.1	2.4
1995	(s)	0.3	2.4	2.7
1996	(s)	0.4	2.5	2.9
1997	(S)	0.4	2.5	2.9
1998 1999	(S)	0.3	2.5	2.8
1999	(S)	0.4	2.5	2.8
2000 2001	(S)	0.4 0.4	2.5 2.5	2.9
2001	(S)	0.4	2.3 2.3	2.0
2002 2003 2004 2005 2006 2007 2008	(5)	0.4 0.4 0.4 0.4	2.3	2.1
2003	(5)	0.4	3.0	3.4
2005	(s)	0.4	2.8	3.2
2006	(s)	0.4	2.4	2.8
2007	(s)	0.4 0.4	2.4	2.8
2008	<del>``</del>	0.4	2.3	2.7
2009	_	0.4	2.1	2.5
2010	_	0.4 0.4	1.9	2.3
2011	_	0.4	2.0	2.4
2012	<del>-</del>	0.4 0.4	1.6	1.9
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	0.4	2.4 2.4 2.3 2.1 1.9 2.0 1.6 1.9 2.3 2.3 2.2 2.4	2.3
2014	_	0.4 0.4	2.3	2.7
2015	_	0.4	2.3	2.7
2010	<del>-</del>	0.4 0.4	2.2	Z.0
2017	=	0.4	2.4 2.6	2.0
2010		0.4 0.4	2.0 2.5	3.U 3.N
2018 2019 2020		0.4	2.6 2.5 2.4	2.1 2.6 3.2 3.0 2.0 2.3 2.4 2.7 2.9 2.9 2.8 2.8 2.9 2.8 2.7 3.3 3.4 3.2 2.8 2.7 2.5 2.3 2.4 1.9 2.3 2.7 2.7 2.6 2.8 3.0 3.0 3.0 2.8 2.5 2.5 2.5 2.5
2021		0.4	2.0	2.0
2022	_	0.4	2.1	2.5
2021 2022 2023	_	0.4	2.1 2.1	2.5
-		•		

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
				,
1960 1965 1970 1975	(s)	(s) (s) 0.1	0.2 0.3	0.3
1965	(s)	(s)	0.3	0.3
1970	(s)	0.1	0.4 0.4	0.5
19/5	(s)	0.1	0.4	0.5
1980 1985	(s)	0.2 0.3 0.3 0.3	0.7 0.4	0.9
1985	(s)	0.3	0.4	U./
1990 1995 1996	(s)	0.3	1.1	1.4
1995	(s)	0.3	0.9 1.0	1.Z 1.4
1990	(s)	0.4	1.U 1.O	1.4 1.4
1997 1998	(s) (s)	0.4	1.0 0.8	1.4
1999	(s)	0.4	0.9	1.2
1999 2000	(s)	0.5	1.1	1.5
2001	(s)	0.4	1.0	1.4
2001 2002 2003 2004 2005	(s)	0.5	0.9 1.2 1.4	1.4
2003	(s)	0.5	1.2	1.7
2004	(s)	0.5	1.4	1.9
2005	(s)	0.5 0.5	1.5	2.0
2006 2007	(s)	0.5 0.5	0.9 0.9 0.9 0.8	1.4
2007	(s) (s)	0.5	0.9	1.4
2008	<u> </u>	0.5	0.9	1.4
2009	_	0.5 0.5 0.5	0.8	1.4
2010	_	0.5	0.8 0.9	1.2
2011	_	0.5	0.9	1.4
2012	_	0.4	0.8	1.2
2010 2011 2012 2013 2014	_	0.5	0.8	1.3
2014	_	0.5	0.9	1.4
2015	_	0.5	1.0	1.5
2016	_	0.5 0.5	0.9 0.8	1.4
2017	<del>-</del>	0.5	0.0 0.0	1.3 1.5
2017 2018 2019	<del>-</del>	0.6	0.9 0.9	0.1 1 E
2019		0.0 0.5	0.9 n a	0.3 0.3 0.5 0.5 0.9 0.7 1.4 1.2 1.4 1.4 1.2 1.5 1.4 1.4 1.7 1.9 2.0 1.4 1.4 1.4 1.4 1.4 1.5 1.4 1.4 1.5 1.4 1.4 1.1 1.5 1.4 1.4 1.5 1.4 1.4 1.5 1.5 1.4 1.4 1.4 1.5 1.4 1.4 1.5 1.4 1.4 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4
2020 2021 2022	_	0.5 0.5	0.8 0.9 0.9 0.9	1.5 1 <i>A</i>
2021		0.5	0.9	1. <del>4</del> 1 1
2023	_	0.5	0.3	1.4
_0_0		0.0	0.0	11.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

/ <del></del>				
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2 0.1 (s) (s) (s) 0.1 0.1 (s)	(s) (s) (s) 0.1 (s) 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3	0.5 0.7 1.6 1.4 0.8 0.7	0.8 0.8 1.7 1.5 0.9 0.9 0.9 0.9 0.9 0.9 1.1 1.2 1.1 1.1 1.1
1965 1970	U. I (e)	(S)	U.7 1.6	U.8 1.7
1975	(S)	0.1	1.0	1.7
1980	(s)	(s)	0.8	0.9
1980 1985	0.1	(s)	0.7	0.9
1990   1995   1996   1997	0.1	0.2	0.5 0.8 0.7 0.6 0.6	0.8
1995	(s)	0.2	0.8	1.0
1996		0.3	0.7	0.9
1997		0.3	U.b	0.9
1998 1999		0.3 0.3	0.0	0.9 0.9
2000		0.5	0.6 0.6 0.7	11
2000 2001	<u> </u>	0.5	0.7	1.2
2002 2003 2004 2005	<del>-</del>	0.4 0.4	0.7 0.7 0.7 0.7 0.6	1.1
2003	_	0.4	0.7	1.1
2004	_	0.4 0.4	0.7	1.1
2005	_	0.4	0.6	1.0
2006 2007 2008	_	0.3 0.3 0.3	0.8 0.5	1.1
2007		0.3 0.3	0.5 0.5	0.9
2009	<u> </u>	0.0	0.8 0.5 0.5 0.5 0.4 0.3	0.0
2010	_	0.3	0.4	0.7
2011	<del>-</del>	0.3 0.3 0.4	0.3	0.7
2009 2010 2011 2012	_	0.4	0.3	0.7
2013 2014 2015 2016	_	0.4	0.4	0.8
2014	_	0.4 0.4	0.4 0.3 0.3	0.8
2015	_	0.4 0.4	0.3	0.7 0.7
2016		0.4	0.3	0.7 0.8
2017		0.5	0.3	0.0
2019	_	0.5 0.5	0.3	0.8
2018 2019 2020	_	0.5	0.3 0.3 0.3	1.1 0.9 0.8 0.7 0.7 0.7 0.7 0.8 0.8 0.7 0.7 0.7 0.8 0.8
2021 2022 2023	_	0.5	0.2 0.3 0.3	0.7
2022	<del>-</del>	0.5 0.5	0.3	0.7
2023	<del>-</del>	0.5	0.3	0.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1000	()			
1960	(s) (s) (s)	_	2.4 2.6 3.6	2.4 2.6 3.6 4.0 4.1 4.5 5.2 5.7 5.9 6.2 6.8 7.1 7.3 8.1 7.7 7.8 7.3 7.3 7.3 7.3 7.1 7.0 7.1 6.9 6.7 6.8 6.8 6.8 6.7 6.8 6.9 6.9 6.0 6.6 6.7 6.9
1965 1970 1975 1980 1985	(5)		3.6	3.6
1975	<del>(0)</del>	_	4.0	4.0
1980	<del>-</del>	(s) (s)	4.1	4.1
1985	_	(s)	4.5	4.5
1990	_	(s)	5.2 5.7	5.2
1995	_	(s)	5./	5.7
1995 1996 1997 1998	_	(s)	5.9 6.2 6.8 7.1	5.9
1997		(s) (s) (s) (s)	6.2 6.8	6.2 6.8
1999	_	(S)	7.1	7.1
2000	_	(s)	7.3	7.3
2001	<del>-</del>	(s)	7.3 7.3 8.1 7.7 7.8 7.3 7.3 7.3	7.3
2002 2003 2004 2005 2006 2007	_	(s) (s)	8.1	8.1
2003	<del>-</del>	(s)	7.7	7.7
2004	_	(s)	7.8	7.8
2005	_	(s)	7.3	7.3
200 <del>0</del> 2007		(s)	7.3 7.3	7.3 7.3
2007		(s) (s)	7.3	7.5 7.1
2008 2009	_	(S)	7.0	7.0
2010	_	(s)	7.1	7.1
2011	_	(s)	6.9	6.9
2012	_	(s)	6.7	6.7
2013	<del>-</del>	(s) (s) (s)	6.9 6.7 6.8 6.8 6.8 6.7	6.8
2014	_	(S)	6.8	6.8
2015	_	(S)	0.8 6.7	0.8 6.7
2010	_	(S)	6.8	6.8
2012 2013 2014 2015 2016 2017 2018	_	(s) (s) (s)	6.9	6.9
2019	_	(s)	6.9	6.9
2019 2020 2021 2022 2023	_	(s) (s) (s) (s) (s)	6.9 6.9 6.0 6.6	6.0
2021	_	(s)	6.6	6.6
2022	<del>-</del>	(s)	6.7 6.9	6.7
2023	_	(S)	6.9	6.9

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, New Hampshire (million metric tons of carbon dioxide (CO2))

v —				
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	_	0.7	0.9
1960 1965 1970 1975 1980	0.9	<u> </u>	0.7 0.7	1.6
1970	2.5	_	1.3	3.8
1975	2.5	(s)	1.3 1.1 2.1	3.6
1980	2.8	<u>.,,</u>	2.1	4.8
1985 1990	3.7	<del>-</del>	1.1	4.8
1990	2.9	_	1.9 0.9 0.7	4.8
1995 1996	3.4	0.1	0.9	4.3
1996	3.4	0.1 (s) (s) (s) (s) (s) (s) (s)	0.7	4.1 5.1
1997	4.2 3.7	(5)	0.9	5.1 1.8
1999	3.4	(S)	13	4.6
2000	4.2	(s)	0.4	4.6
2000	3.8	(s)	0.4	4.2
2002	3.8	0.1	0.9 1.1 1.3 0.4 0.4 0.5 1.7 1.5 1.0 0.3 0.3 0.1 0.1	4.4
2003	4.0	1.6	1.7	7.2
2004	4.1	2.1	1.5	7.8
2005	4.2	2.5	1.0	7.8
2006	4.3	2.3	0.3	6.9
2007	4.3	2.2 2.7	0.3	0. <i>1</i> 6.7
2000	3.0	2.7	0.1	5.7 5.4
2010	3.1	2.1	0.1	5. <del>4</del> 5.4
2011	2.3	2.6	0.1	5.0
2012	1.4	2.8	(s)	4.1
2013	1.6	1.6	0.1	3.3
2014	1.4	1.7	(s) 0.1 0.2 0.1 (s) 0.1	3.3
2015	1.1	2.3	0.1	3.5
2016	0.5	1.8	(s)	2.4
2017	0.3	1.4	U.1	1.8
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020 2020 2020 2020 2022 2023	0.2 0.9 2.5 2.5 2.8 3.7 2.9 3.4 3.4 4.2 3.7 3.4 4.2 3.8 3.8 4.0 4.1 4.2 4.3 4.3 3.8 3.1 3.2 2.3 1.4 1.6 1.4 1.1 0.5 0.3 0.7 0.4 0.1 0.3 0.4 0.2	1.6 2.1 2.5 2.3 2.2 2.7 2.1 2.1 2.6 2.8 1.6 1.7 2.3 1.8 1.4	0.1 (s)	0.9 1.6 3.8 3.6 4.8 4.8 4.8 4.3 4.1 5.1 4.6 4.6 4.6 4.2 4.4 7.2 7.8 7.8 6.9 6.7 6.7 5.4 5.4 5.0 4.1 3.3 3.3 3.5 2.4 1.8 2.0 1.8 1.6 2.1 2.4 1.9
2019	0.4 0.1	1.4 1.4	(s) (s) (s) 0.3 (s)	1.6 1.6
2021	0.3	1.8	(3)	2.1
2022	0.4	1.8 1.7 1.7	0.3	2.4
2023	0.2	1.7	(s)	1.9
			(-1	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	16.0	7.6	65.5	89.1
1965	22.4	11.5	73.9	107.9
1970	11.7	17.4	100.6	129.8
1975	5.8	13.3	87.4	106.4
1980	6.5 9.8 7.7	18.0	86.5	111.0
1985	9.8	19.8	82.1	111.7
1990	7.7	23.6	78.2	109.5
1995	7.6 8.2 9.5 8.2	37.4	78.4	123.4 123.5
1996	8.2	37.8	77.6	123.5
1997	9.5	38.6	77.1	125.2
1998	8.2	36.5	75.8	120.5
1999	8.5	38.7	76.8	124.1
2000	10.9	32.6	80.7	124.2 120.8
2001	10.7	30.2	79.9	120.8
2002	10.0	32.6	78.2	120.8
2003	10.2	33.6	79.5	123.4
2004	10.8	34.1	81.0	125.9
2005	12.0	33.1	85.3	130.4
2006	11.1	30.0	82.0	123.1
2007	10.7	33.9	86.2	130.7
2008	9.3	33.6	85.3	128.2
2009	5.7	33.8	71.9	111.3
2010 2011	0.9	35.6	63.1	105.5 104.8
2011	9.3 5.7 6.9 4.7 2.4	35.9	64.2 60.9	104.8
2012	2.4 2.5	35.5 37.7	60.9	98.8 100.2
2013	2.5 2.9	42.6	59.1	100.2
2014	2.9 0.0	42.0 41.1	60.0	104.6
2016	2.2 1.7	41.9	61.6	105.5
2017	1.6	38.7	58.6	98.9
2017	1.6	42.2	60.9	104.7
2019	1.3	42.2	57.5	104.7
2019	1.0	35.8	46.5	83.5
2020	1.2 1.2 0.6	35.6 36.7	40.5 50.8	93.3 99.7
2021	1.2 0.6	39.8	52.3	00.7 02.7
2023	— 0.0 —	38.0	53.2	88.7 92.7 91.2
2020		50.0	00.L	V1.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

/				
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.6	4.1	11.7	16.4
1965	0.4	4.1 6.3 7.6	13.1	19.8
1965 1970	0.4 0.2 0.1	7.6	14.7	22.5
1975	0.1	7.1	13.6	20.7
1900	(s) 0.1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	7.3 7.9 9.1	10.6 9.3 6.2	17.9 17.2 15.3 16.2 17.9 17.1 15.1
1985	0.1	7.9	9.3	17.2
1990 1995	(S)	9.1 10.6	6.2	15.3
1995	(S)	10.6 12.1	5.0 5.7	10.2 17.0
1996 1997	(5)	11.1	5.7 5.3	17.5
1998	(s)	11.8 10.7	5.6 5.7 5.3 4.4	15.1
1999	(s)	11.5	4.7	16.2
2000	(s)	11.9	4.7 5.0 4.7	16.9
1999 2000 2001	(s)	11.5 11.9 11.6 11.5	4.7	16.3
2002	(s)	11.5	4.3 5.1	15.8
2003	(s)	13.4	<u>5.1</u>	18.5
2002 2003 2004 2005	(S)	13.4 12.8 12.7	4.7 4.2	1/.5
2005	(S)	12.7	4.2	10.9
2006 2007 2008	(S)	10.8 12.5 12.1	3.4 3.6	14.2 16.1
2007	( <del>3)</del>	12.5	3.8	15.1
2009	_	12.3	3.2	15.6
2010	_	11.9	2.7	14.6
2011	<del>-</del>	12.3 11.9 11.6 10.4	2.3	14.0
2012	_	10.4	2.1	12.5
2011 2012 2013 2014	_	12.6 13.7	3.4 3.6 3.8 3.2 2.7 2.3 2.1 2.2 2.5	14.7
2014	_	13.7	2.5	16.2
2015 2016 2017 2018	_	13.1	2.4	15.5
2010	<del>-</del>	11.9	1.0	13.3
2017	=	12.2	1.7	15.9 15.9
2019	<u> </u>	13.0	2.4 1.6 1.7 2.2 2.1	16.2 16.9 16.3 15.8 18.5 17.5 16.9 14.2 16.1 15.9 15.6 14.6 14.0 12.5 14.7 16.2 15.5 13.5 13.9
2019 2020 2021 2022 2023	_	13.1 11.9 12.2 13.6 13.2 12.3 12.8	1.7	14.0
2021	_	12.8	2.0	14.0 14.8 15.2 13.8
2022	<del>-</del>	13.1	2.1 1.9	15.2
2023	_	11.9	1.9	13.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.4	0.6	7.4	8.4 9.5 13.8
1965 1970	0.3	1.1	8.1	9.5
1970	0.1	3.0	10.6	13.8
1975	0.1	2.9	7.9 9.3 4.5 4.6 2.4 3.0 2.3	10.9
1980	0.1	3.2	9.3	12.6 9.1 10.8 10.0 11.2
1985 1990	0.2	4.4 6.1	4.5	9.1
1990	(s) (s) (s)	6.1	4.6	10.8
1995 1996 1997 1998	(S)	7.5 8.2 9.2	2.4	10.0
1996	(\$)	8.2	3.0	11.2
1997	(s) (s)	9.2	2.3	11.5 10.1 11.7
1998	(S)	8.0	2.1 2.7	10.1
1999	(s)	9.0	2.1	11./
2000	(s)	8.6 7.1	2.3 9.9	10.9
2001 2002	(s) (s)	8.0	2.3 2.3 1.5	9.4
2003	(S) (S)	8.8	1.9	9.5 10.7
2004	(5) (S)	9.3	1.6	10.7
2005	(s)	9.4	1.9	10.9 9.4 9.5 10.7 10.9 11.3
2006	(6)	8.4	1.0	9.5
2006 2007	(9)	9.3	1.2 1.7	9.5 11.0
2008	(s) (s)	8.4 9.3 9.2	1.4	10.6
2009	<u> </u>	9.8	1.3	11 1
2010	_	9.8 9.9	1.0	10.9
2011	_	10.4	1.0 1.2 0.9	11.1 10.9 11.7
2012	_	10.4 9.5	0.9	10.5
2010 2011 2012 2013 2014	_	9.5	1.0	10.5 10.5 12.3
2014	_	11.2	1.1	12.3
2015	<del>_</del>	9.0 8.5	1.6 1.5	10.7 10.0
2016	<del>_</del>	8.5	1.5	10.0
2017	<del>-</del>	8.2	1.4	9.6
2018	<del>-</del>	9.2 8.6	1.4	10.6
2019	_	8.6	1.5	10.1
2020	_	7.6	1.3	10.1 8.9 9.9 10.1 9.5
2021 2022 2023	<del>-</del>	8.3 8.5 8.0	1.6 1.7	9.9
2022	_	8.5	1.7	10.1
2023	<del>-</del>	8.0	1.6	9.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

/				
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	5.7	1.5	17.0	24 2
1965	5.7 4.6	1.5 2.8 4.2 2.8 3.2 4.1 4.7	18.4	24.2 25.8 27.7 19.5 22.1 13.8 14.2 19.3 19.6 19.7 18.5 18.9 12.2 13.3 12.4 13.1 13.6
1965 1970	1.7 0.1	4.2	18.4 21.8	27.7
1975	0.1	2.8	16.6	19.5
1980	0.1	3.2	18.8	22.1
1985	0.8	4.1	8.9	13.8
1990	0.7	4.7	8.9	14.2
1995	(S)	11.0	8.3	19.3
1995 1996 1997 1998	(S)	11.0 10.3 10.1 10.4	18.8 8.9 8.9 8.3 9.3 9.5 8.1	19.0
1998	(9)	10.1	9.5 8.1	18.5
1999	0.1 0.8 0.7 (s)	10.4	8.4	18.9
1999 2000	(s)	4.6	7.5	12.2
2001 2002	(s)	4.5	8.8	13.3
2002	(s)	4.6 4.5 4.3 4.2 4.1	7.5 8.8 8.2 8.9 9.4 9.5 8.8 8.8 7.6 6.3 6.0	12.4
2003	(s)	4.2	8.9	13.1
2003 2004 2005	(S)	4.1	9.4	13.6
2005	(\$)	4.0 3.5 3.4 2.9 2.6 2.6 2.9 3.3 3.3 2.9 3.2 2.9 3.4	9.5	13.5
2006 2007	( <u>s)</u>	3.3 3.4	0.0	12.4
2006 2007 2008		29	7.6	10.5
2009		2.6	6.3	8.9
2009 2010	_	2.6	6.0	8.6
2011 2012 2013 2014	<del>-</del>	2.6	7.1 6.9 6.0 6.0	9.8
2012	_	2.9	6.9	9.8
2013	_	3.3	6.0	9.3
2014	_	3.3	6.0	9.3
2015 2016	_	2.9	6.3 6.6	9.3
2016	<del>-</del>	3.Z 2.0	6.0	9.0
2017	_	2.9 3.1	5.8	0.9
2019		3.4	6.0	9.2 9.4
2020	_	3.1	5.0	12.4 12.2 10.5 8.9 8.6 9.8 9.3 9.3 9.3 9.3 9.3 9.4 8.9 9.2 9.4 8.1 8.3 9.3
2021	_	3.2	5.1	8.3
2021 2022 2023	<del>-</del>	4.0 4.2	5.1 5.2 5.1	9.3
2023	_	4.2	5.1	9.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	0.1	(s)	24.0	24.1
1965	(s)	(s)	28.5	28.6
1970	(s)	(s) (s) 0.1	28.5 35.2	24.1 28.6 35.3
1975	(s) (s) (s)	(s) (s) 0.1	37.0 40.6	37.1 40.6 57.0 56.9 61.0 59.1 59.8 60.7 60.6 65.1 63.0 63.8 62.8 64.7
1980	<del>-</del>	(s)	40.6	40.6
1985	_	0.1	56.8	57.0
1990 1995 1996		0.1 0.1	56.8 60.8	50.9 61.0
1995		0.1	58.9	01.U 50.1
1997	_	0.2	50.9 59.6	59.1 59.8
1998	_	0.2	59.6 60.6	60.7
1999	_	0.2	60.3	60.6
2000	_	0.2 0.2 0.2 0.2	65.0	65.1
2001	_	0.2	62.8	63.0
2002 2003 2004	_	0.1 0.1	63.7	63.8
2003	_	0.1	62.7	62.8
2004	_	0.1	64.6	64.7
2005	_	0.1	69.1	69.2
2006	_	0.1	68.5	68.6
2007 2008	_	0.1 0.1	71.8 72.3	/ I.9 70.4
2008	_	0.1	61.0	72. <del>4</del> 61.1
2010	_	0.3	53.2	53.5
2011	_	0.3	53.4	53.7
2012	_	0.3	50.9	51.2
2012 2013 2014	_	0.3 0.7	50.9 49.4	51.2
2014	_	0.7	49.4	50.1
2015	_	0.4	49.6 51.8 49.5	50.0
2016	_	0.4 0.3	51.8	52.2
2017	<del>-</del>	0.3	49.5	49.8
2018	_	0.3	51.4	68.6 71.9 72.4 61.1 53.5 53.7 51.2 51.2 50.1 50.0 52.2 49.8 51.8 48.4
2019 2020	_	0.5 0.4	47.9 38.5	48.4 20 0
2020	_	0.4	38.5 49.0	38.8 49.4
2021 2022		0.4	42.0 43.3	42.4 43.7
2023		0.4	44.6	45.0
2020		0.4	77.0	TO:0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, New Jersey (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	9.1	1.4	5.4	15.9
1965	17.2	1.2	5.8	24.2
1965 1970	9.6	1.4 1.2 2.5	18.3	15.9 24.2 30.4
1975 1980	5.4 6.3 8.8 7.0	0.5 4.2 3.3 3.6 8.2 7.0	12.2 7.3 2.6	18.2 17.9 14.7 12.2
1980	6.3	4.2	7.3	17.9
1985	8.8	3.3	2.6	14.7
1990	7.0	3.6	1.6	12.2
1995	7.5	8.2	1.2 0.6	17.0
1996	8.2	7.0	0.6	15.8
1997	7.5 8.2 9.5 8.2 8.4 10.9	7.3 7.3 7.7	0.4 0.5	17.2
1998 1999	8.2	1.3	0.5	16.0 16.7
2000	0. <del>4</del> 10.0	1.1 7.0	0.6 0.8	19.0
2000	10.7	7.3 6.0	0.0 1.2	19.0
2001	10.7	0.9 8.7	1.2 0.5	18.7 19.2 18.2 19.2 19.4
2002	10.0 10.2	7.1	0.5 0.9	18.2
2004	10.8	7.1	0.9 0.7	19.2
2002 2003 2004 2005	12.0	6.9	0.6	19.4
2006 2007 2008 2009	11.1	7.2	0.2	18.4
2007	10.7	8.6	0.2 0.2	18.4 19.5 18.8
2008	9.3	9.3	0.1	18.8
2009	5.7	9.0	0.1	14.7 17.8 15.7
2010	6.9	10.8	0.1	17.8
2010 2011	4.7	10.9	0.1	15.7
2012	2.4	12.4	(s)	14.9
2012 2013 2014 2015 2016 2017	2.5	7.3 6.9 8.7 7.1 7.7 6.9 7.2 8.6 9.3 9.0 10.8 10.9 12.4 11.9	(s) (s) 0.1	14.9 14.4 16.8
2014	2.9	13.7	0.1	16.8
2015	2.2	15.6	0.1	17.8
2016	1./	17.9	(S)	19.6 16.7
2017	10.7 9.3 5.7 6.9 4.7 2.4 2.5 2.9 2.2 1.7 1.6 1.6 1.3 1.2	15.1	(s) (s) 0.1	16./
2018 2019 2020	1.6	15.6 16.0	0.1	17.3
2019	1.3	16.0	(s) (s)	17.4 13.6
2020	1.2	12.4 12.1	(S)	13.5
2021 2022	1.2 0.6	13.7	(s) 0.1	13.3
2023	0.6 —	13.7	(s)	14.4 13.5
2023	_	13.5	(8)	13.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

			h	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.4	10.8	6.9	18.0
1965	0.4 4.2 9.5 12.6	11.7	8.2	24.1
1970	9.5	15.3	10.2	34.9
1975	12.6	13.4	13.1	39.1
1980	19.3 25.5	12.1	13.3	44.7
1985	25.5	8.5	12.6	46.7
1990	26.2	13.2	13.4	52.8
1995	26.2	11.5	12.5	50.1
1996	26.5	12.2	13.8	52.5
1997	27.4	13.7	14.7	55.8
1998	27.6	12.6	15.1	55.4
1999	28.4	12.1	15.8	56.3
2000 2001	29.1	13.6 13.6	15.6 16.6	58.3 58.5
2001	28.3 27.1	12.0	16.4	55.5
2002	29.2	11.8	16.9	58.0
2003	29.6	12.0	17.4	59.0 59.0
2005	30.4	11.8	17.3	59.5
2006	30.2	12.0	18.3	60.4
2007	28.3	12.6	18.0	60.4 58.8
2008	27.1	13.2	16.4	56.8
2009	29.2	13.0	15.5	57.7 53.9 56.2
2010	25.5	12.9	15.4	53.9
2011	27.2 25.2	13.2	15.8	56.2
2012	25.2	13.1	15.9	54.1
2013	24.5	13.3	15.9	53.7 50.5
2014	20.6	13.4	16.6	50.5
2015	20.6	13.5	16.4	50.5
2016	18.8	13.5	16.4	48.7
2017	19.0	13.0	17.4	49.5
2018 2019	13.1 14.5	14.7 15.9	17.9 18.3	45.7 48.8
2019	13.3	15.9	16.5	46.8 45.0
2020	12.8	14.9	18.2	45.0 45.8
2021	13.2	15.7	17.7	45.6 46.6
2023	7.2	17.5	17.7	42.2
_0_0	7.2	17.0	17.4	TLL

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

## E

## M

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	1.1	0.3	1.5
1965	0.1 (s)	1.1 1.4 1.8 1.6 1.6 1.6 1.3 1.6 1.6 1.8 2.0 1.9 1.8 1.8 1.7 1.7 1.7 1.9 1.8 1.8 1.9 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.8	0.3 0.4 0.5 0.3 0.3 0.5 0.4 0.2 0.2 0.3 0.4 0.5 0.5 0.8 0.6 0.5 0.8	1.8
1970	(s)	1.8	0.5	2.2
1965 1970 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001	<u> </u>	1.6	0.3	1.9
1980	(s)	1.6	0.3	1.9
1985	(s)	1.3	0.5	1.8
1990	(s)	1.6	0.4	2.0
1995	(s)	1.6	0.2	1.8
1996	(S)	1.8	0.2	2.1
1997	(S)	2.0	0.3	2.2
1000	(S)	1.9	0.4	2.2
2000	(S)	1.0 1.0	0.5 0.5	2.3
2000	(3)	1.0	0.5	2.0
2007	(9)	1.0	0.0	2.0
2002	(8)	1.7	0.5	22
2004	(s)	1.9	0.4	2.3
2002 2003 2004 2005 2006 2007 2008	(s)	1.8	0.5	2.3
2006	(s)	1.6	0.5 0.4 0.4	2.1
2007	(s)	1.8	0.4	2.2
2008	<u> </u>	1.9	0.4	2.3
2009	_	1.8	0.4	2.2
2010	_	1.9	0.4	2.3
2011	_	1.9	0.4	2.2
2012	<del>-</del>	1.8	0.3	2.1
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	2.0	0.4 0.4 0.3 0.4 0.3 0.3 0.3 0.3	2.3
2014	_	1.8	0.3	2.1
2015	<del>-</del>	1.0	0.3	Z.I 0.1
2010	_	1.0	0.3	Z. I 1.0
2017		1.7	0.3 0.3	2.2
2010	<u> </u>	23	0.3 0.3	2.2
2018 2019 2020		1.9 2.3 2.0	0.0	2.3
2021	_	1.9	0.3 0.3 0.3 0.3 0.3 0.3	1.5 1.8 2.2 1.9 1.9 1.8 2.0 1.8 2.1 2.2 2.2 2.3 2.3 2.3 2.3 2.3 2.1 2.2 2.3 2.3 2.1 2.2 2.3 2.1 2.2 2.3 2.3 2.1 2.2 2.3 2.3 2.1 2.2 2.3 2.3 2.3 2.1 2.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3
2022	<del>_</del>	2.0	0.3	2.3
2021 2022 2023	_	1.9 2.0 2.0	0.3	2.3

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Tabel
	L	J		Total
1960	(-)		****	
	(s)	0.5	0.1	0.7
1960 1965 1970	(s)	0.7	0.1	0.7 0.9 2.1 1.5 1.9 1.3 1.7 1.5 1.6 1.6 1.6
1970	(s) (s)	1.9	0.2	2.1
1975	_	1.3	0.2 0.4 0.3 0.3 0.2 0.1	1.5
1980	0.1	1.4	0.4	1.9
1980 1985 1990 1995 1996 1997 1998	(s) (s)	1.0	0.3	1.3
1990	(s)	1.3 1.3 1.5 1.5	0.3	1./
1995	(s) (s)	1.3	0.2	1.5
1996	(S)	1.5 1.5	U.I	1.0
1997	(s) (s)	1.5 1.4	0.1 0.2 0.3	1.0 1.6
1999	(5) (s)	1.4	0.2	1.0
2000	(S)	1.4	0.0	1.7
2001	(S)	1.4	0.2 0.4	1.8
2001 2002	(s) (s) (s)	1.3	0.4	1.6 1.8 1.7 1.8 1.7 1.7 1.5 1.5 1.7 1.6 1.6 1.5 1.6 1.7 1.6
2003	(s)	1.3	0.5	1.8
2004	(s)	1.4	0.3	1.7
2003 2004 2005	(s) (s) (s)	1.3	0.4 0.5 0.3 0.4	1.7
2006 2007	(s)	1.3 1.4	0.3	1.5
2007	(S)	1.4	0.2	1.5
2008	_	1.4 1.3	0.4	1.7
2009	<del>-</del>	1.3	0.2	1.6
2010	_	1.4	0.2	1.6
2011	<del>-</del>	1.4 1.4 1.4 1.4	0.2	1.0 1.6
2012		1.4	0.2 0.2	1.0 1.7
2008 2009 2010 2011 2012 2013 2014	_	1.4	0.3 0.2 0.4 0.2 0.2 0.2 0.2 0.2 0.2	1.7
2015		1.4	0.3	1.7
2015 2016	=	1.4	0.3	1.7
2017	_	1.3	0.3	1.6
2018	<del>-</del>	1.3 1.4	0.3 0.3 0.3 0.3 0.4	1.6 1.7 2.0 1.7 1.8 1.9
2019	_	1.6	0.4	2.0
2020 2021 2022 2023	_	1 4	0.3 0.3 0.4	1.7
2021	_	1.5 1.5 1.5 1.5	0.3	1.8
2022	<del>-</del>	1.5	0.4	1.9
2023	_	1.5	0.4	1.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	6.4	1.1	7.7
1965	(s)	6.4 5.5 6.7	1.1 1.5	7.7
1970	(s) (s)	6.7	1.9	8.7
1965 1970 1975	<del>( /</del>	5.3	1.9 2.7 2.6 2.1	8.0
1980 1985	(s) 0.2	4.0 3.3 4.6 3.8 5.5 4.7 4.2 4.1 5.5 5.5 4.8 5.2 5.6 5.4 5.1 5.4	2.6	6.6
1985	0.2	3.3	2.1	5.6
1990	U.1	4.6	2.0	b./
1995	U.2 0.2	3.8 5.5	2.0 2.2	0.0 7.0
1997	0.2	5.5 4.7	2.2	7.9
1998	0.1	4.2	1.9	6.3
1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	4.1	2.0 2.5 2.2 2.2 1.9 2.0 1.9 2.1 2.0 2.3 2.3 2.3 2.2 2.5 2.7	6.3
2000	0.2	5.5	1.9	7.6
2001	0.2	5.5	2.1	7.7
2002	0.2	4.8	2.0	7.0
2003	0.2	5.2 5.6	2.3	/./ 9.1
2004	0.2 0.2	5.0 5.4	2.3	0.1 7.8
2006	0.2	5.4	2.5	7.8
2007	0.2	5.4	2.7	8.3
2008	0.1	5.6	2.3	8.0
2009	0.1 0.1 0.1 0.1	5.4	1.8	7.3
2010	0.1	5.3	2.0	7.4
2011	0.1	5.6	1.9	7.6
2012	U. I O. 1	5.5 5.3	2.U 2.1	1.1 7.1
2013	0.1 0.1	5.5 5.5	2.1	7.4
2015	0.2	5.5	1.9	7.6
2016	0.2	5.3	2.1	7.6
2017	0.2	5.4	2.3	7.9
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	0.2 0.2 0.2 0.2 0.1	5.4 5.3 5.6 5.5 5.3 5.5 5.5 5.3 5.4 5.4 5.7	1.8 2.0 1.9 2.0 2.1 2.2 1.9 2.1 2.3 2.3 2.3 1.8	7.9
2019	0.1	5.7	2.3	8.1
2020	0.1	5.7	1.8	7.7 7.0 8.7 8.0 6.6 5.6 6.7 6.5 7.9 7.1 6.3 6.3 7.6 7.7 7.0 7.7 8.1 7.8 8.3 8.0 7.8 8.3 8.0 7.3 7.4 7.6 7.7 7.4 7.9 7.6 7.7 7.4 7.9 7.9 7.9 8.1 7.7 8.1 7.8 8.3
2021 2022 2023	0.1 0.1	6.4 6.6 6.8	1.9 1.9 1.9	8.4 9.7
2022	0.1	0.0 6.8	1.9	0.7 8 Q
	0.1	0.0	1.0	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

N

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(s)	0.9	5.3	6.2
1965	(s) (s) (s)	0.9 1.5 1.7	5.3 6.2	6.2 7.7 9.3
1970	(s)	1.7	7.5	9.3
1975 1980	<u>'</u>	1.7	9.1 9.7	10.7
1980	_	2.1	9.7	11.9
1985	<del>-</del>	1.5	9.6	11.1
1990	<del>-</del>	4.3	10.6	14.9
1995	_	3.1	9.6	12.7
1996	<del>-</del>	1.5	11.3 12.1	12.7
1997 1998	_	3.4 2.7	12.1	15.5 15.4
1999		2.7	13.0	15.5
2000	<u> </u>	2.4	13.0	15.3
2001	_	2.4	13.3	15.7
2002	_	2.2	13.3	15.4
2003	_	1.6	13.6	15.2
2004	_	1.5	14.2	15.7
2005	_	1.5 1.1	14.2 14.2	15.3
2006	_	1.0	15.0	16.0
2007	_	0.7	14.6	15.4
2008	<del>-</del>	0.7	13.3	14.0
2009	<del>-</del>	0.6	13.0	13.7
2010	_	0.5	12.8	13.3
2011	_	0.4	13.3	13.7
2012	_	0.4	13.3	13.7
2013 2014	_	0.5 0.5	13.3 13.8	13.8 14.3
2014	<u>-</u>	0.5	13.9	14.3
2016	<u> </u>	0.5 0.5	13.6	14.1
2017	_	0.5 0.5	14.5	15.0
2018	_	0.6	15.0	15.6
2019	_	0.7	15.1	15.8
2019 2020	_	0.7	14.1	14.8
2021	<del>-</del>	0.6	15.6	16.2
2022	_	0.6	15.0	15.7
2023	_	0.8	14.8	15.6

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, New Mexico (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1 ———	Jour	Hatarar guo	1 ou oloum	1000
1960	0.1	1.8	0.1	2.0
1965	4.1	2.6	(s)	2.0 6.7
1965 1970 1975	9.4	3.2	(s)	12.6
1975	9.4 12.6 19.2	1.8 2.6 3.2 3.6 3.1 1.5 1.4 1.7	0.1 (s) (s) 0.8 0.2 (s) (s)	12.6 17.0 22.4 26.9 27.6 27.7 28.2
1980	19.2	3.1	0.2	22.4
1985	25.3	1.5	(S)	26.9
1990 1995 1996	26.1 26.0 26.4	1.4	(S) (S)	27.0 27.7
1995	20.0 26.4	1.7	(S) (S)	21.1
1997	27.2	21	(s)	29.4
1998	27.2 27.4	2.4	(s)	29.9
1999	28.2	2.3	(s)	30.5
2000	28.9 28.1 26.9 29.0 29.4 30.2	2.1 2.4 2.3 2.5 2.6 2.0 2.0 1.7 2.2	(s)	29.4 29.9 30.5 31.4 30.7 29.0
2001	28.1	2.6	(s)	30.7
2002 2003 2004 2005	26.9	2.0	(s)	29.0
2003	29.0	2.0	(s)	31.1 31.1 32.4
2004	29.4 30.2	1.7	(s) (s)	31.1 20.4
2005	30.2	3.0	(S)	33.0
2007	28.1	3.3	(s)	31.4
2006 2007 2008	27.0 29.1 25.4 27.1	3.0 3.3 3.7	(s)	31.4 30.8 33.0 29.3 31.2 29.2 28.5 24.7
2009	29.1	3.8	(s)	33.0
2010	25.4	3.8	(s)	29.3
2011	27.1	4.0	(s)	31.2
2012	25.1	4.1	(s)	29.2
2011 2012 2013 2014	24.4	4.1 4.2	(s) 0.1	28.5
2014	20.4 20.5	4.Z 1/2	0.1	24.7 24.8
2015 2016	18.7	4.3 4.5	(s)	24.0
2017	18.9	4.2	(s)	23.1
2018	12.9	4.2 5.4	(s)	18.3
2019 2020	14.3 13.2	5.6 5.4	(s) 0.3	24.8 23.2 23.1 18.3 20.3 18.6
2020	13.2	5.4	(s)	18.6
2021	12.6	4.5 4.9 6.5	(S)	17.1 18.0 13.6
2022 2023	13.1	4.9	(s) 0.1	18.0
2023	7.1	6.5	0.1	13.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

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Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	-			
1960	65.3	22.9	120.5	208.6
1965	71.1	29.5	150.7	251.2
1970	56.2	38.3	190.4	284.9
1975	29.3	30.9	184.8	244.9
1980	29.5	39.7	152.4	221.6
1985	28.5	41.3	118.0	187.8
1990	33.1	47.3	126.9	207.3
1995	28.9	68.2	100.2	197.4 199.8
1996	29.5	64.8	105.5	199.8
1997	30.8	71.6	101.8	204.2
1998	32.0	66.8	104.3	203.0
1999	30.1	69.2	106.3	205.6
2000	31.4	67.7	113.0	212.1 207.8
2001	29.1	63.7	115.0	207.8
2002	26.7	64.9	110.4	202.0
2003	27.3	59.9	125.8	212.9
2004	26.3	59.7	129.1	215.1 211.2
2005	24.5	58.6	128.1	211.2
2006	24.4	59.3	109.9	193.6
2007	24.6	64.3	110.9	199.8
2008	21.8	63.8	104.4	190.0
2009	14.9	61.8	97.2	173.9
2010	15.9	64.9	104.1 97.1	184.9
2011	11.9	66.1	97.1	184.9 175.1
2012	6.9	66.8	94.0	167.7
2013	6.5	69.6	92.5	168.6
2014	6.5 6.2	73.7	96.0	168.6 175.8
2015	3.9 2.8	73.7	96.1	173.7
2016	2.8	70.5	96.0	169.4
2017	1.9	67.4	95.9	165.1
2018	1.6	73.5	99.0	174.1
2019	1.3	70.6	96.3	168.2
2020	0.5	68.9	73.3	142.7
2021	0.5	71.7	85.4	157.6 166.2
2022	0.6 0.5	74.1	91.5	166.2
2023	0.5	71.1	93.3	164.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

/				
Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	27	12.3	21.6	36.6
1965	2.7 1.7	12.3 15.6	27.0	44.4
1965 1970	0.8 0.3	18.8	28.8	44.4 48.4 44.2
1975 1980	0.3	17.6	26.3	44.2
1980	0.2 0.2	18.0	17.5	35.7 34.6
1985	0.2	17.4	17.0	34.6
1990	0.1	18.4	15.2	33.8
1995	0.1	20.5	13.8	34.4
1996 1997	0.1 0.1	22.0 20.5	14.7 14.3	30.7 24.0
1998	(e)	18.5	13.2	34.9 31.7
1999	(s) 0.1	20.2	14.2	33.8 34.4 36.7 34.9 31.7 34.5 39.6 38.5 36.3 39.4 38.4 39.4 32.7 36.4 35.1
2000	(s)	21.9	17.7	39.6
2000 2001 2002	(s) (s) (s) (s) (s) (s)	21.9 20.6	17.9	38.5
2002	(s)	20.1	16.2	36.3
2003	(s)	22.3	17.0	39.4
2004	(s)	21.4	17.0	38.4
2003 2004 2005 2006 2007 2008 2009	(s)	22.1	17.3	39.4
2006	(s) (s)	19.3 21.7	13.3	32.7
2007	(S)	21.7	14.6	36.4
2008	_	21.4	13.8 10.7	35. I
2010	<u> </u>	21.9 21.2	10.7	3∠./ 31.5
2011	<u> </u>	21.5	9.4	32.7 31.5 30.9
2012	_	19.6	10.6	30.2
2013	_	22.8	9.1	31.9
2012 2013 2014	<del>-</del>	25.1	10.2	30.2 31.9 35.2
2015 2016 2017	_	24.7	10.5	35.2
2016	_	22.5	8.1	30.6 31.3
2017	<del>-</del>	23.6	7.7	31.3
2018	_	26.5	9.6 9.6	36.1 35.5
2019	_	25.9	9.6	35.5
2020	_	23.9	7.4 9.3	31.3
2021 2022	<del>-</del>	24.3 24.5	9.3 9.2	აა.ნ ვე დ
2023		24.3	9.2	33.6 33.8 31.7
2020		22.0	9.1	01.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

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Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.9 1.3 0.7	3.5 4.7	20.4	25.8 32.8 38.3
1965 1970	1.3	4.7	26.8	32.8
1970	0.7	7.6	30.1	38.3
1975 1980	0.6	6.9 8.7	22.4 18.9	30.0
1985	0.6 0.8	8.7 9.0	14.8	28.2 24.6
1990	0.5	10.6	15.7	24.0 26.8
1995	0.5	12.6	13.8	26.0
1996	0.6	13.8	13.4	26.8 26.9 27.8 29.6 27.7 30.2
1997	0.5 0.3	17.5	11.6	29.6
1998	0.3	18.3	9.1	27.7
1999	0.4	19.6	10.2	30.2
2000	0.2	20.0	11.9	32.1 30.7
2001	0.2	19.0	11.5	30.7
2002	0.1	19.7	11.5	31.3
2003	0.2	18.5	14.4	33.1
2004	0.3	19.6	14.9	33.1 34.8 28.6
2005	0.4	15.0	13.3	28.6
2006	0.3 0.3 0.2	14.1	11.0	25.4 26.7 25.8
2007 2008	0.3	15.5 15.7	10.9 9.9	26.7
2008	0.2	15.7	9.9	25.8
2010	0.1 (c)	15.6	9.8 8.5	25.0 24.2
2011	(s) (s)	15.9	8.3	24.2 24.2
2012	(5) —	14.8	6.1	20.9
2013	_	16.5	5.9	22 4
2014	_	17.5	5.9 4.5 5.7	20.9 22.4 22.0
2015	_	17.0	5.7	22.7
2016	_	16.5	5.1	21.6
2017	_	17.0	5.0	22.7 21.6 22.0
2018	_	18.0	5.0	23.0 22.7
2019	_	17.6	5.1	22.7
2020	_	15.8	4.4	20.2
2021	<del>-</del>	16.3	5.4	21.6
2022 2023	_	16.6	5.4 5.6 5.2	21.6 22.1 21.4
2023	_	16.1	5.2	21.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

/				
.,			<b>-</b>	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	29 1	3.8	18.6	51.5
1965	29.1 33.5 28.6	3.8 4.9 6.1 5.5 5.9 5.3 5.4	25.1	51.5 63.4 61.6
1965 1970	28.6	6.1	25.1 26.9	61.6
1975 1980	14.4	5.5	20.9 14.2 7.4 6.5	40.7 33.7 21.5 19.6 22.1 22.6 21.5 20.8 17.2 16.6 16.2 14.5 13.9 13.7
1980	13.6 8.9 7.7 6.7 6.7 6.8 7.0	5.9	14.2	33.7
1985	8.9	5.3	7.4	21.5
1990	7.7	5.4	6.5	19.6
1995	6.7	11.3	4.1	22.1
1996	6.7	11.3	4.5	22.6
1995 1996 1997 1998	0.ŏ 7.0	11.3 11.3 10.9 9.1	4.1 4.5 3.9 4.7	∠1.5 20.9
1990	6.7	9.1 5. <i>1</i>	4. <i>1</i> 5.1	20.0 17.0
1999 2000	6.7	5.4 5.1	4.6	16.6
2001	6.9 5.9 4.2 3.9 3.6 3.7 3.5 3.3 3.0 2.2 2.4	5.4 5.1 4.5 4.9 4.4 4.2 4.3 4.2 4.1	5.1 4.6 5.8 5.4 5.5 5.9 6.4	16.0
2001 2002	4.2	4.9	5.4	14.5
2003	3.9	4.4	5.5	13.9
2004	3.6	4.2	5.9	13.7
2003 2004 2005	3.7	4.3	6.4	14.4
2006 2007 2008 2009 2010	3.5	4.2	6.4 6.0 5.7	14.1 13.4 13.0
2007	3.3	4.1	6.0	13.4
2008	3.0	4.2	5.7	13.0
2009	2.2	3.9 4.0	4.6	10.7
2010	2.4	4.0	3.5	9.9
2011	2.4	4.0 4.0	3.7	10.2
2012	2.3 2.0	4.U 4.2	3.9 2.2	10.1 0.6
2011 2012 2013 2014	2.4 2.3 2.0 1.8	4.3 4.5	4.6 3.5 3.7 3.9 3.3 2.9	9.0
2014	1.8	4.5 4.4	3.3	9.5
2015 2016	1.3	4.4 4.2	3.6	9.2
2017	1.3	4.4	3.3 3.6 3.2 3.3	8.8
2018	0.9	4.8	3.3	9.0
2018 2019	1.8 1.3 1.3 0.9 0.8	4.4 4.8 4.7	3.4	9.0
2020	0.4	4.5	3.0	10.7 9.9 10.2 10.1 9.6 9.2 9.5 9.2 8.8 9.0 9.0 9.0 8.0 8.2 7.9
2021 2022 2023	0.5 0.6 0.5	4.7 4.7	3.0 2.7	8.2
2022	0.6	4.7	2.7	7.9
2023	0.5	4.4	3.3	8.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

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Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1000	0.5	0.1	55.0	
1960 1965	0.5 0.1	0.1 0.2	55.0 61.2	55.6 61.5
1970	(s)	0.2	76.4	76.6
1975	(s) (s)	0.2 0.2	73.0	73.2 71.5
1980	<del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del>	0.2	71.3	71.5
1985	_	0.2	58.0	58.2 63.9 62.5 65.7 65.6 66.2 66.5
1990	_	0.3	63.6	63.9
1995 1996	_	0.5	62.0	62.5
1996	<del>-</del>	0.4 0.4	65.2 65.2	00.7 65.6
1998	_	0.4	65.7	66.2
1999	_	0.5	66.1	66.5
2000	_	0.5	66.9	67.4
2001	_	0.3	66.6	67.0
2002	_	0.5	68.1	68.6
2003	_	0.5	73.7	74.1
2004	_	0.5	74.9 72.7	75.3
2005	_	0.7	/2./	73.4
2006 2007	<del>-</del>	0.8 0.8	73.7 72.9	74.5 73.8
2007		0.8	72.9 72.1	73.8 72.9
2009	_	0.9	70.1	72.9 70.9
2010	_	1.0	80.2	81.2
2011	<del>-</del>	1.2	74.7	70.9 81.2 75.9
2012	_	1.2	73.0	74.2 74.7 78.9 77.2
2013	<del>-</del>	1.1	73.6	74.7
2014	-	1.8	77.0	78.9
2015	_	1.9	75.3	77.2
2016	_	1.5	78.7	80.2
2017 2018	=	1.4	79.5	81.0
2018		1.5 1.7	80.1 77.9	01.0 70.6
2019		1.7	58.3	81.6 79.6 59.8 69.2 75.2 77.6
2021	_	2.0	67.2	69.2
2022	_	2.3	72.9	75.2
2022 2023	_	2.3 2.1	72.9 75.4	77.6

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, New York (million metric tons of carbon dioxide (CO2))

/				
, Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	31.0	3.2	10	30.1
1965	31.0 34.5 26.1	3.2 4.0 5.7	10.6	39.1 49.1
1965 1970	26.1	5.7	28.2	60.0
1975	14.0	0.7 6.8 9.5 12.5 23.3 17.3	4.9 10.6 28.2 42.1 30.5 20.8 25.9 6.5 7.6 6.7 11.6 10.8 11.9	56.8
1975 1980	15.1	6.8	30.5	52.4
1985	18.7	9.5	20.8	56.8 52.4 48.9 63.2 51.4 47.0 52.5 56.7 57.3 56.4 55.5 51.4 52.5 52.9
1990	24.8 21.6 22.1	12.5	25.9	63.2
1995	21.6	23.3	6.5	51.4
1996	22.1	17.3	/.6	47.0
1997 1998	23.4	22.4	0./ 11.6	52.5 56.7
1999	24.0 23.0	20.5	11.0	50.7 57.3
2000	23.4 24.6 23.0 24.3	20.0	10.0	57.5 56.4
2001	23.0	19.3	13.2	55.5 55.5
2002	22.4	19.8	9.3	51.4
2002 2003 2004 2005	23.0 22.4 23.2 22.3 20.4	22.4 20.5 23.5 20.2 19.3 19.8 14.2 14.0 16.5 21.0	9.3 15.2 16.5	52.5
2004	22.3	14.0	16.5	52.9
2005	20.4	16.5	18.6	55.4
2006 2007 2008 2009	20.6	21.0	5.4	46.9
2007	21.1	22.1 21.6	6.4	49.6
2008	18.7	21.6	2.9	49.6 43.2 34.5 38.2 33.9 32.3 30.0 30.5
2009	IZ.0 10.5	19.9	2.0 1.7	34.3 20.2
2010	12.6 13.5 9.5 4.7	19.9 23.0 23.6 27.3	0.9	30.2 33.0
2011	9.5 4.7	27.3	0.3	32.3
2012 2013	4.5	24.9	0.6	30.0
2014	4.5 4.4	24.9 24.7	1.4	30.5
2014 2015	2.1	25.7	1.3	29.1
2016 2017	1.5	25.7	0.4	27.7
2017	0.6	21.0	0.4	22.0
2018	0.7	22.6	1.1	24.4
2019 2020 2021	0.5 0.2	20.7	0.3 0.2	21.4 23.4
2020		23.1	0.2	23.4
2021	_	24.4 25.9	0.5 1.2	24.9 27.2
2022 2023		25.9 25.7	0.3	27.2 26.0
2020	_	23.1	0.3	20.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Teal	Coal	ivaturai gas "	retioleum *	Total
1960	22.0	2.4	28.7	53.1
1965	31.0	4.1	34.0	69.0
1970	46.7	8.1	42.4	97.2
1975	45.3	6.1	43.5	95.0
1980	59.4	8.1	44.9	112.4
1985	52.3	7.2	47.5	107.1
1990	54.0	8.7	48.4	111.1
1995 1996	63.0 70.7	11.0 11.6	54.1 57.7	128.1 140.0
1996	70.7 72.7	11.6	57.7 57.7	140.0
1998	71.7	11.6	57.7	142.0
1999	70.6	11.7	58.3	140.7
2000	74.8	12.6	61.5	148.9
2001	72.0	11.3	60.8	144.1
2002	73.5	12.7	59.2	145.5
2003	73.7	11.9	61.5	147.2
2004	74.8	12.2	63.1	150.1
2005	77.6	12.5	64.0	154.1
2006	74.2	12.1	62.1	148.4 154.3 148.9
2007	79.0 75.8	12.8	62.4	154.3
2008 2009	75.8 64.8	13.1 13.3	60.0 54.7	148.9
2010	64.8 71.5	16.3	54.7 59.3	132.7 147.1
2011	59.7	16.4	56.5	132.5
2012	51.1	19.4	53.9	124.4
2013	47.2	23.4	55.3	125.9
2014	47.9	24.3	56.8	125.9 129.0
2015	38.8 36.5	27.1	58.6	124.4
2016	36.5	28.4	59.5	124.4
2017	33.5	27.3	59.8	120.6
2018	31.1	31.5	61.2	123.8 122.3
2019	30.4	29.9	62.0	122.3
2020	21.4	29.2	55.5	106.2
2021	21.3	33.5	60.5	115.3
2022 2023	15.6 14.7	39.3 34.8	62.0 61.9	116.9 111.4
2023	14.7	34.8	01.9	111.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

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Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	1.4	0.5	7.0	0.1
1965	1.4 0.7 0.6 0.3 0.1 0.1 0.1 0.1 0.1 0.1 (s) (s) (s) (s) (s) (s) (s) (s)	0.5 0.8 1.5 1.5 1.8 1.6 1.9 2.7 3.2 2.9 2.8 2.9 3.5 3.1	7.2 7.8 8.5 5.6 4.8 4.7 3.3 3.8 4.3 3.9 3.8 3.8 4.3	9.1 0.3
1970	0.7	1.5	7.0 8.5	10.6
1975 1980 1985 1990 1995	0.3	1.5	5.6	7.4
1980	0.1	1.8	4.8	6.7
1985	0.1	1.6	4.7	6.3
1990	0.1	1.9	3.3	5.3
1995 1996	0.1	2.7	3.8	6.6 7.6
1996	0.1 0.1	3.2 2.0	4.3 3.0	7.0 6.0
1998	0.1	2.3	3.8	6.7
1998 1999	(s)	2.9	3.4	6.4
2000 2001	(s)	3.5	3.7	7.2
2001	(s)	3.1	3.7	6.8
2002 2003 2004 2005	(s)	3.2 3.6 3.5 3.5 3.1 3.2 3.5 3.6 4.0 3.3 3.0 3.7	3.1 3.6 3.6 3.1	6.4
2003	(s)	3.6	3.6	7.3
2004	U. I (c)	3.5 3.5	3.0 2.1	7.2 6.6
2005	(8)	3.1	26	5.7
2007	(S) (S)	3.2	2.4	5.6
2006 2007 2008	<del>(0)</del>	3.5	2.5	6.0
2009 2010 2011 2012	_	3.6	2.2	5.7
2010	_	4.0	2.4	6.4
2011	_	3.3	1.8	5.2
2012	_	3.0	2.6 2.4 2.5 2.2 2.4 1.8 1.3	4.4
2013	_	3./ / 1	1.4 1.6	5.2 5.7
2014 2015 2016		4.1 3.5 3.5 3.3	1.6 1.8 1.6	5.7 5.4
2016	_	3.5	1.6	5.1
2017	_	3.3	1.2	4.5
2018	_	4.0	1.6 1.5	5.5
2018 2019 2020	_	4.0 3.7 3.5	1.5	5.2
2020	_	3.5	1.3	9.1 9.3 10.6 7.4 6.7 6.3 5.3 6.6 7.6 6.9 6.7 6.4 7.2 6.8 6.4 7.3 7.2 6.6 5.7 5.6 6.0 5.7 5.6 6.0 5.7 5.4 5.2 4.8 5.1 4.5 5.5 5.7 5.4 5.5 5.5 5.2 4.8 5.4 5.5 5.5 5.6 6.0 5.7 5.4 5.1 4.5 5.5 5.2 4.8 5.4 5.5 5.5 5.6 6.0 5.7 5.4 5.1 4.5 5.5 5.5 5.2 4.8 5.4 5.5 5.5 5.5 5.6 6.0 5.7 5.4 5.5 5.5 5.5 5.5 5.6 6.0 5.7 5.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5
2021	_	3.9	1.4 1.5	5.4 E 1
2021 2022 2023		3.9 3.9 3.5	1.5 1.4	5.4 1 Q
		0.0	1,4	4.3

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960 1965 1970 1975	1.0	0.2	0.9	2.0
1965	0.6	0.4 1.2	1.0	2.0
1970	0.4 0.6	1.2 1.2	1.3 1.1	2.9
1975	0.3	1.2	1.1 1.5	2.9
1980 1985	0.3	1.4	1.5 2.0	3.2
1990	0.3	1.7	1.8	3.8
1995	0.5	2.0	1.6	4.2
1996	0.5 0.4	2.0 2.2	2.0	4.7
1997	0.4 0.5	2.1	2.0 1.9	4.5
1998	0.5	2.0	1.9	4.4
1999 2000	0.3	2.1	1.7	4.1
2000	0.3 0.3 0.3 0.3 0.7 0.3	2.4	2.0 2.1	4.6
2001	0.3	2.1	2.1	4.5
2001 2002 2003 2004 2005	0.3	2.2	1.6 2.2 2.1 2.1	4.0
2003	0.3	2.4	2.2	4.9
2004	0.7	2.4 2.5 2.6	۷.۱ ۲.۱	5.3 5.0
2005	0.3	2.0	2.1 1.0	0.0 4.6
2006 2007	0.3 0.1	2.5	1.0	4.0 1.2
2008	0.1	2.5 2.5 2.5 2.7 2.8	1.8 1.6 1.7	5.0
2009	0.5	2.8	1.9	5.2
2010	0.5	3.0	1.6	5.1
2011	0.4	2.7	1.2	4.3
2012	0.3	2.6	1.2	4.1
2013	0.6 0.5 0.5 0.4 0.3 0.3	3.0	1.0	4.3
2009 2010 2011 2012 2013 2014 2015 2016		3.0 2.7 2.6 3.0 3.3 3.0 3.1 2.9	1.9 1.6 1.2 1.2 1.0 1.2 1.9 1.8	4.8
2015	0.4	3.0	1.9	5.3
2016	0.3	3.1	1.8	5.2
2017	0.3	2.9	1.8	5.0
2017 2018 2019 2020 2021 2022 2023	0.4 0.3 0.3 0.2 0.1	3.2 3.1 2.9 3.1 3.2	1.8 1.8 1.9 1.9 3.2 1.9	2.0 2.9 2.9 2.9 3.2 3.7 3.8 4.2 4.7 4.5 4.4 4.1 4.6 4.5 4.0 4.9 5.3 5.0 4.6 4.2 5.0 5.2 5.1 4.3 4.1 4.3 4.1 4.3 4.1 4.3 4.1 4.3 4.1 4.3 4.8 5.3 5.2 5.0 5.2 5.1 4.8 5.1 6.5 4.9
2019	0.1	3.1	1.8	5.1
2020	0.1 0.1	2.9	1.9	4.8 5.1
2021	0.1 0.1	<b>১.।</b> ২০	1.9 2.0	5.1 6.5
2023	0.1 0.1	3.2	1 9	0.5 4 9
	0.1	0.0	1.0	7.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

· —				
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	5.8 6.1	1.4 2.5 3.9 3.2	4.4 5.6 6.3 6.7	11.6 14.2 15.3 13.3
1965	6.1	2.5	5.6	14.2
1970	0.1 2.2	3.9 2.0	0.3 6.7	10.3
1975 1980	5.1 3.3 3.2 5.3 7.1 5.8 5.5 5.1 4.5 4.2 4.4 4.3 4.0 3.9 3.6 3.5 3.0 2.8 2.6 2.2 2.2 1.9 1.6 1.7	5.2 A A	7.2	10.0
1985	5.2	4.4 4.0	5.8	14.8 15.1
1990	7.1	4.6	5.8 5.3 6.0 6.3 5.8 5.2 5.5 5.8 4.8 4.5 5.2 5.4	16.9
1995	5.8	5.6	6.0	16.9 17.5 17.3
1996	5.5	5.5	6.3	17.3
1997 1998	5.1	5.9	5.8	16.9 16.0 15.0
1998	4.5	5.7	5.8	16.0
1999	4.2	5.7	5.2	15.0
2000	4.4	5.6	5.5	15.6
2001	4.3	4.7	5.8	14.9
2002	4.0	5.2 1 Q	4.8 4.5	14.U 12.2
2003	3.6	4.0 4.8	4.3 5.2	13.6
2000 2001 2002 2003 2004 2005 2006 2007 2008	3.5	4.6 5.6 5.5 5.9 5.7 5.7 5.6 4.7 5.2 4.8 4.8 4.7 4.7	5.4	15.6 14.9 14.0 13.3 13.6 13.6 12.6 11.9
2006	3.0	4.7	4.9	12.6
2007	2.8	4.7	4.9 4.3 3.7	11.9
2008	2.6	4.7	3.7	11.1
2009	2.2	4.4	3.0 3.4	9.5
2010	2.2	4.4 4.9 5.2	3.4	10.4
2011	1.9	5.2	3.0	10.0
2012	1.6	5.4	2.6	9.6 10.0
2013	1. <i>/</i>	5.4 5.7 5.7 5.5 5.5 5.6	2.8 2.7	10.2
2014	1.5 1. <i>A</i>	5.7 5.5	2.1	9.9 0.5
2016	1.3	5.5 5.5	2.6 2.7	9.6
2017	1.2	5.6	2.8	9.6
2018	1.0	6.1	2.7	9.9
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	1.4 1.3 1.2 1.0 0.9 0.9	6.1 6.2 6.0	2.8 2.7 2.8 2.7	9.5 10.4 10.0 9.6 10.2 9.9 9.5 9.6 9.6 9.9 10.0
2020 2021 2022	0.9	6.0	2.7	9.6
2021	1.0 1.0 0.5	6.4 6.4 6.2	2.7 2.9 2.7	10.1 10.2 9.4
2022	1.0	6.4	2.9	10.2
2023	0.5	6.2	2.7	9.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	0.1	0.1	16.2	16.4
1965	(s)	0.2	19.5	19.8
1970	(s)	0.3	25.5	19.8 25.8
1975	(s) (s) (s)	0.2 0.3	29.9 31.2	30.1 31.5 35.1 38.2 42.8 45.3
1980		0.3	31.2	31.5
1985	_	0.3	34.8	35.1
1990	_	0.3	37.9	38.2
1995 1996	_	0.3 0.4	42.4 44.9	42.8
1997		0.4	44.9 45.7	45.5 46.1
1998		0.4	46.8	46.1 47.1
1999	_	0.4	47.7	48.1
2000	_	0.4	49.8	48.1 50.2 49.1 49.7 51.1 52.3 53.4 52.9 54.2 52.2 47.8 52.2 50.6
2001	<del>-</del>	0.4	48.8	49.1
2001 2002	_	0.3 0.3	49.4 50.7	49.7
2003	_	0.3	50.7	51.1
2004	_	0.3	52.0	52.3
2005	_	0.2	53.1	53.4
2006	_	0.3	52.6 54.0	52.9
2007	_	0.3	54.0	54.2
2008 2009	<u> </u>	0.3 0.4	51.9 47.3	52.2 47.0
2010		0.4	47.3 51.8	47.0 52.2
2011		0.4	51.8 50.2	52.2 50.6
2012	_	0.3	48.7	49.0
2013	_	0.2	50.0	50.2
2014	_	0.2	50.9	49.0 50.2 51.1 52.2 53.4 54.0
2015	<del>-</del>	0.2	51.9 53.2	52.2
2016	_	0.2	53.2	53.4
2017	_	0.2	53.8	54.0
2018	_	0.2	54.6	54.8 56.0
2019	_	0.2	55.8	56.0
2020	_	0.3	49.5	49.8 54.5 54.6 56.1
2021 2022	_	0.3 0.4	54.3 54.2	54.5 54.6
2022	_	0.4	54.2 55.8	54.0 Ec.1
2023	_	0.3	55.6	50.1

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, North Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	13.7	0.3	(5)	14.0
1965	23.6	0.2	(s) (s)	23.7
1970	40.6	0.3 0.2 1.1	0.8	23.7 42.6
1975 1980	41.2 55.8	(s) 0.1	0.2 0.2	41.4 56.2 46.8
1980	55.8	0.1	0.2	56.2
1985 1990	46.6	(s) 0.2 0.3 0.2	0.2 0.2 0.2 0.2 0.3	46.8
1990	46.6 56.6	0.2	0.2	46.9 57.1 65.1 67.7
1995 1996	50.0 64.7	0.3 0.2	0.2 0.3	57.1 65.1
1997	67.2	0.2	0.3	67.7
1998	67.2 66.7	0.3 0.7	0.3	67.8
1999	66.1	0.7	0.2 0.3 0.3	67.1
2000 2001	70.1 67.4	0.7	0.5 0.4	71.4
2001	67.4	0.9	0.4	68.7
2002 2003	69.3	1.7	0.4	71.3
2003	69.4	0.8	0.5	70.7
2004 2005	70.4 73.8	1.1 1.5	0.3 0.2	71.8 75.4
2005	73.6 70.9	1.5 1.5	0.2	75.4 72.6
2006 2007	76.9 76.0	1.5 2.2	0.2 0.2	72.0 78.4
2008	72.6	1.9	0.2	74.7
2009	62.1	1.9 2.1	0.2	64.4
2010 2011	68.9	3.9 4.8	0.2	73.0 62.3
2011	57.4	4.8	0.2	62.3
2012	49.1	8.1	0.1 0.2	57.3 56.0 57.5
2013	45.1	10.8	0.2	56.0
2014 2015	46.0 37.0	11.1 14.7	0.4 0.3	57.5 52.1
2015	37.0 34.8	16.1	0.3	52.1 51.1
2016 2017	32.0	15.3	0.2	51.1 47.5
2018	29.9	18.0	0.5	48.4
2018 2019 2020	29.9 29.3 20.4	16.6	0.1	48.4 46.1 37.1
2020	20.4	16.6	0.1 0.1	37.1
2021	20.2	19.7	0.2 0.2	40.1
2022	14.6	25.3	0.2	40.1 36.1
2023	14.2	21.9	0.1	36.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
				<u> </u>
1960	2.9	1.4	6.7	11.0
1965	2.4	1.7	7.2	11.3
1970	2.4 5.5	1.8	7.5	14.7
1975	6.5	1.9	7.8	16.2
1980	15.5 28.7	1.3	8.6	25.4
1985	28.7	1.3	8.0	38.0
1990	35.6	1.5	7.6	44.6
1995	37.9 38.3	2.2 2.4	7.7	47.8 48.6
1996 1997	36.3 36.6	2.4	7.9	48.0 47.2
1997	38.9	2.6 2.4	7.9 7.3	47.3 48.5
1999	39.1	2.8	7.7	40.5
2000	40.4	2.8	7.8	51.0
2001	39.9	3.0	8.7	49.5 51.0 51.6
2002	40.2	3.2	8.1	51.5
2003	40.1 37.9	2.9	8.3	51.3 49.8 52.7
2004	37.9	3.0	8.9	49.8
2005	41.1	2.6	9.0	52.7
2006	39.5	2.6 3.0 3.2	8.8 9.6	51.0 52.7
2007	40.1	3.0	9.6	52.7
2008	40.5	3.2 2.7	9.5	53.1
2009 2010	40.3 39.1		8.5	51.0
2010	39.1 37.6	ა.4 ვი	10.1 12.5	52.5 54.0
2012	37.0	3.0	13.8	54.0 56.3
2013	37.5	4.3	15.0	56.9
2013 2014	38.8 37.5 38.1	3.4 3.8 3.8 4.3 4.7 5.2 5.5	16.1	51.6 52.5 54.0 56.3 56.9 58.9 57.5 54.5
2015	39.0	5.2	13.3	57.5
2016	39.0 37.7	5.5	11.3	54.5
2017	38.0	5.8	12.6	56.4
2018	39.0	6.7	13.1	58.8 56.7
2019	39.0 35.6	8.2	13.0	56.7
2020	34.8	9.4	11.3	55.5 56.2 57.4 54.3
2021	34.7	9.9	11.6	56.2
2022	35.4 31.2	10.3	11.7	57.4
2023	31.2	11.4	11.7	54.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

## 0

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

R —				
Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1060	0.5	0.0	0.0	1.6
1960 1965 1970	0.5 0.3 0.1 0.1	0.2 0.3 0.4 0.5 0.5 0.5 0.6 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.9 0.7	1.0 1./
1970	0.5	0.5	0.7	1.4
1975	0.1	0.5	0.9 0.6 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.7	1.2
- 1980	(s)	0.5	0.6	1.2
1985 1990	(s) 0.1 (s) (s) (s) (s) (s) (s) (s) (s)	0.5	0.5	1.1
1990	(s)	0.4	0.6	1.0
1995	(s)	0.5	0.5	1.0
1995 1996 1997	(S)	0.6	0.6	1.2
1002	(8)	0.0 0.5	0.6 0.5	1.2 1.0
1998	(3)	0.5	0.5	1.0
2000	(s)	0.5	0.7	1.2
2001	(s)	0.5	0.7	1.2
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	(s)	0.5	0.6 0.7 0.7	1.2
2003	(s)	0.5	0.7	1.2
2004	(s)	0.5	0.7	1.3
2005	(s)	0.5	0.6 0.5 0.5 0.7	1.2
2006	(S)	0.4	0.5	1.0
2007	(s)	0.5 0.6	0.5 0.7	1.1 1.2
2000		0.0	0.7	1.2
2010	_	0.5	0.5	1.0
2011	_	0.6	0.5	1.0
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	_	0.6 0.5 0.6 0.5 0.6 0.7	0.5 0.5 0.5 0.5 0.4	0.9
2013	_	0.6	0.4 0.5 0.4 0.4	1.1
2014	_	0.7	0.5	1.1
2015	<del>-</del>	0.6	0.4	1.0
2010	<del>-</del>	C.U	0.4	1.0
2017	_	0.6 0.5 0.6 0.7 0.7	0.4 0.5 0.6	1.0
2019	_	0.7	0.5	13
2020 2021 2022 2023	_	0.6	0.4	1.6 1.4 1.4 1.2 1.2 1.2 1.1 1.0 1.0 1.0 1.0 1.1 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.1 1.1
2021	_	0.6 0.7	0.5 0.5 0.5	1.0
2022	_	0.7	0.5	1.2
2023	_	0.7	0.5	1.2

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Teal	COdi	ivaturai gas ~	renoieum ~	Total
1960	0.3	0.2	0.2	0.7
1965	0.3 0.2	0.3	0.3	0.8
1965 1970	0.1	0.5	0.3	0.8 0.8 1.2 1.3 0.9 0.7
1975	0.1	0.7	0.4	1.2
1980	0.1	0.6	0.5 0.3	1.3
1985	0.2	0.5	0.3	0.9
1990	0.1	0.4	0.1	0.7
1995	0.1	0.5	0.1	0.8
1996 1997	0.2	0.6	0.1 0.2	0.9
1998	0.1 0.2 0.2 0.1	0.5 0.5	0.2	0.8 0.9 0.9 0.9
1990	0.1	0.5	0.2	0.0
1999 2000	0.2 0.2 0.2 0.2 0.2 0.4 0.4	0.5 0.5	0.2	0.8 0.9 0.9 0.9 0.9 1.0 1.0 0.8 1.0 0.9 0.9 0.9 1.3 1.2 1.5 1.5 1.5
2001	0.2	0.5	0.2 0.2	0.9
2002	0.2	0.5 0.5 0.5 0.5	0.2 0.2 0.1	0.9
2003 2004	0.2	0.5	0.2	0.9
2004	0.4	0.5	0.1	1.0
2005	0.4	0.5	0.2	1.0
2006	0.2 0.4 0.2 0.2	0.4	0.2	0.8
2007	0.4	0.5 0.5	0.2	1.0
2008	0.2	0.5	0.2	0.9
2009 2010	0.2 0.1	0.5 0.5	U.2 0.2	0.9
2010	0.1	0.5	0.3 0.6	13
2011	0.1	0.0	0.0	1.0
2013	0.1	0.5 0.5 0.6 0.5 0.7	0.7	1.5
2011 2012 2013 2014	0.1 0.1 0.1	0.7	0.2 0.2 0.2 0.2 0.3 0.6 0.5 0.7	1.5
2015 2016	0.1	0.7	0.3 0.3 0.3	1.1
2016	0.1	0.6	0.3	1.0
2017 2018	0.1	0.7	0.3	1.1
2018	0.1	0.8	0.3 0.3	1.1
2019	0.1	0.8	0.3	1.2
2020	0.1	0.8	0.4	1.1 1.2 1.2 1.2 1.4 1.3
2021	(s)	0.7	0.4	1.2
2022 2023	(s) (s) (s)	0.9 0.9	0.4 0.4	1.4
2023	(S)	0.9	0.4	1.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.7	10	26	4.4
1965	0.6	1.0 1.1	2.8	4.5
1970	0.6 0.7	0.8 0.7	2.5	4.0
1975	0.7 0.7 6.7 8.2 9.4 8.5 8.1 8.4 8.3 9.0 8.8	0.7	2.6 2.8 2.5 2.3 2.3 2.3 2.3 2.2 2.2	4.4 4.5 4.0 3.7 3.1 9.3 11.0 12.5 11.6 11.5 11.6
1980	0.7	0.1 0.4	2.3	3.1
1985 1990 1995	6.7	0.4	2.3	9.3
1990	8.2	0.5 0.9 1.0	2.3	11.0
1995	9.4 8.5	0.9 1.0	2.2	12.5 11.6
1996 1997	8.1	1.4	2.0	11.5
1998	8.4	1.4	2.0 1.9	11.6
1998 1999	8.3	1.3	1.8 2.0 2.5	11.4
2000 2001	9.0	1.2	2.0	12.1
2001	8.8	1.4 1.4 1.3 1.2 1.3 1.4	2.5	12.5
2002	8.6	1.4	2.0	12.1
2003	0.9 7.0	1.1 1.2	2.1 2.4	Z.     11
2002 2003 2004 2005	8.6 8.9 7.9 8.7	1.2 0.9	2.0 2.1 2.4 2.6	12.1 12.5 12.1 12.1 11.6 12.3
2006	9.0	1.0	2.6	12.6
2007	8.7	1.0 1.2	2.6	12.5
2006 2007 2008	8.7	1.4	2.6 2.6 2.9	12.6 12.5 13.0
2009	8.9	1.1	2.4 3.4 4.5	12.5 14.0 15.2
2010	9.1	1.6	3.4	14.0
2010 2011 2012	8.8	1.9	4.5	15.2 15.0
2012	9.0 8.7 8.7 8.9 9.1 8.8 8.9 8.4 8.9 9.1 9.0	1.6 1.9 1.9 2.1	4.9 5.6	15.8 16.1 17.3
2013	8.9	2.1	6.1	17.3
2014 2015	9.1	2.3 2.8	4.3	16.3
2016	9.0	2.9 3.1	3.4	16.3 15.2 16.4
2017	9.0	3.1	4.3	16.4
2018 2019	9.1 8.0 8.2	3.6	4.4 4.3	17.1 16.4
2019	8.0	4.1	4.3	16.4
2020	8.2 8.1	5.6 5.7	3.6 4.0	17.5 17.8
2021	0.1 8.1	6.0	4.0	17.0 18.1
2021 2022 2023	8.1 6.6	6.3	3.9	18.1 16.8
		0.0		

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		,		
1960	(s)	(s)	2.9	2.9
1965	(s) (s) (s)	(s) (s) (s)	2.9 3.3 3.9 4.5 5.2 4.8 4.5 4.8 4.9 5.0 4.7	3.4
1970	(s)	(s)	3.9	3.9
1975 1980	(s)	(s)	4.5	4.5
1980		(s) (s) 0.1	5.2	5.2
1985	_	(S)	4.8 4.5	4.9
1990 1995	_	0.1	4.5 4.9	4.0 5.1
1996	_	0.3 0.3 0.3 (s) 0.5 0.6 0.7	4.0	5.1 5.2
1997	_	0.3		5.2 5.3
1997 1998	_	(s)	4.7	4.7
1999	_	0.5	5.1	5.6
1999 2000	_	0.6	5.0	5.6
2001	_	0.7	5.3	6.0
2001 2002 2003 2004 2005 2006 2007	_	0.8 0.8 0.8 0.8	5.0 5.3 5.2 5.4 5.6 5.5 6.3 5.6 5.4 5.9 7.0	6.0
2003	_	0.8	5.4	6.1
2004	_	0.8	5.6	6.3
2005	<del>-</del>	0.7	5.5	6.2
2006	_	0.7 0.7	5.5	0.2
2007		0.7	0.3 F.6	/.l
2000		0.6 0.5	5.0 5.1	0.3 5.0
2010	<u> </u>	0.8	5. <del>4</del> 5.9	6.7
2008 2009 2010 2011	_	0.8	7.0	7.8
2012	_	0.9	7.9	8.8
2012 2013	_	0.9 0.8	7.9 8.3 8.9 8.3	9.1
2014	<del>-</del>	0.9	8.9	9.8
2015	_	0.8 0.8 1.1	8.3	9.1
2016 2017	_	0.8	7.3	8.1
2017	_	1.1	7.6	2.9 3.4 3.9 4.5 5.2 4.9 4.6 5.1 5.2 5.3 4.7 5.6 6.0 6.0 6.0 6.1 6.3 6.2 6.2 7.1 6.3 5.9 6.7 7.8 8.8 9.1 9.8 9.1 9.8 9.1 8.1 8.6 9.2 9.5 8.4 8.8 8.8
2018	_	1.2	8.0	9.2
2019	_	1.7	8.0 7.8 6.8 6.7	9.5
2020 2021 2022	_	1.6 2.0	6.8 6.7	8.4
2021 2022	_	2.0	6.7	0.0 0.0
2022	_	2.0	6.8	0.0 Q Q
2020	_	2.0	0.0	0.9

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, North Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
Teal	Coai	Natural yas ~	retioleum ~	Total
1960	1.3	(s)	(s)	1.3 1.3 4.6 5.6 14.7 21.7
1965	1.3	(s)	(s)	1.3
1965 1970	1.3 1.3 4.6	(s)	(s)	4.6
1975 1980	5.6 14.6 21.7 27.2	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s)	5.6
1980	14.6	(s)	(S)	14.7
1985 1990	21.7	(s)	(s)	21.7
1990	27.2	(s)	(s)	27.3
1995	28.4	(S)	(s) (s) 0.1	28.4 29.7
1996	29.6	(S)	0.1	29.7
1997	28.3 30.3	(S)	0.1	20. <del>4</del> 30.3
1999	30.5		(s) (s)	30.5
1998 1999 2000	30.6 31.2	_	(s)	31 2
2001	30.9	(s)	(s)	30.9
2002 2003 2004 2005	30.9 31.3 30.9 29.6 31.9 30.3	(s)	(s)	28.4 30.3 30.6 31.2 30.9 31.4 30.9 29.6 32.0
2003	30.9	(s)	(s)	30.9
2004	29.6	(s)	(s)	29.6
2005	31.9	(s)	(s)	32.0
2006 2007 2008 2009	30.3	(s)	(s)	30.4
2007	31.0	(s)	(s)	31.0
2008	31.0 31.6 31.3 29.8 28.7	(S)	(s)	31.7
2009	31.3	(S)	(s)	31.3
2010 2011	29.8 20.7	(S)	(s)	29.9 20.7
2011	20. <i>1</i> 20.7	(S)	(s) (s)	20.7 20.7
2012	29.7 29.0	(3)	(s)	29.7
2012 2013 2014 2015 2016 2017	29.7 29.0 29.1 29.7	0.1	(s)	31.0 31.7 31.3 29.9 28.7 29.7 29.0 29.2
2015	29.7	0.3	(s)	30.1
2016	28.6	0.6	(s)	29.2
2017	28.9	0.4	(s)	29.3
2018 2019 2020	29.8 27.5 26.5	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s)	30.1 29.2 29.3 30.3 28.3 27.4
2019	27.5	0.8	(s)	28.3
2020	26.5	0.8	(s)	27.4
2021 2022	26.5 27.2	0.8 0.7 1.5	(s)	27.4
2022	27.2	0.7	(s) (s)	27.9 26.1
2023	24.6	1.5	(S)	26.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Ohio (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	- Cour	ratarar gas	1 cuolcum	Total
1960	119.3	38.0	53.1	210.4
1965	124.6	47.6	61.5	233.7
1970	147.9	56.5	71.2	275.5
1975	152.6	51.3	80.6	284.5
1980	144.1	44.1	82.8	271.0
1985	131.5	38.8	70.0	240.3
1990	135.1	40.7	71.6	247.4
1995	130.9	48.3	73.5	252.7
1996	137.3	50.6	77.6	252.7 265.6 261.3
1997	133.5	49.1	78.8	261.3
1998	137.7	44.0	79.0	260.7
1999 2000	131.4 135.9	45.6 48.5	82.8 82.3	259.8
2000	129.6	43.8	62.3 83.5	266.8 256.9
2001	133.1	45.2	84.3	250.9 262.7
2002	137.7	46.2	86.7	270.6
2004	132.7	45.4	87.7	265.8
2005	141.3	45.3	85.3	272.0
2006	138.2	40.5	86.6	265.3
2007	139.5	43.9	87.9	265.3 271.2
2008	137.1	43.2	84.4	264.7
2009	120.8	40.5	78.2	239.5 247.2 234.9
2010	129.1	42.6	75.4	247.2
2011	116.4	44.7	73.8	234.9
2012	96.9	45.8	72.1	214.8 227.6
2013	105.0	49.8	72.8	227.6
2014	100.6	55.7	73.2	229.4
2015	82.4	53.9 51.9	74.3	210.6
2016	78.5	51.9	74.0	204.5
2017	77.2	53.0	74.1	204.3 208.2
2018 2019	68.3 56.4	64.7 66.0	75.3 73.7	208.2 196.1
2019	53.0	64.6	67.4	185.0
2020	53.0 54.8	67.8	70.8	100.U 102./
2022	54.6 51.4	74.5	70.6 70.4	193.4 196.3
2023	39.3	74.3	69.0	184.2
	00.0	10.0	00.0	104.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Ohio (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
	1	-	I	
1960	4.6	19.9	4.3	28.8
1965	4.6 2.9	22.6	4.3 5.4	30.9
1970	2.0	24.9	6.2	28.8 30.9 33.1
1975	0.7	23.2	6.7	30.6
1980	0.3 0.4 0.3	19.6	4.2 3.2 3.3 3.2	24.0 21.1 20.6 23.0 24.3
1985	0.4	17.5	3.2	21.1
1990	0.3	17.0	3.3	20.6
1995	0.1	19.7	3.2	23.0
1996	0.2	20.6	3.6	24.3
1997	0.1	19.6	3.3 2.9	23.0
1998	0.1	16.3	2.9	19.3
1999	0.1	17.5	3.8	21.3
2000	0.1	19.0	3.0	22.1
2001	0.1	17.0	2.4	19.5
2002	0.1	17.7	2.8	20.6
2003	0.1	18.8	3.1	22.0
2004	0.1	17.8	2.8	20.7
2005	0.1	17.8	2.6	20.5
2006	(s) (s)	15.0	2.2	17.2
2007	(S)	16.5	2.4 2.3	18.9 19.2
2008		16.9	2.3	19.2
2009	_	16.1	2.3	18.4
2010	_	15.6	2.1	17.6
2011	_	15.7	1.9	17.6
2012	_	13.8	1.5	15.3
2013 2014	_	16.3	1.6 1.8	18.0 19.8
2014	_	18.0 16.1	1.8	19.8
2015	_	14.5	1.7	17.6
2016	_	14.5	1.0	16.4
2017	_	17.0	1.7	18.8
2019		16.4	2.0	18.4
2019	_	15.4	2.0	17.1
2020		15.5	1.7	17.1
2021	_	16.6	1.0 1 0	17.2 10.7
2022	_	14.6	1.9 1.7	18.4 16.3
2020	_	14.0	1.7	10.5

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Ohio

(million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	3.2	5.9	1.9	11.1
1965	2.2	6.9	1.9 2.0	11.2
1970	1.6	9.9	1.6	13.1
1975	3.2 2.2 1.6 1.7	9.9 9.2	22	13.1
1980	1.0 1.5 1.2 0.8	8.3 7.7	2.2 1.5 1.5	11.5
1985	1.5	7.7	1.5	10.7
1990	1.2	7.9	1.5	10.6
1995	0.8	9.6	1.2	11.6
1996	1.3	10.4	1.1	12.8
1997	0.7	10.2	1.7	12.5
1998	0.8	8.6	1.1	10.6
1999	0.4	9.2	1.2	10.9
2000	0.4	9.8	1.3	11.6
2001	0.5	9.5	1.2	11.1
2002	0.7	9.0	1.4	11.1
2003	0.4	9.9	1.2	11.5
2004	0.8 0.7	9.4	1.3	11.6
2005	0.7	9.2	1.1	11.0
2006	0.2	8.1 8.8	1.1 1.2	9.4
2007 2008	0.2 0.3 0.6	8.8 9.2	1.2	10.3 11.1
2008	0.6	9.2 8.9	1.2	10.9
2009	0.6	8.9 8.6	1.4	10.9
2010	0.6 0.5	o.o 8.8	1.4 1.3	10.5
2012	0.3	8.0	1.3	9.6
2012	0.3	9.2	1.2	10.8
2013	0.4	10.3	1.1	11.7
2015	0.2	9.4	2.1	11.7
2016	0.1	8.7	2.1	10.9
2017	(s)	8.9	2.2	11.1
2018	(5) —	10.1	2.2	12.3
2019	<u> </u>	10.0	2.3	12.3
2020		9.2	2.4	11.5
2021	_	9.6	2.3	11.9
2022	_	10.3	2.4	11.9 12.7 11.7
2023	_	9.4	2.3	11 7
		011	2.0	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Ohio (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	04.7	44.0	40.0	07.0
1960 1965	61.7 63.4	11.6 17.4	13.9 16.1	87.2 96.9
1970	68.6	19.7	15.8	104.2
1975	51.5	18.1	16.5	86.1
1980	37.3	15.4	20.0	72.7
1985	24.6	13.1	11.9	49.6
1990	23.2	15.1	10.6	49.0
1995	15.2	17.6	10.7	43.6 43.2
1996 1997	13.3 13.2	18.3 18.0	11.7 10.7	43.2
1997	13.2	17.6	10.7	41.9 41.6
1999	12.3	17.0	11.7	41.3
2000	10.4	18.1	9.7	38.2
2001	10.6	15.8	12.0	38.4
2002	8.0	16.3	11.7	36.1
2003	8.8 8.7 9.3	15.6	12.5	36.9
2004	8.7	16.4	11.3	36.3
2005	9.3	15.9	10.1	35.3
2006 2007	10.3	15.5	10.9	36.9 36.3 35.3 36.7 38.1
2007	10.3 10.2	15.8 15.2	12.0 12.6	38.0
2009	8.5	12.5	11.1	32.2
2010	11.0	14.4	10.4	35.8
2011	10.6	14.3	9.9	34.8
2012	12.4	14.2	10.2	36.8
2013	12.7	14.7	10.3	37.7 39.2
2014	12.7	16.9	9.7	39.2
2015	12.0	15.5	9.9 10.3	37.4
2016 2017	10.4	15.8	10.3	36.4
2017	10.2 10.5	16.1 17.9	10.6	36.9 38.8
2019	10.5	17.9	10.4	30.8
2020	8.6	16.5	9.6	34.8
2021	9.7	17.9	9.7	37.4
2022	8.5	17.9	9.4	35.9 36.0
2023	8.9	18.3	8.8	36.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Ohio (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	1.0	0.5	32.0	34.4
1965	0.2	0.5	32.9 37.8	34.4 38.6 47.7
1965 1970	0.1	0.7	46.9	47.7
1975	(s)	0.5	53.5 55.3	54.0 55.9
1980		0.6	55.3	55.9
1985	_	0.5	53.1	53.6
1990	<del>-</del>	0.6	55.9	56.4
1995	_	1.0	58.1	59.1
1996	<del>-</del>	1.1	61.1	62.2
1997 1998		1.1 1.0	62.9 63.8	64.0 64.8
1999		1.0	65.6	66.6
2000		1.0	68.0	69.0
2001	_	0.9	68.0 67.6	69.0 68.5
2002	<del>-</del>	0.9	68.1	69.1
2003	_	0.9	69.5	70.3
2004	_	0.7	70.8	71.6
2005	_	0.8	70.2	71.6 70.9
2006	_	0.7	71.0	71.7
2007	<del>-</del>	0.8	71.2	72.0
2008	_	0.6	67.0	67.6
2009	<del>-</del>	0.9	62.1	63.0
2010 2011	_	0.9 0.8	60.3 59.3	61.1
2011	_	0.6	59.3 57.5	60.1 58.0
2012		0.5	57.5 58.0	50.0 58.6
2014	_	0.6 0.9 1.2	58.0 59.1 59.0 58.6 58.4	58.6 60.0
2015	_	1.2	59.0	60.1
2016	_	1.1	58.6	59.6
2017	_	1.7	58.4	60.0
2018	_	1.6	59.0	60.6
2019 2020	_	1.8 2.6	58.4	60.2
2020	_	2.6	52.1	54.6
2021	<del>-</del>	3.0	55.5	58.4
2022	_	3.1	55.2	58.3 57.8
2023	_	3.0	54.8	57.8

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Ohio (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	48.7	0.2	0.1	49.0
1965	55.9	0.2	0.1	56.1
1970	75.6	1.2	0.7	77.4
1975	98.7	0.3	1.7	100.7
1980	105.6	0.2	1.0	106.9
1985	104.9	(s) 0.1	0.3	105.3
1990	110.5	0.1	0.3	110.8
1995	114.7	0.4	0.3	115.4
1996	122.5	0.2	0.3	122.9
1997	119.5	0.2	0.2 0.3	120.0
1998	123.6	0.4	0.3	124.4
1999	118.6	0.6	0.4	119.6
2000	125.0	0.5	0.4	125.9
2001	118.5	0.6	0.3	119.4 125.8
2002	124.3	1.2	0.3	125.8
2003	128.5	1.0	0.4	129.9 125.6
2004	123.2	1.0	1.4	125.0
2005	131.3	1.5	1.4	134.2
2006 2007	127.6 128.8	1.3	1.3	130.2
2007	128.8	2.0 1.3	1.1	132.0 128.9
2008	120.2	2.1	1.3 1.2	128.9
2009	111.7	3.2	1.2	122.1
2010	105.3	5.2 5.1	1.4	111.8
2011	84.2	9.3	1.6	95.1
2012	92.0	9.3 8.8	1.0	90.1 102.6
2013	87.6	9.7	1.7	102.6 98.7
2015	70.2	11.7	1.6	83.4
2016	68.0	11.9	1.4	81.4
2017	67.0	11.6	1.3	79.9
2018	57.8	18.1	1.8	77.6
2019	46.0	20.4	1.1	67.5
2020	44.4	21.0	1.6	67.0
2021	45.1	21.8	1.5	68.4
2022	42.8	26.6	1.6	71.0
2023	30.4	30.5	1.4	62.3
	00.1	00.0		02.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	0.0	10.7	40.7	00.0
1960 1965	0.2 0.1	16.7 25.0	16.7 18.8	33.6 43.9
1905	0.1 (e)	32.3	23.2	43.9 55.5
1975	(s) 0.1	35.6	26.7	62.4
1980	10.1	38.8	28.1	77.0
1985	22.5	31.6	29.8	83.9
1990	26.5	32.8	28.7	88.0
1995	35.1	30.6	28.9	94.6
1996	35.4	30.7	31.2	97.3
1997	37.3	29.9	31.4	98.6
1998	35.2	30.5	31.5	97.2
1999	34.3	28.8	33.0	96.0
2000	36.3	28.6	35.3	100.1
2001	35.8	26.4	39.2	101.5
2002	37.3	27.4	36.8	101.5
2003	37.6	29.2	37.3	104.2
2004	35.6	29.2	34.8	99.6
2005	38.0	31.6	36.6	106.1
2006 2007	36.7 35.6	33.9 35.6	38.1 38.3	108.7 109.4
2007	35.6 37.4	35.0 37.3	36.3 37.3	112.0
2009	37.4 35.6	37.3 35.8	37.3	106.2
2010	33.0	33.6 36.7	36.2	105.2
2011	36.1	35.6	35.2	106.9
2012	31.2	37.4	36.0	104.7
2013	32.1	35.8	34.9	102.8
2014	32.1	35.0	37.2	104.3
2015	26.8 21.2	37.0	36.0	99.9 95.5
2016	21.2	38.3	36.0	95.5
2017	19.0	36.0	38.0	92.9
2018	16.4	43.9	37.8	98.1 91.1
2019	9.0	45.5	36.6	91.1
2020	6.8	44.0	33.0	83.8
2021	12.6	38.8	36.1	87.5
2022	10.2	40.2	36.4	86.8
2023	6.1	44.8	36.0	86.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1060	0.1	2.2	1.0	4.2
1960 1965	(s)	3.5 3.5	1.0 1.1	4.3 4.7
1970	(s)	4.2	1.4	5.7
1075	(s) (s)	3.3 3.5 4.2 4.2 4.1 4.1 3.6 3.7 4.2	1.4	5.6
1980 1985 1990 1995 1996	(s) (s) (s)	4.1	0.4 0.5 0.3 0.3	4.5
1985	(s)	4.1	0.5	4.7
1990	(S) (S)	3.6	0.3	3.9
1995	(5)	3.7 4.2	0.3	4.0
1997	(s) 0.1	3.8	0.4	4.3
1998	(s)	3.8 3.5	0.4 0.4	3.9
1999 2000	(s) (s) (s) (s) (s)	3.3 3.6	0.6	3.9
2000	<del></del>	3.6	0.6	4.2
2001	(s)	3.5 3.7	0.6	4.1
2002	(S)	3.7	0.7	4.4
2003	(S)	ა.ი ვვ	0.6 0.5	4. I 3. Q
2002 2003 2004 2005		3.6 3.3 3.2	0.6 0.5 0.5 0.5 0.6 0.5	3.7
2006 2007 2008 2009	(s) (s) (s)	2.9	0.5	3.4
2007	(s)	3.3	0.6	3.9
2008	<u>~</u>	3.6	0.5	4.2
2009	_	3.4	0.5	3.9
2010	_	3.6	0.5 0.5	4.1
2011	_	3.4	0.5 0.4	3.8
2010 2011 2012 2013 2014		2.9 3.3 3.6 3.4 3.6 3.4 2.7 3.6 3.8 3.3 2.8	0.4 0.5	3.0 A 1
2013	_	3.8	0.5 0.5	4.1
2015	_	3.3	0.4	3.7
2016	_	2.8	0.4	3.2
2017	_	2.8	0.4	3.3
2018 2019	_	3.7 3.7	0.5	4.2
2019	_	3.7	0.5 0.5 0.5 0.5 0.5 0.5	4.3 4.7 5.7 5.6 4.5 4.7 3.9 4.0 4.6 4.3 3.9 3.9 4.2 4.1 4.4 4.1 3.8 3.7 3.4 3.9 4.2 3.9 4.2 4.1 4.1 4.3 3.9 4.2 4.1 4.1 3.8 3.7 3.4 3.9 4.2 3.9 4.2 4.1 4.1 3.8 3.7 3.4 3.9 4.2 3.9 4.2 4.1 3.9 4.2 4.1 3.8 3.7 3.4 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.2 3.9 4.1 3.8 3.7 3.8 3.9 4.1 3.8 3.0 4.1 3.8 3.0 4.1 4.1 3.8 3.0 4.1 3.8 3.0 4.1 4.3 3.8 3.0 4.1 4.3 3.8 3.0 4.1 4.3 3.8 3.0 4.1 4.3 3.0 4.1 4.3 3.0 4.1 4.3 3.0 4.1 4.3 3.0 4.1 4.2 3.2 3.3 4.2 3.3 3.0 4.1 3.3 3.0 4.1 4.2 3.3 3.0 4.1 3.3 3.7 3.2 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 4.2 3.3 3.3 4.2 3.3 3.3 4.2 3.3 3.3 3.3 4.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3
2020 2021 2022 2023	<del>-</del>	3.3 3.5 3.3 3.3 3.2	0.5	3.8
2021		৩.৩ ৫ ৫	0.5 0.5	4.0 จ ฉ
2023		3.3	0.5	3.7
_0_0		O.E	0.0	0.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s)	1.6 1.5	0.5 0.6	2.1
1965	(s)	1.5	0.6	2.1
1970 1975	(s)	2.4 2.2 2.5 2.2 2.0	0.6 0.7	3.0
1975	(s) 0.1 (s) (s)	2.2	0.7	2.9
1980	0.1	2.5	0.3	2.9
1985	(s)	2.2	0.3 0.5 0.5 0.2 0.3	2.8
1990 1995	(s)	2.0	0.5	2.5
1995	(s)	2.1 2.5	0.2	2.3
1996	(s)	2.5	0.3	2.8
1997	(s) (s) 0.4 (s) (s)	2.4 2.3	0.3 0.4	3.2
1998	(S)	2.3	0.4	2.7
1999	(S)	2.1 2.3	0.3	2.4
2000		2.3	0.2	2.6
2001	(s) (s) (s)	2.2	0.4	2.6
2002	(S)	2.2 2.0	0.3 0.2 0.3 0.3	2.5
2003 2004	(S)	2.0 2.0	0.2	2.3
2004		2.0	0.3	2.3
2005	(s) (s) (s)	Z. I 1. O	0.3	2.4
2006	(8)	1.9 2.2	0.3 0.4	2.2
2007	(5)	2.2 2.2	0.4	2.0
2009	_	2.2 2.3 2.3 2.2 2.0 2.4	0.4	2.7
2010	_	2.3 2.2	0.5	2.1
2010	_	2.0	0.4	2.7
2011 2012 2013	<u> </u>	2.2	0.4	2.0
2012	_	2.0	0.4	2.7
2014	_	2.6	0.4	3.0
2015		2.3	0.8	3.1
2016	_	2.1	0.8	2.9
2017	_	2.1	0.8	2.9
2018	_	2.6	0.7	2.1 2.1 3.0 2.9 2.9 2.8 2.5 2.3 2.8 3.2 2.7 2.4 2.6 2.6 2.5 2.3 2.3 2.4 2.2 2.6 2.7 2.7 2.7 2.7 2.6 2.7 2.7 2.7 2.9 3.0 3.1 2.9 2.9 3.2 3.5 3.1 3.1 3.1 3.3 3.3
2019	_	2.7	0.8	3.5
2020	_	2.3	0.8	3.1
2020 2021 2022	_	2.3 2.4	0.8 0.8 0.8 0.7	3.1
2022	_	2.5	0.8	3.3
2023	<del>-</del>	2.4	0.7	3.2
		<del>-</del>	•	V.=

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	6.8	5.3	12.2
1965	(s)	12.4	5.1	17.6 17.3
1970	(s) 0.5	11.6	5.7	17.3
1975	(s)	11.4	6.6	18.0
1980	0.5	12.6	7.0	20.1
1985 1990	1.7	12.8 16.1	6.2 5.5	20.8
1990	1.2 3.1	14.3	5.5 4.9	22.8 22.4 21.5
1996	1.5	14.3	4.9 5.6	22.4
1997	1.5	14.8	5.6 5.8 5.2	22.1
1998	1.5	13.4	5.2	20.1
1999	1.6	12.3	5.3 5.2 6.3	19.2
2000	1.3	12.0	5.2	18.5 17.6 17.1
2001	1.4	9.9	6.3	17.6
2002	1.4	9.6	6.1	17.1
2003 2004	1.3	11.2	6.5 6.7	19.0
2004	1.4	11.3	6.7	19.0 19.4 19.6
2005	1.5	11.2	6.9	19.6
2006	1.4	12.1	7.5 6.6	21.0
2007 2008	1.5 1.4	12.9 14.4	6.2	21.0 20.9 22.0
2009	1.4	12.9	0.Z 5.1	22.U 10.1
2010	1.1	13.2	5.1 5.7	20.1
2010	1.2 1.1	13.8	5.7	20.1
2011 2012	1.1	13.6	6.7	21.4
2013	1.2	13.8	6.5	21.5
2013 2014	1.2 1.3	14.5	6.5 6.7	19.1 20.1 20.6 21.4 21.5 22.5 21.7
2015	1.1	14.7	6.0 6.3	21.7
2016	1.1	15.3	6.3	22.7 24.1
2017	0.8	15.6	7.6	24.1
2018	0.7	16.7	7.2 6.8	24.6 24.1
2019	0.5	16.8	6.8	24.1
2020	0.4	17.0	5.6	23.0
2021	0.3 0.4	16.1 16.2	6.6 6.8	23.0
2021 2022 2023	0.4	17.1	6.5	23.0 23.4 23.9
2020	0.3	17.1	0.3	20.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Voor	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
Year	Coai ~	Natural gas "	Petroleum °	Total
1960	(s)	0.5	10.0	10.5
1965	(s) (s)	0.7	11.9	12.6
1970	<del>-</del>	1.2	15.5	16.7
1975	(s)	1.3 1.2	18.1	19.3 21.5
1980 1985		1.2	20.3 22.4	21.5
1990	_	1.4	22.4	23.0
1995	_	1.7	23.4	25.1
1996	<del>-</del>	1.8	24.8	23.7 25.1 26.6 26.3 26.9 28.1
1997	_	1.4	24.9	26.3
1998	_	1.3	25.6	26.9
1999	_	1.3	26.8	28.1
2000	_	1.2	29.2 31.8	30.3
2001 2002		1.3	31.8 20.6	აა. I ვი ი
2003	<del>-</del>	1.3 1.7	29.6 30.0 27.3	31.7
2004	_	1.7	27.3	29.0
2005	<del>-</del>	1.7	28.9	30.3 33.1 30.9 31.7 29.0 30.6
2006	_	1.7	29.9	31.6 32.1
2007	_	1.6	30.6	32.1
2008	_	1.5	30.2	31.8
2009 2010	_	1.6 1.7	28.8 29.5	30.4 31.2
2010		1.7	29.5	30.3
2012	_	1.8	28.5	30.4
2012 2013	_	2.3	27.5	29.9
2014	<del>-</del>	2.6	29.7	29.9 32.3
2015	_	2.6	28.8	31.4
2016	<del>-</del>	2.8	28.5	31.3
2017	_	2.8	29.1	31.9
2018 2019	_	3.2 3.2	29.4 28.5	32.6 31.7
2019		3.2 2.5	26.5 26.1	28.6
2021	<del>-</del>	2.4	28.2	30.6
2022	_	2.4	28.3	30.7
2023	_	2.6	28.3	30.9

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Oklahoma (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s)	4.5	(s)	4.6
1965	(S) (S)	6.9	(s)	6.9
1970	(s)	12.8	(s) 0.1	12.9
1975	(s) (s) 9.5 20.8	16.6	(s)	4.6 6.9 12.9 16.6 27.9 32.0
1980	9.5	18.3	(s)	27.9
1985	20.8	11.1	(s)	32.0
1990 1995	25.3 32.0	9.7 8.8	(s) 0.1	35.1 40.9 41.8
1995	32.0	6.6 7.8	0.1	40.9 41.8
1997	35.3	7.0 7.4	(s)	41.0
1998	35.3 33.6 32.7	7.4 9.9 9.6 9.6	(s)	42.8 43.5 42.4
1999	32.7	9.6	(s)	42.4
2000	34.9	9.6	(s) 0.1	44.6
2001	34.5 36.0 36.3	9.5	0.1	44.1 46.6
2002 2003	36.0	10.6	(s) 0.1	<u>46</u> .6
2003	36.3	10.7	0.1	47.1
2004 2005	34.1 36.5	10.9 13.2	(s)	45.1 49.8
2005	35.3	15.2	(s)	49.6 50.5
2007	33.3	15.6	(s) 0.1	30.3 49.9
2008	36.0	15.5	(s)	49.9 51.5
2009	34.5	15.6	(s)	50.1
2010	31.9	15.9	(s)	50.1 47.7
2011	35.0	14.5	(s)	49.5
2012	30.2	17.3	(s)	47.5
2013	30.9	13.6	(s)	44.5 42.3 39.9 35.5 30.7
2014 2015	30.8 25.7	11.4 14.1	(s)	42.3
2015	25.7	15.4	(s) (s)	39.9 35.5
2017	18.1	12.6	(S) (S)	30.3 30.7
2018	15.7	17.8	(s)	33.5
2019	8.5	19.1	(s)	27.6
2020	6.4	18.9	(s)	33.5 27.6 25.3
2021	12.3	14.4	(s)	26.7 25.5 25.3
2022	9.8	15.7	(s)	25.5
2023	5.8	19.5	(s)	25.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			L	
1960	0.9	1.7	14.3	16.8
1965	0.9 0.7	3.1	17.0	16.8 20.8
1970	0.3	5.2	20.2	25.6
1975	0.3 0.3 1.1	6.0	20.5	26.8
1980	1.1	4.3	22.8	28.2
1985	1.0 1.5 1.9	4.3 4.5 5.8	21.4	26.8 28.2 26.8 30.8 34.1 36.2
1990	1.5	5.8	23.5	30.8
1995	1.9	7.9	24.3	34.1
1996	1.9	9.8	24.5	36.2
1997 1998	1.6 3.4	10.1 12.5	24.2 25.7	35.9
1998	3.4	12.5	25.7 26.6	41.6 43.2
2000	3.7	12.9	25.7	43.2 41.5
2001	4.1	12.1	24.2	40.7
2002	36	10.8	24.7	39.1
2003	43	11.3	24.2	39.8
2004	3.5	12.5	24.7	40.8
2005	3.6 4.3 3.5 3.4	12.6	25.1	41.1
2006	2.6 4.3 4.0	12.1	25.7	40.3
2007	4.3	13.7	25.6	43.7
2008	4.0	14.5	24.2	42.6
2009	3.2	13.4	24.1	40.7
2010	4.1	12.8	23.7	40.5 36.8
2011	3.4	10.7	22.7	36.8
2012	4.1 3.4 2.7 3.7	11.6	22.1	36.4
2013 2014	3./	12.9	22.2 22.4	38.7 37.6
2014	3.3 2.5	11.9 12.9	22.4	37.6 37.6
2015	2.5 1.9	13.1	22.1	37.6 37.2
2017	1.8	13.8	22.7	38.3
2018	1.0	14.2	23.2	30.0
2019	1.6 2.6	15.9	22.7	39.0 41.2
2020	1.7	14.8	20.2	36.8
2021	0.1	16.0	21.8	36.8 38.0 37.3 38.9
2022	0.1	15.6	21.6	37.3
2023	0.1	17.2	21.6	38.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

V	012	National on a h	Datus Issuer C	T-4-1
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.2	0.4	1 2	1.0
1965 1970	0.2 0.2 (s) (s)	0.6	1.3 1.6	1.9 2.4 2.7 2.7 2.0 2.3 2.0 2.2 2.5 2.4 2.4 2.4 2.8 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.9 2.9 2.9 2.9 2.6 2.8 2.5 2.9 2.6 2.8 2.5 3.0 2.7 3.0 2.8 2.9 3.1 3.0
1970	(s)	1.1	1.5	2.7
1975	(s)	1.6	1.1	2.7
1980	(s)	1.0	1.0	2.0
1985 1990	(S)	1.2	1.1	2.3
1005	(S)	1.3	0.8 0.7	2.U 2.0
1995 1996	(s) (s) (s) (s)	1.6 1.8 1.8 1.9	0.7 0.6	2.2 2.5
1997	(s)	1.0	0.0	2.4
1998	<del>-</del>	1.9	0.6 0.6 0.5	2.4
1999	(s)	2.2	0.6	2.8
2000	<del>'</del>	2.1 2.1	0.6 0.7	2.7
2001	_	2.1	0.7	2.7
2002	_	2.1	0.6	2.7
2003 2004	<del>-</del>	2.0 2.1	0.6	2.6
2004	_	2.1	0.4 0.5	2.5
2005		2.2	0.5	2.1
2007		2.3 2.3	0.4	2.7
2008	_	2.4	0.4	2.9
2009	_	2.4	0.4	2.9
2010	_	2.2	0.4	2.5
2011 2012	_	2.5	0.4	2.9
2012	_	2.4	0.3	2.6
2013 2014	_	2.5 2.2	0.3 0.3	2.8
2014	_	2.2	0.3	2.5
2015 2016	_	2.1 2.2	0.3 0.3	2.3 2.5
2017		2.7	0.3	2.0
2018	<u> </u>	2.4	0.3	2.7
2019	_	2.7	0.3	3.0
2020	_	2.5	0.3	2.8
2021	_	2.6	0.4 0.3	2.9
2022	_	2.8 2.7	0.3	3.1
2023	_	2.7	0.3	3.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.0	0.0	1.2	1.5
1965	0.2 0.1	0.2 0.3	1.2	1.5 1.8 2.2 2.0 2.2 1.9 1.9 1.8 1.9 2.0 2.1 2.1 2.1 2.2
1965 1970 1975	(s)	0.6	1.5	22
1975	(s) (s)	0.9	1.1	2.0
1980		0.8	1.4	2.2
1985	(s) (s) (s) (s)	1.0	0.8	1.9
1990	(s)	1.1	0.8	1.9
1995	(s)	1.2	0.6	1.8
1996	<del></del>	1.4	0.5 0.5	1.9
1997	(s)	1.4	0.5	1.9
1998	<del>-</del>	1.4	0.5	2.0
1999	(s)	1.6 1.6	0.5	2.1
2000 2001	_	1.6 1.5	0.5 0.7	Z.I 2.2
2002		1.5	0.7	2.2
2002		1.3	0.0	1.8
2004	_	1.4	0.3	1.8
2005	_	1.5	0.3	1.9
2006	_	1.5 1.6	0.3	1.9
2007	_	1.6	0.3 0.3	1.9
2008	_	1.7	0.4	2.0 2.0 1.9 2.0 1.8
2009	_	1.6 1.5 1.6	0.4	2.0
2010 2011	_	1.5	0.4	1.9
2011	_	1.6	0.4 0.3 0.2	2.0
2012	_	1.6	0.2	1.8
2012 2013 2014	_	1.6 1.5	0.2 0.2	1.8
2014	_	1.5	0.2	1.8
2015	_	1.4	0.5 0.6	Z.U 2.1
2017		1.5 1.8	0.6	2.1
2018	_	1.0	0.7	2.5
2019	<u> </u>	1.6 1.8	0.8 0.7	2. <del>4</del> 2.5
2020	_	1.6	0.8	1.8 1.8 2.0 2.1 2.5 2.4 2.5 2.4 2.4 2.6 2.6
2020 2021 2022	_	1.7	0.8	2.4
2022	_	1.9	0.8	2.6
2023	_	1.8	0.8	2.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.5	1.1	2.0	E 4
1965	0.5 0.4	2.1	3.9 4.6	5.4 7.1
1965 1970	0.2	3.1	4.5	7.1 7.8 6.9 6.2 4.8 5.2 6.3 6.8 6.9 7.9 8.7 6.5 5.5 5.5 5.8 5.1 5.5 5.2 5.2 5.2 4.5 4.4 4.8 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.5
1975	0.2	3.1	3.6 3.7	6.9
1980	0.4 0.3	2.1	3.7	6.2
1985 1990	0.3	2.0 2.6	2.6 2.5	4.8
1995	U.1 0.3	3.7	2.5 2.4	5.2 6.3
1996	0.3 0.2 0.2 0.2 0.1	4.7	1.9	6.8
1997	0.2	4.9	1.9	6.9
1998	0.1	4.9 5.5	1.9 2.4	7.9
1999 2000	_	5.9	2.8	8.7
2000	_	4.0	2.5	6.5
2001	_	3.7	1.8	5.5
2002	0.1 0.1	3.7	1.9 1.5	5.8
2003 2004	0.1	3.3 3.8	1.6	5.1 5.5
2005	(s)	3.5 3.8 3.7	1.4	5.1
2006	0.3	3.8	1.5	5.5
2007	0.2	3.8 3.7	1.5 1.3	5.2
2008	0.2	3.6	1.4	5.2
2009	0.2	3.0	1.3	4.5
2010	0.2	2.9	1.3	4.4
2011	0.2	3.0	1.3 1.3 1.6 1.5	4.8
2012	0.2 0.2	3.0 3.0	1.5 1 <i>A</i>	4.7 4.6
2011 2012 2013 2014	(s) 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	3.0 2.9 3.0 3.0 3.0 3.0 2.9 3.1	1.4 1.5 1.5	4.0
2015	0.2	2.9	1.5	4.6
2015 2016	<del>-</del>	3.1	1.7	4.8
2017 2018	0.1	3.1	1.5	4.7
2018	0.1	2.9 3.0	1.4 1.3	4.4
2019	0.1	3.0	1.3	4.5
2020	0.1 0.1	3.0 3.1	1.3 1.4	4.4
2021 2022	0.1	3.1 3.1	1.4 1.5	4. <i>1</i> 1.7
2022	0.1	3.0	1.3	4.7 4.5
_0_0	0.1	0.0	1.1	110

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		Tractar at 945		. • • • • • • • • • • • • • • • • • • •
1960	(s)	(2)	7 9	7 9
1965	(s)	(s) (s) 0.3	7.9 9.4	7.9 9.5 12.9
1970	(s)	0.3	12.6	12.9
1975	(s)	0.4	14.7	15.1
1980	_	0.3	16.7	17.0
1985	_	0.3	17.0	17.2
1990	_	0.5	19.4 20.7	19.9 21.1
1995 1996	_	0.4 0.4	20.7	21.1
1997		0.7	21.3	22.0
1998	_	0.7	22.3	23.0
1999	_	0.6	22.7	23.0 23.3
2000	_	0.6	22.1	22.7 21.6 22.0
2001 2002	_	0.6	22.1 21.0	21.6
2002	_	0.5	21.5 21.8	22.0
2003	_	0.4	21.8	22.1
2004	_	0.5	22.3	22.1 22.8 23.3
2005	_	0.4	22.9	23.3
2006 2007	_	0.5 0.5	23.4 23.7	23.9 24.2
2007	_	0.5	23.7	24.2
2009	<u> </u>	0.4	21.9	22.3
2010	_	0.4	21.6	21.9
2011	_	0.3	20.4	20.7
2012 2013	<del>-</del>	0.3	20.1	20.3
2013	_	0.2	20.2	20.3 20.4 20.6
2014	_	0.2	20.3	20.6
2015	_	0.3	19.8	20.1
2016	_	0.3	19.7	20.0
2017	_	0.3	20.2	20.5
2018 2019	_	0.4 0.3	20.8 20.3	21.1 20.6
2019		0.3	20.3 17.9	18.3
2021	<u> </u>	0.4	19.3	19.8
2022	_	0.5	19.1	19.6
2023	_	0.5	19.1	19.6
		• • • • • • • • • • • • • • • • • • • •		.0.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Oregon (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	<u> </u>	(s)	(s)	(s)
1965	_	(s) (s) 0.1	(s)	(s)
1970 1975	_	0.1	(s)	0.1
1975	<del></del>	(s) (s)	(s)	(s) (s) 0.1 (s) 0.8 0.7 1.8 2.7 3.2 2.7 6.2 6.4 7.5 8.7 6.5 8.2 8.2 8.2 8.2
1980	0.8	(s)	(s)	0.8
1985	0.7	0.4	(s)	0.7
1990	1.3	0.4	(s)	1.8
1995 1996	1.6 1.7	1.0 1.4	(s)	2.7
1996	1.7	1.4 1.2	(s) (s)	3.2 2.7
1998	3.4	1.3 2.9	(S) (S)	6.2
1999	3.7	2.7	(s)	6.4
2000	3.7	2.7 3.7	(s)	7.5
2001	4.1	4.5	(s) 0.1	8.7
2001 2002 2003 2004 2005	4.1 3.5	3.0	(s)	6.5
2003	4.1 3.4	4.0	(s)	8.2
2004	3.4	4.8	(s)	8.2
2005	3.4	4.8	(s)	8.2
2006	2.3	4.1	(s)	6.4
2007	4.1	5.6	(s)	9.7
2008 2009	3.8	5.3 5.0	(s)	IU. I
2010	3.0 3.0	5.9 5.0	(s) (s)	0.9 0.8
2011	3.9	3.3	(S) (S)	6.4
2012	2.5	6.3 5.9 5.9 3.3 4.4	(s)	7.0
2013	3.5	5.5	(s)	9.1
2013 2014 2015 2016	3.0 3.9 3.2 2.5 3.5 3.0 2.3 1.9 1.7	5.5 4.9 6.3 5.9 5.8	(s)	10.1 8.9 9.8 6.4 7.0 9.1 8.0 8.6 7.8
2015	2.3	6.3	(s)	8.6
2016	1.9	5.9	(s)	7.8
2017	1.7	5.8	(s)	7.5
2018	1.5	6.9	(s)	8.4
2019 2020	1.5 2.5 1.6	8.0	(s)	8.4 10.5 8.9 8.2 7.4 9.2
2020		7.3 8.2	(s)	8.9
2021 2022	_	8.2 7.4	(s)	8.2
2022	_	7.4 9.2	(s)	7.4
2020	<del>-</del>	9.2	_	9.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		-		I
1960	143.2	28.3	78.3	249.7
1965	163.4	34.1	86.4	284.0
1970	158.6	41.7	106.7	307.0
1975	154.1	35.1	102.3	291.5
1980	153.6	41.3	99.7	294.6
1985	132.9	33.9	84.4	251.2
1990	139.0	35.7	89.9	264.5
1995	140.1	39.9	89.8	269.8 275.3
1996	145.7	40.4	89.1	275.3
1997	148.2	38.3	90.5	276.9 266.3
1998	138.8	34.9	92.6	266.3
1999	134.1	37.4	93.4	264.9
2000	143.0	38.2	97.4	278.6
2001 2002	132.0 138.2	35.1 36.8	98.1 96.9	265.2 271.9
2002	138.2	30.8 37.8	96.9 99.8	2/1.9 276.2
2003	140.0	37.8	101.1	276.3 279.2
2004	140.0	36.1 37.9	102.0	281.6
2006	142.5	36.1	97.2	275.8
2007	141.8	41.1	95.9	275.8 278.7
2008	135.1	41.0	94.0	270.1
2009	116.5	44.3	84.4	245.2
2010	124.6	47.9	83.5	256.1
2011	115.3	52.8	81.6	249.6
2012	103.8	56.9	79.0	239.7
2013	106.8	61.8	80.7	249.3 249.2
2014	98.5	68.5	82.2	249.2
2015	83.4 69.7	68.6	80.5	232.4 217.3
2016	69.7	70.8	76.8	217.3
2017	63.5	73.4	77.8	214.7
2018	61.0	79.2	79.4	219.6
2019	53.8	87.8	76.7	219.6 218.3
2020	35.4	93.3	64.0	192.8
2021	45.9	97.7	70.3	213.9 213.8
2022	41.1	101.3	71.4	213.8
2023	28.9	101.4	70.6	200.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	12.4	12.7	12.2	37 4
1965	7.5	14.1	13.7	35.2
1970	4.6	16.3	15.2	37.4 35.2 36.1
1975	1.2	14.8	14.9	30.9 29.6 26.1
1980	0.7	15.6	13.3	29.6
1985 1990	0.6 0.6	13.4 13.2	12.1	26.1
1990	0.6	13.2	9.8	23.7
1995 1996	0.4 0.3	14.4 15.3	10.2 10.6	25.0
1996	0.3 0.3	15.3	10.6	23.7 25.0 26.2 24.7
1997	0.3 0.2	12.0	8.9	21.1
1998 1999	0.2	13.3	10.1	23.5
2000	0.2	14.4	11.2	25.8
2001	0.2 0.2	13.4	11.0	24.5
2001 2002 2003	0.2 0.2	13.2	10.6 11.7	23.9
2003	0.2	14.6	11.7	26.5
2004	0.2	13.7	11.6	25.4
2005 2006 2007 2008	0.1	13.5	10.4	25.8 24.5 23.9 26.5 25.4 24.0 20.3 21.7
2006	0.1 0.2	11.3	8.8 8.8 12.8	20.3
2007		12.7	8.8	21./
2008	_	12.6	12.8	25.5 10.0
2009	_	12.6	7.3	19.9
2010		12.3 12.1	8.0 7.4	19.9 20.3 19.5
2009 2010 2011 2012		10.9		17.3
2013	<u> </u>	12.9	7.2	20.1
2013 2014 2015 2016	_	12.9 14.2 13.1	6.4 7.2 8.2 7.7 6.6	22 4
2015	<del>-</del>	13.1	7.7	20.8 18.5 18.5 21.7
2016	<del>-</del>	11.9	6.6	18.5
2017 2018 2019	_	12.1	6.5	18.5
2018	_	13.9	7.8	21.7
2019	<del>-</del>	13.0	6.5	19.5
2020	_	12.2	5.7	17.8
2021	_	12.4	6.8	19.3 20.1
2021 2022 2023	_	13.0 11.3	7.1 6.7	20.1 18.0
2023	_	11.3	0.7	18.0

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

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Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Petroleum b Coal Natural gas a Total Year 8.6 3.1 17.2 1960 5.5 5.6 3.7 1965 6.1 15.4 3.6 5.4 6.0 1970 15.1 1975 2.8 5.4 4.8 13.0 2.8 6.4 1980 3.6 12.7 2.3 6.3 3.5 1985 12.1 2.5 1990 6.9 3.8 13.2 1995 2.5 7.9 3.8 14.1 2.1 1996 8.5 3.8 14.3 3.1 1997 2.6 7.9 13.6 1998 1.8 7.2 3.0 12.0

7.9

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2021

2022

2023

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

1.5

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Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

2.8

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<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	80.5	11.3	23.4	115.2
1965	96.9	15.2	26.0	115.2 138.2 127.7
1970	85.6	18.0	24.1	127.7
1975	68.1	13.8	22.8	104.8
1980	52.5	17.6	17.4	87.5 55.7
1985 1990	33.0	12.2	10.4	55.7
1990	35.5	12.9	14.3	62.7
1995 1996	36.3 36.8	13.4 13.0	11.2 10.5	60.9 60.4
1997	30.0 36.1	12.7	11.2	60.0
1998	36.1 26.4	12.3	10.9	49.6
1999	25.1	12.5	11.4	49.0
2000	25.8 24.7	12.5 11.0	11.0	49.3
2001	24.7	11.0	12.3	48.0
2001 2002 2003	24.6	11.3	11.4	49.0 49.3 48.0 47.3
2003	25.2	10.8	12.3	48.3 48.5 46.4
2004	25.1	10.8	12.6	48.5
2005 2006	23.0	10.2 10.5	13.2	46.4
2006	22.3 21.6	10.5	13.8 13.7	40.0 45.0
2007	21.0	10.5	13.7	46.6 45.8 44.9
2000	13.7	10.0	11.4	35.1
2010	17.2	11.8	11.1	40.1
2009 2010 2011 2012	16.6	13.3	10.7	40.1 40.6 42.2
2012	17.1	15.2	9.8	42.2
2013	20.0	18.5	11.0	49.4 53.6
2013 2014 2015 2016	20.5	18.5 21.7 20.6 21.2	11.4	53.6
2015	19.2	20.6	11.0 9.9	50.8 46.0
2016	14.8	21.2	9.9	46.0
2017	15.4 16.2	22.0 24.1	10.6 10.3	48.0 50.6
2018 2019	15.7	24.1 26.2	8.6	50.6 50.5
2020	10.9	24.9	6.3	42.1
2021	15.2	27.2	7.0	49.4
2022	15.4	27.2 27.5	7.7	49.4 50.7
2021 2022 2023	15.4 14.3	26.8	7.7	48.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	1.4	0.8	35.7	37.9
1965	0.3	1.1	38.8	40.2
1970	0.1	1.5	49.0	50.6
1975	<u>(s)</u>	1.0	53.5 56.1	40.2 50.6 54.5 57.7 53.6 59.3 62.9 62.6 65.4 67.5 68.1 70.7 70.3 70.6 70.1 71.4 72.5
1980		1.6	56.1	57.7
1985	_	1.8 1.9	51.7 57.4	53.6
1990 1995	_	2.1	57.4 60.8	59.3 62.0
1996	_	2.2	60.4	62.9 62.6
1997	_	2.2	63.2	65.4
1998	_	1.8	65.7	67.5
1999	_	2.0	66.0	68.1
2000	_	2.0 2.1 1.9 2.1 1.9	68.6	70.7
2001 2002	<del>-</del>	1.9	68.4	70.3
2002	_	2.1	68.5 68.2	70.6
2003	_	1.9	68.2	70.1
2004	_	1.6	69.7	/1.4
2005 2006	_	1.7	70.8	/2.5 70.1
2007		1.5 1.9	70.6 69.4	72.1 71.3
2007	_	1.9 2.1 2.3	64.0	71.5 66.0
2009	_	2.3	62.6	64.9
2010	_	2.6	61.6	64.2
2011	_	2.6 2.8	61.0	66.0 64.9 64.2 63.8
2012	_	2.1 2.1	60.8	62.9
2013	_	2.1	60.3	62.9 62.4 62.4
2014	<del>-</del>	2.4	60.0	62.4
2015	_	2.4	58.5	60.9 59.7
2016	_	2.3	57.4	59.7
2017 2018	_	2.4 2.6	57.8 57.7	60.3
2018		2.6	57.7 58.5	00.3 61.2
2020		2.6	49.5	52.2
2021	_	2.9	53.5	60.3 61.3 52.2 56.4 56.7 56.2
2022	_	3.2	53.5	56.7
2023	_	2.9	53.4	56.2

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Pennsylvania (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	40.3	0.3	1.5	42.1
1965	53.1	0.1	1.8	55.0
1970	64.7	0.5	12.3	77.5
1975	81.9	0.1	6.3	88.3
1980	97.7	0.2	9.3	107.1
1985	97.0	0.1	6.6	103.6
1990 1995	100.3 101.0	0.7 2.2	4.7 3.7	105.7 106.8
1995	101.0	1.4	3.7	111.8
1997	109.2	1.1	3.0	113.3
1998	110.3	1.6	4.1	116.1
1999	107.3	1.7	3.1	112.2
2000	115.3	1.1	3.4	119.8
2001	105.4	1.2	3.0	109.6
2002	112.2	2.7	2.5	117.4
2003	111.9	2.3	3.9	118.0
2004	113.2	4.2	3.6	121.0
2005 2006	117.1	4.4	4.2	125.8
2006	118.6 118.5	5.5 7.9	0.8 1.1	125.0 127.4
2007	113.5	7.9 7.7	0.8	127.4
2009	102.3	11.5	0.0	114.5
2010	107.0	13.4	0.5	120.9
2011	98.2	16.7	0.4	115.3
2012	86.4	21.6	0.3	108.3
2013	86.5	20.0	0.3	106.9
2014	77.7	21.4	0.5	99.7
2015	64.0	24.1	0.4	88.6 82.6
2016	54.9	27.5	0.3	82.6
2017 2018	48.0	28.8	0.2 0.6	77.0
2016	44.8 38.1	29.5 36.9	0.0 0.2	74.9 75.1
2019	38.1 24.5	45.5	0.2 0.1	73.1
2021	30.7	46.7	0.1	77.5
2022	25.7	48.4	0.2	74.3
2023	14.6	51.8	0.1	66.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.6	0.6	10.9	13.1
1965	1.1	0.9	8.8	10.8
1965 1970	(s)	1.3	11 7	13.1
1975	(s) (s)	1.2	9.2 6.9 6.8 6.7	10.8 13.1 10.5 8.3 8.5 8.9
1980	(s)	1.5	6.9	8.3
1985	(s)	1.6	6.8	8.5
1990	(s)	2.1 5.4 6.7	6.7	8.9
1995	(s) (s)	5.4	6.6 6.8 7.2 6.8	12.0 13.5
1996	(S)	6.7	6.8	13.5
1997	(s) (s)	6.3	7.2	13.6 13.8 13.1
1998	(S)	7.0 6.3	6.8	13.8
1999 2000	(s)	0.3	6.8 6.9	11.8
2000	(S)	4.9 5.2	6.9 7.1	11.0
2001	(s) (s) (s) (s) (s) (s) (s)	0.2 1.0	/.I 6.0	12.3 11.7
2002	(5)	4.8 4.3	6.9 7.3	11.7
2004	(3)	3.9	7.0	11.0
2005	(5)	4.4	6.8	11.0 11.2
2006	(s)	42	6.4	10.5
2007		4.2 4.8	6.3	10.5 11.1
2008	<del>(0)</del>	4.8	6.4 6.3 5.8 6.2 5.9 5.6 5.3	10.6
2009	_	5.0	6.2	11.2
2010	_	5.1	5.9	11.0
2011	_	5.4	5.6	11.0
2012	_	5.2	5.3	10.5
2013	<del>-</del>	4.7	5.4 5.7	10.1 10.5
2014	_	4.8	5.7	10.5
2015	_	5.1	5.6	10.7
2016	_	4.7	4.8	9.5 9.8 10.9
2017	_	5.0	4.8 5.4	9.8
2018	_	5.5	5.4	10.9
2019	_	5.2	5.0	10.2 9.7
2020	_	5.3	4.4	9.7
2021	_	5.6	5.0 5.2 5.2	10.6 10.1
2022	_	4.9	5.2	10.1
2023	_	5.9	5.2	11.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

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Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(e)	0.4	27	31
1965	(S) (S)	0.5	2.3	2.8
1970	(s)	0.6	2.7	3.3
1975 1980	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.4 0.5 0.6 0.7 0.7 0.8 1.0 0.9 1.1 1.0 0.9 0.9 1.0 1.0 1.0 1.0	2.7 2.3 2.7 2.4 1.5 1.8 1.4	3.1
1980 1985	(\$)	0.7	1.5	2.2
1990	(5)	0.6 1 N	1.6	2.0
1990 1995	(S)	0.9	1.6	2.5
1996 1997	(s)	1.1	1.6 1.6 1.6 1.5	2.7
1997	(s)	1.0	1.6	2.6
1998 1999 2000 2001	(S)	0.9	1.5	2.4
2000	(S)	0.9 1.0	1.4 1.5 1.6	2.3 2.5
2000	(S)	1.0	1.5	2.5
2002 2003 2004 2005	(s)	1.0	1.5	2.5
2003	(s)	1.1	1.5 1.7	2.8
2004	(s)	1.1	1.8 1.7	2.8
2005	(S)	1.0	1./	2.7
2006 2007 2008	(S)	0.9 1.0 1.0	1.3 1.3 1.3	2.2 2.3
2007	( <del>9</del> )	1.0	1.3	2.2
2009 2010 2011 2012	_	1.0 0.9 0.9 0.9	1.4	2.3
2010	_	0.9	1.3	2.2
2011	<del>-</del>	0.9	1.2	2.1
2012 2013	_	0.9	1.2	2.1
2013		1.0 1.1 1.1	1.4 1.3 1.2 1.2 1.3 1.2 1.3 0.8 0.7	2.3 2.3
2014 2015 2016	_	1.1	1.3	2.4
2016	<del>_</del>	0.9	0.8	1.7
2017	_	0.9 1.0 1.1	0.7	1.7
2018	<del>-</del>	1.1	1.1 0.9	2.2
2018 2019 2020	_	1.1 1.0	0.9 0.8	3.1 2.8 3.3 3.1 2.2 2.6 2.3 2.5 2.7 2.6 2.4 2.3 2.5 2.6 2.5 2.8 2.8 2.8 2.7 2.2 2.3 2.2 2.3 2.2 2.1 2.1 2.1 2.1 2.2 1.9 1.8 2.1 2.1 2.0
2020		1.0	0.8 1.1	1.0 2.1
2022	_	1.0 1.0 0.9	1.1	2.1
2021 2022 2023	_	0.9	1.1	2.0

<sup>&</sup>lt;sup>a</sup> Beginning in 2008, consumption data not collected and assumed to be zero.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

	0.1		<b>D</b> b	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s)	0.1	12	1.3
1960 1965 1970 1975	(s)	0.1	1.2 0.9	1.0
1970	(s) (s)	0.3	1.1	1.0 1.4 1.1
1975	(s)	0.2	0.9	1.1
1980 1985	(s)	0.4	0.4	0.7 0.9
1985	(s)	0.4	0.5	0.9
1990	(s)	0.4	0.7	1.1
1995	(s)	0.7 0.7	0.6 0.7	1.3
1996 1997	(s) (s)	0.7	0.7	1.4
1998	(s)	0.6	0.5	1.1 1.3 1.4 1.3 1.1
1999	(s)	0.6	0.4	1.1
2000	(s)	0.7	0.5	1.2
2001	(s)	0.7	0.6	1.2 1.3 1.2 1.3 1.2 1.1
2002	(s) (s)	0.6	0.5	1.2
2003	(s)	0.6	0.7	1.3
2004	(s)	0.6	0.6	1.2
2005	(s) (s) (s)	0.6	0.5	1.1
2006 2007	(S)	0.5	0.4	1.0 1.0
2007	(S)	0.6 0.6	0.4 0.4	0.9
2009	_	0.6	0.4 0.5	1.0
2009		0.6	0.5	1.0
2010 2011	_	0.6	0.4	0.3
2012	_	0.6	0.5 0.4 0.3 0.2	0.8
2013	_	0.6 0.7	0.3	0.9
2013 2014 2015	_	0.7	0.3 0.4	1.1
2015	_	0.7	0.3	1.0
2016	_	0.6	0.3	0.8
2017	_	0.6	0.2	0.8
2018	_	0.7	0.3	1.0
2018 2019 2020 2021 2022 2023	_	0.7	0.3 0.3 0.2 0.3 0.2 0.2 0.3 0.3	1.0 0.9 0.9 0.8 0.9 1.1 1.0 0.8 0.8 0.8 0.9 0.9
2020	_	0.6 0.6	0.2	0.8
2021		0.6	0.5 0.3	0.9 0.a
2022		0.6	0.3	0.9 0.9
_5_5		0.0	0.0	0.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

)			<b>5</b> h	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
_				
1960	(s) (s) (s) (s) (s) (s)	0.2 0.2 0.3 0.3 0.3 0.2 0.2 1.8 1.5 1.3 2.2	2.2	2.3
1965 1970	(S)	0.2	1.4	1.6
1970	(S)	0.3	1.9 1.1	2.2
1975 1980	(S)	0.3	1.1 0.5	1.5
1985	(S)	0.3	0.5 0.6	0.0
1900	(5)	0.2	0.6	0.9
1995	(8)	0.2 1.0	0.4	0.0
1990 1995 1996 1997	<u> </u>	1.0	0.3 0.3	1.8
1997	_	1.3	0.3	1.6
1998	_	22	0.3	2.5
1999	_	1.8	0.3	2.1
2000	_	0.4	0.2	0.7
2001	_	0.3	0.2	0.5
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	_	0.4 0.3 0.2 0.2 0.3 0.3 0.3 0.4	0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2	0.5
2003	<del>-</del>	0.2	0.3	0.6
2004	_	0.3	0.3	0.6
2005	_	0.3	0.3	0.6
2006	<del>-</del>	0.3	0.3	0.6
2007	_	0.4	0.2	0.6
2008	_	0.4	0.2	0.5
2009	<del>-</del>	0.4	0.2	0.7
2010	_	0.4	0.2	0.6
2011	_	0.4 0.4 0.4 0.4 0.4	0.2	0.6
2012	_	0.4	0.1	0.5
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	0.4 0.4 0.5 0.4	0.1	0.6
2014	<del>-</del>	0.4	0.1	0.6
2015	<del>_</del>	0.5	0.1 0.1	0.0
2010	_	0.4	0.1	0.0 0.6
2017		0. <del>4</del> 0.5	0.2	0.0 0.6
2010	_	0.4 0.5 0.5	0.2 0.2	0.0 0.6
2018 2019 2020 2021 2022 2023		0.3	0.2	2.3 1.6 2.2 1.5 0.8 0.9 0.6 2.2 1.8 1.6 2.5 2.1 0.7 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
2020	_	0.4	0. <u>2</u> 0.1	0.0 0.6
2022	<u> </u>	0.4	0.1 0.1	0.6
2023	_	0.4	0.1	0.6
		<b>4</b>	•	VIV.

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965	(s) (s) (s)	(s)	4.4 3.9 4.6	4.4 3.9 4.6 4.1 3.7 3.6 4.1
1965	(s)	(s)	3.9	3.9
1970	(S)	(s)	4.6	4.6
1975		(s)	4.1 3.7	4. I 2. 7
1980 1985		(s) (s)	3.7 3.6	3.7 3.6
1990		(S) (S)	3.6 4.1	Δ 1
1995	_	(9)	4.1	Δ.1
1996	_	(s) (s)	4.1	4.2
1997 1998	_	(s)	4.6 4.4	4.6
1998	_	(s)	4.4	4.5
1999	_	(s)	4.6	4.6
1999 2000	_	(s) (s) (s) (s) (s) (s) (s) 0.1	4.6 4.6 4.7 4.6 4.6	4.7
2001	<del>-</del>	(s)	4.7	4.7
2001 2002 2003 2004 2005	_	(s)	4.6	4.6
2003	_	(s)	4.6	4.6
2004	_	(S)	4.4	4.4
2005	<del>-</del>	(S)	4.3	4.3
2006 2007	_	0.1	4.4 4.3	4.4
2007	_	0.1 0.1	4.3	4.3
2008 2009	=	0.1	4.0 4.1	4.1 4.2
2010	_	0.1	4.1 // 1	4.2 1.2
2010 2011	_	0.1	4.1 3.9 3.7	4.0
2012	_	0.1	3.7	3.8
2013	_	0.1	3.7	3.8
2012 2013 2014 2015 2016 2017	_	0.1 0.2	3.9	4.0
2015	_	0.2 0.1	3.8	4.0
2016	<del>-</del>	0.1	3.6	3.7
2017	_	0.2	3.6	3.8
2018	_	0.1	3.7 3.9 3.8 3.6 3.8 3.8 3.2 3.5 3.6	4.1 4.2 4.6 4.5 4.6 4.7 4.7 4.7 4.6 4.6 4.4 4.3 4.4 4.3 4.1 4.2 4.2 4.2 4.2 4.0 3.8 3.8 3.8 4.0 4.0 3.7 3.8 3.8 4.0 4.0 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8
2019 2020 2021 2022 2023	_	0.1	3.8	3.9
2020	_	0.1	3.2	3.3
2021	_	0.1	3.5	3.6
2022	_	0.2	3.6	3.8
2023	_	0.2	3.6	3.8

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Rhode Island (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.5	(e)	0.3	1 0
1965	1.5 1.1	(s) (s) 0.1	0.3 0.4	1.5
1970	<u> </u>	0.1	1.4	1.6
1975 1980	_	(s) 0.1	1.4 0.7 0.8	0.7
1980 1985	_	0.1 0.1	0.8 0.3	0.9
1990		0.1 0.5	0.3	0.5 0.7
1995	_	0.5 1.9 3.4 3.3 3.3 2.9 2.6 3.2 2.9 2.3 1.9 2.4	(s)	2.0
1995 1996	_	3.4	(s) 0.1	3.4
1997	_	3.3	(s) (s)	3.4
1998 1999	_	3.3	(s)	3.3
2000		2.9 2.6	(s) (s)	3.0 2.7
2001		3.2	(S) (S)	32
2002	_	2.9	(s)	2.9
2003	_	2.3	(s)	2.3
2004	_	1.9	(s)	2.0
2002 2003 2004 2005 2006 2007 2008	_	2.4	(s)	2.4
2006 2007	_	2.3 2.8	(s) (s)	2.3 2.8
2007	<del>-</del>	2.3 2.8 2.9 3.0	(S)	2.9
2009	_	3.0	(s)	3.0
2010	_	3.1 3.5	(s)	3.1
2011	<del>-</del>	3.5	(s)	3.5
2012	_	3.3 2.5 2.4 2.7 2.5 2.8	(s)	3.3
2013		2.5 2.4	(S)	2.0 2.5
2015	_	2.7	(s) 0.1	2.8
2016	_	2.5	(s)	2.6
2017	_	2.8	(s)	2.8
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	_	3.1 2.8 3.2	(s)	3.2
2019	_	2.8	(s)	2.8
2020	_	3.2	(s) (s)	1.9 1.5 1.6 0.7 0.9 0.5 0.7 2.0 3.4 3.4 3.3 3.0 2.7 3.2 2.9 2.3 2.0 2.4 2.3 2.8 2.9 3.0 3.1 3.5 3.3 2.6 2.5 2.8 2.6 2.5 2.8 2.6 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 3.4 2.8 3.9
2022	_	2.7	(5) (s)	2.8
2021 2022 2023	_	3.4 2.7 3.8	(s)	3.9
			\	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

1970       13.3       8.6       20.3       42         1980       23.4       7.6       24.1       55         1985       25.0       5.2       23.9       54         1990       27.5       7.0       26.6       6.6         1995       29.9       8.1       27.2       65         1986       33.5       8.0       27.9       69         1997       34.3       8.2       28.8       71         1998       35.5       8.5       30.9       74         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.5       38.4       89         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       36         2010       36.7       11					
1970       13.3       8.6       20.3       42         1980       23.4       7.6       24.1       55         1985       25.0       52       23.9       54         1990       27.5       7.0       26.6       6.1         1995       29.9       8.1       27.9       65         1996       33.5       8.0       27.9       69         1997       34.3       8.2       28.8       71         1998       35.5       8.5       30.9       74         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       80         2001       39.4       7.7       33.2       80         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.5       38.4       89         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       36         2010       36.7       11.	Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1970       13.3       8.6       20.3       42         1975       13.3       6.6       22.7       42         1980       23.4       7.6       24.1       55         1985       25.0       5.2       23.9       54         1990       27.5       7.0       26.6       6.6         1995       29.9       8.1       27.9       68         1996       33.5       8.0       27.9       69         1997       34.3       8.2       28.8       71         1998       35.5       8.5       30.9       74         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.5       38.4       89         2006       41.2       9.5       38.4       89         2008       42.5       9.	1060	0.0	2.0	14.0	07.1
1970       13.3       8.6       20.3       42         1975       13.3       6.6       22.7       42         1980       23.4       7.6       24.1       55         1985       25.0       5.2       23.9       54         1990       27.5       7.0       26.6       6.6         1995       29.9       8.1       27.9       68         1996       33.5       8.0       27.9       69         1997       34.3       8.2       28.8       71         1998       35.5       8.5       30.9       74         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.5       38.4       89         2006       41.2       9.5       38.4       89         2008       42.5       9.	1960	9.2 11.5	3.2 4.7	14.0 15.1	31.4
1975     13.3     6.6     22.7     42       1980     23.4     7.6     24.1     55       1985     25.0     5.2     23.9     54       1990     27.5     7.0     26.6     61       1995     29.9     8.1     27.2     65       1996     33.5     8.0     27.9     69       1998     35.5     8.5     30.9     74       1999     38.3     8.7     31.6     78       2000     41.1     8.6     32.2     81       2001     39.4     7.7     33.2     80       2002     38.5     9.9     33.2     81       2003     40.0     8.0     34.7     82       2004     41.4     8.9     39.9     90       2005     41.2     9.4     37.9     88       2007     42.4     9.5     37.4     89       2007     42.4     9.5     37.4     89       2009     35.5     10.4     35.1     82       2010     38.7     11.9     35.3     85       2011     35.0     12.4     33.7     81       2012     28.5     13.2     32.7     74	1903	11.3	4.7 8.6	20.3	42.2
1980     23.4     7.6     24.1     55       1985     25.0     5.2     23.9     54       1990     27.5     7.0     26.6     61       1996     33.5     8.0     27.9     69       1997     34.3     8.2     28.8     71       1998     35.5     8.5     30.9     74       1999     38.3     8.7     31.6     78       2000     41.1     8.6     32.2     81       2001     39.4     7.7     33.2     80       2002     38.5     9.9     33.2     80       2003     40.0     8.0     34.7     82       2004     41.4     8.9     39.9     90       2005     41.2     9.4     37.9     88       2006     41.2     9.5     38.4     89       2007     42.4     9.5     38.4     89       2008     42.5     9.2     35.2     86       2010     38.7     11.9     35.3     85       2011     35.0     12.4     33.7     81       2012     28.5     13.2     32.7     74       2012     28.5     13.2     32.7     74	1975	13.3	6.6	20.0	42.6
1990     27.5     7.0     26.6     61       1995     29.9     8.1     27.2     65       1996     33.5     8.0     27.9     69       1997     34.3     8.2     28.8     71       1998     35.5     8.5     30.9     74       1999     38.3     8.7     31.6     78       2000     41.1     8.6     32.2     81       2001     39.4     7.7     33.2     80       2002     38.5     9.9     32.2     81       2003     40.0     8.0     34.7     82       2004     41.4     8.9     39.9     90       2005     41.2     9.4     37.9     88       2006     41.2     9.5     38.4     89       2007     42.4     9.5     37.4     89       2009     35.5     10.4     36.1     36.2       2010     38.7     11.9     35.3     85       2011     35.0     12.4     33.7     81       2012     25.5     13.2     37.7     81       2013     24.6     12.4     33.0     70       2014     29.2     12.4     33.0     74 </td <td>1980</td> <td>23.4</td> <td>7.6</td> <td>24 1</td> <td>55.1</td>	1980	23.4	7.6	24 1	55.1
1990     27.5     7.0     26.6     61       1995     29.9     8.1     27.2     65       1996     33.5     8.0     27.9     69       1997     34.3     8.2     28.8     71       1998     35.5     8.5     30.9     74       1999     38.3     8.7     31.6     78       2000     41.1     8.6     32.2     81       2001     39.4     7.7     33.2     80       2002     38.5     9.9     32.2     81       2003     40.0     8.0     34.7     82       2004     41.4     8.9     39.9     90       2005     41.2     9.4     37.9     88       2006     41.2     9.5     38.4     89       2007     42.4     9.5     37.4     89       2009     35.5     10.4     36.1     36.2       2010     38.7     11.9     35.3     85       2011     35.0     12.4     33.7     81       2012     25.5     13.2     37.7     81       2013     24.6     12.4     33.0     70       2014     29.2     12.4     33.0     74 </td <td>1985</td> <td>25.0</td> <td>5.2</td> <td>23.9</td> <td>54.0</td>	1985	25.0	5.2	23.9	54.0
1995     299     8.1     27.2     65       1997     34.3     8.2     28.8     71       1998     35.5     8.5     30.9     74       1999     38.3     8.7     31.6     78       2000     41.1     8.6     32.2     81       2001     39.4     7.7     33.2     80       2002     38.5     9.9     33.2     81       2003     40.0     8.0     34.7     82       2004     41.4     8.9     39.9     90       2005     41.2     9.4     37.9     88       2007     42.4     9.5     37.4     89       2008     42.5     9.2     35.2     86       2010     38.7     11.9     35.3     85       2011     35.0     12.4     33.7     81       2012     28.5     13.2     32.7     74       2013     24.6     12.4     33.0     70       2014     29.2     12.4     33.0     70       2015     23.1     14.8     35.2     73       2016     21.2     14.8     35.8     71       2017     18.4     15.0     36.5     73 <td>1990</td> <td>27.5</td> <td>7.0</td> <td>26.6</td> <td>61.1</td>	1990	27.5	7.0	26.6	61.1
1997       34.3       8.2       28.8       7.7         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       86         2010       35.5       10.4       36.1       82         2010       35.5       10.4       36.1       82         2010       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2015       23.1	1995	29.9	8.1	27.2	65.1
1997       34.3       8.2       28.8       7.7         1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       86         2010       35.5       10.4       36.1       82         2010       35.5       10.4       36.1       82         2010       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2015       23.1	1996	33.5	8.0	27.9	69.4
1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.4       37.9       88         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       86         2010       38.7       10.4       36.1       32         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       7         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       70         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2018       19.6       <	1997	34.3	8.2	28.8	71.3
1999       38.3       8.7       31.6       78         2000       41.1       8.6       32.2       81         2001       39.4       7.7       33.2       80         2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.4       37.9       88         2007       42.4       9.5       38.4       89         2008       42.5       9.2       35.2       86         2010       38.7       10.4       36.1       32         2011       35.3       85       85         2012       28.5       13.2       32.7       81         2012       28.5       13.2       32.7       7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       70         2015       23.1       14.8       35.2       73         2016       21.2       1	1998	35.5	8.5	30.9	74.9
2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.2       69         2019       18.4       15.0       36.5       73         2019       15.6       18.3       35.2       69         2020       13.1       18.0       32.2       69         2021       14.5	1999	38.3	8.7	31.6	78.6
2002       38.5       9.9       33.2       81         2003       40.0       8.0       34.7       82         2004       41.4       8.9       39.9       90         2005       41.2       9.4       37.9       88         2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.2       69         2019       18.4       15.0       36.5       73         2019       15.6       18.3       35.2       69         2020       13.1       18.0       32.2       69         2021       14.5	2000	41.1	8.6	32.2	81.9
2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2001	39.4	7.7	33.2	80.3
2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2002	38.5	9.9	33.2	81.7
2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2003	40.0	8.0	34.7	82.7
2006       41.2       9.5       38.4       89         2007       42.4       9.5       37.4       89         2008       42.5       9.2       35.2       86         2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2004	41.4	8.9	39.9	90.2
2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2005	41.2	9.4	37.9	88.4
2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2006	41.2	9.5	38.4	89.2
2009       35.5       10.4       36.1       82         2010       38.7       11.9       35.3       85         2011       35.0       12.4       33.7       81         2012       28.5       13.2       32.7       74         2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2007	42.4	9.5	37.4	89.3
2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       69         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2008	42.5	9.2	35.2	86.9
2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       69         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2009	35.5	10.4	36.1	82.0
2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       69         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2010	38.7	11.9	35.3	85.8
2013       24.6       12.4       33.0       70         2014       29.2       12.4       33.0       74         2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       69         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2011	35.0	12.4	33.7	81.1
2014     29.2     12.4     33.0     74       2015     23.1     14.8     35.2     73       2016     21.2     14.8     35.8     71       2017     18.4     15.0     36.2     69       2018     19.6     17.7     36.5     73       2019     15.4     18.2     35.6     69       2020     13.1     18.0     32.2     69       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2012	26.5	13.2	32. <i>1</i>	74.4
2015       23.1       14.8       35.2       73         2016       21.2       14.8       35.8       71         2017       18.4       15.0       36.2       69         2018       19.6       17.7       36.5       73         2019       15.4       18.2       35.6       69         2020       13.1       18.0       32.2       63         2021       15.6       18.3       35.2       69         2022       14.5       18.9       34.1       67	2013	24.0	12.4	33.U 22.0	/U.U
2017     18.4     15.0     36.2     69       2018     19.6     17.7     36.5     73       2019     15.4     18.2     35.6     69       2020     13.1     18.0     32.2     63       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2014	29.2 00.1	12.4 14.0	33.U 25.0	/4.5 70.1
2017     18.4     15.0     36.2     69       2018     19.6     17.7     36.5     73       2019     15.4     18.2     35.6     69       2020     13.1     18.0     32.2     63       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2013	۷۵.۱ ما م	14.0 14.0	33.∠ 25.0	73.1 71.0
2018     19.6     17.7     36.5     73       2019     15.4     18.2     35.6     69       2020     13.1     18.0     32.2     63       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2010	21.2 10 /		30.0 26.0	7 1.9
2019     15.4     18.2     35.6     69       2020     13.1     18.0     32.2     63       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2017	10.4	10.0	30.2 36.5	73.8
2020     13.1     18.0     32.2     63       2021     15.6     18.3     35.2     69       2022     14.5     18.9     34.1     67	2010	19.0 15. <i>1</i>	17.7	30.3 35.6	73.6 69.1
2021 15.6 18.3 35.2 69 2022 14.5 18.9 34.1 67	2013	10.4	10.2 10.0	33.0	63.3
2022 14.5 18.9 34.1 67 2023 15.6 18.1 35.1 68	2020	15.1	10.0	32.2 35.2	60.5 60 N
2023 15.6 18.1 35.1 68	2021	13.0	10.5	33.2 2 <i>I</i> 1	67. <i>1</i>
10.0	2023	15.6	18.1	35.1	68.8
	2020	10.0	10.1	00.1	00.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.5	0.4	2.3	3.2
1965	0.3	0.7	1.9	2.8
1970	0.3	1.0	2.2	3.6
1975 1980	0.5 0.3 0.3 0.2	0.4 0.7 1.0 1.0	2.3 1.9 2.2 1.4	2.6
1980	0.1	1.0 0.9	1.5 1.4	2.6
1985 1990	(s) (s) (s) (s) (s) (s)	0.9	1.4	2.3
1990	(S)	1.0 1.4	1.1 0.9	2.1
1996	(5)	1.4	0.9	2.3
1997	(S)	1.4	0.9	2.3
1998		1.4	0.8	2.2
1999	Ò.1	1.4	0.8	2.3
2000 2001	_	1.6	0.9 0.7	2.4
2001		1.5	0.7	2.2
2002 2003 2004 2005	(s)	1.6 1.5 1.5 1.6 1.6 1.6	0.7 0.7 0.8 0.7	2.2
2003	_	1.0	0.7	2.3 2.4
2005	_	1.6	0.7	2.3
2006 2007 2008	(s)	1.4	0.6	2.0
2007	(s) (s)	1.4 1.5	0.5 0.5	1.9
2008	<del>-</del>	1.5	0.5	1.9
2009	_	1.5	0.4 0.5	1.9
2010	_	1.8	0.5	2.3
2011 2012	_	1.0	0.4 0.3	1.0 1.5
2012	<u> </u>	1.5	0.3	1.3
2013 2014	_	1.5 1.8 1.5 1.2 1.5 1.7	0.4 0.3 0.3 0.3	2.1
2015 2016	_	1.5 1.5 1.4	0.3	1.8
2016	_	1.5	0.3	1.8
2017	_	1.4	0.3	1.7
2018	_	1./	0.3	2.1
2018 2019 2020 2021 2022 2023		1.7 1.6 1.6 1.8	0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	3.2 2.8 3.6 2.6 2.6 2.3 2.1 2.3 2.5 2.3 2.2 2.3 2.4 2.2 2.2 2.3 2.4 2.3 2.0 1.9 1.9 1.9 1.9 1.9 1.9 1.8 1.5 1.8 1.5 1.8 1.7 2.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1
2020	_	1.0	0.3	21
2022	<u> </u>	1.8	0.3	2.1
2023		1.8 1.7	0.3	1.9

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	0.3	0.5	1.1
1965	0.3 0.2	0.3	0.5 0.5	1.1 1.1
1965 1970	0.2	0.8	0.6	1.6
1975	0.4	0.9	0.6	1.6 1.9 2.1 1.7 1.4
1980	0.4	1.3	0.5 0.7	2.1
1985	0.1	0.8	0.7	1.7
1990	(s)	0.8	0.6	1.4
1995	(s) (s) (s)	1.0	0.7	1./
1996 1997	(S)	1.1 1.1	0.6 0.7	1.8 1.7
1998	(s) 0.1	1.1	0.7	1.7 2.0
1999	0.5	1.1	0.7	2.3
1999 2000	— 0.5 —	1.2	0.6	1.7 1.8 1.7 2.0 2.3 1.8 1.7
2001	_	11	0.6	1.7
2002	(s)	1.2 1.2 1.2 1.2	0.5	1.7 1.7
2003 2004	<u> </u>	1.2	0.5	1.7
2004	<del>-</del>	1.2	0.5 0.5 0.5	1.7 1.7
2005	_	1.2	0.5	1./
2006 2007	0.2 (s) (s)	1.1	0.5 0.5	1.8
2007	(5) (c)	1.2 1.2	0.5	1.0 1.7
2009	(3)	1.2	0.5	1.7
2010	(s) (s)	1.3	0.4	1.8
2011	<del>(-)</del>	1.2	0.4 0.4 0.4	1.6
2012	(s)	1.2	0.4	1.6
2011 2012 2013 2014	_	1.3 1.2 1.2 1.3 1.4 1.3 1.3	0.4 0.4 0.8 0.8 0.9	1.7
2014	<del>-</del>	1.4	0.4	1.8
2015 2016	_	1.3	0.8	2.1
2016	_	1.3	0.8	2.1
2017 2018	_	1.3	0.9	2.1 2.2
2019	_	1.4	0.9 0.8	2.3
2020		1.3	0.8	1.8 1.6 1.7 1.6 1.8 1.6 1.8 1.6 1.7 1.8 2.1 2.1 2.1 2.1 2.1 2.3 2.2 2.1 2.3 2.2 2.1 2.3 2.2 2.1 2.3 2.2
2021	_	1.4	0.8 0.9	2.3
2021 2022	<del>-</del>	1.4	0.9 0.9	2.3
2023	_	1.4	0.9	2.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

, —				
• Value	01	National man 2	Patralaum h	7.4.1
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	4.2	1.2	2.2	9.6
1965	4.2 4.4	1.2 2.5 4.2 3.7	3.2 2.4	8.6 9.3 10.6 8.8 12.5 12.1
1965 1970	4.2	4.2	2.3	10.6
1975 1980	4.2 2.7 4.2 5.9 5.5 5.2 4.7	3.7	2.4 3.4 2.8	8.8
1980	4.2	4.9 3.3 4.6 5.2 5.0	3.4	12.5
1985 1990	5.9 5.5	3.3	2.8 3.1	12.1
1990	5.5 5.2	4.0 5.2	3.1 3.0	13.2 13.3 12.9 13.2 13.4
1996	4.7	5.0	3.0 3.2	12.9
1997	4.8	5.4	3.0	13.2
1998	4.6	5.4 5.4 5.4	3.4	13.4
1999	4.4	5.4	3.5	13.4
2000 2001	4.8 4.6 4.4 4.7 5.0 4.7 4.9 4.4 3.7	5.1 4.2 5.1 4.2 4.2 4.0	3.0 3.4 3.5 3.4 4.6 4.1 4.9 5.9	13.4 13.2 13.8 14.0 14.0 14.5
2001	5.0	4.2	4.6	13.8
2002 2003 2004 2005	4.7 4.0	5.1 4.2	4.1 4.0	14.0
2003	4.4	4.2	5.9	14.5
2005	3.7	4.0	5.9	13.5
2006 2007 2008	3.5 3.1 2.8 2.2 2.3 2.2 1.2 1.3	4.1 4.1	5.3 4.6 4.2	13.0 11.8
2007	3.1	4.1	4.6	11.8
2008	2.8	3.8	4.2	10.9
2009	2.2	3.4	4.4	10.1
2010	2.3 2.2	3.9 4.1	2.9	9.1 8.5
2010 2011 2012	1.2	4.3	2.5	8.0
2013	1.3	4.4	1.8	7.4
2014	1.4	4.4	2.1	7.8
2015	1.1	4.4	2.5	8.0
2016	0.8	4.6	2.3	1.1
2017	U.b 0.5	4.8 5.0	2.0	7.4 7.7
2010	1.4 1.1 0.8 0.6 0.5 0.4	5.0 5.1	2.9 2.3 2.5 1.8 2.1 2.5 2.3 2.0 2.1 2.0	7.7 7.5
2013 2014 2015 2016 2017 2018 2019 2020	0.3	4.4 4.6 4.8 5.0 5.1 5.0 5.2 5.2	1.8	10.1 9.1 8.5 8.0 7.4 7.8 8.0 7.7 7.4 7.7 7.5 7.1 7.3 6.8 7.3
2021 2022	0.3 0.2 0.2	5.2	1.7	7.3
2022	0.2	5.2	1.4	6.8
2023	0.2	5.0	2.2	7.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	0.1	8.8	9.0
1965	0.1 (s)	0.1	10.3	10.5
1970	(s)	0.2	13.9	10.5 14.1
1975	(s) (s) (s)	0.1	16.2 17.5	16.3 17.7
1980		0.2	1/.5	1/./
1985 1990	_	0.1 0.2	18.8 21.8	19.0
1995	_	0.2	21.6	22.0 22.7
1996	_	0.2	23.1	22.0 22.7 23.2 24.3 25.7 26.4 27.2 27.3 27.9 28.5 32.2
1997	_	0.2	24.1	24.3
1998	_	0.2	24.1 25.5	25.7
1999	_	0.2 0.2 0.2 0.2	26.2	26.4
2000	_	0.2	27.0 27.2	27.2
2001 2002	_	0.2	27.2	27.3
2002		0.2 0.2	27.8 28.3	27.9 29.5
2003		0.2	32.1	20.3
2005	_	0.1	30.4	30.5
2006	_	0.1	31.8	32.0
2007	_	0.1	31.8 31.7	32.0 31.8
2008	_	0.1 0.2	29.9 30.4	30.0 30.5 31.5 30.8
2009	_	0.2	30.4	30.5
2010	_	0.2	31.3	31.5
2011	_	0.2 0.2	30.6 29.4	30.8
2012 2013	_	0.2	30.5	29.0 30.6
2014	_	0.1	29.9	29.6 30.6 30.1 31.6
2015	_	0.1	31.5	31.6
2016	_	0.2	32.3 32.9	32.5 33.1
2017	<del>-</del>	0.1	32.9	33.1
2018	_	0.2	32.9	33.0 32.5 29.3
2019	_	0.1	32.4	32.5
2020 2021	_	0.1 0.1	29.2 32.2	29.3
2021	_	0.1	32.2 21 <i>1</i>	32.4 21.5
2022		0.1	31.4 31.7	32.4 31.5 31.8
2020		0.1	01:1	01.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, South Carolina (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000		1.0	(a)	
1960 1965	4.1 6.6	1.3 1.0	(s) (s) 1.3	5.4 7.7
1970	8.6	2.5	1.3	12.3
1975 1980	10.1	0.8	2.1	13.0 20.3
1980	18.7	0.3	1.2	20.3
1985	18.9	(s) 0.4	0.1	19.0
1990 1995	22.0 24.6	0.4 0.4	0.1 0.1	22.4 25.1
1995	24.0	0.4	0.1	25.1 28.9
1997	29.5	0.1	0.2	29.9
1998	29.5 30.8 33.3	0.5	0.4	31.6
1999	33.3	0.6	0.4	34.2
2000 2001	36.4 34.4	0.5	0.3 0.2	29.9 31.6 34.2 37.2 35.2 36.0 36.2 39.4 40.4
2001	34.4	0.6	0.2	35.2
2002 2003	აა.o 35.2	2.0 0.7	0.2 0.3	36.0 36.2
2004	37.0	1.7	0.7	39.4
2005	33.8 35.2 37.0 37.5	2.5	0.4	40.4
2006 2007 2008	37.5 39.2	2.8 2.8 2.5 4.1	0.1 0.2	40.4 42.2 42.3
2007	39.2	2.8	0.2	42.2
2008	39.7	2.5	0.1	42.3
2009	33.3 36.4	4.1 4.8	0.5 0.1	37.8
2010	39.7 33.3 36.4 32.8	5.5	0.1	37.8 41.3 38.3
2010 2011 2012 2013 2014 2015	27.3	6.3	0.1	33.7
2013	27.3 23.3 27.8 22.0	6.3 5.1	0.1 0.1	33.7 28.5 32.8 29.5 27.7 25.2
2014	27.8	4.7	0.2	32.8
2015	22.0	7.4	0.1	29.5
2016	20.4 17.8	7.3 7.4	0.1 0.1	27.7
2017	17.6	7.4 9.4	0.1	20.2 28.8
2019	15.0	9.9	0.1	25.0
2016 2017 2018 2019 2020	15.0 12.8	10.0	0.1 0.1	28.8 25.0 22.8
2021	15.3 14.2	9.4 9.9 10.0 9.7 10.3	0.1	25.0 24.7 25.4
2022	14.2	10.3	0.1 0.1	24.7
2023	15.4	10.0	0.1	25.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000				
1960 1965	0.6 0.5 0.5 2.3 3.5 3.3 3.3 3.6 3.2	1.3 1.4	5.7 6.1	7.7 8.0 9.3
1965	0.5 0.5	1.4	6.9	0.U 0.3
1975	2.3	1.7	6.8	10.9
1980	3.5	1.3	6.8	11.5
1985	3.3	1.3	6.4	11.0
1990	3.3	1.3	7.1	11.7
1995	3.6	1.8	7.3	12.7
1996	3.2	2.0 1.9	7.5	12.7
1997	4.1 3.9	1.9	7.2 7.1	13.2
1998	3.9	1.8	7.1	12.8
1999	4.4	1.9 2.0	7.1	13.4
2000	4.8 4.2 3.8	2.0	7.4	14.2 13.5 13.7
2001	4.2	2.0	7.3	13.5
2002	3.8	2.2	7.7	13.7
2003	4.1	2.3 2.2	7.3	13.7
2004 2005	4.1 4.2 3.5	2.2 2.3	7.4 7.5	13.7 13.3
2005	ა.ა ა ი	2.3 2.2	7.5 7.4	13.3
2006	3.8 3.2	2.2 2.8	7.4 7.8	13.8
2007	3.2 4.1	3.4	7.6 7.4	14.9
2009	36	3.5	7.6	14.7
2010	3.6 3.7	3.8	7.5	15.1
2011	3.1	3.9	7.7	14.6
2012	3.4	3.9 3.7	7.7	14.9
2013	3.3	4.4	7.6	15.3
2014	3.3 3.2	4.4	7.8	15.3 15.3
2015	1.9 2.5 2.5 2.6	4.3	7.9	14.1
2016	2.5	4.4	7.8	14.7
2017	2.5	4.4	7.7	14.6
2018	2.6	4.9	7.9	15.4
2019	3.0	5.0	7.9	15.9
2020	2.1	4.7	8.1	14.9
2021	2.1	5.0	8.0	15.1 15.4
2022	2.4 2.1	5.1	8.0 7.7	15.4 15.1
2023	2.1	5.2	1.1	15.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

## Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

, <del> </del>				
「 」 Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1		Hatarar gao	1 ottoloum	10141
1960	0.1	0.4	0.0	1 /
1965	0.1	0.5	0.9 0.8	1.4 1.4
1965 1970	(s)	0.4 0.5 0.7	0.8	1.6
1975	(s)	0.6	0.8 0.7	1.6 1.4
<b>*</b> 1980	(s)	0.6	0.6 0.5	1.2
1985 1990	(s)	0.6	0.5	1.1
1990	(s)	0.5	0.8	1.4
1995	(s)	0.7	0.5	1.2
1995 1996 1997	(S)	U.8	U.7	1.5
1002	(5)	0.7	0.0 0.5	1.0 1.1
1998	(s)	0.0	0.5	11
2000	(s)	0.7	0.6	1.2
2001	(s)	0.7	0.5	1.1
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	0.1 0.1 (s)	0.6 0.6 0.5 0.7 0.8 0.7 0.6 0.6 0.7 0.7 0.7 0.7	0.8 0.5 0.7 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.4	1.2
2003	(s)	0.7	0.5	1.2
2004	(s)	0.7	0.4	1.1
2005	(S)	0.7	0.4	1.0
2006	(S)	0.6 0.7 0.7	0.4	1.0
2007	(S) —	0.7 0.7	0.4 0.5	1.0
2000		0.7	0.3	1.2
2010	<u> </u>	0.7	0.4	1.1
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	0.7 0.7 0.7 0.6 0.8 0.8 0.7 0.7	0.4 0.3 0.3 0.3	1.0
2012	_	0.6	0.3	0.9
2013	_	0.8	0.3	1.1
2014	<del>-</del>	0.8	0.3	1.1
2015	<del>-</del>	0.7	0.3	0.9
2016	<del>-</del>	U.7	U.3	1.U 1.0
2017	_	0.7 0.8	0.3 0.3 0.3 0.3	1.0
2010	_	0.0 0.8	0.3	1.2
2018 2019 2020 2021 2022 2023	_	0.8 0.8 0.8	0.3	1.2 1.1 1.4 1.2 1.5 1.3 1.1 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1
2021	_	0.7	0.3	1.0
2022	_	0.7 0.8 0.7	0.3 0.3 0.3	1.0 1.1 1.0
2023	_	0.7	0.3	1.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

V	0-1	National cone 2	Patralaum h	7.1.1
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.1	0.4	0.2	0.7
1965	0.1	0.5	0.2 0.2	0.7
1965 1970	(s)	0.6	0.2	0.7 0.9 0.9 0.7 0.8 0.7
1975	(s) (s)	0.6	0.2	0.9
1980	(s) (s)	0.5	0.2 0.2	0.7
1985	(s)	0.5	0.2	0.8
1990	(s)	0.5	0.2 0.2 0.2 0.2	0.7
1995	(S)	0.6	0.2	0.8
1996 1997	(S)	0.6 0.6	0.2 0.2	0.8
1998	(s) (s) (s)	0.5	0.2	0.8 0.8 0.8 0.7
1999		0.5	0.2	0.7
1999 2000	(s) (s) (s) (s)	0.5 0.5	0.2	0.7 0.7 0.7
2001	(s)	0.5	0.2 0.2	0.7
2002	(s)	0.5 0.6	0.2 0.2 0.1	0.7 0.7 0.7 0.7
2003 2004	(s)	0.6	0.2	0.7
2004	(s)	0.5	0.1	0.7
2005	(s)	0.5	0.1	0.7
2006	(s)	0.5 0.5	0.1 0.2	0.6
2007 2008	(s) (s)	0.5	0.2	U.7 0.0
2008	(8)	0.6	0.2	0.0 0.8
2010	(3)	0.0	0.2	0.0
2011	(s) (s)	0.6	0.2	0.8
2012	(s)	0.6 0.6 0.5 0.7	0.2 0.2 0.2 0.2 0.2 0.1	0.6
2013	<del> </del>	0.7	0.1 0.1	0.8
2011 2012 2013 2014	_	0.7	0.1	0.6 0.7 0.8 0.8 0.8 0.6 0.6 0.8 0.7 0.7
2015 2016	_	0.6 0.6	0.1	0.7
2016	_	0.6	0.1 0.2	0.7
2017 2018	_	0.6	0.2	0.8
2018 2019	_	0.7	0.2 0.2 0.2	0.9
2019		0.8 0.7	0.2 0.2	0.9 0.0
2020	_	0.7	0.2	0.9 0.8
2021 2022	_	0.7	0.2	0.0
2023	_	0.7	0.2 0.2 0.2 0.2	0.9 0.9 0.9 0.8 0.9
		***	•	***

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s)	0.3	1.8	2.1
1965	(s)	0.3 0.2	1.8 1.9	2.1
1970	(s)	0.4	1.9 1.4	2.2
1975 1980	(s) (s) (s) 0.1 0.2 0.5	0.3	1.4	1.8
1980	0.2	0.2 0.2	1.4	1.9
1985 1990 1995	0.5	0.2 0.3	1.0	1.7
1990	0.4 0.6 0.6 0.7 0.7	0.3 0.4	1.4 1.2 1.3 1.2	2.0
1996	0.6	0.4	1.3	2.3
1996 1997	0.7	0.4	1.2	2.3
1998 1999 2000 2001	0.7	0.4 0.3 0.3 0.3 0.2 0.6 0.6 0.6 0.6	1.0	2.1
1999	0.8	0.3	1.1	2.2
2000	0.8 1.2 0.6 0.5 0.6 0.4 0.4	0.3	1.1 1.1 1.2	2.5
2001	0.6	0.2	1.2	2.0
2002 2003 2004 2005 2006 2007 2008	0.5	0.6	1.1 1.1 1.2	2.2
2003	0.0 0.4	0.0 0.6	1.1 1.2	2.3 2.1
2004	0.4	0.0	1.1	2.1
2006		0.6	1.1	2.1
2007	0.4	1.1	1.2	2.7
2008	0.4 0.4 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	1.1 1.7	1.1 1.2 1.0	3.0
2009 2010 2011 2012 2013 2014 2015 2016 2017	0.2	1.9 2.1 2.1 2.2 2.4 2.4	1.0 0.9 1.1 1.0	3.1
2010	0.3	2.1	0.9	3.3
2011	0.3	2.1	1.1	3.6
2012	0.3	2.2	1.U	3.5
2013	0.3 0.3	2.4 2.4	1.1 1.0	3.0 3.7
2014	0.3	2.4	1.0	3.7
2016	0.3	2.4	1.0	3.7
2017	0.4	2.4	0.9	3.7
2018	0.3	2.5	0.9	3.8
2018 2019 2020	0.4	2.4 2.4 2.4 2.5 2.5 2.5	0.9	3.8
2020	0.3	2.5	1.3	2.1 2.2 1.8 1.9 1.7 2.0 2.2 2.3 2.1 2.2 2.5 2.0 2.2 2.3 2.1 2.2 2.3 2.1 2.2 3.3 3.1 3.0 3.1 3.3 3.6 3.5 3.8 3.7 3.7 3.7 3.7 3.7 3.8 3.8 4.1 4.0 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9
2021 2022 2023	0.3 0.4	2.7 2.5 2.4	1.0	4.0
2022	0.4 0.4	2.5	1.0 0.9	3.9
2023	0.4	2.4	0.9	3.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

Year         Coal B         Natural gas b         Petroleum c         Total           1980         (s)         (s)         2.9         2.9           1985         (s)         3.2         3.2           1970         (s)         (s)         3.8         3.8           1975         (s)         4.4         4.4         4.4           1980         —         (s)         4.5         4.5           1980         —         (s)         4.6         4.6         4.6           1980         —         (s)         4.7         4.7         4.7         4.7         4.7         4.7         1.95         4.6					
1960   (s)	Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1975   (s)					
1975   (s)	1960	(s)	(s)	2.9	2.9
1975   (s)	1965	(s)	(s)	3.2	3.2
1975   (s)	1970	(s)	(s)	3.8	3.8
1980	1975	(s)	(s)	4.4	4.4
1985	1980		(s)	4.5	4.5
1990	1985		(s)	4.6	4.6
1995	1990		(S)	4.7	4.7
1997	1995		U. I	5.4	5.5 F. F.
1997	1990		0.2	5.4 5.0	5.5 5.4
1999	1997		0.2	5.2 5.1	5. <del>4</del> 5.5
1000	1999		0.2	5. <del>4</del> 5.4	5.7
2001         —         0.3         5.4         5.7           2002         —         0.3         5.9         6.3           2003         —         0.3         5.6         5.9           2004         —         0.3         5.6         6.0           2005         —         0.3         5.8         6.1           2006         —         0.3         5.8         6.1           2007         —         0.3         6.0         6.3           2008         —         0.2         5.7         5.9           2009         —         0.2         5.7         5.9           2010         —         0.2         6.0         6.3           2011         —         0.3         6.1         6.4           2012         —         0.3         6.1         6.4           2013         —         0.4         6.1         6.4           2014         —         0.3         6.5         6.8           2015         —         0.3         6.5         6.8           2016         —         0.4         6.3         6.7           2018         —         0.4	2000	_	0.3	5.5	5.8
2002         —         0.3         5.9         6.3           2003         —         0.3         5.6         5.9           2004         —         0.3         5.6         6.0           2005         —         0.3         5.8         6.1           2006         —         0.3         5.8         6.1           2007         —         0.3         6.0         6.3           2008         —         0.2         5.7         5.9           2009         —         0.2         6.0         6.1           2010         —         0.3         6.1         6.4           2011         —         0.3         6.3         6.7           2012         —         0.3         6.3         6.7           2013         —         0.4         6.1         6.4           2014         —         0.3         6.5         6.8           2015         —         0.3         6.5         6.8           2016         —         0.4         6.3         6.7           2017         —         0.4         6.3         6.7           2018         —         0.4	2001	_	0.3	5.4	5.7
2003       —       0.3       5.6       5.9         2004       —       0.3       5.8       6.1         2005       —       0.3       5.8       6.1         2006       —       0.3       6.0       6.3         2007       —       0.2       5.7       5.9         2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2019       —       0.4       6.3       6.7	2002	_	0.3	5.9	6.3
2004       —       0.3       5.6       6.0         2005       —       0.3       5.8       6.1         2007       —       0.3       6.0       6.3         2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.3       6.5       6.9         2023       —       0.4       6.5       6.9	2003	_	0.3	5.6	5.9
2005       —       0.3       5.8       6.1         2006       —       0.3       5.8       6.1         2007       —       0.3       6.0       6.3         2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.5       6.8         2016       —       0.3       6.5       6.8         2017       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.9	2004		0.3	5.6	6.0
2006       —       0.3       5.8       6.1         2007       —       0.3       6.0       6.3         2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.5       6.9         2023       —       0.3       6.5	2005	_	0.3	5.8	6.1
2007       —       0.3       6.0       6.3         2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2020       —       0.4       6.3       6.7         2021       —       0.3       6.2       6.5         2021       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.5         2021       —       0.4       6.5       6.5	2006		0.3	5.8	6.1
2008       —       0.2       5.7       5.9         2009       —       0.2       6.0       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4       6.7         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2020       —       0.4       6.3       6.7         2021       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2023       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.5       6.9         2023       —       0.4       6.5       6.5       6.9         2023       —	2007		0.3	6.0	6.3
2009       —       0.2       6.1       6.1         2010       —       0.3       6.1       6.4         2011       —       0.4       6.0       6.4         2012       —       0.3       6.3       6.7         2013       —       0.4       6.1       6.4         2014       —       0.3       6.4       6.7         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2018       —       0.4       6.3       6.7         2020       —       0.4       6.3       6.7         2021       —       0.3       6.2       6.5         2022       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.9         2023       —       0.3       6.5       6.9         2023       —       0.4       6.3       6.7	2008		0.2	5.7	5.9
2010       —       0.3       6.1       6.4         2011       —       0.3       6.3       6.7         2012       —       0.4       6.1       6.4         2013       —       0.3       6.4       6.7         2014       —       0.3       6.5       6.8         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2009		0.2	6.0	6.1
2011       —       0.4       6.3       6.7         2012       —       0.4       6.1       6.4         2013       —       0.3       6.4       6.7         2014       —       0.3       6.5       6.8         2015       —       0.4       6.3       6.7         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2010	<del>-</del>	0.3	D. I 6 O	0.4 6.4
2012       -       0.3       6.1       6.4         2014       -       0.3       6.4       6.7         2015       -       0.3       6.5       6.8         2016       -       0.4       6.3       6.7         2017       -       0.4       6.3       6.7         2018       -       0.4       6.4       6.8         2019       -       0.4       6.3       6.7         2020       -       0.3       6.2       6.5         2021       -       0.3       6.5       6.9         2022       -       0.4       6.5       6.9         2023       -       0.3       6.3       6.7	2011	_	0.4	6.0	0.4 6.7
2014       —       0.3       6.4       6.7         2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2012		0.3	0.5 6 1	6.7
2015       —       0.3       6.5       6.8         2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2014		0.4	6.1	6.7
2016       —       0.4       6.3       6.7         2017       —       0.4       6.3       6.7         2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2015		0.3	6.5	6.8
2017     —     0.4     6.3     6.7       2018     —     0.4     6.4     6.8       2019     —     0.4     6.3     6.7       2020     —     0.3     6.2     6.5       2021     —     0.3     6.5     6.9       2022     —     0.4     6.5     6.9       2023     —     0.3     6.3     6.7	2016		0.4	6.3	6.7
2018       —       0.4       6.4       6.8         2019       —       0.4       6.3       6.7         2020       —       0.3       6.2       6.5         2021       —       0.3       6.5       6.9         2022       —       0.4       6.5       6.9         2023       —       0.3       6.3       6.7	2017	_	0.4	6.3	6.7
2019     —     0.4     6.3     6.7       2020     —     0.3     6.2     6.5       2021     —     0.3     6.5     6.9       2022     —     0.4     6.5     6.9       2023     —     0.3     6.3     6.7	2018		0.4	6.4	6.8
2020     —     0.3     6.2     6.5       2021     —     0.3     6.5     6.9       2022     —     0.4     6.5     6.9       2023     —     0.3     6.3     6.7	2019	_	0.4	6.3	6.7
2021     —     0.3     6.5     6.9       2022     —     0.4     6.5     6.9       2023     —     0.3     6.3     6.7	2020	_	0.3	6.2	6.5
2022     —     0.4     6.5     6.9       2023     —     0.3     6.3     6.7	2021	_	0.3	6.5	6.9
- 0.3 6.3 6.7	2022	_	0.4	6.5	6.9
	2023	_	0.3	6.3	6.7

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, South Dakota (million metric tons of carbon dioxide (CO2))

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Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	•		4.5	
1960	0.4	0.2 0.2 0.2 0.2 (s) (s) (s) 0.1 (s)	(s) (s) 0.1	0.7
1965 1970	0.4 0.5	0.2 0.2	(S)	0.0 0.0
1970	2.2	0.2	0.1	2.4
1975 1980	3.2	(s)	(s)	3.3
1985	2.8	(s)	0.1 (s) (s)	2.8
1985 1990	2.9	(s)	(s)	3.0
1995	2.9	0.1	(s) (s)	3.0
1995 1996 1997	2.5	(s)	(s)	2.6
1997	3.4	0.1	(s)	3.5
1996	ত।। ও ৪	0.2 0.1	(S)	ა.ა ვ გ
2000	3.6	0.1	(s) (s) 0.1	3.9
2001	3.6	0.2	(s)	3.9
2002	3.3	0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.2	(s) (s)	3.4
2003	3.5	0.1	(S)	3.7
2004	3.8	0.1	(s)	3.9
2005	3.1	0.2	(s)	3.3
2006	3.3	0.2	(s) (s) 0.1	3.5
2007	2./ 2.0	0.2 0.1	0.1 (s)	3.U 2.0
2000	3.4	(s)	(s)	3.4
2010	3.5	(s) 0.1	(s)	3.6
2011	2.8	0.1	(s)	2.9
2012	3.1	0.1	(s)	3.2
2013	2.9	0.2	(s) (s)	3.2
2014	2.8	0.2	(s)	3.0
2015	1.0	0.3	(s)	1.9
2010	2.2	0.4 0.3	(s) (s)	2.0 2.5
2017	2.1	0.5	(s)	2.9
2019	2.7	0.1 0.2 0.2 0.3 0.4 0.3 0.5 0.5	(s)	3.2
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	0.4 0.4 0.5 2.2 3.2 2.8 2.9 2.9 2.5 3.4 3.1 3.6 3.6 3.3 3.5 3.8 3.1 3.3 2.7 3.8 3.1 3.3 2.7 3.8 3.1 3.2 3.1 3.2 3.5 3.8 3.1 3.1 3.2 3.1 3.2 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.2 3.3 3.5 3.8 3.1 3.1 3.2 3.5 3.8 3.1 3.1 3.2 3.5 3.8 3.1 3.1 3.2 3.5 3.8 3.1 3.1 3.2 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	0.5	(s) (s)	0.7 0.6 0.9 2.4 3.3 2.8 3.0 3.0 2.6 3.5 3.3 3.8 3.9 3.9 3.4 3.7 3.9 3.3 3.5 3.0 3.9 3.4 3.7 3.9 3.2 3.0 1.9 2.6 2.5 2.9 3.2 2.3 2.4 2.7 2.7
2021	1.7	0.6 0.7 1.0	(s)	2.4
2022	2.0	0.7	(s) (s)	2.7
2023	1.7	1.0	(s)	2.7

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Tennessee

(million metric tons of carbon dioxide (CO2))

Vacu	Cool	Netwel acc 2	Petroleum <sup>b</sup>	Tatal
Year	Coal	Natural gas <sup>a</sup>	Petroleum °	Total
1960	35.6	7.9	14.9	58.4
1965	32.2	11.0	18.9	62.1
1970	38.4	13.7	25.9	77.9
1975	44.8	11.7	33.2	89.7
1980	54.8	12.2	33.8	100.8
1985	57.0	10.3	36.1	103.4
1990	57.1	11.9	36.5	105.5
1995	63.5	13.8	41.2	118.6 119.6
1996	61.8	15.1	42.7	119.6
1997 1998	64.6 61.9	15.2 15.0	43.0 45.2	122.8
1998	61.7	14.9	45.2 46.2	122.0 122.8
2000	67.1	14.9	40.2 47.0	122.0
2001	65.4	13.9	47.0 47.9	120.7
2002	62.5	13.8	49.9	126.2
2003	62.5 59.3 61.8	14.0	51.8	125.1
2004	61.8	12.5	52.6	125.1 126.9
2005	62.8	12.5	52.7	128.1
2006	64.6	12.1	53.2 52.8	129.8
2007	64.1	12.0	52.8	129.0
2008	61.4	12.5	48.5	122.4
2009	45.6	11.7	44.6	101.8
2010	49.2	13.8	46.2	109.2
2011	45.9	14.1	45.4	105.4
2012	40.4	14.8	43.7	98.9
2013 2014	38.2 40.8	14.9 16.5	43.9 45.0	97.0 102.3
2014	40.8 35.4	16.8	45.0 46.1	1U2.3 09.3
2016	36.3	17.5	47.0	90.3 100 Q
2017	32.0	17.3	47.7	98.3 100.9 96.9
2018	24.1	21.1	48.2	93.4
2019	20.7	21.1 21.9	49.2	91.9
2020	16.9	20.8	45.3	82.9 92.2 91.3 88.5
2021	21.6	21.5	49.0	92.2
2022	19.6	22.9	48.8	91.3
2023	19.4	20.7	48.5	88.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Tennessee (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	1.3	1.9	0.6	3.8
1965	1.3 0.9	1.9 2.1	0.6 0.7	3.6
1970	0.7 0.2	2.5 2.4	1.4 1.3	4.7
1975	0.2	2.4	1.3	3.9
1980 1985 1990 1995 1996 1997 1998 1999 2000 2001	0.1 0.1	2.4 2.2 2.5 3.3 3.9 3.5 3.2 3.3 3.8 3.7 3.8 3.8 3.6 3.6 3.6 3.6 3.4 3.3	0.7 0.7	3.2
1985	0.1	2.2	0.7	2.9
1990	0.1 (s) (s) (s) (s) (s) (s) (s)	2.3 3.3	0.6 0.8	3.3 4.1
1996	(5)	3.0	0.0 1 N	4.1
1997	(s)	3.5	0.9	4.4
1998	(s)	3.2	1.0 0.9 0.8	4.1
1999	(s)	3.3	1.0	4.3
2000	(s)	3.8	1.0 1.0 0.8 0.9 0.8 0.8 0.8 0.7 0.7	4.8
2001		3.7	0.8	4.6
2002 2003 2004 2005 2006 2007 2008	(s) (s) (s) (s) (s) (s)	3.8	0.9	4.7
2003	(S)	3.8	0.8	4.6
2004	(8)	ა.o 3.6	0.0 0.8	4.4 <i>A A</i>
2006	(5)	3.4	0.0	4.4 4.1
2007	(s)	3.3	0.7	4.1
2008	<del>(-)</del>	3.8	0.6	4.4
2009	_	3.6	0.7 0.8 0.5 0.3	4.3
2010	_	4.0	0.8	4.8
2011	<del>-</del>	3.6	0.5	4.1
2012	_	2.9	0.3	3.2
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	3.6 4.0 3.6 2.9 3.8 4.3 3.7 3.2 3.1 4.1	0.4 0.5	4.2
2014	_	4.3 3.7	0.5 0.4	4.0 <i>1</i> .1
2016	<u> </u>	3.2	0.4 0.4	36
2017	_	3.1	0.4	3.5
2018	<u> </u>	4.1	0.4	4.6
2018 2019 2020	_	3.8	0.5	3.8 3.6 4.7 3.9 3.2 2.9 3.3 4.1 4.8 4.4 4.1 4.3 4.8 4.6 4.7 4.6 4.4 4.1 4.1 4.1 4.1 3.2 4.2 4.8 4.1 3.2 4.2 4.8 4.1 3.6 3.5 4.6 4.3 4.0 4.4 4.5 3.9
2020	_	3.6	0.4	4.0
2021 2022 2023	<del>-</del>	4.0 4.0 3.5	0.4 0.5	4.4
2022	_	4.0	0.5	4.5
2023	_	3.5	0.4	3.9

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Tennessee (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.9	1.3	0.3	2.5
1965	0.7	1.6	0.3	2.6
1970	0.5	2.3	0.6	3.5
1970 1975	0.5	2.3	0.7	3.5
1980 1985	0.4	2.4	0.8	3.6
1985	0.3	2.4 2.4	1.7	4.4
1990	0.4	2.4	0.6	3.4
1995 1996	0.3 0.2	2.8 3.2	0.5	3.6
1996	0.2	3.2	0.6 0.6	4.1
1997	0.3 0.1	3.0 2.9	0.6	3.9
1998	0.1	2.9	0.6	3.5
1999 2000	0.2	2.9 2.9	0.6	3.7
2000	0.2	2.9	0.7	3.9
2001	0.3 0.1	2.9	0.6 0.7	3.8 0.7
2002	0.1	2.9 3.1	0.7	3. <i>1</i>
2003	0.3 0.1	3.0	0.7	4.1 2.0
2002 2003 2004 2005	0.1	3.0	0.7	3.0 3.5
2005	0.1	2.8	0.5 0.5	3.4
2006 2007	0.1 0.1	2.8 2.8	0.5	3.5
2008	0.2	3.0	0.5 0.6 0.5	3.7
2009	0.2	2.8	0.6	3.7
2010	0.2	3.1	0.6	3.9
2011	0.2 0.2 0.2 0.2 0.2 0.2	2.8	0.6 0.6 0.6 0.6	3.6
2012	0.2	2.4	0.6	3.1
2013	0.2	2.9	0.4	3.5
2009 2010 2011 2012 2013 2014 2015 2016	0.1	3.1 2.8 2.4 2.9 3.1 2.9 2.7 2.7	0.4 0.5 0.9 0.9	3.8
2015	(s)	2.9	0.9	3.8
2016		2.7	0.9	3.7
2017	_	2.7	1.0	3.7
2018	_	3.2 3.1	1.0 1.0	4.3
2019	<del>-</del>	3.1	1.0	4.2
2017 2018 2019 2020 2021 2022 2023	<del>-</del>	2.9 3.2	1.0	2.5 2.6 3.5 3.5 3.6 4.4 3.4 3.6 4.1 3.9 3.5 3.7 3.9 3.8 3.7 4.1 3.8 3.5 3.7 4.1 3.8 3.5 3.7 4.1 3.8 3.5 3.7 4.1 3.8 3.5 3.7 3.7 3.7 3.7 3.7 3.9 3.6 3.1 3.5 3.8 3.8 3.7 4.3 4.2 3.9 4.3 4.2 3.9 4.3 4.4
2021	_	3.2	1.0	4.3
2022	<del>-</del>	3.3 2.9	1.0	4.4
2023	<del>-</del>	2.9	1.0	3.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Tennessee (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	5.5	4.0	2.2	11.7
1965	6.7	5.2	2.2 3.2	15.1
1970	5.5	6.5	3.8	15.7
1975	4.7	5.9	4.3	14.9
1980	6.3 9.7 9.2 9.0 8.7 8.5 8.1	6.4	4.3 4.2 3.5 3.3 3.8	16.9
1985	9.7	5.2	3.5	18.3
1990	9.2	5.8	3.3	18.3
1995 1996	9.0	6.6 6.7	3.8 4.0	19.4 19.3
1997	0.7 8.5	0. <i>1</i> 7.3	4.0	19.5
1998	8.1	7.3 7.6	4.5	19.9 20.2
1999	7.8	7.6	4.3	19.7
1999 2000	7.8 8.2 8.7	6.9 6.3	4.3 3.8 5.5	18.9
2001	8.7	6.3	5.5	20.5 19.4
2002	8.2 8.2 7.9 7.7	6.3	5.0	19.4
2003	8.2	6.0	5.3	19.5
2003 2004 2005	7.9	6.0 5.3 5.1	5.3 6.3 6.5	19.5 19.5 19.3
2005	7.4	5.1	0.5 6.7	19.3
2006 2007	7.4	5.U 1 Q	6.7 6.3	19.1 18.5
2008	7.4 7.3 7.3 6.3 6.6 6.3 6.1	5.0 4.9 4.9	5.8	19.1 18.5 17.9
2009	6.3	4.4	3.0	13.7
2010	6.6	5.0	2.9	14.4
2011 2012	6.3	5.6	2.8	14.8
2012	6.1	5.0 5.6 5.5 5.8 6.2	2.9	13.7 14.4 14.8 14.5
2013 2014	6.1	5.8	2.9	14.9 14.8
2014	5.8	6.2	2.8	14.8
2015 2016	5.3 4 0	6.1 6.5	3.0	14.4 14.5
2017	4.0 3.8	7.1	3.2	14.5
2017	3.5	7.1	3.2	14.5
2019	6.1 5.8 5.3 4.8 3.8 3.5 3.1	7.8	3.2	14.1
2018 2019 2020 2021 2022 2023	2.8 2.9 2.6 2.8	7.8 7.8 7.7	5.8 3.0 2.9 2.8 2.9 2.9 2.8 3.0 3.2 3.2 3.2 3.2 3.2	13.7
2021	2.9	8.1	3.1	14.2 13.8 13.5
2022	2.6	8.1	3.1 3.1	13.8
2023	2.8	7.6	3.1	13.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Tennessee (million metric tons of carbon dioxide (CO2))

.,	- 12			
Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	0.3	11.9	12.2
1965	(s)	1.3	14.7	16.0
1970	(s) (s)	1.4	20.0	21.5
1975	(s)	1.0	26.4	27.4
1980	<del>-</del>	0.9	28.0	28.9
1985	_	0.6	30.1	30.7 32.9 37.0 38.3 38.6 39.5 40.7
1990	_	1.1	31.8 36.0	32.9
1995	_	1.0	36.0	37.0
1996 1997	<del>-</del>	1.3 1.3 0.9	36.9 37.3	38.3
1997		1.3 0.0	37.3 38.6	30.0 30.5
1999		0.9	39.9	39.3 40.7
2000	_	0.8	41.0	41.7
2001	_	0.8	40.6	41.3
2002	_	0.6	43.2	43.8
2003	_	0.7	44.7	45.4
2004	_	0.6	44.6	45.2
2005	_	0.5	44.8	45.2 45.3
2006	<del>-</del> -	0.5	45.2	45.7
2007	_	0.6	45.2	45.7
2008	_	0.6	41.5	42.1
2009	_	0.6	40.0	40.6
2010 2011	_	0.5 0.6	41.7 41.3	42.3 41.9
2012	=	0.6	39.8	40.4
2012	_	0.3	40.1	40.4
2014	_	0.4	41.1	41.5
2015	<u> </u>	0.4	41.7	42.1
2016	_	0.4	42.4	42.8
2017	_	0.3	43.0	43.3
2018	<del>-</del>	0.5	43.5	43.9
2019	_	0.8	44.4	45.3
2020	<del>-</del>	1.0	40.6	41.6
2021	_	1.0	44.3	45.3
2022		1.0	44.0	45.0
2023	_	1.1	43.9	45.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Tennessee (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	27.8	0.4	(s)	28.1
1965	23.9	0.9	( <del>0)</del>	24.8
1970	31.6	0.9	_	32.6
1975	39.4	<del>_</del>	0.6	40.0
1980	47.9	0.1	0.2	48.2
1985	46.9		0.1	47.0
1990 1995	47.4 54.2	(s) 0.1	0.1 0.2	47.5 54.5
1996	54.2 52.9	(9)	0.2	53.1
1997	55.8	(s) 0.1	0.2	56.0
1998	55.8 53.7	0.3	0.6	54.7
1999	53.6	0.3	0.4	54.4
2000	58.6	0.3	0.5	59.3
2001	56.4	0.1	0.4	56.9 54.5
2002 2003	54.2	0.1 0.3	0.2	54.5
2003	50.8 53.8	0.3 0.1	0.4 0.1	51.4 54.0
2005	55.0	0.1	0.2	54.0 55.5
2006	57.1	0.4	0.1	57.5
2007	56.6	0.4	0.1	57.2
2008 2009	53.9	0.2	0.2	54.3
2009	39.1	0.2 1.2 1.4	0.1	39.4
2010	42.4	1.2	0.2 0.2	43.8
2011 2012	39.4	3.4	0.2 0.1	41.0 37.7
2012	34.2 31.9	2.0	0.1	37.7 33.0
2014	34.9	2.4	0.2	33.9 37.5 33.9 36.2 32.3
2015	30.1	3.7	0.1	33.9
2016	31.5 28.2	4.7	0.1	36.2
2017	28.2	4.0	0.1	32.3
2018	20.6	5.5	0.1	26.1
2019 2020	17.6 14.1	6.3 5.6	0.1	24.0 19.7
2020	14.1	5.0 5.0	0.1 0.1	19.7 24.0
2021	16.7 17.0	5.2 6.5	0.1	24.0 93.7
2023	16.6	5.2 6.5 5.5	0.2	23.7 22.2
	10.0	0.0	0.1	LLIL

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	L	<del>-</del>		
1960	2.3	145.7	92.5	240.5
1965	2.7	165.0	111.6	279.3
1970	2.8	218.4	142.2	363.4
1975	18.5	210.8	182.0	411.3
1980	69.7	220.3	238.6	528.6
1985	109.2	183.3	229.3	521.8
1990	126.8	202.0	248.1	576.9
1995	129.7	210.0	258.2	597.9 643.2
1996	141.1	221.8	280.3	643.2
1997	144.7	220.0	292.9	657.6
1998	141.5	227.4	293.6	662.5
1999	145.6	215.4	292.2	653.3
2000	147.4	237.0	295.4	679.8 673.5
2001	142.2	228.2	303.2	0/3.5
2002 2003	147.9 153.2	231.7 218.9	304.7 305.6	684.3 677.7
2003	155.4	210.9	310.1	677.7 677.2
2004	155.6	190.0	305.1	650.7
2006	153.6	186.0	314.8	654.4
2007	153.6	189.9	308.7	652.2
2008	153.3	191.2	282.9	627.4
2009	143.0	182.4	267.8	593.2
2010	149.8	193.3	272.8	615.9
2011	161.9	199.3	273.8	615.9 635.0
2012	143.2	207.7	276.4	627.3
2013	152.6	216.3	288.3	657.2
2014	151.4	212.3	297.5	661.2
2015	128.1	221.1	303.5	652.8
2016	126.4	215.1	312.0	653.5
2017	138.8	206.4	316.7	662.0
2018	113.8	238.2	329.9	681.9
2019	94.9	248.7	338.1	681.7
2020	83.6	247.9	294.0	625.5
2021	92.8	247.2	322.8	662.8
2022	89.3	259.6	317.1	666.1
2023	77.2	274.1	318.6	669.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal a	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965	(s)	9.4 10.0	2.2 2.9	11.7
1900	(s) (s)	12.6	2.9 3.4	12.9 16.1
1970 1975	( <del>3)</del>	12.7	2.6	15.3
1980		12.3	1.4	13.7
1985	(s) (s) (s)	11.7	1.6	13.4
1990	(s)	11.6	1.3	13.0
1995	_	11.4	0.7	12.2
1996		12.6	0.5	13.1
1997 1998	(s) (s)	12.8 11.1	0.8 1.0	13.6 12.1
1999	(S) (S)	9.7	2.0	11.7
2000	(S) (S)	10.6	2.4	13.0
2001	(s)	11.3	2.7	14.0
2002	(s)	11.5	2.4	13.9
2003	(s)	11.3	2.1	13.4
2004	(s)	10.5	1.7	12.2
2005	(s)	10.1	1.9	12.0
2006	(s) (s)	9.0	1.5	10.5
2007	(S)	10.9	1.6	12.5
2008 2009		10.5 10.4	1.5 1.3	12.0 11.7
2009	_	10.4	1.3	13.7
2011	_	10.9	1.2	12.1
2012	_	9.3	0.9	10.2
2013	_	11.3	1.1	12.4
2014	_	12.8	1.2	14.0
2015	_	11.6	1.2 1.2	12.8
2016	_	9.6	1.2	10.8
2017	_	8.9	1.0	9.9
2018 2019		12.4 12.4	1.0 1.4	13.4 13.7
2019		11.1	1.4	13.7
2020	_	11.4	0.8	12.1
2022	_	12.5	1.2	13.8
2023	<del>-</del>	10.8	1.0	11.8

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
-	1			
1960	(s) (s) (s)	3.3	1.5 1.7	4.8 6.1
1965	(s)	4.4	1.7	6.1
1970 1975	(s)	8.0	3.2	11.1
19/5	<del>-</del>	6.4	3.8	10.2
1980	(s) (s) (s)	9.2 8.4 9.5	5.4 4.4 2.3	14.6 12.7
1985	(S)	8.4	4.4	12./
1990		9.5 11.6	2.3	11.8
1995 1996	_	11.6 9.8	1.4 1.4	13.0 11.2
1996		9.0	1.4	11.2
1998	(s) (s)	9.4	1.3 1.7	13.2 11.2
1999	(S)	9.4	1.9	11.4
2000	(5)	10.4	3.3	13.7
2001	(s)	9.3	2.5	11.8
2002	(s) (s) 0.1	12.4	1.8	14.3
2003	0.2 (s) (s)	11.9	2.1	14.2
2004	(s)	10.6	1.3	11.9
2005	(s)	8.7	1.9	10.6
2006	(s)	8.0 8.8 9.1	1.7	9.7
2007	(s)	8.8	1.4	10.1
2008	(s)	9.1	1.7	10.8
2009	(s)	9.1	2.0	11.1
2010	(s)	10.4	1.8	12.1 12.6
2011 2012	(s) (s)	10.1	2.5	12.6
2012	(s)	8.8	2.3	11.2
2013	(s)	9.4	2.1	11.5
2014	(s)	10.1	2.0	12.1
2015 2016	(s)	9.6 9.0	3.5 3.5	13.2 12.5
2016	_	9.0	3.5	12.5
2017		9.0	3.Z 2.1	14.8
2016		10.8	3.1 3.3	14.0 14.1
2019		10.0 Q 3	3.3 3.6	12.9
2020 2021 2022	<u> </u>	9.3 9.8	3.6 4.2 3.9 3.5	12.9
2022	<u> </u>	10.6	3.9	14.5
2023		10.6	3.5	14.0 14.5 14.1
_0_0		10.0	0.0	1111

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			L	
1960	2.2	107.8	35.6	145.6
1965	2.7	111.6	46.6	160.9
1970	2.8	134.8	56.1	193.7
1975	7.3	114.1	68.9	190.3
1980	5.9	114.4	108.9	229.2
1985	5.9 8.0 5.8	92.3	84.2	184.6
1990	5.8	112.8	97.6	216.2
1995	6.0	116.8	105.7	228.5 250.7
1996	7.0	129.6	114.1	250.7
1997 1998	7.0 5.9	124.0 125.0	122.7 112.9	253.7 243.9
1999	5.9	125.0	111.9	245.9
2000	6.9	127.0	106.8	240.7
2001	7.1	121.4	108.3	236.8
2002	6.7	119.0	106.0	231.7
2003	6.8 6.6	113.8	110.2	230.8
2004	6.6	111.9	114.9	230.8 233.5
2005	6.6	86.8	109.7	203.1
2006	6.7 3.8 3.7	84.6	112.5	203.8
2007	3.8	85.3	106.2	195.3
2008	3.7	87.5	89.7	180.9
2009	1.6	81.3	82.8	165.7
2010	1.3 1.8	93.0	89.7	184.0
2011	1.8	94.7	90.2	186.8
2012 2013	1.9 2.1	99.7 102.3	97.0 103.1	198.5 207.4
2013	2.1	102.3	103.1	207.4
2015	1.9	106.4	100.0	208.3
2016	1.3	108.1	103.1	212.6
2017	1.2	109.1	105.9	216.2
2018	1.0	118.3	113.4	232.7
2019	0.9	119.3	116.9	237.1
2020	0.6	122.8	108.8	232.2
2021	0.6	125.9	116.5	242.9
2022	0.6	125.6	102.6	228.8
2023	0.4	130.4	104.9	235.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1000	(-)		50.4	50.0
1960 1965	(s) (s)	2.9 3.7	53.1 60.5	56.0 64.2
1970	(5)	5.2	79.4	64.2 84.6
1975	(s) (s)	4.5	105.9	110.4
1980	<del>(e)</del>	5.7	122.1	110.4 127.8
1985	_	5.1	138.3	143.4
1990	_	5.9	146.4	152.2
1995	_	4.5	148.5	153.1
1996	_	4.2	162.3	166.5
1997 1998	_	4.5 3.7	166.4 176.2	170.9 179.9
1999	_	ა./ ვი	176.2	179.9 178.4
2000	_	3.9 3.5	180.1	183.6
2001	_	3.9	186.9	190.8
2002	_	3.9 5.0 3.2 3.2	192.5	190.8 197.4
2003	_	3.2	189.1	192.3
2004	_	3.2	190.4	192.3 193.6
2005	_	4.5	189.8	194.4
2006	_	4.7	197.3	202.0
2007	_	5.0	198.3	203.3
2008	_	6.1	188.8	194.9
2009 2010	_	6.5 4.5	180.1 179.5	186.6 184.0
2010		4.5 4.8	179.5	183.9
2012	<del>-</del>	7.7	176.0	183.7
2013	_	16.2	181.9	198.0
2014	_	5.8	193.9	198.0 199.7
2015	_	4.9 4.9 4.7	198.8	203.7
2016	_	4.9	204.0	208.9 211.3
2017	_	4.7	206.6	211.3
2018	_	6.5	212.3	218.8
2019	_	9.5	216.5	226.0 191.4
2020	_	10.9	180.5	191.4
2021 2022	_	12.3 13.7	201.2 209.1	213.5 222.8
2022		13.7	209.1	222.8 223.0
2023	_	10.9	209.0	223.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Texas (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	22.4	(s)	22.4
1965	<del>-</del>	35.2	(s)	35.2
1970		57.8	0.1	57.9
1975	11.3	73.1	0.9	85.2
1980	63.8	78.6	0.8	57.9 85.2 143.2 167.7
1985	101.1	65.8	0.8	167.7
1990	121.0	62.2	0.4	183.6
1995	123.7	65.7	1.8	191.1 201.7
1996 1997	134.2 137.7	65.5 66.9	2.0 1.7	201.7
1997	137.7	78.2	1.7	206.2 215.5
1999	139.7	78.2 78.3	1.8	219.8
2000	140.5	85.5	2.9	228.8
2001	135.0	82.2	2.8	220.0
2002	141.1	83.8	2.0	226.9
2003	146.2	78.7	2.1	227.0
2004	148.7	75.7	1.8	226.1
2005	148.9	79.9	1.7	230.6
2006	146.9	79.6	1.8	228.4
2007	149.7	79.9	1.3	231.0
2008	149.6	78.1	1.2	228.8
2009	141.4	75.1	1.5	218.0
2010	148.4	73.0	0.6	222.1
2011	160.0	78.8	0.8	239.6
2012	141.3	82.3	0.2	223.7
2013	150.5	77.1	0.2	227.8
2014	148.8	77.5	0.1	226.3
2015	126.2	88.7	0.1	214.9
2016	125.1	83.6	0.1	208.8
2017	137.7	74.7	0.1	212.4
2018	112.7	89.4	(s)	202.2
2019	94.0	96.8	(S)	190.8
2020	83.0	93.8	(s) (s) 0.2	176.8
2021	92.2	87.9	0.2	180.2
2022	88.7	97.2	0.2	186.2
2023	76.7	108.4	0.2	185.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	8.4	3.8	8.8	21.0
1965	7.0	5.2	8.8 9.9	22.1
1970	7.3	6.0	11.2	22.1 24.4
1975	10.8	6.2	14.0	31.0
1980	15.8	6.5	13.5	35.9
1985	18.8	6.5	11.6	35.9 36.9 54.5 58.0 58.7 61.1 63.6 62.4
1990	34.8	6.6	13.1	54.5
1995	34.3	8.7	15.0	58.0
1996 1997	34.1 35.5	8.8	15.8 16.6	58.7
1997	35.5 37.6	9.0 9.3	16.7	01.1 63.6
1999	36.5	8.9	17.1	62.4
2000	38.3	9.1	18.0	65.4
2001	36.6	8.8	17.8	63.2
2002	35.4	9.1	18.1	62.5 63.6 66.0 67.5
2003	36.2	8.6	18.7	63.6
2004	36.2 38.2 38.7	8.7	19.1	66.0
2005	38.7	8.9	19.9	67.5
2006	36.5	10.4	21.8	68.8 70.7 69.8
2007	37.3	12.2	21.2	70.7
2008	37.8	12.5	19.5	69.8
2009 2010	34.8 34.0	11.8 12.1	18.5 17.9	65.1 64.0
2010	33.1	12.1	19.3	64.5
2012	30.8	12.2	18.7	61.7
2013	33.9	13.6	19.0	66.5
2014	33.9 32.8	13.2	19.2	66.5 65.3 63.6 58.8 59.0
2015	31.5 25.7	12.7	19.3	63.6
2016	25.7	13.1	20.0	58.8
2017	26.3	12.1	20.6	59.0
2018	26.1	13.3	21.8	61.2
2019	25.5	14.5	21.4	61.4
2020	23.4	14.0	19.9	57.3
2021	26.5	14.4	21.2	62.1
2022 2023	26.5 22.8 16.7	15.1 15.7	22.3 22.6	62.1 60.2 55.0
2023	10.7	15.7	22.0	55.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		. Tatalai gao		
1960	0.4	12	0.1	1.7
1960 1965 1970 1975	0.3	1.2 1.5	0.1	1.9
1970	0.1	22	0.2	2.5
1975	0.1	3.0 3.3 3.3 2.5	0.3	3.4
1980 1985 1990	0.1	3.3	0.1	3.6
1985	0.1	3.3	0.1	3.6
1990	0.1	2.5	0.1	2.8
1995 1996	(S) (S)	2.8	0.1 0.1	2.9 2.1
1997	(5) (S)	3.0	0.1	3.1
1998	(s)	3.0 3.2 3.2	0.1 0.1	3.2
1999	(s)	3.1	0.1	3.2
1999 2000	(s) (s) (s) 0.1	3.1 3.1	0.1	3.3
2001	(s)	3.1	0.2	3.3
2001 2002 2003 2004 2005	0.1	3.3 3.1	0.1	3.5
2003	(s)	3.1	0.1	3.2
2004	(S)	3.4 3.2	0.1	3.6
2005	(s) (s) (s) (s) (s)	3.2	0.1	3.4
2000	(5)	3.4 3.1	0.2 0.2	ა.ა ვ.ნ
2006 2007 2008	(9) —	3.7	0.2	3.9
2009	_	3.6	0.2	3.8
2010	_	3.7	0.2 0.2 0.2 0.2 0.1 0.1	3.8
2011	_	3.9	0.1	4.0
2012	_	3.3	0.1	3.4
2009 2010 2011 2012 2013 2014 2015 2016	<del>-</del>	3.9	0.1	4.1
2014	<del>-</del>	3.5	0.1	3.6
2015	_	3.2	0.1	3.3
2010	_	3.3 2.7	U.1	3.0
2017 2018 2019 2020 2021 2022 2023	_	3.4 3.4 3.7 3.6 3.7 3.9 3.3 3.9 3.5 3.2 3.5 3.7 4.2 4.1 4.0	0.1 0.2 0.2 0.2 0.2	1.9 2.5 3.4 3.6 3.6 2.8 2.9 3.1 3.4 3.2 3.2 3.3 3.3 3.5 3.5 3.2 3.6 3.4 4.1 3.6 3.8 3.8 4.0 3.4 4.1 3.6 3.8 3.9 4.4 4.1 4.1 4.2 4.1 4.5 4.7
2019	_	3.7 4.2	0.2 0.2	3.9 4.4
2020	_	4.1	0.1	4.2
2021	_	4.0	0.1	4.1
2022	<del>-</del>	4.4 4.6	0.2 0.2	4.5
2023	_	4.6	0.2	4.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	<del></del>	<b>g</b>		
1960	N 3	0.6	0.6	1.4
1965	0.3 0.2	0.0	0.6 0.9 0.8	1.7
1970	0.1	0.8 0.5	0.8	1.4
1970 1975	0.2	0.3	1.2	1.4 1.8 1.4 1.7
1980	0.4	(s) 0.5	1.0	1.5
1985	0.4 0.5 0.1	0.5	0.3	1.5 1.3 1.7
1990	0.5	0.9 1.5 1.6 1.7	0.3 0.2 0.2 0.2 0.3 0.3	1.7
1995 1996 1997	0.1	1.5	0.2	1.9
1996	0.2	1.6	0.2	2.0
1997	0.2 0.2 0.2 0.2 0.2	1./	0.2	2.2
1998	0.2	1.7	0.3	2.2
1999 2000	0.2	1.7 1.7	0.3	2.Z 2.1
2000	0.1	1.7	0.2	2.1 9.9
2002	0.4	1.9	0.4	2.5
2003	0.1	1.3	0.3	2.0
2004	0.4	1.8 1.7	0.3	2.5
2004 2005	0.1	1.9	0.3 0.3 0.3 0.3	2.3
2006	0.1	1.9	0.3 0.3 0.3	2.3
2006 2007	(s)	1.9 2.1	0.3	2.3
2008	<u>~</u>	2.1	0.3	2.4
2009	_	2.1	0.3 0.3	2.4
2010	_	2.1	0.3	2.4
2011	_	2.2	0.4	2.6
2012	_	2.0	0.4	2.3
2013 2014 2015 2016	_	2.3 2.1 2.0 2.2 2.3	0.4 0.4	2.7
2014	_	2.1	0.4	2.5
2015	_	2.0	0.4 0.5 0.4	2.4
2017	_	2.2	0.3	2.0
2017	_	2.3	0.4	2.1
2018 2019	_	2.3 2.6	0.4	3.1
2020		2.4	0.5	1.9 2.0 2.2 2.2 2.2 2.1 2.3 2.6 2.2 2.5 2.3 2.3 2.3 2.3 2.4 2.4 2.4 2.4 2.4 2.6 2.3 2.7 2.5 2.4 2.6 2.7 2.5 2.4 2.6 2.7 2.8 3.1 2.9 3.0 3.2 3.4
2021	_	2.4	0.6	3.0
2021 2022 2023	_	2.6 2.7	0.6 0.6 0.7	3.2
2023	_	2.7	0.7	3.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000				40.0
1960 1965	6.5 5.6	1.8 2.7	2.5 3.1	10.8 11.4
1903	6.0	3.0	2.9	11.9
1970 1975	5.9	2.7	4.3	13.0
1980	4.6	2.9	3.4	10.9
1985	4.1	2.6	1.7	10.9 8.3 9.7
1990	4.5 4.4 3.7	3.1	2.1	9.7
1995	4.4	3.8 3.7	2.0 2.2	10.2 9.6
1996	3.7	3.7	2.2	9.6
1997	4.1 5.3 3.5	3.7 3.9 3.5	2.3 2.2	10.0
1998 1999	5.3	3.9	2.2	11.4
2000	3.5 5.0	3.5 3.5	2.1 2.0	9.1 10.5
2000	5.0 4.1	2.9	2.0	10.5 9.3 6.3 6.6 7.8 8.9 7.9 8.1 7.7 6.7
2002	1.3	2.6	2.3	6.3
2003	1.3 1.3 2.6	2.5	2.7	6.6
2004	2.6	2.5	2.6	7.8
2005	3.1	2.5	2.6 3.2	8.9
2006	1.5 2.0	2.9 3.1	3.5 3.1	7.9
2007	2.0	3.1	3.1	8.1
2008	1.9 1.5	2.9	2.9	7.7
2009	1.5	2.8	2.4	6.7
2010	1.6 1.3	3.0	2.4	7.0 7.2
2011 2012	1.3 1.3	3.2 3.6	2.7 2.8	7.2 7.7
2012	1.3	ა.ი ა ი	2.0 2.0	7.7
2013	1.4 1.3	3.9 3.7	2.9 3.0 2.7 2.9	8.2 8.0 7.7 7.5
2015	1.4	3.6	2.7	7.7
2016	1.3	3.6 3.4	2.9	7.5
2017	1.1	3.3 3.2	3.0	7.4
2018	0.8	3.2	3.1	7.1
2019	0.8	3.2	3.0	7.1
2020	0.7	3.1	2.9	6.6
2021	0.7	3.1	3.0	6.8 6.7 6.5
2022	0.7	3.0	3.0	6.7
2023	0.7	2.9	2.9	6.5

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.1	(s)	4.5	4.6
1965	(s)	(s) (s) (s)	4.5 5.0 6.5	4.6 5.0 6.5 8.1 9.0 9.4
1970	(s) (s)	(s)	6.5	6.5
1975	(S)	(s) (s) 0.1	8.1	8.1
1980	<del>-</del>	(s)	9.0 9.3	9.0
1985	_	0.1	9.3	9.4
1990 1995	_	0.1 0.2	10.6 12.7	10.6 12.9
1996		0.2	13.3	13.5
1997	_	0.2	13.9	14.1
1998	_	0.2 0.2	14.2	14.3
1999	_	0.2	14.6	14.8
2000	_	0.2	15.6	15.8 15.1
2001	_	0.3	14.8	15.1
2002	_	0.4	15.3	15.6
2003	<del>-</del>	0.4	15.6	16.0
2004 2005	_	0.5	16.1 16.2	16.6 16.7
2005	<u>-</u>	0.5 0.6	17.8	18.5
2007		0.6	17.6	18.3
2007	<u> </u>	0.7	16.1	16.8
2009	_	0.6	15.6	16.1
2010	_	0.6	15.1	15.7
2011	_	0.6	16.1	16.7
2012	_	0.7	15.4	16.1
2013	_	0.8	15.6	16.3 16.5
2014	_	0.8	15.7	16.5
2015	_	0.8	16.1	16.9 17.2
2016 2017	_	0.7 0.6	16.5 17.0	17.2 17.6
2017	<del>-</del>	0.6	17.0	17.0
2019	_	0.7	17.7	18.4
2020	_	0.7	16.4	17.1
2021	_	0.7	17.6	18.3
2022	<del>-</del>	0.7	18.6	19.2
2023	_	0.7	18.8	19.2 19.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Utah (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.2 0.9 1.0	0.2	1.1	2.5
1965	0.9	0.2	0.8	1.9 2.0
1970	1.0	0.2	0.8	2.0
1975 1980	4.6 10.7	0.2 0.3	0.1 0.1	4.8 11.0
1985	14.2	0.3 (e)	(s)	14.3
1990	29.7	(s) (s) 0.5	(s)	29.8
1995	29.7	0.5	(s)	30.2
1996	30.2	0.2	(s)	30.5
1997	31.2	0.2	(s)	31.4
1998	32.0	0.3	(s)	31.4 32.4
1999	32 7	0.4	(s)	33.1
2000	33.1 32.3 33.6 34.8	0.6	(s)	33.7 33.2 34.5 35.6 35.6 36.2
2001 2002	32.3	0.8	(s)	33.2
2002	33.6	0.8	(s)	34.5
2003	34.8	0.8	(s)	35.6
2004	35.1	0.5	(s)	35.6
2005	35.5	0.7	(s)	36.2
2006	34.9 35.3	1.6 3.1	0.1	36.6 38.5
2007 2008	აე.ა ენ ი	3.1	(s)	38.5
2008	35.9 33.3	3.1 2.7	(s) (s)	39.0 36.1
2010	32.4	2.7	(s)	35.1 35.1
2011	31.7	2.2	(s)	34.0
2012	29.5	2.6	(s)	32.1
2012 2013	32.5	2.6 2.7	(s)	35.3
2014	29.5 32.5 31.5	3.2	(s)	32.1 35.3 34.7 33.2 27.7
2015	30.1	3.1 3.3 2.2 3.3	(s)	33.2
2016	24.4 25.2	3.3	(s)	27.7
2017	25.2	2.2	(s)	27.5
2018	25.3	3.3	(s)	28.7
2019	24.7	3.7	(s)	28.4
2020	22.7	3.7	(s)	26.4
2021	25.7	4.2	(s)	29.9
2022 2023	22.1 16.0	4.4 4.8	(s)	26.5 20.9
2023	10.0	4.0	(s)	20.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.3		2.2	3.6
1965	0.3 0.3 0.2	_	3.2 4.2 5.2	3.6 4.4 5.5 5.2 4.6 5.2 5.5 6.0 6.3 6.5 6.2 6.5 6.8 6.6 6.4 6.7 7.1 6.8 6.7 6.5 5.9 6.2 5.9 5.8 5.4 5.7 5.9 6.1 5.9 6.1 5.9 6.1 5.9 5.8 5.8 6.0 5.4 5.5 5.5 5.5 5.4
1970	0.2	0.1	5.2	5.5
1975	0.1	0.2	4.9 4.3 4.7	5.2
1980	0.1	0.2	4.3	4.6
1985	0.2	0.3	4.7	5.2
1990	(S)	0.4	5.1	5.5
1995	(\$)	0.4	5.1 5.6 5.9	6.0
1996 1997	(s) (s) (s) 0.3 (s) 0.2	0.4 0.4	5.9 F. 0	0.3 6.5
1997	0.3 (c)	0.4	5.8 5.8	0.5 6.2
1999	(8)	0.4	5.0 5.0	0.2 6.5
2000	(9)	0.6	5.9 6.2 6.2	6.8
2001	(s) (s)	0.4	6.2	6.6
2002	(s)	0.4	5.9	6.4
2003	(s)	0.4	5.9 6.2	6.7
2004	(s)	0.5	6.6	7.1
2005	(s)	0.4	6.4	6.8
2006	(s) (s)	0.4	6.2	6.7
2007	(S)	0.5	6.0	6.5
2008	_	0.5	5.5	5.9
2009	<del>-</del>	0.5	5.7 5.4	6.2
2010 2011	_	0.4 0.5	5.4 5.3	5.9
2012		0.5	5.3 F.O	5.8 5.4
2012	<u> </u>	0.5	5.0	5.4 5.7
2014	_	0.6	5.0 5.2 5.3	5.7 5.9
2015	_	0.6	5.5 5.5	6.1
2016	_	0.7	5.5 5.2	5.9
2017	_	0.6	5.2	5.8
2018	_	0.7	5.1	5.8
2019	_	0.8	5.1 5.2	6.0
2020	<del>-</del>	0.7	4.7	5.4
2021	_	0.7	4.8	5.5
2022		0.7	4.8 4.7	5.5
2023	_	0.7	4.7	5.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Vaar	Coal <sup>a</sup>	Natural see h	Petroleum <sup>c</sup>	Total
Year	Coal ~	Natural gas <sup>b</sup>	Petroleum °	I Olai
1060	0.1	_	1.2	1 2
1960 1965 1970 1975	0.1	_	1.2 1.7	1.7
1970	(s)	0.1	1.9 1.5	2.0
1975	(s) (s)	0.1	1.5	1.6
1980 1985 1990	(s) (s) (s)	0.1	1.1	1.2
1985	(s)	0.1	1.4 1.3	1.5
1990 1995		0.1	1.3	1.4
1995	(s) (s)	0.1 0.1	1.3 1.4	1.4 1.5
1996 1997	(s)	0.1	1.4	1.5
1998	(s)	0.1	1.3 1.3	1.4
1999	(s)	0.1	1.2	1.4
1999 2000	(s) (s) (s) (s) (s) (s) (s) (s) (s)	0.2	1.2 1.5 1.4 1.3 1.4	1.6
2001 2002 2003 2004 2005	(s)	0.1	1.4	1.6
2002	(s)	0.1	1.3	1.5
2003	(S)	0.2	1.4	1.6
2004	(S)	0.2 0.2 0.2 0.2	1.6 1.5	1.8
2005	(S)	0.2	1.5	1.7
2000	(5)	0.2	1.4	1.5
2006 2007 2008	(b) —	0.2 0.2 0.2	1.2	1.3
2009	_	0.2	1.3	1.5
2010	<del>-</del>	0.2	1.2	1.3
2011	_	0.2	1.1	1.3
2012	_	0.2	0.9	1.1
2013	_	0.2	1.1	1.3
2014	_	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	1.2	1.4
2015 2016	_	0.2 0.2	I.Z 1.1	1.4
2010		0.2	1.1	1.5 1 A
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	0.2	1.4 1.3 1.2 1.3 1.2 1.1 0.9 1.1 1.2 1.2 1.1 1.2 1.3 1.3 1.3 1.2 1.1 1.2 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.1	1.3 1.7 2.0 1.6 1.2 1.5 1.4 1.4 1.5 1.5 1.6 1.6 1.8 1.7 1.5 1.5 1.3 1.3 1.1 1.3 1.4 1.4 1.4 1.5 1.5 1.3 1.3 1.1 1.3 1.4 1.4 1.5 1.5 1.6 1.8 1.7 1.5 1.5 1.8 1.3 1.3 1.1 1.3 1.4 1.4 1.4 1.3 1.4 1.4 1.5 1.5 1.6 1.8 1.3 1.3 1.1 1.3 1.4 1.4 1.3 1.4 1.4 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.4 1.4 1.3 1.3 1.3 1.4 1.4 1.3 1.3 1.3
2019	_	0.2	1.3	1.6
2020	_	0.2 0.2 0.2 0.2 0.2	1.2	1.4
2021	_	0.2	1.2	1.4
2022	_	0.2 0.2	1.1	1.3
2023	<del>-</del>	0.2	1.1	1.3

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1060	0.1		0.4	0.4
1960 1965 1970 1975	(9)		0.4 0.5	0.4 0.6 0.6 0.5 0.5 0.6 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.8 0.7 0.8
1970	(s) (s) (s) 0.1	(s)	0.6	0.6
1975	(s)	(s) (s) 0.1	0.6 0.5 0.4 0.3 0.5	0.6
1980 1985 1990 1995 1996	(s)	(s)	0.4	0.5
1985	0.1	0.1	0.3	0.5
1990	(s) (s)	0.1	0.5	0.6
1995	(S)	0.1 0.2	0.4 0.5	0.6 0.7
1990	(s) (s)	0.2 0.2	0.5 0.5	0.7 0.7
1997 1998	(S) (S)	0.2 0.2	0.5 0.6	0.7
1999	(s)	0.1	0.6	0.7
1999 2000	(s)	0.1	0.6 0.6	0.8
2001 2002 2003 2004 2005	(s)	0.1	0.7	0.8
2002	(s) (s) (s)	0.1	0.6	0.7
2003	(s)	0.1	0.6 0.7	0.8
2004	(S)	0.1 0.1	0.7 0.6	0.8
2005	(s) (s) (s)	U. I O 1	0.0	0.7
2007	(5)	0.1 0.1	0.0 0.5	0.7 0.7
2006 2007 2008 2009	( <del>0</del> )	0.1	0.6 0.5 0.5	0.6
2009	_	0.1	0.5 0.5 0.5 0.5	0.7
2010	<del>-</del>	0.1	0.5	0.6
2011	_	0.1	0.5	0.6
2012	_	0.1	0.5	0.6
2010 2011 2012 2013 2014	_	0.3	0.5 0.5	0.8
2014	_	0.3	0.5 0.7	0.8
2015 2016	<u>-</u>	0.3 0.3	0.7 0.5	1.U 0.0
2010	_	0.3	0.3	0.9 0.8
2018	<u> </u>	0.4	0.5	0.0
2017 2018 2019	_	0.4	0.5 0.5 0.5 0.5 0.5 0.5	0.7 0.6 0.6 0.8 0.8 1.0 0.9 0.9 0.9 0.9
2020 2021 2022 2023	_	0.4	0.5	0.9
2021	<del>-</del>	0.4	0.5	0.9
2022		0.4	0.5	0.9
2023	<del>-</del>	0.4	0.5	0.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Vaar	Coal	National map 2	Petroleum <sup>b</sup>	Total
Year	Coal	Natural gas <sup>a</sup>	Petroleum °	I Olai
1960	0.1	_	0.3	0.4
1965	(s)	_	0.4	0.4 0.5 0.5 0.5 0.5 0.4 0.4
1970 1975	(s)	0.1	0.5	0.5
1975	(s)	0.1	0.4	0.5
1980 1985	(s)	0.1	0.4	0.5
1985	(s) (s)	0.1	0.3	0.4
1990	(S)	0.1	0.3	0.4
1995 1996	=	0.1 0.1	0.3	0.4
1997	0.2	0.1	0.3	0.4
1998	——————————————————————————————————————	0.1	0.3 0.3 0.3 0.3	0.4 0.4 0.7 0.5 0.6 0.6 0.5 0.5 0.5 0.6 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
1999	0.2	0.2	0.3	0.6
1999 2000	<del>-</del>	0.2	0.3 0.4	0.6
2001 2002 2003 2004 2005	_	0.1	0.3 0.3	0.5
2002	_	0.2	0.3	0.5
2003	<del>-</del>	0.1	0.4	0.5
2004	_	0.1	0.4 0.5 0.4	0.6
2005	_	0.1	0.4	0.6
2000	_	0.1 0.2	0.4 0.3	0.6 0.5
2006 2007 2008	_	0.2	0.4 0.3 0.3 0.3 0.4 0.4	0.5
2009	_	0.1	0.3	0.5
2010	_	0.2	0.4	0.5
2011	<del>-</del>	0.1	0.4	0.5
2012	_	0.1	0.3	0.5
2009 2010 2011 2012 2013 2014 2015 2016	_	0.1	0.3 0.3 0.3 0.3 0.3 0.3	0.4
2014	_	0.1	0.3	0.4
2015	_	0.1	0.3	0.4
2016	_	0.1 0.1	0.3	0.4
2017		0.1	0.3	0.4
2010	_	0.1	0.3 0.3	0.4 0.5
2017 2018 2019 2020 2021 2022 2023	_	0.1	0.4	0.4 0.5 0.5 0.4 0.4 0.4
2021		0.1	0.3	0.4
2022	<del>-</del>	0.1	0.3 0.3	0.4
2023	_	0.1	0.3	0.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
1960	(s) (s) (s)	_	1.4	1.4
1965 1970	(S)		1.5 2.1 2.4 2.4 2.6 3.0 3.6 3.7 3.6 3.7 3.7 3.7 3.7 3.8 3.8 3.8 3.8 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.3 3.2	1.5 2.1
1970	(5) —	<u> </u>	2.1	2.1
1975 1980	_	_	2.4	2.4
1985 1990 1995 1996	_	(s)	2.6	2.6
1990	_	(s)	3.0	3.0
1995	_	(S) (S) (S)	3.6	3.6
1996	_	(s)	3.7	3.7
1997 1998	_	(S)	3.6	3.6
1998	_	(S)	3.0 2.7	3.0 2.7
1999 2000	_	(5)	3.7	3.7
2001	_	(S)	3.7	3.7
2001 2002 2003 2004 2005 2006 2007	_	(S) (S) (S) (S) (S) (S) (S) (S) (S)	3.6	3.6
2003	_	(s)	3.7	3.7
2004	<del>-</del>	(s)	3.8	3.8
2005	_	(s)	3.8	3.8
2006	_	(s)	3.9	3.9
2007	_	(s) (s)	3.8	3.8
2008	_	(S)	3.3 3.5	3.5 3.5
2009		(s) (s)	3.5 3.4	3.3
2011	_	(s)	3.3	3.3
2012	_	(s)	3.2	3.2
2008 2009 2010 2011 2012 2013 2014 2015	<del>-</del>	(s) (s) (s) (s)	3.3	3.3
2014	_	(s)	3.2	3.2
2015	_	(s)	3.3	3.3
2016 2017	_	(S) (S)	3.3	3.3
2017	_	(S)	3.2	3.2
2018 2019 2020 2021 2022 2023	_	(s)	3.0 3.1	1.5 2.1 2.4 2.4 2.6 3.0 3.6 3.7 3.6 3.7 3.7 3.7 3.7 3.8 3.8 3.8 3.9 3.8 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.1 2.6 2.9 2.8 2.9
2019		(S) (S)	3.1 2.6	3.1 2.6
2021	<u>-</u>	(9)	2.6 2.9 2.8 2.9	2.0
2022	_	(s) (s) (s)	2.8	2.8
2023	_	(s)	2.9	2.9
		(-)	<del></del>	

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Vermont (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	(s)	_	(s)	0.1
1960 1965	(s) 0.1	<del>-</del>	(s)	0.1
1970	0.1	_	(s) 0.1	0.3
1970 1975 1980 1985	(s) (s) 0.1	(s) (s) (s)	(s)	0.1
1980	(s)	(\$)	(s)	0.1
1985	U.I	(S)	(s)	U.1 (c)
1990	_	(s)	(s) (s)	(5)
1990 1995 1996 1997 1998	_	(S) (S)	(s)	(s)
1997	_	(s)	(s)	(s)
1998	<del>-</del>		(s)	0.1
1999 2000 2001 2002 2003 2004 2005 2006	_	(s) (s) 0.1 (s) (s) (s)	(s) 0.1	(s)
2000	_	0.1	0.1	0.1
2001	_	(\$)	(s)	(S)
2002		(S)	(s) (s)	(S)
2003		(s)	(5) (S)	(3) (9)
2005	_	(s)	(S) (S)	(s)
2006	_	(s)	(s)	(s)
2007	<del>-</del>	(s) (s)	(s)	(s)
2008 2009	_		(s)	(s)
2009	<del>-</del>	(s)	(s)	(S)
2010	_	(s)	(s)	(S)
2011	_	(S) (S)	(s) (s)	(S)
2012	_	(S) (S)	(3) (s)	(s)
2014	_	(s)	(S)	(s)
2015	_	(s)	(s)	(s)
2016	<del>-</del>	(s)	(s)	(s)
2017	_	(s)	(s)	(s)
2018	_	(s)	(s)	(S)
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	_	(S) (S)	(s)	0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.1 (s) (s) (s) (s) 0.1 (s) 0.1 (s)
2020	_	(S) (S)	(s) (s)	(s)
2021		(9)	(s)	(9)
2023	_	(S) (S)	(s)	(s) (s)
		(9)	(0)	(0)

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
		<b>3</b>		
1960	30.1	3.6	31.0	64.7
1965	36.7	5.2	35.8	77.6
1970	26.1	7.3 6.5	53.1	86.6
1975	16.1	6.5	58.5	81.1
1980	21.9	8.4	51.4	81.8 82.5 95.2
1985	28.1	7.6	46.8	82.5
1990	33.7	10.1	51.4	95.2
1995	36.5	14.9	51.6	103.0 107.7
1996	40.6	14.2	53.0	107.7
1997	41.0	13.6	55.4	110.0
1998	41.6	14.2	56.1	111.9
1999 2000	42.2 48.2	15.0 14.6	56.7 60.5	113.9 123.2
2000	46.2 46.3	14.6	61.6	123.2
2001	45.9	14.0	59.4	119.3
2002	44.1	14.0	65.6	124.1
2003	43.0	15.1	69.6	127.7
2005	43.6	16.4	69.3	129.4
2006	41.3	14.9	66.8	123.0
2007	41.3 43.6	17.4	67.1	128.1
2008	39.5	16.4	60.9	116.7
2009	31.8	17.4	56.5	105.8
2010	32.9	20.4	58.5	111.8
2011	27.4	20.3	54.7	102.4
2012	21.1	22.4	54.9	98.4
2013	27.6	22.9	55.0	105.5
2014	26.4	23.1	57.6	107.2
2015	22.1	27.6	57.5	107.3
2016	21.2	30.1	58.3	109.6
2017	15.2	31.3	58.6	105.1
2018 2019	14.2 8.0	35.1 37.7	60.4	109.6 106.4
2019	8.0 7.1	37.7 39.3	60.6 51.3	97.8
2020	6.5	39.3 36.8	51.3	97.8 00 1
2021	6.5 6.4	35.0 35.0	54.9 55.0	98.1 96.4
2022	4.4	33.0 34.5	55.7	94.6
2020	דייד	04.0	55.1	UT.U

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960 1965 1970	1.8	1.5	4.9 5.5	8.2
1965	1.1	2.0 2.7	5.5	8.5
1970	0.6	2.7	6.4	9.7
1975 1980 1985	0.2	2.6 2.9 2.7 2.8 3.8 4.2	5.1	8.2 8.5 9.7 7.9 7.1 7.2 6.5 7.1 8.1 7.7
1980	0.1	2.9	4.1	7.1
1985	0.1	2.7	4.3 3.5 3.3 3.8 3.6 3.5	7.2
1990 1995 1996	0.1	2.8	3.5	0.5
1006	0.1 0.1	3.8 4.0	3.3 2.0	/.l 0.1
1997	(c)	4.2 1.1	3.0 3.6	0.1 7.7
1998	(3)	4.1 3.5	3.5	7.7
1999	(5)	3.8	3.4	7.1
2000	(s)	4.4	3.9	8.2
2001	(s)	3.9	3.6	7.5
1999 2000 2001 2002 2003 2004 2005	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	3.9 4.1	3.4 3.9 3.6 3.1	7.3
2003	(s)	4.7 4.5 4.7	3.6 3.8 3.7	8.3
2004	(s)	4.5	3.8	8.4
2005	(s)	4.7	3.7	8.4
2006 2007 2008	(s)	3.9 4.5 4.4	3.0	7.0
2007	(s)	4.5	2.9	7.4
2008		4.4	2.6	7.0
2009	_	4.6	2.3	6.9
2010	_	4.8	3.0 2.9 2.6 2.3 2.3 2.1	/.l
2011	_	4.3 2.0	2.1 1.6	0.4 5.4
2012		5.9 A 7	1.0	5. <del>4</del> 6.5
2010 2011 2012 2013 2014	_	4.8 4.3 3.9 4.7 5.2 4.7 4.3	1.6 1.8 1.8 1.8	7.0
2015	_	4.7	1.8	6.5
2016	_	4.3	1.4	5.7
2017	_	4.3	1.4 1.3	5.6
2018		5.0	1.6	6.6
2019	_	4.6	1.5	6.1
2015 2016 2017 2018 2019 2020 2021 2022 2023	_	4.2	1.6 1.5 1.5 1.7	7.2 8.2 7.5 7.3 8.3 8.4 8.4 7.0 7.4 7.0 6.9 7.1 6.4 5.4 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6
2021	_	4.6	1.7	6.2
2022	_	4.7	1.7 1.6	6.4
2023	_	4.1	1.6	5.7

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1 Cai	Odi	Hatarar yas	renoieum	Total
1960	1.3	0.6	0.9	2.8
1965	0.8	0.8	1.0	2.6
1965 1970	0.8 0.5	1.6	1.2	3.3
1975	0.5	1.7	1.2	3.5
1980	0.4 0.5 0.5 0.6 0.8	2.1	1.2 1.8	3.6
1985	0.5	1.9	1.8	4.2
1990	0.5	2.3	1.7	4.5
1995	0.6	3.1	1.6	5.3
1996 1997	0.8	3.3	2.0 1.8	0. I
1998	0.4 0.4	3.4 3.2	1.8	5.0 5.1
1990	0.4	3.4	1.8	5. <del>4</del> 5. <i>4</i>
1999 2000	0.3	3.4 3.6	2.1	5. <del>4</del> 5.9
2001	0.3	3.3	1.8	5.4
2002	0.3 0.2 0.3 0.2 0.2 0.2 0.3	3.4 3.5 3.5 3.6	1.4	5.0
2003 2004	0.2	3.5	2.1	5.8
2004	0.2	3.5	1.9	5.7
2005	0.3	3.6	1.8	5.7
2006	0.1	3.4 3.7	1.6 1.3	5.0
2007	0.2	3.7	1.3	5.1
2008	0.2	3.7	1.1	4.9
2009 2010	0.2	3.7	1.0	4.9
2010	0.2	3.8 3.5 3.3 3.7	1.1	3.U 4.7
2011	0.2	3.3 3.3	0.9 1.1	4.7 4.5
2012	0.1	3.7	11	4.5 4.9
2011 2012 2013 2014	0.1 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.2	4.0	1.1 1.2 1.9 1.9	5.4
2015	0.1	4.0 3.8 3.8	1.9	5.8
2015 2016	0.1	3.8	1.9	5.7
2017 2018	0.1	3.8	1.9	5.8
2018	0.1	4.2	2.0 2.0	6.2
2019	0.1	4.0	2.0	6.1
2020	(s)	3.8	1.8 1.9	2.8 2.6 3.3 3.5 3.6 4.2 4.5 5.3 6.1 5.6 5.4 5.4 5.9 5.4 5.9 5.1 4.9 4.9 5.0 4.7 4.5 4.9 5.4 5.8 5.7 5.8 6.2 6.1 5.6 5.9 6.1 5.7
2021	(s)	4.0	1.9	5.9
2022	(s) (s) (s)	4.2	1.9	6.1
2023	(S)	3.8	1.8	5./

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
	'			
1960	10.9	1.2	4.7	16.8
1965	13.9 9.4	1.9	5.9 5.1	21.7
1970 1975	9.4 6.3	2.4 1.9	5.1 6.1	16.9 14.3
1980	8.3	2.8	5.1	16.0
1985	10.0	2.7	4.4	16.2 17.1 19.3 17.3
1990	11.1	4.0	4.4 4.2 3.6	19.3
1995	8.5	5.2	3.6	17.3
1996	8.5 8.6 8.3 8.1	4.5	4.0	17.1
1997	8.3	4.6	4.6	17.5 17.2
1998	8.1	5.0	4.1	17.2
1999	7.8	5.1	3.9 4.2 4.3 3.8 5.1 5.6 5.4	16.8
2000	8.6	4.1	4.2	16.9 16.5 16.2
2001 2002	8.7 8.3	3.6 4.1	4.3	10.0
2002	0.3 8 <i>A</i>	3.8	ა.o 5.1	10.2 17.3
2003 2004	8.4 8.0	4.0	5.1 5.6	17.5
2005	8.1	4.1	5.4	17.3 17.6 17.7
2006	7.6	4.0	5.1	16.7
2007	7.6 7.7	4.0	5.2	16.7 16.9 16.3
2008	7.7	3.6	5.1	16.3
2009	6.0	3.4	3.2	12.6
2010	6.8	3.6	2.5	13.0
2011 2012	6.6	3.6 3.9 4.3	2.1	12.6
2012	6.3	4.3	2.1	12.7
2013 2014	6.0 6.8 6.6 6.3 6.0 5.5 4.4 4.3	4.5 4.8	5.1 5.2 5.1 3.2 2.5 2.1 2.1 2.1	12.6 13.0 12.6 12.7 12.7 12.3 11.3
2014	5.5 A A	4.0 5.0	2.1 1.0	12.3
2016	4.4	5.0 5.1	1.9 1.9	11.5
2017	4.0	5.4	1.8	11.2
2018	4.0	5.5	1.8	11.3
2019	3.9	5.5 5.7	1.8 1.9	11.3 11.6
2020	4.0 3.9 3.3	5.9	1.6	10.8
2021 2022 2023	3.4	6.4	1.9 1.9 1.8	11.6
2022	3.1 2.9	6.1	1.9	11.1 10.8
2023	2.9	6.1	1.8	10.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.2	0.2	20.5	20.9
1965	(s)	0.4	23.4	23.8
1970	(s)	0.4	31.5	20.9 23.8 31.9
1975	0.2 (s) (s) (s)	0.2	33.2 33.9	33.4 34.3 35.7
1980		0.4	33.9	34.3
1985	_	0.2	35.5	35.7
1990 1995	_	0.4	41.1	41.5
1995	<del>-</del>	0.3 0.4	42.1 42.4	42.4 42.9
1997		0.4	43.8	42.9 44.3
1998	_	0.4	44.6	44.3 45.0 45.8 48.8 48.6 48.8
1999	_	0.5	45.3	45.8
2000	_	0.5 0.5	48.4	48.8
2001 2002	_	0.4	48.2	48.6
2002	_	0.4	48.3	48.8
2003 2004	_	0.4	50.7	51.1
2004	_	0.3	54.4	51.1 54.7 55.5
2005	_	0.3	55.2	55.5
2006	_	0.3	56.5	56.8 56.6
2007	_	0.4	56.2 51.2	56.6 51.7
2008 2009	=	0.5 0.5	49.3	49.8
2010	_	0.6	51.6	52.2
2011	_	0.8	49.3	50.0
2012	_	0.5	49.9	50.4
2012 2013	_	0.5 0.5	49.8	50.2
2014 2015	_	0.4	51.6	50.4 50.2 52.0 51.6 53.2 53.7
2015	_	0.5	51.2 52.7 53.2	51.6
2016	_	0.5	52.7	53.2
2017	_	0.5	53.2	53.7
2018	_	0.6	54.3	54.9
2019 2020	_	0.8	55.0	55.8 46.8
2020	_	0.6 0.8	46.2 49.2	46.8
2021	<del>-</del>	0.8	49.2 49.0	50.0 49.8
2022		0.6	49.0 50.4	49.0 51.0
2020		0.1	50.4	31.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	15.9	0.1	0.1	16.1
1965	20.8	0.1	0.1	21.0
1970	20.8 15.7	0.2	8.9	24.8
1975 1980	9.1	(s) 0.1	12.9	22.0
1980	13.2 17.5	0.1	7.2 0.8	22.0 20.6 18.3 23.4 30.8 33.6
1985	17.5	0.1	0.8	18.3
1990	22.0 27.3	0.5	0.9	23.4
1995 1996	27.3 31.1	0.5 2.5 1.7	1.0 0.8	30.8
1997	31.1 32.2	1.7	U.O 1 5	30.0 34.8
1998	32.2 33.0	1.1 2.1	1.5 2.1	37.2
1999	34.1	2.3	2.3	34.8 37.2 38.7
2000	34.1 39.4	2.0	2.0	43.4 42.8 42.0
2001	37.3 37.4 35.5 34.8 35.2	1.8	3.7 2.7	42.8
2002 2003 2004 2005	37.4	1.8 1.9 1.9 2.7 3.7	2.7	42.0
2003	35.5	1.9	4.2	41.6
2004	34.8	2.7	4.2 3.8 3.2	41.6 41.3 42.1
2005	35.2	3.7	3.2	42.1 27.5
2006 2007	33.0 25.7	3.3	0.6 1.5	37.5 42.1
2006 2007 2008 2009	33.6 35.7 31.6 25.6 25.9 20.6	4.9 4.2 5.2 7.7 7.8	0.9	42.1 36.8
2009	25.6	5.2	0.3	31.6
2010	25.9	7.7	1.0	34.5
2010 2011 2012	20.6	7.8	0.4	28.7
2012	14.7 21.4	10.4	0.3	25.3
2013	21.4	10.4 9.4 8.8 13.6	0.3 0.2 0.9 0.9	31.1
2014 2015 2016 2017	20.8 17.5	8.8	0.9	30.5
2015	17.5	13.6 16.4	0.9	32.0
2010 2017	16.9 11.1	17.3	0.4 0.4	33.7 20.0
2017	10.1	17.3	0.4	20.0 30.6
2019	4 1	19.8 22.7	0.7	26 9
2018 2019 2020	4.1 3.8	24.8	0.2 0.2	36.8 31.6 34.5 28.7 25.3 31.1 30.5 32.0 33.7 28.8 30.6 26.9 28.8
2021	3.0 3.2 1.4	21.1	0.2 0.5	24.4
2022	3.2	19.2	0.5	22.9 21.4
2023	1.4	19.8	0.1	21.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.4	3.5	25.2	30.1
1965	1.2	6.0	28.9	36.1
1970	0.6	8.2	35.9	44.7
1975	7.2	8.9	38.6	54.8
1980	8.7 8.9 8.1	7.1 7.3 8.7	42.2	58.0 59.4
1985	8.9	7.3	43.1	59.4
1990 1995	δ.I e.e.	8.7 13.8	54.6 57.6	71.5
1995	6.6 8.6	14.8	57.6	78.0 81.6
1997	7.6	14.0	57.6	79.3
1998	7.6 9.8	15.8	58.3	79.3 83.9
1999	9.2	15.8	60.3	85.3
2000	10.1 9.5	15.6	58.2	84.0
2001	9.5	17.0	52.9	79.4
2002	9.6	12.6	50.9	73.1
2003	11.3	13.5	50.8	75.6
2004	10.8	14.2	52.4	77.4
2005 2006	10.7	14.3	53.8	78.9
2006	6.6 9.1	14.3 14.7	50.1 59.2	76.9 82.0
2007	9.0	16.2	56.1 58.2 53.9	79.1
2009	8.0	16.9	51.8	76.7
2010	9.1	15.5	48.7	73.3
2011	5.4	14.3	48.9	73.3 68.7
2012	4.1	14.3	49.3	67.7
2013	7.2	17.3	49.3	73.7
2014	7.3	16.8	48.2	72.3
2015	5.6	17.2	52.1	74.9
2016 2017	5.1	17.0 18.4	57.0	79.1
2017	5.9	17.5	54.6 55.0	78.9 78.4
2016	5.9 7.7	17.5	55.0 56.4	70.4 8/1 N
2020	5.7	18.7	43.8	78.4 84.0 68.2 73.5 74.9 76.3
2021	3.5	20.2	49.8	73.5
2022	4.0	20.0	50.8	74.9
2023	4.7	21.2	50.4	76.3

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

Year         Coal a         Natural gas b         Petroleum c         Total           1 1960         0.2         0.4         3.2         3.0           1 9865         0.2         1.0         3.0         4           1 9877         (s)         1.8         3.3         5           1 9800         0.1         1.7         1.6         3           1 9890         (s)         2.2         1.3         3           1 9895         (s)         2.2         1.3         3           1 9896         (s)         2.2         1.3         3           1 9897         (s)         3.5         1.3         4           1 9898         (s)         3.4         1.4         4           4 1989         (s)         3.4         1.4         4           4 1989         (s)         3.4         1.3         4           1 9990         (s)         3.4         1.4         4           4 1989         (s)         3.4         1.4         4           4 1997         (s)         3.4         1.4         1.4           2000         (s)         4.0         1.3         5 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>					
1960	Vear	Coal <sup>a</sup>	Natural nas <sup>b</sup>	Patroleum <sup>C</sup>	Total
1 1965	- I Cai	Coai **	Hatulal gas	renoieum	Total
1965   0.2   1.0   3.0   4     1970   (s)	1060	0.2	0.4	3.2	3.0
1970	1965	0.2	1.0	3.0	4.2
1990   (s)	1970	(s)	1.8	3.3	5.2
1990   (s)	1975	(s)	1.9	2.2	4.2
1990	1980	0.1	1.7	1.6	3.4
1990   (s)	1985	0.1	1.8	1.5	3.4
1995	1990	(S)	2.2	1.3	3.5
1997 (S) 3.4 1.4 4 4 1998 (S) 3.4 1.3 1.3 1999 (S) 4.0 1.3 1.3 5 5 6 6 6 6 6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1995	(S)	2.9 3.5	1.2 1.3	4.1 1.7
1998 (s) 3.4 1.3 4 1999 (s) 4.0 1.3 5 2000 (s) 4.0 1.2 5 2001 (s) 4.6 1.4 6 2002 (s) 4.0 1.5 5 2003 (s) 4.0 1.5 5 2004 (s) 3.9 1.1 5 2005 — 4.0 1.0 5 2006 (s) 4.1 1.0 5 2007 (s) 4.1 1.0 5 2008 — 4.6 1.0 5 2009 — 4.6 1.0 5 2009 — 4.6 1.0 5 2009 — 4.6 1.0 5 2010 — 4.1 1.0 5 2011 — 4.1 1.0 5 2012 — 4.4 0.7 0.9 5 2012 — 4.4 0.7 0.9 5 2014 — 4.4 0.7 5 2015 — 4.4 0.7 5 2014 — 4.4 0.7 5 2015 — 4.6 0.7 5 2014 — 4.7 0.9 0.9 5 2015 — 4.8 0.7 5 2016 — 4.9 0.7 5 2017 — 4.1 0.7 5 2018 — 4.1 0.7 5 2019 — 4.2 0.7 5 2011 — 4.4 0.7 5 2012 — 4.4 0.7 5 2014 — 4.4 0.7 5 2015 — 4.0 0.6 4 2016 — 4.4 0.7 5 2017 — 5.2 0.9 6 2018 — 5.2 0.9 6 2019 — 5.2 0.9 6 2020 — 5.0 0.8 5 2021 — 5.4 0.8 5 2022 — 5.4 0.8 5 2023 — 5.4 0.8 5 2024 — 5.4 0.8 5 2025 — 5.4 0.8 5 2026 — 5.4 0.8 5 2027 — 5.0 0.8 5 2028 — 5.4 0.8 5 2029 — 5.5 0.8 5 2029 — 5.5	1997	(3)	3.4	1 4	4.7
1999 (s) 4.0 1.3 5 2000 (s) 4.0 1.2 5 2001 (s) 4.6 1.4 6 2002 (s) 4.0 1.5 5 2003 (s) 3.9 1.1 5 2004 (s) 3.9 1.0 4 2005 — 4.0 1.0 5 2006 (s) 4.1 1.0 5 2007 (s) 4.1 1.0 5 2008 — 4.6 1.0 5 2009 — 4.6 1.0 5 2010 — 4.6 1.0 5 2010 — 4.6 1.0 5 2011 — 4.7 0.9 5 2011 — 4.7 0.9 5 2012 — 4.4 0.7 2013 — 4.6 0.7 2014 — 4.4 0.7 2015 — 4.6 0.7 2016 — 4.7 0.9 5 2017 — 4.6 0.7 2018 — 4.6 0.7 2019 — 4.7 0.9 5 2019 — 4.8 0.7 2016 — 4.8 0.8 0.8 2019 — 5.2 0.9 0.8 2020 — 5.0 0.8 2022 — 5.1 0.9 2022 — 5.1 0.9 2022 — 5.4 0.8	1998	(S) (S)	3.4	1.3	4.7
2000       (s)       4.0       1.2       5         2001       (s)       4.0       1.4       6         2002       (s)       4.0       1.5       5         2003       (s)       3.9       1.1       5         2004       (s)       3.9       1.0       4         2005       —       4.0       1.0       5         2006       (s)       4.1       1.0       5         2007       (s)       4.4       0.9       5         2008       —       4.6       1.0       5         2009       —       4.6       1.0       5         2010       —       4.1       1.0       5         2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2014       —       4.4       0.7       5         2014       —       4.4       0.7       5         2016       —       4.4       0.7       5         2017       —       4.8       0.8       5         2019       —       4.8       0.8       5         201	1999	(s)	4.0	1.3	5.3
2001       (s)       4.6       1.4       6         2002       (s)       4.0       1.5       5         2003       (s)       3.9       1.1       1.0         2004       (s)       3.9       1.0       4         2005       —       4.0       1.0       5         2006       (s)       4.1       1.0       5         2007       (s)       4.1       1.0       9       5         2008       —       4.6       1.0       5         2010       —       4.6       1.0       5         2011       —       4.7       0.9       5         2012       —       4.7       0.9       5         2013       —       4.4       0.7       5         2014       —       4.4       0.7       5         2015       —       4.4       0.7       5         2016       —       4.4       0.7       5         2017       —       4.8       0.8       5         2019       —       5.2       0.9       6         2020       —       5.0       0.8       5      <	2000	(s)	4.0	1.2	5.2
2002       (s)       4.0       1.5       5         2003       (s)       3.9       1.1       5         2004       (s)       3.9       1.0       4         2005       —       4.0       1.0       5         2007       (s)       4.1       1.0       5         2008       —       4.6       1.0       9         2009       —       4.6       1.0       5         2010       —       4.1       1.0       5         2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2013       —       4.6       0.7       5         2014       —       4.4       0.7       5         2015       —       4.0       0.6       4         2016       —       4.4       0.7       5         2017       —       5.2       0.9       6         2018       —       4.8       0.8       5         2019       —       5.2       1.0       6         2020       —       5.0       0.8       5         2021	2001	(s)	4.6	1.4	6.0
2003   (s)   3.9   1.1   5   2005     4.0   1.0   4.0   5   2006   (s)   4.1   1.0   5   5   2008     4.6   1.0   5   5   2009     4.6   1.0   5   5   2010     4.1   1.0   5   5   2011     4.7   0.9   5   5   2012     4.4   0.7   5   5   2013     4.6   0.7   5   5   2014     4.4   0.7   5   5   2015     4.0   0.6   4.4   0.7   5   5   2016     4.4   0.7   5   5   2017     5.2   0.9   6   2018     5.2   0.9   6   2020     5.0   0.8   5   5   2021     5.0   0.8   5   5   2022     5.0   0.8   5   5   5   2022     5.0   0.8   5   5   5   2022     5.0   0.8   5   5   5   2022     5.0   0.8   5   5   5   2022     5.0   0.8   5   5   5   5   5   5   5   5   5	2002	(s)	4.0	1.5	5.5
S	2003	(S)	3.9	1.1	5.0
2006   (s)	2004	(8)	3.9 4.0	1.0	4.9 5.0
2007 (8) 4.4 0.9 5 2008 — 4.6 1.0 5 2009 — 4.6 1.0 5 2010 — 4.1 1.0 5 2011 — 4.7 0.9 5 2012 — 4.4 0.7 5 2013 — 4.6 0.7 5 2014 — 4.4 0.7 5 2015 — 4.0 0.6 4 2016 — 4.4 0.7 5 2017 — 5.2 0.9 6 2018 — 4.8 0.8 5 2019 — 5.2 1.0 6 2020 — 5.0 0.8 5 2021 — 5.1 0.9 6 2022 — 5.4 0.8 6 2023	2005	(s)	4.0 4.1	1.0	5.0
2008       —       4.6       1.0       5         2019       —       4.6       1.0       5         2010       —       4.1       1.0       5         2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2013       —       4.6       0.7       5         2014       —       4.4       0.7       5         2015       —       4.0       0.6       4         2016       —       4.4       0.7       5         2017       —       5.2       0.9       6         2018       —       4.8       0.8       5         2019       —       5.2       1.0       6         2020       —       5.0       0.8       5         2021       —       5.1       0.9       6         2022       —       5.4       0.8       6	2007	(S) (S)	4.4	0.9	5.2
2009       —       4.6       1.0       5         2010       —       4.1       1.0       5         2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2013       —       4.6       0.7       5         2014       —       4.4       0.7       5         2015       —       4.0       0.6       4         2016       —       4.4       0.7       5         2017       —       5.2       0.9       6         2018       —       5.2       0.9       6         2019       —       5.2       1.0       6         2020       —       5.0       0.8       5         2021       —       5.1       0.9       6         2022       —       5.4       0.8       6         2023       —       5.0       0.8       6	2008	<del>(-)</del>	4.6	1.0	5.6
2010       —       4.1       1.0       5         2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2013       —       4.6       0.7       5         2014       —       4.4       0.7       5         2015       —       4.0       0.6       4         2016       —       4.4       0.7       5         2017       —       5.2       0.9       6         2018       —       4.8       0.8       5         2019       —       5.2       1.0       6         2020       —       5.0       0.8       5         2021       —       5.4       0.8       6         2023       —       5.4       0.8       5	2009	_	4.6	1.0	5.6
2011       —       4.7       0.9       5         2012       —       4.4       0.7       5         2013       —       4.6       0.7       5         2014       —       4.4       0.7       5         2015       —       4.0       0.6       4         2016       —       4.4       0.7       5         2017       —       5.2       0.9       6         2018       —       4.8       0.8       5         2019       —       5.2       1.0       6         2020       —       5.0       0.8       5         2021       —       5.1       0.9       6         2022       —       5.4       0.8       6         2023       —       5.0       0.8       5	2010	_	4.1	1.0	5.1
2012     —     4.4     0.7     5       2013     —     4.6     0.7     5       2014     —     4.4     0.7     5       2015     —     4.0     0.6     4       2016     —     4.4     0.7     5       2017     —     5.2     0.9     6       2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2011	_	4.7	0.9	5.6
2013     —     4.6     0.7     5       2014     —     4.4     0.7     5       2015     —     4.0     0.6     4       2016     —     4.4     0.7     5       2017     —     5.2     0.9     6       2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2012	_	4.4	0.7	5.1
2015     —     4.0     0.6     4       2016     —     4.4     0.7     5       2017     —     5.2     0.9     6       2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2013	<del>-</del>	4.0 4.4	0.7 0.7	5.3 5.1
2016     —     4.4     0.7     5       2017     —     5.2     0.9     6       2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2014	_	4.4	0.7	4.7
2017     —     5.2     0.9     6       2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2016	_	4.4	0.7	5.1
2018     —     4.8     0.8     5       2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2017	_	5.2	0.9	6.1
2019     —     5.2     1.0     6       2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2018	_	4.8	0.8	5.6
2020     —     5.0     0.8     5       2021     —     5.1     0.9     6       2022     —     5.4     0.8     6       2023     —     5.0     0.8     5	2019	_	5.2	1.0	6.1
2021 — 5.1 0.9 6 2022 — 5.4 0.8 6 2023 — 5.0	2020	_	5.0	0.8	5.8
2022 — 5.4 U.8 b 2023 — 5.0 0.8	2021	_	5.1	0.9	6.0
	2022	_	5.4 5.0	δ.U 0.0	6.2 5.0
2020	2023	_	5.0	0.0	5.0

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2 0.1 (s) (s) 0.3 0.4	0.4	1.3 1.2	1.8
1965 1970 1975	U.1 (a)	0.6 1.0	1.2 1.4	2.U 2.4
1970	(8)	1.0	1.4	2.4 2.8
1980	(3)	1.7	0.9	2.0 2.0
1985	0.5	2.0	2.4	2.3 4.7
1990	0.1	2.1	1.0	3.2
1995	0.1	2.4	0.7	3.2
1996	(s)	2.7	0.6	3.3
1997	(s)	2.6	0.7	3.3
1998	(s) (s) (s)	2.5	0.5	3.1
1999	(s)	2.8	0.7	3.5
2000	(s) (s) (s) 0.1	2.8	0.6	3.5
2001	(s)	3.1	0.7	3.9
2002	(s)	2.5	0.8	3.3
2003	0.1	2.6	0.6	3.3
2004	(s)	2.6	0.5	3.1
2005	<del></del>	2.7	0.6	3.3
2006	(s) (s)	2.8	0.6	3.4
2007	(S)	2.9	0.5	3.4
2008	_	3.1	0.8	3.9
2009	<del>-</del>	3.0 2.8	0.6	3.7
2010 2011	_	2.8	0.6 0.9 0.7	3./
2011	<del>-</del>	2.9	0.7	3.8 2.7
2012	_	3.1	0.0	ა./ ვი
2012 2013 2014		3.0	0.8 0.8	3.0 2.0
2015		2.8	1 3	Δ.3 Λ.1
2016	<u> </u>	2.8 2.9	1.3 1.4	4.1
2017	_	3.4	1.1	4.5 4.5
2018	_	3.3	1.4	4.5 4.7
2019	_	3.5	1.1	4.6
2020	_	3.4 3.3 3.5 3.2 3.3	1.4	1.8 2.0 2.4 2.8 2.9 4.7 3.2 3.2 3.3 3.3 3.1 3.5 3.5 3.9 3.3 3.1 3.3 3.1 3.3 3.1 3.3 3.1 4.3 4.3 4.5 4.7 4.6 4.6 4.6 4.7 5.0 4.8
2020 2021 2022	_	3.3	1.4	4.7
2022	_	3.6	1.4	5.0
2023	_	3.4	1.4	4.8

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1000	10	0.7	7.0	44.0
1960 1965	1.0 0.8	2.7 4.4	7.9 10.1	11.6 15.3
1970	0.5	5.0	10.9	16.5
1975	1.0	4.9	10.7	16.6
1980	0.7	3.4	10.0	14.1
1985	0.4	3.4	9.8	13.6
1990 1995	0.5 0.4	4.1 5.9	11.7 10.9	16.3
1995	0.4	6.1	11.9	17.2 18.2
1997	0.3 0.3 0.3	6.0	10.2	16.5
1997 1998	0.3	7.1	13.9	21.3
1999	0.2	6.7	15.0	21.9 16.2
2000	0.3	4.5	11.4	16.2
2001	0.3	4.0	8.4 7.5	12.6
2002 2003	0.3 0.3 0.2 0.2 0.2 0.1	3.6 3.5 3.6 3.6 3.6	7.5 7.6	12.6 11.3 11.3 12.0 12.9
2004	0.2	3.6	8.2	12.0
2004 2005	0.1	3.6	7.6 8.2 9.2	12.9
2006 2007	0.2 0.3 0.3	3.8 3.9 4.0	10.1 9.8 10.2	14.1
2007	0.3	3.9	9.8	14.0 14.5
2008	0.3	4.0	10.2	14.5
2009	0.3 0.3	3.8 3.8	9.2 8.7	13.3 12.8
2009 2010 2011 2012	0.3 0.3 0.2 0.2 0.2 0.3	4.1	9.2 8.7 8.2 8.7 8.0	13.3 12.8 12.4
2012	0.2	4.1 4.2	8.7	13.1
2013 2014	0.2	4.3 4.3	8.0	12.5 12.3
2014	0.3	4.3	7.8	12.3
2015 2016	0.2 0.2	4.1 4.3	9.1 8.6	13.4 13.1
2017	0.2	4.3	8.1	12.6
2018	0.1	4.3	8.5	12.9
2018 2019	0.1	4.3	8.5	13.0
2020	0.1	4.3	7.8	12.2
2021 2022 2023	0.1	4.5	6.9 6.9	11.5
2022	0.1	4.4	6.9	11.5
2023	0.1	4.0	6.8	10.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	(e)	(e)	12.7	12.8
1965	(s) (s) (s) (s)	(s) (s) 0.4	14.6	14.7
1970	(s)	Ò. <b>4</b>	20.3	20.6
1975	(s)	0.3 0.2	24.7	25.0 29.8 29.6
1980		0.2	29.6	29.8
1985 1990	_	0.2	29.4 40.6	29.b 40.0
1990		0.5 0.5	44.7	40.9 45.2
1995 1996	_	0.3 0.5 0.4	44.2	40.9 45.2 44.6
1997	_	0.5 0.5	45.2	45.7
1998	_	0.5	45.2 42.5	45.7 43.0
1999	_	0.4	43.4	43.8
2000	_	0.3 0.5	44.6	44.9 42.8 41.5 41.9 43.3 43.4
2001 2002	_	0.5	42.3 41.1	42.8
2002		0.4 0.4	41.1	41.5 /1 0
2004		0.5	42.8	43.3
2005	_	0.5	42.9	43.4
2006	_	0.4	44.3	44./
2007	_	0.4	47.0	47.5
2008 2009	_	0.4	41.8	42.2
2009	_	0.4	41.0	41.4 38.5 39.5
2010	_	0.4	38.1	38.5
2011 2012		0.4 0.5	39.1 39.1	39.5 39.6
2013	<u> </u>	0.6	39.8	40.4
2014	_	0.5	38.8	39.4
2015	<del>-</del>	0.7	41.2	41.9
2016	<del>-</del>	0.7	46.3	47.0
2017	_	0.7	44.5	45.2
2018	_	0.8	44.3	45.1
2019 2020	_	0.7	45.8 33.8	46.5
2020	_	0.8 0.8	33.8 40.6	34.6 41.4
2021		1.0	40.6	41.4 42.7
2023		1.0	41.5	42.7 42.5
_0_0		1.0	41.0	TE.0

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&#</sup>x27;c' Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Washington (million metric tons of carbon dioxide (CO2))

			_	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	_	_	(s)	(s)
1965	_	_	(s) (s) (s)	(s) (s) (s) 6.2 7.8 8.0
1970	$\pi$	_	(s)	(s)
1975	6.2 7.6		(s) 0.1	6.2
1980 1985	7.6 8.0	0.1	U.1	7.8
1990	0.U 7.5	(s) (s) 2.2 2.3	(s) (s) 0.1	0.U 7.5
1995	7.5 6.1	(9)	0.1	7.5 8.4
1996	8.3	2.3	0.2	10.7
1997	7.3	1.5	0.2	9.0
1998	8.3 7.3 9.5	1.5 2.2 1.8	(s)	11.8
1999	9.0	1.8	(s)	10.8
2000	9.8 9.2	4.0 4.7	0.3	14.2
2001	9.2 9.4	4. <i>/</i> 2.2	(s) (s) 0.3 0.2 (s) (s) (s) (s)	14.1
2002 2003	9.4 11.0	2.2 3.1	(8)	11.5 14.2
2004	10.5	3.1 3.6	(3) (s)	14.1
2005	10.6	3.6	(s)	14.1 14.2
2006	6.4	3.2	(s)	9.6
2007	8.8	3.1	(s) (s)	12.0
2008	8.8	4.1 5.0	(s)	12.8
2009	/./	5.0	(s) (s)	12.7
2010	0.0 5.2	4.3 2.1	(S)	13.2 7.4
2008 2009 2010 2011 2012	3.0	2.3	(s) (s)	6.2
2013	8.8 7.7 8.8 5.3 3.9 7.0	4.7	(S) (S)	11.7
2014 2015	7.1	4.7	(s) (s)	11.7
2015	5.4	5.5	(s) (s)	10.9 9.6 10.4
2016 2017	4.9	4.7	(s)	9.6
2017	5.8	4.6	(s)	10.4
2018	5. <i>1</i>	4.4	(S)	10.1
2018 2019 2020	7.0 5.5	6.1 5.4	(s) (s) (s)	13.7 11.0
2021	7.1 5.4 4.9 5.8 5.7 7.6 5.5 3.4 3.9 4.6	6.4	(s)	9.8
2022	3.9	5.5	(s)	9.5
2023	4.6	5.5 7.7	(s) (s)	9.8 9.5 12.4
			( )	

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	33.2	8.1	6.7	49.0
1965	44.7	9.2	8.2	48.0 62.1 77.1
1970	57.6	9.7	9.7	77.1
1975	77.2	8.6	12.1	97.9
1980	81.1	7.7	13.8	102.6
1985	82.7	6.5	13.0	102.3
1990	82.9	6.7	13.8	103.4 104.9 107.9
1995	82.6	8.3	14.1	104.9
1996	86.7	8.6	12.6	107.9
1997	89.0	8.9	13.3	111.2
1998	92.9	7.9	14.5	115.3
1999 2000	94.4 93.0	7.7 8.3	14.3 14.5	116.4 115.7
2000	93.0 82.4	8.3 7.9	14.5	105.7
2002	94.6	7.9 8.1	15.8	118.6
2002	93.3	7.1	14.9	110.0 115 /
2004	89.4	6.8	16.4	115.4 112.6
2005	91.6	6.6	16.4	114.6
2006	91.4	6.6	16.8	114.8
2007	93.7	6.6 6.5	16.7	117.0
2008	91.1	6.3	15.3	112.7
2009	70.8	6.2	13.1	90.1
2010	80.8	6.4	13.3	100.6 97.9
2011	78.4	6.6	12.9	97.9
2012	72.2	7.4	12.6	92.1
2013	73.6	8.0	12.7	92.1 94.2 99.9
2014	77.9	9.4	12.6	99.9
2015	69.8	9.9	12.2	91.9
2016 2017	71.8 67.9	9.7 10.3	12.7 12.5	94.3 90.7
2017	63.2	11.4	14.3	90.7
2019	59.4	11.4	13.6	09.U QE Q
2020	51.6	13.6	11.5	89.0 85.3 76.7
2021	60.6	14.3	13.3	70.7 88.2
2022	51.4	14.5	13.2	79 1
2023	45.3	15.9	13.4	88.2 79.1 74.6
=-=•	10.10	10.0	1011	7 110

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

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Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>C</sup>	Total
	L			
1960	0.3	2.7	0.2	3.3
1965	0.3 0.3	2.8	0.2 0.3	3.4
1970	0.2 0.2	3.2	0.3 0.4	3.7
1975 1980 1985 1990 1995	0.2	2.7 2.8 3.2 2.8 2.6 2.1	0.4	3.4
1980	U.1 (a)	2.6	0.8 0.4	3.5
1985	(S)	۷.۱ ۱۵	0.4 0.5	2.0 2.4
1995	(9)	2.0	0.5	2.4
1996	(S) (S)	2.1	0.5	2.7
1996 1997	(s)	1.9 2.0 2.1 2.0 1.7	0.5 0.4 0.5 0.6 0.6	2.6
1998 1999	(s)	1.7	0.6	2.3
1999	(s)	1.8	0.6	2.4
2000 2001	0.1	1.8	0.5	2.4
2001	0.1 (s) 0.1 (s)	1.8 1.8 1.8 1.7 1.8 1.7 1.7	0.6 0.5 0.6 0.5 0.5 0.6 0.4	2.4
2002 2003 2004 2005 2006 2007 2008	(S)	1. <i>1</i> 1.8	0.5 0.5	2.2
2003	(9)	1.0	0.5	2.3
2005	(s)	1.7	0.4	2.1
2006	(s)	1.5 1.5 1.6	0.5 0.4 0.4	2.0
2007	(s)	1.5	0.4	1.9
2008	<del>-</del>	1.6	0.4	1.9
2009	_	1.5	0.3	1.8
2010	_	1.5	0.4	1.9
2011		1.4 1.2	0.3 0.2	1.6 1.5
2012		1.5	0.2	1.5
2009 2010 2011 2012 2013 2014 2015 2016 2017	_	1.6	0.3	1.9
2015	_	1.4	0.3	1.8
2016	<del>-</del>	1.3	0.3	1.6
2017	_	1.3	0.2	1.5
2018	<del>-</del>	1.5 1.5 1.4 1.3 1.5 1.6 1.4 1.3 1.3 1.5 1.4	0.3 0.4 0.3 0.2 0.4 0.3 0.3 0.3 0.3 0.2 0.3 0.3	1.8
2018 2019 2020	_	1.4 1.3	0.3	3.3 3.4 3.7 3.4 3.7 3.4 3.5 2.6 2.4 2.4 2.7 2.6 2.3 2.4 2.4 2.4 2.2 2.3 2.3 2.1 2.0 1.9 1.9 1.8 1.9 1.8 1.5 1.9 1.9 1.8 1.5 1.9 1.9 1.8 1.5 1.7 1.7 1.7 1.7 1.7
2020	_	1.3 1 <i>A</i>	0.3	1./ 1.7
2021		1.4 1 <i>d</i>	0.3	1.7
2021 2022 2023	_	1.4 1.4 1.2	0.3 0.3 0.3	1.5
			0.0	

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php. Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See

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Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

.,	•		<b>5</b> b	
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	0.9	0.1	1.2
1965 1970 1975	0.2 0.2 0.2	0.8	0.1	1.2 1.2 1.5 1.9 1.7 1.6 2.0 1.8 2.0 1.9 2.0 2.1 2.2 1.9 1.7 1.8
1970	0.2	1.2	0.1	1.5
1975	0.4	1.4	0.1	1.9
1980	0.3 0.2	1.2	0.2 0.5	1.7
1985	0.2	1.0	0.5	1.6
1990	0.3	1.2	0.4	2.0
1995	0.1	1.5	0.2 0.2	1.8
1996 1997	0.2 0.2	1.6 1.5	0.2 0.2	2.0
1998	0.2	1.3	0.2	1.9
1999	0.4	1.5	0.2	2.0
2000	0.5	1.5	0.2	2.1
2001	0.1	1.6	0.2 0.3	1.9
2002	0.1	1.4	0.2	1.7
2003	0.1	1.5	0.2	1.8
2004	0.1	1.4	0.2 0.2	1.7
2005	0.2	1.4	0.2	1.8
2006	0.1 0.1	1.4	0.1	1.6 1.6 1.6 1.5 1.6 1.6
2007	0.1	1.3	0.1	1.6
2008	_	1.4	0.1	1.6
2009	<del>-</del>	1.4	0.2 0.2 0.2 0.2 0.2	1.5
2010 2011	_	1.4	0.2	1.6
2011	_	1.4	0.2	1.6
2012	_	1.3	0.2	1.5
2013 2014	_	1.4 1.4	0.2 0.2	1.6 1.6 1.7
2014		1.4 1.2	0.2	1.0 1.7
2016		1.3 1.3	0.4 0.3	1.7
2017	_	1.3	0.3	1.7
2018	<u> </u>	1.4	0.4	1.0
2019	_	1.4	0.4	1.8
2018 2019 2020 2021 2022 2023	_	1.2	0.3	1.6 1.8 1.8 1.6 1.7 1.7
2021	_	1.3	0.4	1.7
2022	_	1.4	0.4	1.7
2023	_	1.2	0.4	1.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	18.9	4.0	1.3	24.2
1965 1970	18.9 26.0	4.5	1.3 2.3	32.7
1970	24.1	4.9	20	24.2 32.7 31.1
1975	19.7	4.5 4.9 3.6 3.2 2.5 3.2 3.3 3.1 3.5 3.1	2.3 3.0 2.1	25.6 21.2 13.1
1980	15.0 8.5	3.2	3.0	21.2
1985 1990	8.5	2.5	2.1	13.1
1990	11.6	3.2	2.9	17.7
1995	9.1 7.8	ა.ა 2 1	2.6 2.7	14.9 13.6
1997	6.1	3.1	2.1	12.0
1998	8.9	3.1	2.3 2.8	14.8
1999	8.9 7.7	2.7	2.8 2.6 3.5	13.3
2000 2001	7.6 7.1	3.1	2.6	13.3 13.3
2001	7.1	26	3.5	13.3
2002 2003 2004	7.1 6.6 6.5 5.5	3.0 2.6 2.5 2.2	4.5 3.2 4.0 4.2	14.7
2003	6.6	2.6	3.2	12.4
2004	6.5	2.5	4.0	13.1
2005	5.5	2.2	4.2	12.0
2006 2007 2008	5.2 6.1	2.4 2.3	4.7	12.3 13.4
2007	5.1 5.0	2.3	5.0 5.0	13.4
2009	5.9 4.4 5.9 5.9 4.7	2.1	2.6	9.1
2009 2010 2011	5.9	2.0 2.1	2.6 2.5 2.5	10.6
2011	5.9	2.4	2.5	10.6 10.7
2012	4.7	2.8	2.5	10.0
2013	4.4	3.3	2.6	10.3
2014	4.2 3.8 2.9 2.5	3.3 4.3 4.7	2.6	11.1
2015	3.8	4.7	1.7	10.3
2016	2.9	5.3	1.2	9.4
2017	2.5	6.0 6.7	1.6 1.9	10.1 11.2
2018 2019	2.6 2.6	6.7 7.3	2.0	11.2
2019	2.0	7.3 8.2	1.3	12.0
2021	2.9	8.6	1.6	13.1
2022	1.1	8.9	1.7	11.6
2022 2023	0.6	9.8	1.6	12.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

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Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.3	0.5	5.1	5.9
1965	0.3	1.0	5.5	5.9
1970	(s)	0.4	7.1	6.6 7.6 9.7
1975	(s) (s)	0.8	8.9	9.7
1980	<del>( /</del>	0.7	8.9 9.5	10.2
1985	_	1.0	9.8 9.8	10.8
1990	_	0.5	9.8	10.3 12.2 11.0
1995	_	1.5	10.7	12.2
1996	_	1.8 1.8 1.7	9.1	11.0
1997 1998	_	1.8	10.1 10.8	12.0
1998	_	1.7	10.8	12.0
2000		1.7	10.9	12.0 12.6 12.2 12.7
2001	_	1.9	10.8	12.7
2002	_	1.9	10.4	12.5 12.3
2003	_	1.0	10.8	11.9
2004	_	1.1	11.4	12.4
2005	_	1.1	11.4	12.4 12.5
2006	_	1.1	11.4	12.5
2007	_	1.2	11.1	12.5 12.3 10.8
2008	_	1.0	9.8	10.8
2009	_	1.3	9.8	11.1
2010	_	1.2	10.2	11.4
2011	_	1.2	9.7	11.0
2012 2013	_	1.8 1.7	9.5 9.3	11.4 11.0
2013	_	1.7	9.3	11.0
2015		1.7	9.5 9.6	11.3
2016	_	1.2	10.9	12.0
2017	_	1.1	10.2	11.3
2018	_	1.1	11.7	12.8
2019	_	1.4	10.8	12.2 11.1
2020	_	1.7	9.4	11.1
2021	_	1.9	10.9	12.8 12.6 12.9
2022	_	1.9	10.7	12.6
2023	_	1.9	11.0	12.9

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, West Virginia (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
960	13.4	0.1	(s)	13.4
965	18.1	0.1	(s)	18.2
970	33.0	(s)	(s) (s) 0.2	33.3
975 980	57.0	(s) (s) (s) (s) (s) (s) (s)	0.3 0.3 0.2	57.3
980	65.8	(s)	0.3	66.1
985	74.1	(s)	0.2	74.2
990	70.8	(s)	0.2	71.0
995	73.4	(S)	0.1	73.6 78.7
996	78.6	(S)	0.2	/8./
997 998	82.6 83.6	(S)	0.1 0.1	82.8 83.7
999	00.0 86 3	(5) (c)	0.1	85.7 86.4
000	86.3 84.9	(s) (s) (s) (s) 0.1 0.1	0.2	85.1
000 001	75.2	0.1	0.2	75.6
002	87.4	0.1	0.2	75.6 87.7
002 003 004 005	86.7	0.1	0.2 0.2 0.2 0.2 0.2	87.0 83.0 86.2
004	86.7 82.7	0.1	0.2	83.0
005	85.9	0.1	0.2	86.2
006 007 008 009	86.1	0.2 0.2 0.1	0.1	86.4 87.8 85.4
007	87.4 85.2	0.2	0.1	87.8
008	85.2	0.1	0.1	85.4
009	66.4	0.1	0.1	66.6
010 011	74.9 72.5	0.1	0.1	75.1
011	/2.5	0.1	0.1	/2.8
012 013	67.5 69.2	0.1	0.1	6/./
013	69.2 70.7	0.1 0.2 0.4 0.7	0.1	66.6 75.1 72.8 67.7 69.5 74.2 66.8
014 015 016 017	73.7 65.9	0.4	0.1 0.1	74.2 66.0
015 016	68.9	0.7	0.1	60.0 60.6
010 017	65.4	0.6 0.6	0.1	66.1
017	60.6	0.0	0.1	69.6 66.1 61.3
018 019 020	56.8	0.6 0.9 1.2	0.1	57.8
020	49.1	1.2	0.1	57.8 50.4
021 022	57.7	1.1	0.1	59.0 51.4
022	50.3	0.9 1.8	0.1	51.4
023	44.7	1.8	0.1	46.6

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
			I	
1960	28.9	4.9	26.5	60.3
1965	33.0	10.7	27.9	71.6
1970	36.2	18.0	34.0	88.2
1975	25.8	19.5	35.5	80.8
1980	31.1	18.6	31.9	81.6 80.6 85.8 96.6 100.6
1985	34.3	16.3	30.0	80.6
1990	37.5	16.3	32.0	85.8
1995	42.0 43.2 46.2	20.2	34.5	96.6
1996	43.2	21.4	36.0	100.6
1997	46.2	21.2	35.7	103.1
1998	44.9	19.4	36.8	101.1
1999	45.7	20.2	39.5	105.4
2000	47.5	20.8	39.4	107.7
2001	47.0	19.0	39.8	105.8
2002	46.9	20.3	39.8	107.0
2003	46.6	20.9	38.0	105.6
2004	47.7	20.3	39.7	107.7
2005	49.9	21.9	39.0	110.8
2006 2007	44.1	19.8 21.2	39.1	103.0 104.7
2007	44.4	21.2 01.0	39.1 37.6	104.7
2008	45.9 40.6	21.8	37.0	105.2
2009 2010	40.6 43.8	20.6	35.0	96.3
2010	43.6 42.7	19.8 21.0	35.4 34.4	99.0
2011	42.7 35.7	21.0	34.4	99.0 98.1 90.8
2012	43.4	23.9	33.9	101.1
2013	39.8	25.9	36.1	101.1
2014	39.0	24.9	35.6	00.6
2016	34.1	26.2	34.9	99.6 95.2
2017	37.2	26.4	34.8	98.3
2018	34.6	29.5	34.0	100.8
2019	26.8	31.0	36.8	94.6
2020	23.9	29.9	33.0	86.8
2021	27.5	29.4	35.6	92.4
2022	22.3	32.6	35.9	90.8
2023	21.1	29.6	35.6	90.8 86.2
	21.1	20.0	00.0	00.2

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors. the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
		-		
1960	3.4	2.6	6.0	12.0
1965 1970	3.4 2.4 1.5 0.3 (s) (s) (s) (s) (s)	2.6 4.3 5.7 6.5 6.6 6.2 6.1	6.0 6.3 7.1 6.3 4.3 3.7	13.0
1970	1.5	5.7	7.1	14.3
1975	0.3	6.5	6.3	13.1
1980	(s)	6.6	4.3	10.9
1985 1990	(S)	6.2	3.7	10.0
1990	(S)	0. I 7. 0	3.4	9.5 10.0
1995	(S)	7.3	3.0	10.3
1995 1996 1997 1998	(S)	7.9	ა.ი ა 1	11.5
1997	(s) (s)	7.3 6.2	0.1 2.7	10.4 Q ()
1999	(3)	6.2	3.2	10.1
1999 2000	(s)	7.2	3.0	10.3
2001	(s)	6.7	3.0	9.8
2001 2002	(s) (s) (s) (s) (s) (s) 0.1 (s) (s)	7.3 7.9 7.3 6.2 6.8 7.2 6.7 7.3 7.6 7.2 7.1	3.4 3.0 3.6 3.1 2.7 3.2 3.0 3.0 3.1 3.0 2.9 2.8	10.5
2003	(s)	7.6	3.0	10.7
2004	(s)	7.2	2.9	10.2
2003 2004 2005	0.1	7.1	2.8	9.9
2006 2007 2008	(s)	6.5 7.0 7.6 7.2 6.6 7.0 6.1	2.5 2.4 2.6 2.1 2.0	9.0
2007	(s)	7.0	2.4	9.4
2008	<del>-</del>	7.6	2.6	10.2
2009 2010	_	7.2	2.1	9.3
2010	_	6.6	2.0	8.6
2011	_	7.0	1.9 1.5	8.9
2012	_	0.1 7.0	1.5	7.0
2011 2012 2013 2014	<del>-</del>	7.8 8.3	2.0 2.1	9.8
2014		0.3 7.0	1.8	10.4 8.0
2015 2016		7.0 6.0	1.0	0.5 8.7
2017	<u>_</u>	7.0 6.9 7.2	1.7	8.9
2017	<u> </u>	8.0	1.9	9,9
2018 2019	_	8.4	2.4	10.8
2020	_	8.4 7.7	2.1	12.0 13.0 14.3 13.1 10.9 10.0 9.5 10.3 11.5 10.4 9.0 10.1 10.3 9.8 10.5 10.7 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.4 10.2 9.9 9.0 9.0 9.4 10.2 9.9 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0
2021	_	7.3	2.1 2.2	9.5
2022	<del>-</del>	8.3	2.2 2.1	10.5
2021 2022 2023	_	7.3 8.3 6.8	2.1	8.9

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

V	01	Noticed and 2	Datus Issuus h	7.4.1
Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	2.4	0.6	1.3	4.2
1965	2.4 1.8 1.2 0.7	1.3	1.3	4.3 4.4 5.3 5.4 5.1 5.6 4.8 5.5 6.0 5.9 5.6 5.7 5.6 5.4 5.8 6.1 5.7 6.2 5.3 5.5 6.5 5.8 6.5 5.8 6.1 5.7 6.2 5.3 5.5 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
1965 1970	1.2	2.9	1.2	5.3
1975	0.7	3.7	1.1	5.4
1980	0.1	4.1	0.9 1.7	5.1
1985	(s) (s) 0.3 0.2 0.3 0.3	3.9 3.5	1.7	5.6
1990	(s)	3.5	1.3	4.8
1995	0.3	4.6	0.7 0.7	5.5
1996 1997	0.2	5.0 4.8	U.7 0 0	0.0 5.0
1998	0.3	4.6	0.8 0.9	5.9 5.6
1999	0.4	4.4	1.0	5.7
1999 2000	0.4	4.4 4.3	0.9	5.6
2001	0.4	4.1	0.9	5.4
2002	0.3 0.3 0.3 0.3	4.6 4.7	1.0	5.8
2003 2004	0.3	4.7	1.1	6.1
2004	0.3	4.4	1.0	5.7
2005	0.7	4.6	0.9	6.2
2006 2007	0.1 0.1	4.6 4.8 5.2 4.9	0.6 0.6	5.3
2007	U.1 0.5	4.8 5.2	0.6	5.5 6.5
2009	0.3 0.3	J.Z 1 Q	0.0 0.6	5.9
2010	0.3	4.5 4.4	0.0	5.0 5.2
2011	0.3	4.7	0.6	5.5
2012	0.5 0.3 0.3 0.3 0.1 0.1	4.2	0.5	4.8
2013	0.1	5.4	0.5	6.0
2011 2012 2013 2014	0.1	4.4 4.7 4.2 5.4 5.9 5.0 4.9	0.6 0.5 0.6 0.5 0.5 0.5 0.9	6.5
2015 2016	0.1	5.0	0.9	5.9
2016	0.1	4.9	0.9	5.9
2017 2018	0.1	5.0	1.0	6.0
2018	0.1 0.1	5.5 5.6	1.0 1.0	0.0 6.7
2019	(s)	5.0 5.1	0.9	0.7 6 1
2021	(5) —	5.1 5.6	1.0	6.1 6.6
2021 2022	<u> </u>	6.5	1.1	7.5
2023	_	6.5 5.8	1.0	6.8
		-		

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	11.0	1.6	6.6	19.2
1965 1970	13.4	4.3	6.1	19.2 23.8 24.8
1970	11.3	7.4	6.1	24.8
1975	5.2	8.0	5.2	18.4
1980	5. <u>1</u>	6.7	3.6 2.5	15.5 13.2
1985	4.7	6.0	2.5	13.2
1990	4.5	6.3	3.3 3.5	14.1
1995 1996	4.5	7.6	3.5	15.5
1996	3.8	7.6 7.8 8.1	4.0	15.5
1997	4.0	7.3	4.0 3.9 3.6	16.0 14.8
1999	3.9	7.6	5.1	16.4
2000	3.8	7.0	5.6	17.2
2001	4.5 4.5 3.8 4.0 3.9 3.8 3.8 3.7	6.9	5.6 6.2	16.7
2002	3.8 3.7 3.8 3.7	7.9 6.9 7.1	6.0	16.9
2003 2004	3.7	7.2	4.2	15.1
2004	3.8	7.4	4.6	15.8
2005	3.7	6.9	4.8	15.3
2006	3.8 3.8 3.6 3.2 3.3 3.2	6.2 6.3 6.7	4.6 4.6	14.6
2007	3.8	6.3	4.6	14.7
2008	3.6	6.7	4.0	14.3
2009	3.2	6.3	3.0 3.0	12.5 12.7
2010	3.3	6.3 6.3 6.7	3.0	12.7
2011 2012	3.2 3.0	6.6	3.1 3.1	13.0 12.6
2012	3.0 2.0	0.0 7.0	3.1	12.0
2013 2014	3.0 3.1	7.2 7.6	3.5	13.7
2015	2.6	7.0	3.4	13.2
2016	1.8	7.7	3.1	12.6
2017	1.9	8.2	3.2	13.3
2018	1.9	8.8	3.1	13.7
2019	1.9 1.7	8.7	3.0	13.4
2020	1.2	8.2	2.8	12.2
2021	1.1	8.0	2.9	12.0
2022	1.0	8.0 7.2	3.0	12.0
2023	0.7	7.2	3.0	10.9

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
1960	0.2	(s)	12.6	12.8
1965	(s)	(s) 0.1	14.2	14.3
1970	(s) (s)	0.4	18.8	19.1
1975	(s)	0.3	22.3	19.1 22.6 23.3 22.1
1980	<del>-</del>	0.4	22.9	23.3
1985	_	0.1	22.0	22.1
1990	_	0.2	24.0	24.2 27.4
1995	_	0.2	27.1	27.4
1996 1997	_	0.2	27.6	27.8
1997	<del>-</del>	0.2 0.2	27.7	27.9 29.5 30.2
1998	_	0.2	29.3	29.5
1999	_	0.2	30.0	30.2
2000	_	0.2	29.6	29.9 29.6 29.7 29.6 30.7 30.1
2001	<del>-</del>	0.2 0.2	29.4	29.6
2002	<del>-</del>	0.2	29.5	29.7
2003	<del>-</del>	0.2	29.4	29.6
2004	<del>-</del>	0.2 0.2 0.2	30.5 29.9	30.7
2005	<del>-</del>	0.2	29.9	30.1
2006	<del>-</del>	0.2	30.5	30.7 30.7
2007	_	0.2	30.5	30.7
2008 2009	_	0.1	29.3	29.5
2009	_	0.1	28.7	28.8 29.5 28.5
2010	_	0.2	29.3	29.5
2011	_	0.1	28.3	28.5
2012	_	0.1	28.3	28.4
2013	_	0.2	27.8	28.0
2014	_	0.2	29.8	30.0
2015	<del>-</del>	0.2	29.4	29.6
2016	_	0.2	29.1	29.3
2017	_	0.2	28.7	28.9
2018	_	0.2	30.5	30.7
2019 2020	_	0.3	30.2	30.4 27.2
2020	<del>-</del>	0.2	27.0	27.2
2021 2022	<del>-</del>	0.2	29.0	29.2 29.7
2022		0.3	29.4	29.7
2023	<del>-</del>	0.2	29.3	29.5

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See

technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Wisconsin (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	12.0	0.1	(0)	12.1
1965	15.3	0.8	(s) (s) 0.7	16.1
1970	22.3	1.7	0.7	24.7
1975	19.6	1.1	0.5	21.2
1980	25.8	0.7	0.5 0.3	21.2 26.8 29.7
1985	29.5	0.1	0.1	29.7
1990	33.0	0.1	(s) 0.2	33.2
1995	37.2	0.5	0.2	37.9
1996	39.1	0.4	0.2	39.7
1997 1998	41.8 40.7	0.9 1.3	0.2 0.3	42.9 42.2
1999	40.7	1.3	0.3	42.2
2000	43.3	1.1	0.3	44.7
2001	42.9	1.2	0.2	44.4
2002	42.8	1.1	0.2 0.2	44.1
2003	42.5	1.3	0.3	44.0
2004	43.5	1.1	0.6	45.2
2005	45.5	3.1	0.6	49.2
2006	40.3	2.4	0.8	43.5
2007	40.4	2.9	0.9	44.3
2008	41.8 37.1	2.2	0.8	44.8 39.9
2009 2010	37.1 40.0	2.2 2.3	0.6	39.9
2010	40.2 39.2	2.3	0.6 0.5	43.1 42.3
2012	39.2	4.7	0.3	37.4
2013	40.3	3.3	0.1	43.8
2014	36.7	3.3	0.2	40.1
2015	36.4	5.4	0.1	42.0
2016	32.3	6.4	0.2	38.9
2017	36.4 32.3 35.2 32.7	5.8	0.2	42.0 38.9 41.2
2018	32.7	7.0	0.2	39.9
2018 2019 2020	25.1 22.6	8.0 8.7	0.1 0.2 0.2 0.2 0.2 0.2	39.9 33.3 31.5
2020	22.6	8.7	0.2	31.5
2021 2022	26.4 21.3	8.2 9.5	0.4	35.0
2022	21.3	9.5 9.5	0.4 0.2 0.1	31.1 30.1
2020	20.4	9.5	0.1	30.1

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

Table CO2.T1. Total CO2 emissions estimates from energy consumption by source, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.5	2.7	5.0	0.0
1965	1.5 3.3	2.7 2.8	5.0 5.8	9.2 11.9
1970	6.0	5.8	6.7	18.6
1975	6.0 12.2	4.2	8.9	25.3
1980	25.5	3.8	11.7	41.0
1985	38.6	4.5	7.4	50.4
1990	43.7	5.3	8.3	57.2
1995	44.0	5.4	8.8	58.2
1996 1997	45.0 44.5	5.6 5.6	9.0 9.0	59.6 59.1
1997	44.5	6.0	9.0 8.9	64.0
1999	47.2	5.3	10.1	62.5
2000	48.2	5.5	9.8	63.5
2001	47.6	5.4	10.8	63.7
2002	45.8	6.1	10.6	62.5
2003	47.2	6.3	11.1	64.5
2004	47.8	5.8	10.8	64.4 63.7
2005	46.9	5.9	10.9	63.7
2006	46.7	5.9	11.9	64.5 66.8
2007 2008	47.2	7.6	12.0 11.9	bb.8
2008	47.7 45.2	7.6 7.7	11.9	67.3 64.1
2009	45.2 46.2	8.1	11.2	65.7
2011	44.6	8.4	11.4	64.5
2012	46.8	8.2	11.7	66.8
2013	49.7	8.1	11.2	69.0
2014	46.7	7.4	11.8	69.0 66.0
2015	46.6	6.5	11.0	64.1
2016	43.7	6.8	10.7	61.2
2017	43.8	8.1	10.8	62.8
2018	43.6	9.0	11.2	63.8 59.0
2019 2020	39.2	8.8 8.7	10.9 9.7	59.0 55.5
2020	37.2 36.1	8.3	9.7 10.1	C.CC
2021	37.4	8.9	10.1	54.5 56.3
2023	37.4	9.3	9.9	54.5 56.3 54.3
_0_0	00.1	0.0	0.0	01.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption for all sectors, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. http://wwws.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T2. Residential sector CO2 emissions estimates from energy consumption, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
- I Cai	Coai "	ivaturai gas s	retioleum ·	Total
1960	0.1	0.5	0.1	0.7
1965	(e)	0.5	0.1	0.7 0.7
1965 1970	(5) (5)	1.0	0.2	12
1975	(s)	0.6	0.2	0.8
1980	(s)	0.5	0.1	0.7
1980 1985	(s) (s) (s) (s) (s) (s) (s) 0.1	0.8 0.7	0.1	1.0
1990	(s)	0.7	0.1	0.8
1990 1995 1996	(s)	0.7	0.1	0.9
1996	0.1	0.8	0.1	0.9
1997 1998	(S)	0.7 0.7	(s) (s) 0.1	0.8
1000	(5) (c)	0.7	(5)	0.0 0.8
1999 2000 2001	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0.7	0.1	0.0
2001	(s)	0.6	0.1 0.2	0.8
2002 2003 2004 2005	(s)	0.7	0.2	0.9
2003	(s)	0.7 0.7	0.1 0.1 0.2	0.8
2004	(s)	0.7	0.1	0.8
2005	(s)	0.6	0.2	0.8
2006 2007 2008	(s)	0.6 0.7	0.1	0.8
2007	(S)	0.7 0.7	0.2	0.9
2008		0.7	0.2	1.0
2010		0.7 0.7	0.3	1.0 0.0
2011	_	0.7 0.7 0.6 0.8 0.7	0.2	1.0
2012	_	0.6	0.2	0.8
2013	_	0.8	0.2	0.9
2011 2012 2013 2014	_	0.7	0.2	0.7 0.7 1.2 0.8 0.7 1.0 0.8 0.9 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 1.0 1.0 0.9
2015	_	0.6 0.7 0.7	0.1	0.8
2016	<del>-</del>	0.7	0.2	0.9
2017	_	0.7	0.2	0.9
2018	_	0.7	0.2	1.0
2015 2016 2017 2018 2019 2020 2021 2022 2023	<del>-</del>	0.8 0.7	0.1 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2	1.0 1.0 0.9 0.9
2020	_	0.7	0.2 0.2	0.9 n a
2021	_	0.7 0.8	0.2 0.2	1.0
2023	_	0.8 0.8	0.3	1.0 1.0
		0.00	0.0	110

 $<sup>^{\</sup>rm a}$  Beginning in 2008, consumption data not collected and assumed to be zero.  $^{\rm b}$  Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05. Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Totals may not equal sum of components due to independent rounding. The continuity of these

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>c</sup> Excludes biofuels.

data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T3. Commercial sector CO2 emissions estimates from energy consumption, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
- I Cai	Odi	Hattiful gas	1 cuolcum	Total
1960	(a)	0.3	0.1	0.4
1965	(s) (s)	0.3	0.1	0.6
1970	(s)	0.8	0.2	1.0
1975	(s) 0.1	0.5	0.2	1.0 0.8 0.7 0.9 0.9 1.3 0.9 0.9 0.9
1980	0.1	0.3	0.3	0.7
1985	0.1	0.5	0.3	0.9
1990	0.2	0.5	0.2	0.9
1995	0.2	0.6	0.2	0.9
1996 1997	0.6	0.6 0.5 0.6 0.6	0.2 0.2 0.1 0.1	1.3
1997	0.2 0.3	0.0 0.6	0.1 0.1	0.9 0.0
1999	0.2 0.6 0.2 0.3 0.2 0.2 0.2	0.5	0.2	0.9
2000	0.2	0.5	0.2	1.0
2001	0.2	0.5	0.2 0.3	1.0
2002	0.1	0.6	0.2	0.9
2003	0.1	0.6	0.2	0.9
2004	0.2	0.6	0.2 0.2	0.9
2005	0.1	0.5	0.2	0.9
2006	0.1	0.5	0.2 0.2 0.3	0.8
2007	0.1 0.1	0.5 0.6	0.2	0.9
2008 2009	0.1	0.0 0.6	0.3	0.9
2010	(e)	0.0	0.3 0.3	1.0
2011	(s) 0.1	0.6 0.6 0.6	0.3 0.3 0.5	1.0
2012	(s)	0.6	0.4	1.0
2013	(s)	0.6 0.7	0.4	1.1
2013 2014 2015	(s)	0.7 0.7	0.4	0.9 0.9 0.8 0.9 0.9 1.0 1.2 1.0 1.1
2015	(s) (s)	0.7	0.4	1.1
2016	(s)	0.8	0.3	1.1 1.0
2017	(s)	0.8	0.2	1.0
2018 2019	(s)	0.8 0.7	0.2	1.0
2019	(s)	0.7 0.7	0.2 0.2	1.0 0.9
2020	(s) (s)	0.7	0.2 0.2	0.9 0.0
2022	(5)	0.7	0.2	0.9 1.1 1.0
2023	(s) (s)	0.8	0.3 0.3	1.0
_0_0	(0)	0.0	0.0	1.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>•</sup> Totals may not equal sum of components due to independent rounding. • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Table CO2.T4. Industrial sector CO2 emissions estimates from energy consumption, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	0.2	1.9	1.9	4.0
1965	0.2 0.2	1.8	2.4	4.0 4.5 6.6 8.0
1965 1970 1975	0.4	3.7	2.6	6.6
1975	1.1	2.8	4.1	8.0
1980 1985	2.7	2.6	5.3	10.7 8.4
1985	3.1	2.9	2.4	8.4
1990	3.9	3.8	2.5	10.2
1995 1996	4.0 3.8	3.7 3.8	2.1 2.4	9.8 10.0
1997	4.0	3.6	2.4	10.0
1998	4.0	4.1	2.3	10.4
1999	4.0	3.3	2.5	9.8
2000	3.6	3.4	2.6	9.6 9.8
2001	3.1	3.4	3.3	9.8
2002	2.9	3.9	3.2	10.0
2003	3.0	4.1	2.9	10.1
2004 2005	3.0	3.9 3.9	3.0 2.9	9.9 9.8
2005	3.0 3.2 3.3	3.9	3.7	9.0 10.8
2007	3.3	3.9 5.5	3.5	12.3
2008	3.3	5.4	3.7	10.8 12.3 12.4
2009	2.9 2.9	5.3 5.6 6.1	3.5 3.7	11.7 12.2 13.2 13.1
2010	2.9	5.6	3.7	12.2
2011	3.1	6.1	4.1	13.2
2012	3.0	6.1	4.0	13.1
2013 2014	3.0 3.0 3.0 2.8 3.1	5.8 5.1	3.7 4.1	12.5 12.2
2014	2.8	5.1 Л З	4.1 3.6	10.7
2016	3.1	4.3 4.6	3.6 3.2	10.7
2017	3.0	5.8	3.4	12.3
2018	3.0	6.5	3.8	13.3
2019	3.0 3.0 2.9	6.4	3.4 3.8 3.3 2.7	12.6
2020 2021 2022	2.3	6.1	2.7	10.9 12.3 13.3 12.6 11.2 11.2 11.7
2021	2.5 2.6 2.3	5.7	2.9	11.2
2022 2023	2.6	6.1	3.0 2.9	11.7
2023	2.3	6.3	2.9	11.4

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

— = No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Notes: • Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

 $<sup>\</sup>cdot$  Totals may not equal sum of components due to independent rounding.  $\cdot$  The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants.  $\cdot$  The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Table CO2.T5. Transportation sector CO2 emissions estimates from energy consumption, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal <sup>a</sup>	Natural gas <sup>b</sup>	Petroleum <sup>c</sup>	Total
	Cour	Hatarar gao	T GATOTOGHI	10141
1960	(s)	0.1	28	2 9
1965	(s)	0.1	2.8 3.0 3.7	3.2
1965 1970	(s)	0.3	3.7	4.0
1975	(s) (s)	0.3	4.4 5.9 4.6 5.5 6.3 6.3 6.3 6.4	4.6
1980	_	0.3	5.9	6.3
1985	_	0.3	4.6	4.8
1990	_	0.3 0.4	5.5	5.8
1995 1996	_	0.4	0.3 6.3	0. <i>1</i> 6.7
1997		0.5	0.3 6.3	6.7 6.0
1998	_	0.6 0.7	6.4	7.1
1999	<del>-</del>	0.8	7.3 6.9 7.0	8.1
1999 2000	<del>-</del>	0.8 0.8 0.7	6.9	7.6
2001 2002	_	0.7	7.0	7.8
2002	<del>-</del>	0.7	7.0 7.8	7.7
2003 2004	_	0.8 0.7	7.8	8.6
2004	_	0.7	7.5	8.1
2005 2006	_	0.8 0.8	7.6	8.3
2007	_	0.8	7.8 8.0	0.0 9.9
2007	<u> </u>	0.0	7.6	8.6
2008 2009	_	0.9 1.1	7.6 7.2	8.2
2010	_	1.1	7.1	8.3
2011	_	1.0	6.6	7.6
2012 2013	_	0.9 0.8	7.1	8.0
2013	_	0.8	6.9 7.2 6.9 6.9 6.9	7.7
2014 2015	_	0.8	7.2	8.0
2015	_	0.7 0.7	6.9 6.0	/.0 7.6
2016 2017		0.7	0.9 6.0	7.0 7.6
2018	<u> </u>	0.0	7.0	7.0
2019	_	0.8	7.0	2.9 3.2 4.0 4.6 6.3 4.8 5.8 6.7 6.7 6.7 6.9 7.1 8.1 7.6 7.8 7.7 8.6 8.1 8.3 8.6 8.1 8.3 8.6 8.8 8.6 8.2 8.3 7.6 8.0 7.7 8.0 7.7 8.0 7.7 8.0 7.7 8.0 7.7 8.0 8.0 7.7 8.0 8.0 7.7 8.0 7.7 8.0 8.0 7.7 8.0 7.7 8.0 8.0 7.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
2019 2020	<del>-</del>	0.8	6.5	7.2
2021 2022	<del>-</del>	0.7	6.7	7.4
2022	_	0.7	6.5	7.2 7.3
2023	_	0.7	6.6	7.3

<sup>&</sup>lt;sup>a</sup> Beginning in 1978, consumption data not collected and assumed to be zero.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate

electricity, although the electricity might be sold to ultimate customers in other states and sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

<sup>&</sup>lt;sup>b</sup> Transportation use of natural gas to operate pipelines and as vehicle fuel. Excludes supplemental gaseous fuels.

<sup>&</sup>lt;sup>'c'</sup> Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

Table CO2.T6. Electric power sector CO2 emissions estimates from energy consumption, 1960-2023, Wyoming (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas <sup>a</sup>	Petroleum <sup>b</sup>	Total
1960	1.2	(s) (s) 0.1	(s) (s) (s) 0.1	1.2
1965	3.0 5.6	(s)	(s)	3.0 5.8
1970	5.6	0.1	(s)	5.8
1975	11.0 22.6	(s) (s) (s)	0.1	11.0
1980 1985	22.6 35.3	(S)	0.1 0.1	22.6 35.3
1985	35.3 39.6	(S)	U.1 (c)	39.6
1995	39.0 30.8	(s)	(s) 0.1	39.0 30.8
1996	39.8 40.6	(9)		39.8 40.6
1997	40.2	(S)	(s) (s) (s) (s) (s)	40.3
1998	44.7	(s)	(s)	40.3 44.8
1999	43.0	(s)	(s)	43.0
2000	44.3	(s) (s) (s) (s) (s) 0.1 0.1	(s)	44.4
2001	44.2	0.1	(s) (s) (s) (s)	44.4
2002	42.8	0.2	(s)	43.0
2003	44.0	0.1	(s)	44.2
2004	44.6	(S)	(S)	44.7 43.9
2005 2006	43.8 43.4	0.1 (s) (s) (s) 0.1	(s) (s)	43.9 43.5
2006	43.4 43.8	(S) 0.1	(S)	43.3 44.0
2007	44.4	0.1	(s) (s)	44.5
2008 2009	42.3	0.1 0.1	(s)	42.4
2010	43.2	(s)	(s) (s)	43.3
2011	41.5	(s) (s)	(s)	41.6
2012	43.8	(s)	(s)	43.9
2013	46.7	(s) (s) (s) 0.1	(s) (s) (s) (s) (s)	46.7
2014	43.6	(s)	(s)	43.7
2015	43.7	0.1	(s)	43.8
2016	40.6	0.1	(s)	40.7
2017 2018	40.8 40.6	0.1 0.1	(s) (s)	40.9 40.7
2018	40.6 36.3	0.1	(S)	40.7 36.5
2019	36.3	0.2	(s) (s)	35.2
2021	33.6	0.4	(3)	34.1
2022	34.8	0.6	(S)	35.4
2023	32.8	0.8	(s) (s) (s)	33.6
	02.0	0.00	(0)	00.0

<sup>&</sup>lt;sup>a</sup> Excludes supplemental gaseous fuels.

Notes: Data are carbon dioxide (CO2) emissions estimates from fossil fuels primary energy consumption, excluding renewable energy. The state data do not account for interstate flow of electricity and represent CO2 emissions in the state where fossil fuels are burned to generate electricity, although the electricity might be sold to ultimate customers in other states and sectors.

consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the technical notes for each type of energy.

Web page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Data source: Table by the U.S. Energy Information Administration, State Energy Data System. See technical notes. https://www.eia.gov/state/seds/

b Excludes biofuels.

<sup>— =</sup> No consumption. Where shown, R = Revised data and (s) = Value less than 0.05.

<sup>·</sup> Totals may not equal sum of components due to independent rounding. · The electric power sector

State Energy Data System 2023 CO2 Emissions Technical Notes

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# Introduction to the technical notes

### **Purpose**

The U.S. Energy Information Administration (EIA) State Energy Data System (SEDS) provides Members of Congress, federal and state agencies, and the general public with comparable state-level data on energy production, consumption, prices, expenditures, carbon dioxide (CO2) emissions, and indicators. SEDS provides annual time series of CO2 emissions from energy consumption by state and sector to help users analyze state energy and its interaction with the economy and the environment.

The terms CO2 emissions from energy consumption and energy-related CO2 emissions are interchangeable and refer to emissions from primary energy consumption released at the location where fossil fuels are combusted (burned). In SEDS, we attribute CO2 emissions for electricity generation to the state where the fossil fuels are burned as primary energy, even if the electricity is later consumed in a different state. Therefore, SEDS does not estimate CO2 emissions for electricity sales, only primary energy used to generate electricity in the electric power, commercial, and industrial sectors. Similarly, for non-combustion (nonfuel) uses of fossil fuels, such as petroleum used to make plastics, we attribute that nonfuel energy consumption to the states where the petrochemicals are consumed as primary energy at production plants, even if the final products are later used in different states.

The SEDS energy-related CO2 emissions data are for fossil fuels only, and exclude any emissions from nuclear and renewable energy, including CO2 emissions from biomass such as biofuels, wood, and biomass waste. The underlying assumption is that biomass CO2 emissions are carbon neutral, meaning they are fully offset by land sinks in a sustainable biomass cycle and the natural processes by which trees, crops, and other biomass remove CO2 from the atmosphere to grow. EIA does not separately estimate other biofuels consumption by individual fuel (renewable jet fuel, renewable propane, renewable naphtha, etc.), so other biofuels product supplied is removed from EIA CO2 emissions data but not other unknown blended consumption. CO2 emissions data may underestimate actual CO2 emissions to the extent that actual biomass energy consumption may not be carbon neutral.

SEDS also does not estimate other emissions types, such as sulfur oxides

(SOx), nitrogen oxides (NOx), or any other CO2 equivalent (CO2-eq) emissions from energy production or consumption. See EIA's published survey EIA-860 and EIA-923 data for sulfur dioxide and nitrogen dioxide emissions related to electricity and heat generation in the electric power, industrial and commercial sectors for 1990 forward <a href="https://www.eia.gov/electricity/data/state/">https://www.eia.gov/electricity/data/state/</a>.

Because of differences in how EIA collects and calculates national- and state-level energy consumption and CO2 emissions data, the sum of state CO2 emissions by fuel and sector may not equal the national total in the *Monthly Energy Review* (MER).

# The report

The SEDS CO2 emissions tables, available on the EIA website at https://www.eia.gov/state/seds/seds-data-complete.php, provide annual time series estimates of state-level energy CO2 emissions by broad primary energy-consuming sectors. Companion tables containing state-level energy production, consumption, price, expenditure, and indicator estimates can be found at the same website. In addition, SEDS publishes the most recent year of data tables for state-level energy consumption, price, expenditure, and indicator estimates by source as they are updated at https://www.eia.gov/state/seds/seds-data-fuel.php.

SEDS provides the following technical notes to assist users in understanding and interpreting the energy-related CO2 emissions estimates. Each section describes how SEDS estimates each individual energy source and lists the sources of all data series.

Technical notes for state-level production, consumption, prices, expenditures, and energy indicators are available at https://www.eia.gov/state/seds/seds-technical-notes-complete.php.

Due to page-size constraints, most of the PDF time-series tables show estimates for only selected years. However, SEDS maintains energy-related CO2 emissions estimates for all years for 1960 forward and includes them in the HTML and PDF tables, as well as in CSV, XLSX, and ZIP data files available on EIA's website. The documentation in this report covers all years. In the published SEDS tables, all estimates with revisions since the last SEDS report that are large enough to be seen are

preceded with an "R."

#### **Estimates**

**Energy consumption estimates.** The energy-related CO2 estimates are based on the SEDS state-level primary energy consumption estimates. EIA develops estimates of energy consumption by energy sources, primary energy-consuming sectors, and by state for 1960 forward in SEDS. We estimate energy consumption using data from surveys of energy suppliers that report consumption, sales, or distribution of energy at the state level. Most SEDS estimates rely directly on collected statelevel consumption data. When EIA state-level survey statistics are not available, then we use a variety of surrogate measures to estimate energy consumption. SEDS selects the surrogate measures based on the applicability as an indicator of consumption, availability, continuity over time, and consistency. For example, EIA uses "product supplied" as an approximation for petroleum consumption. EIA calculates "product supplied" as the sum of field and refinery production, plus net imports, plus net stock change. SEDS uses state-level sales survey data, regression models, and other proxies of consumption to allocate the national petroleum product supplied totals to the states. The measures of consumption and estimation methodologies are explained in detail under each energy source in the SEDS consumption technical notes https:// www.eia.gov/state/seds/seds-technical-notes-complete.php.

Non-combustion (nonfuel) use of fossil fuels. EIA develops estimates of fossil fuels consumed but not combusted (burned), called noncombustion use of fossil fuels or nonfuel use. EIA assumes all nonfuel use occurs in the industrial sector, except for petroleum lubricants consumption in the transportation sector. EIA estimates nonfuel consumption shares at the national level for the *Monthly Energy Review* (MER) based on survey data and other assumptions as described in the MER Energy overview section endnotes. We assume the same national nonfuel shares at the state level for SEDS. See the MER Energy overview section for more information <a href="https://www.eia.gov/totalenergy/data/monthly/">https://www.eia.gov/totalenergy/data/monthly/</a>.

Carbon sequestration from nonfuel use. Some non-combustion (nonfuel) use of fossil fuels results in less CO2 released into the atmosphere than if the fuel were combusted (burned) during consumption. Some nonfuel uses still release CO2 emissions. EIA develops carbon sequestration factors, or the share of carbon that remains in the fossil fuel product or carbon sink during nonfuel use, at the national level for the *Monthly Energy Review* (MER) based on survey data and other

assumptions as described in the MER Environment section endnotes. We assume the same national carbon sequestration factors at the state level for SEDS. See the MER Environment section for more information <a href="https://www.eia.gov/totalenergy/data/monthly/">https://www.eia.gov/totalenergy/data/monthly/</a>.

CO2 conversion factor estimates. EIA develops estimates of fossil fuel CO2 conversion factors that convert energy consumption and nonfuel consumption from British thermal units (Btu) to metric tons of CO2 emissions. EIA uses national CO2 conversion factors provided by the U.S. Environmental Protection Agency (EPA). We assume the same national CO2 conversion factors at the state level for SEDS. See EIA's CO2 emissions coefficients by fuel for more information https://www.eia.gov/environment/emissions/co2\_vol\_mass.php.

**Data sources.** The original source documents cited in the technical notes include descriptions of the data collection methods, imputation or adjustment techniques, and errors associated with the processes. Due to the many different collection forms and procedures associated with the source data and estimation methods, it is not possible to develop a meaningful numerical estimate of the errors of the integrated data published in SEDS.

It is difficult to develop reliable, consistent series for long periods of time—especially in the earlier years—and SEDS must make assumptions to fill data gaps and to maintain definitional consistency. Although SEDS incorporates the most consistent series and procedures possible, users of this report should recognize the limitations of the data that are due to changing and inadequate data sources.

For example, in reports prepared by the Bureau of Mines in the late 1960s and early 1970s, petroleum consumption was equated to demand. Later, consumption was equated to apparent demand and, more recently, to product supplied. Changes in surveys and reduction of data collections, especially after 1978, disturbed the continuity of some petroleum consumption series, most notably for distillate fuel oil, residual fuel oil, and kerosene. The SEDS consumption technical notes explain these and other data inconsistencies in detail for each energy source <a href="https://www.eia.gov/state/seds/seds-technical-notes-complete.php">https://www.eia.gov/state/seds/seds-technical-notes-complete.php</a>.

# **Energy-consuming sectors**

SEDS bases its energy consumption and energy-related CO2 emissions estimates on data collected by various surveys that define the consuming sectors differently. The technical notes of this report describe how SEDS combines the collected data series for each energy source and assigns

them to the consuming sectors. To the degree possible, SEDS assigns energy consumption to the five sectors according to the following general definitions:

- Residential sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include: space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.
- Commercial sector: An energy-consuming sector that consists
  of service-providing facilities and equipment of: businesses;
  federal, state, and local governments; and other private and
  public organizations, such as religious, social, or fraternal groups.
  The commercial sector includes institutional living quarters and
  sewage treatment facilities. Common uses of energy associated
  with this sector include: space heating, water heating, air
  conditioning, lighting, refrigeration, cooking, and running a wide
  variety of other equipment. Note: This sector includes generators
  that produce electricity and/or useful thermal output primarily to
  support commercial activities.
- Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 3133); agriculture, forestry, fishing, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support industrial activities.
- Transportation sector: An energy-consuming sector that
  consists of all vehicles whose primary purpose is transporting
  people and/or goods from one physical location to another.
  Included are automobiles; trucks; buses; motorcycles; trains,
  subways, and other rail vehicles; aircraft; and ships, barges, and
  other waterborne vehicles. Vehicles whose primary purpose is

- not transportation (such as, construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.
- Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Note: This sector includes electric utilities and independent power producers.

Although SEDS makes the sector allocations according to these aggregations as closely as possible, some data sources collect information using different classifications. For example, electric utilities may classify commercial and industrial users by the quantity of electricity purchased rather than by the business activity of the purchaser. Before 1996, EIA collected and reported natural gas used in agriculture, forestry, and fisheries in the commercial sector. For 1996 forward, EIA collects and reports natural gas used for agriculture, forestry, and fisheries in the industrial sector instead. Another example is master-metered condominiums and apartments and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy use of electricity, natural gas, or fuel oil to be included in the commercial sector. SEDS makes no adjustments for these discrepancies.

SEDS does not provide further disaggregated sector estimates. For example, the industrial sector cannot be broken down into the chemical or rubber industries, all manufacturing, or agriculture. Additional disaggregated regional information, such as counties or cities, are also not available in SEDS.

# Section 1. Documentation guide

This section describes the common data identification codes used in the State Energy Data System (SEDS). Sections 2 through 5, one for each fossil fuel energy source and total energy, provide: descriptions of all SEDS data series, including all of the intermediate variable codes; and the SEDS formulas used to estimate additional data series.

The energy indicators technical notes provide the resident population data used in per capita calculations and gross domestic product (GDP) data used to calculate total energy CO2 emissions per dollar of GDP. Appendix A is an alphabetical listing of all the variable names and formulas used in CO2 emissions estimation.

There are thousands of variables in SEDS, each identified by a unique five-character mnemonic series name, or MSN. All published MSNs are listed in the Codes and Descriptions file on the SEDS website here: https://www.eia.gov/state/seds/CDF/Codes and Descriptions.xlsx.

In the following example, CLICE is the identifying code for data on coal CO2 emissions for the industrial sector in million metric tons:

Energy activity or energy-consuming sector



Type of energy Type of data

The first two characters in the SEDS CO2 emissions variable names usually represent energy sources and products:

AB = aviation gasoline blending components

AR = asphalt and road oil
AV = aviation gasoline
BQ = normal butane
BY = butylene

CC = coal coke net imports (U.S. only)

CL = coal

CO = crude oil, including lease condensate
DM = distillate fuel oil, excluding biofuels

EQ ethane ΕY ethylene FF fossil fuels FΝ petrochemical feedstocks, naphtha less than 401°F FO petrochemical feedstocks, other oils equal to or greater than 401°F FS petrochemical feedstocks, still gas HL hydrocarbon gas liquids IQ isobutane ΙY isobutylene JF = jet fuel KS kerosene LG liquefied petroleum gases (LPG) LU lubricants MB motor gasoline blending components = motor gasoline, excluding fuel ethanol MM MS = miscellaneous petroleum products NA natural gasoline/isopentane (historical) NN natural gas, excluding supplemental gaseous fuels OM other petroleum products, excluding biofuels PC petroleum coke PL plant condensate (historical) PM all petroleum products, excluding biofuels PP natural gasoline PΩ propane PY propylene RF residual fuel oil SG still gas SN special naphthas TE = total energy UO unfinished oils US unfractionated streams (historical)

The third and fourth characters in the SEDS variable names have several meanings and some are specific to only certain energy sources, but usually represent the energy-consuming sectors:

AC = transportation sector CC = commercial sector

waxes

WX

# DOCUMENTATION GUID

Ε

EI = electric power sector
IC = industrial sector
RC = residential sector
TC = total (all sectors)

Other third and fourth characters in the SEDS variable names represent fuel-specific activities:

KC = coke plants (coking coal) within the industrial sector

NF = non-combustion (nonfuel) use of fossil fuels

NI = net imports (U.S. industrial sector coal coke only)

OC = other than coal coke plants within the industrial sector

SQ = nonfuel carbon sequestration factor

The fifth character in the SEDS variable names identifies the units or type of data:

B = energy consumption in British thermal units (Btu)

E = CO2 emissions in metric tons

F = CO2 emissions factor in million metric tons CO2 per

quadrillion Btu

S = share (number between 0 and 1)

There are a few special variables that do not follow the conventions above, such as:

CDEGR = carbon intensity of the economy (CO2 emissions

divided by real GDP);

CDTCR = carbon intensity of energy supply (CO2 emissions

divided by total energy consumption less interstate flow

of electricity);

CDTPR = per capita energy-related CO2 emissions;

ELISB = net interstate flow of electricity and associated losses

(negative indicates flow out of state);

GDPRX = real gross domestic product (GDP); and

TPOPP = resident population including Armed Forces.

Throughout the technical notes, SEDS often describes the variables with a two-character geographic identification attached to them (ZZ). Geographic areas used in SEDS are the 50 states and the District of Columbia (represented by the U.S. Postal Service state abbreviations) and the United States as a whole. In SEDS, the term "state" includes the District of Columbia. SEDS calculates some estimates of electricity sales and losses using only the contiguous 48 states and the District of

Columbia, and the variables used in those calculations are identified by "48."

# Section 2. Coal

The State Energy Data System (SEDS) estimates energy-related carbon dioxide (CO2) emissions from coal using state-level primary energy consumption estimates from SEDS, as well as national-level non-combustion (nonfuel) consumption shares, carbon sequestration factors, and CO2 conversion factors from the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* (MER).

The term energy-related CO2 emissions refers to emissions from primary energy consumption, released at the location where fossil fuels are combusted (burned). In SEDS, we attribute CO2 emissions for electricity generation to the state where the coal is combusted, even if the electricity is later consumed in a different state. Similarly, for industrial nonfuel consumption of coal, we attribute the carbon stored in products, such as cinderblocks, to the states where the products are consumed as primary energy at production plants, regardless of where the final products are used.

# **Energy consumption**

The State Energy Data System (SEDS) estimates the amount of coal consumed, in thousand short tons, by the electric power sector and the end-use sectors. Most coal in the United States is consumed by the electric power sector to generate electricity and heat. Other uses of coal include: industrial sector electricity, coal coke manufacturing, other manufacturing, and non-combustion (nonfuel) uses; commercial sector heat and power; historical residential sector space heating (through 2008); and historical transportation sector steam engine trains (through 1977).

The U.S. Energy Information Administration (EIA) collects coal electricity data on survey Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS uses these data directly as estimates for electric power sector coal consumption and any industrial and commercial generators greater than 1 megawatt capacity. For the industrial, commercial, residential, and transportation sectors, SEDS uses data from EIA's *Annual Coal Report* (and earlier publications), EIA-3, and EIA-6 to estimate state-level data. We convert physical unit data in thousand short tons into British thermal units (Btu) using state-level conversion factors by sector.

We use these state-level coal variables from the SEDS consumption database, in billion Btu:

CLACB = coal consumed by the transportation sector (through

CLCCB = coal consumed by the commercial sector;
CLEIB = coal consumed by the electric power sector;

CLKCB = coal consumed at coke plants (coking coal) in the

industrial sector;

CLOCB = coal consumed by industrial users other than coke

plants; and

CLRCB = coal consumed by the residential sector (through

2008).

See the SEDS consumption technical notes for all consumption variables, heat conversion factors, estimation methods, and data sources https://www.eia.gov/state/seds/seds-technical-notes-complete.php?sid=US.

# Non-combustion (nonfuel) consumption

Most fossil fuels consumed in the United States are combusted (burned) to produce heat and power. However, some are used directly for non-combustion (nonfuel) uses such as construction materials, chemical feedstocks, lubricants, solvents, and waxes. The U.S. Energy Information Administration (EIA) assumes all non-combustion use of coal comes from the process of manufacturing coal coke (coking coal) in the industrial sector. Among the byproducts of the process are "coal tars" or "coal liquids," which typically are rich in aromatic hydrocarbons, such as benzene, and are used as chemical feedstock.

EIA's *Monthly Energy Review* (MER) estimates annual U.S.-level non-combustion use shares of coal tar for 1973 forward. A share of 0 means all fuel consumption was burned when used; a share of 1 means that all consumption was for non-combustion (nonfuel) purposes and not burned. Prior to 1998, the MER estimates nonfuel shares based on coal tar production data from the United States International Trade Commission's *Synthetic Organic Chemicals*. For 1998 forward, the MER estimates coal tar production using chemicals industry coal, coke, and breeze nonfuel use data from EIA, Form EIA-846, *Manufacturing Energy* 

Consumption Survey (MECS). SEDS assumes years prior to 1973 to be equal to the 1973 share. SEDS assumes that the state-level nonfuel shares are equal to the national share from the MER each year. The U.S.-level coal non-combustion use share (number between 0 and 1) variable used in SEDS is:

CLNFSUS = coal non-combustion use share.

See the *Monthly Energy Review* (MER) Energy overview and Environment sections for more information on the data sources and methods <a href="https://www.eia.gov/totalenergy/data/monthly/">https://www.eia.gov/totalenergy/data/monthly/</a>.

# **Carbon sequestration from non-combustion** use

In the non-combustion (nonfuel) use of fossil fuels, some of the carbon is stored (sequestered) in the final product and not emitted. We account for carbon sequestered by sector from nonfuel use by removing it from the final sector CO2 emissions, using an annual factor.

ElA's *Monthly Energy Review* (MER) estimates national-level carbon sequestration factors for nonfuel use. SEDS assumes the state-level sequestration factors are equal to the MER's national-level factor for all years. Sequestration factors range from 0 to 1. A factor of 0 indicates that the fuel does not sequester any carbon (all is emitted), while a factor of 1 indicates that the fuel sequesters all the carbon (none is emitted). ElA's carbon sequestration factor for coal at coking plants is 0.75 for all years. The U.S.-level coal sequestration factor (number between 0 and 1) variable used in SEDS is:

CLSQSUS = coal consumed at coke plants (coking coal) nonfuel carbon sequestration factor.

See the MER Environment section for more information https://www.eia.gov/totalenergy/data/monthly/.

# Carbon dioxide (CO2) emissions

SEDS calculates coal carbon dioxide (CO2) emissions estimates in million metric tons (MMmt) as the product of the SEDS consumption values, the carbon sequestered by non-combustion use for the industrial sector, and the annual coal CO2 emissions factors by sector at https://www.eia.gov/environment/emissions/xls/CO2 coeffs detailed.xls.

Except for plant condensate and unfractionated stream (which are EIA estimates), the CO2 emissions factors for fossil fuels are from the U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks*, Tables A-19, A-31, and A-215. EIA converts metric tons of carbon to metric tons of CO2 using the approximate molar mass (44/12)—see <a href="https://www.epa.gov/ghgemissions/inventory-usgreenhouse-gas-emissions-and-sinks">https://www.epa.gov/ghgemissions/inventory-usgreenhouse-gas-emissions-and-sinks</a>.

There are four coal CO2 conversion factors, in million metric tons CO2 per quadrillion Btu:

CLEIFUS = coal CO2 emissions factor for the electric power

sector;

CLHCFUS = coal CO2 emissions factor for the residential and

commercial sectors;

CLKCFUS = coal coking plants CO2 emissions factor for the

industrial sector; and

CLOCFUS = coal other than coke plants CO2 emissions factor for

the industrial and transportation sectors.

For the residential, commercial, transportation, and electric power sectors, SEDS calculates state- and national-level CO2 emissions in million metric tons of CO2 (MMmt CO2) as the product of each sector's coal consumption and appropriate CO2 conversion factor, with unit conversions:

CLRCE = CLRCB \* CLHCFUS / 1,000,000 CLCCE = CLCCB \* CLHCFUS / 1,000,000 CLACE = CLACB \* CLOCFUS / 1,000,000 CLEIE = CLEIB \* CLEIFUS / 1,000,000

For the industrial sector, SEDS separately calculates state-level CO2 emissions from both coking coal (CLKCE) and coal other than coke plants (CLOCE) within the industrial sector in million metric tons of CO2 (MMmt CO2). For industrial coking coal, SEDS removes the CO2 emissions sequestered from nonfuel use (CLNFE). For industrial coal other than coke plants, we assume there is no CO2 emissions sequestered from nonfuel use. The equations are:

CLKCE = (CLKCB \* CLKCFUS \* (1 - CLNFSUS \* CLSQSUS))

/ 1,000,000

CLOCE = CLOCB \* CLOCFUS / 1.000.000

State-level industrial sector total coal CO2 emissions (CLICEZZ) are the sum of CO2 emissions from coking coal and coal other than coke plants

by state, "ZZ" in the variable name is used to represent the two-letter state code:

```
CLICEZZ = CLKCEZZ + CLOCEZZ
```

State-level total coal CO2 emissions in all sectors (CLTCE) is the sum of the sectors:

```
CLTCEZZ = CLRCEZZ + CLCCEZZ + CLICEZZ + CLACEZZ + CLEIEZZ
```

# Coal coke net imports

At the U.S.-level only, SEDS estimates CO2 emissions of coal coke net imports and assigns them to the industrial sector to align with national-level CO2 emissions published in EIA's *Monthly Energy Review*. SEDS calculates coal coke net imports CO2 emissions for the United States in million metric tons of CO2 (CCNIEUS) as the product of coal coke net imports consumption in billion Btu (CCNIBUS) and the coal coke net imports CO2 emissions conversion factor in million metric tons of CO2 per quadrillion Btu (CCTCFUS), with unit conversion:

```
CCNIEUS = CCNIBUS * CCTCFUS / 1,000,000
CLICEUS = CLKCEUS + CLOCEUS + CCNIEUS
```

SEDS calculates U.S.-level total coal CO2 emissions, including coal coke net imports at the U.S.-level for the industrial sector, in million metric tons of CO2 as:

```
CLTCEUS = CLRCEUS + CLCCEUS + CLICEUS + CLACEUS + CLEIEUS
```

#### Data sources

State-level energy consumption estimates from EIA's State Energy Data System (SEDS) https://www.eia.gov/state/seds/.

U.S.-level: non-combustion use shares, carbon sequestration factors, and CO2 emissions conversion factors from EIA's *Monthly Energy Review* (MER) https://www.eia.gov/totalenergy/data/monthly/.

# Section 3. Natural gas

The State Energy Data System (SEDS) estimates energy-related carbon dioxide (CO2) emissions from natural gas, excluding supplemental gaseous fuels, using state-level primary energy consumption estimates from SEDS, as well as national-level non-combustion (nonfuel) consumption shares, carbon sequestration factors, and CO2 conversion factors from the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* (MER).

The term energy-related CO2 emissions refers to emissions from primary energy consumption, released at the location where fossil fuels are combusted (burned). In SEDS, we attribute CO2 emissions for electricity generation to the state where the natural gas is combusted, even if the electricity is later consumed in a different state. Similarly, for industrial nonfuel consumption of natural gas, we attribute the carbon stored in products, such as fertilizers, to the states where the products are consumed as primary energy at production plants, regardless of where the final products are used.

# **Energy consumption**

The State Energy Data System (SEDS) estimates the amount of natural gas consumed, in million cubic feet for each primary energy-consuming sector: residential, commercial, industrial, transportation, and electric power. SEDS removes supplemental gaseous fuels (SGF) added to natural gas consumption. These supplemental fuels are introduced into or commingled with natural gas and increase the volume available for disposition. Such fuels include, but are not limited to: synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for heat content stabilization, and manufactured gas. Because SGF are mostly derived from fossil fuels, which are already accounted for as primary energy consumption in their respective fuel categories, SEDS removes them from total energy consumption in British thermal units (Btu) to eliminate double counting.

The U.S. Energy Information Administration (EIA) collects natural gas electricity data on survey Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS uses these data directly as estimates for electric power sector natural gas consumption and any industrial and commercial generators greater than 1 megawatt capacity.

For the industrial, commercial, residential, and transportation sectors, SEDS uses data from EIA's *Natural Gas Annual*. We convert physical unit data in short tons into British thermal units (Btu) using state-level conversion factors for the end-use sectors.

We use these state-level natural gas, excluding SGF, variables from the SEDS consumption database in billion Btu:

NNACB = natural gas, excluding supplemental gaseous fuels, consumed by the transportation sector:

NNCCB = natural gas, excluding supplemental gaseous fuels, consumed by the commercial sector;

NNEIB = natural gas, excluding supplemental gaseous fuels, consumed by the electric power sector:

NNICB = natural gas, excluding supplemental gaseous fuels,

consumed by the industrial sector; and

NNRCB = natural gas, excluding supplemental gaseous fuels, consumed by the residential sector.

SEDS assumes that the transportation sector is the only sector that does not consume supplemental gaseous fuels, so the variable is equal to natural gas consumed by the transportation sector (NGACB) used in the SEDS consumption data:

NNACB = NGACB

See the SEDS consumption technical notes for all consumption variables, heat conversion factors, estimation methods, and data sources https://www.eia.gov/state/seds/seds-technical-notes-complete.php?sid=US.

# Non-combustion (nonfuel) consumption

Most fossil fuels consumed in the United States are combusted (burned) to produce heat and power. However, some are used directly for noncombustion (nonfuel) uses such as construction materials, chemical feedstocks, lubricants, solvents, and waxes. The U.S. Energy Information Administration (EIA) assumes all non-combustion use of natural gas occurs in the industrial sector to make nitrogenous fertilizers and as chemical feedstocks, such as hydrogen.

EIA's *Monthly Energy Review* (MER) estimates annual U.S.-level non-combustion (nonfuel) use shares of natural gas for 1973 forward for manufacturing and hydrogen production. SEDS estimates nonfuel shares for manufacturing production only, because EIA assumes manufacturing is the only activity that sequesters carbon from natural gas nonfuel use. EIA assumes nonfuel use of natural gas for hydrogen production releases all carbon. SEDS estimates non-combustion shares of natural gas for manufacturing using total natural gas nonfuel use data from EIA, Form EIA-846, *Manufacturing Energy Consumption Survey* (MECS) and SEDS U.S.-level estimates of natural gas, excluding supplemental gaseous fuels, consumption (NNICBUS). For years prior to 1985 (the first year of MECS data), SEDS assumes the 1985 share. The variable for annual share of natural gas used for nonfuel manufacturing (number between 0 and 1), used in SEDS is:

NNNFSUS = natural gas excluding supplemental gaseous fuels, non-combustion share.

See the *Monthly Energy Review* (MER) Energy overview and Environment sections for more information on the data sources and methods <a href="https://www.eia.gov/totalenergy/data/monthly/">https://www.eia.gov/totalenergy/data/monthly/</a>.

# Carbon sequestration from non-combustion use

In the non-combustion (nonfuel) use of fossil fuels, some of the carbon is stored (sequestered) in the final product and not emitted. We account for carbon sequestered by sector from nonfuel use by removing it from the final sector CO2 emissions, using an annual factor.

EIA's *Monthly Energy Review* (MER) estimates national-level carbon sequestration factors for nonfuel use. SEDS assumes the state-level sequestration factors are equal to the MER's national-level factor for all years. Sequestration factors range from 0 to 1. A factor of 0 indicates that the fuel does not sequester any carbon (all is emitted), while a factor of 1 indicates that the fuel sequesters all the carbon (none is emitted). EIA's carbon sequestration factor for natural gas used to produce hydrogen is 0 and natural gas used for other industrial manufacturing is 0.44 for all years. The U.S.-level natural gas sequestration factor (number between 0 and 1) variable used in SEDS is:

NNSQSUS = natural gas, excluding supplemental gaseous fuels, nonfuel carbon sequestration factor.

See the MER Environment section for more information https://www.eia.gov/totalenergy/data/monthly/.

## Carbon dioxide (CO2) emissions

SEDS calculates natural gas, excluding supplemental gaseous fuels, carbon dioxide (CO2) emissions estimates in million metric tons (MMmt) by sector as the product of the SEDS consumption values, the carbon sequestered by non-combustion use for the industrial sector, and the annual natural gas CO2 emissions factor at <a href="https://www.eia.gov/environment/emissions/xls/CO2\_coeffs\_detailed.xls">https://www.eia.gov/environment/emissions/xls/CO2\_coeffs\_detailed.xls</a>.

Except for plant condensate and unfractionated stream (which are EIA estimates), the CO2 emissions factors for fossil fuels are from the U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks*, Tables A-19, A-31, and A-215. EIA converts metric tons of carbon to metric tons of CO2 using the approximate molar mass (44/12)—see <a href="https://www.epa.gov/ghgemissions/inventory-usgreenhouse-gas-emissions-and-sinks">https://www.epa.gov/ghgemissions/inventory-usgreenhouse-gas-emissions-and-sinks</a>.

The natural gas CO2 emissions factor used for all states and sectors in million metric tons CO2 per quadrillion Btu is:

NNTCFUS = natural gas, excluding supplemental gaseous fuels, CO2 emissions factor for all sectors.

EIA calculates state- and national-level natural gas, excluding supplemental gaseous fuels, CO2 emissions for the residential, commercial, transportation, and electric power sectors as the product of energy consumption and the CO2 factor, with unit adjustments:

NNRCE = NNRCB \* NNTCFUS / 1,000,000 NNCCE = NNCCB \* NNTCFUS / 1,000,000 NNACE = NNACB \* NNTCFUS / 1,000,000 NNEIE = NNEIB \* NNTCFUS / 1,000,000

For the industrial sector, SEDS removes the CO2 emissions sequestered from nonfuel use of natural gas manufacturing from the sector total:

NNICE = (NNICB \* NNTCFUS \* (1 - NNNFSUS \* NNSQSUS)) / 1,000,000

Total natural gas, excluding supplemental gaseous fuels, CO2 emissions from all sectors are the sum of the sectors.

NNTCE = NNRCE + NNCCE + NNICE + NNACE + NNEIE

#### Data sources

State-level energy consumption estimates from EIA's State Energy Data System (SEDS) https://www.eia.gov/state/seds/.

U.S.-level: non-combustion use shares, carbon sequestration factors, and CO2 emissions conversion factors from EIA's *Monthly Energy Review* (MER) https://www.eia.gov/totalenergy/data/monthly/.

# Section 4. Petroleum

The State Energy Data System (SEDS) estimates energy-related carbon dioxide (CO2) emissions from petroleum products using state-level primary energy consumption estimates from SEDS, as well as national-level non-combustion (nonfuel) consumption shares, carbon sequestration factors, and CO2 conversion factors from the U.S. Energy Information Administration's (EIA) *Monthly Energy Review* (MER).

The term energy-related CO2 emissions refers to emissions from primary energy consumption, released at the location where fossil fuels are combusted (burned). In SEDS, we attribute CO2 emissions for electricity generation to the state where the petroleum product is combusted, even if the electricity is later consumed in a different state. Similarly, for industrial nonfuel consumption of petroleum products, we attribute the carbon stored in products, such as plastics, to the states where the products are consumed as primary energy at production plants, regardless of where the final products are used.

# **Energy consumption**

The State Energy Data System (SEDS) estimates the amount of petroleum products consumed in thousand barrels for each individual product by sector. At the national level, SEDS assumes consumption of each petroleum product is equal to the U.S. Energy Information Administration's (EIA) U.S. "product supplied" data series as published in the EIA *Petroleum Supply Annual*. Product supplied measures the disappearance of petroleum products from primary sources, such as: refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, EIA calculates product supplied of each product as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil, minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

At the state level, no product supplied data by state or sector are available, so SEDS estimates state-level product supplied for each individual petroleum product by sector using many methods and sources. EIA collects petroleum electricity data on survey Form EIA-923, "Power Plant Operations Report," and predecessor forms. SEDS uses these data directly as estimates for electric power sector petroleum consumption and any industrial and commercial generators greater than 1 megawatt

capacity. For the other sectors, we subtract the EIA-923 data from EIA's *Petroleum Supply Annual* total U.S. "product supplied" and allocate the remainder to the residential, commercial, industrial, and transportation sectors by state using the various methods for each individual fuel described in the SEDS consumption technical notes. Lastly, we convert physical unit data in barrels into British thermal units (Btu) for each individual fuel using various conversion factors each state and sector.

See the SEDS consumption technical notes for all consumption variables, heat conversion factors, estimation methods, and data sources https://www.eia.gov/state/seds/seds-technical-notes-complete.php?sid=US.

The individual petroleum product consumption variables SEDS uses for total petroleum, excluding biofuels, CO2 emissions calculations include:

- asphalt and road oil
- · aviation gasoline
- · distillate fuel oil, excluding biofuels
- hydrocarbon gas liquids (HGL)
  - For 1960 through 1983 including:
    - liquefied petroleum gases (LPG)
    - natural gasoline/isopentane mixtures
    - plant condensate
  - unfractionated streams
  - For 1984 through 2009 including:
    - liquefied petroleum gases (LPG)
    - natural gasoline (pentanes plus)
  - For 2010 forward including:
    - normal butane
    - butylene
    - ethane
    - ethylene
    - isobutane
    - isobutylene
    - · natural gasoline (pentanes plus)
    - propane
    - propylene
- jet fuel
- kerosene

- lubricants
- · motor gasoline, excluding fuel ethanol
- other petroleum products, excluding biofuels:
  - aviation gasoline blending components
  - crude oil, including lease condensate
  - miscellaneous petroleum products
  - motor gasoline blending components
  - petrochemical feedstocks, naphtha less than 401°F
  - petrochemical feedstocks, other oils equal to or greater than 401°F
  - petrochemical feedstocks, still gas
  - special naphthas
  - still gas
  - unfinished oils
  - waxes
- · petroleum coke
- · residual fuel oil

See Appendix A Table A2 of this report for all individual petroleum product consumption variables <a href="https://www.eia.gov/state/seds/sep\_fuel/notes/CO2">https://www.eia.gov/state/seds/sep\_fuel/notes/CO2</a> a.pdf.

SEDS removes renewable energy in the form of biofuels blended with petroleum products consumption to estimate pure petroleum fossil fuels emissions, including fuel ethanol, biodiesel, renewable diesel, and other biofuels. The underlying assumption is that biofuels, which are a renewable energy source of biomass, CO2 emissions are carbon neutral, meaning they are fully offset by land sinks in a sustainable biomass cycle and the natural processes by which trees, crops, and other biomass remove CO2 from the atmosphere to grow. EIA does not separately estimate other biofuels consumption by individual fuel (renewable jet fuel, renewable propane, renewable naphtha, etc.), so other biofuels product supplied is removed from EIA CO2 emissions data but not other unknown blended consumption. CO2 emissions data may underestimate actual CO2 emissions to the extent that actual biomass energy consumption may not be carbon neutral.

# Non-combustion (nonfuel) consumption

Most fossil fuels consumed in the United States are combusted (burned) to produce heat and power. However, some are used directly for non-combustion (nonfuel) uses such as construction materials, chemical feedstocks, lubricants, solvents, and waxes. The U.S. Energy Information Administration (EIA) assumes most non-combustion use

of petroleum products occurs in the industrial sector for chemicals and plastics. EIA also assumes all lubricants consumption in the industrial and transportation sectors are nonfuel use.

EIA's *Monthly Energy Review* (MER) estimates annual U.S.-level non-combustion use shares of individual petroleum products for 1973 forward. Each share is a number between 0 and 1. A share of 0 means that the fuel is always burned when consumed, and a share of 1 means that none of the fuel is burned when consumed. For years prior to 1973, SEDS assumes the 1973 shares. All other petroleum products not listed below have a nonfuel share of 0. The U.S.-level petroleum non-combustion use share (number between 0 and 1) variables used in SEDS are:

ARNFSUS = asphalt and road oil non-combustion share; BUNFSUS = normal butane/butylene non-combustion share;

DMNFSUS = distillate fuel oil, excluding biofuels, non-

combustion share;

ETNFSUS = ethane/ethylene non-combustion share;

FNNFSUS = naphthas for petrochemical feedstock use non-

combustion share;

FONFSUS = other oils for petrochemical feedstock use non-

combustion share;

FSNFSUS = petrochemical feedstocks, still gas, non-combustion

share (through 1985);

IBNFSUS = isobutane/isobutylene non-combustion share;

LUNFSUS = lubricants non-combustion share;

MSNFSUS = miscellaneous petroleum products non-combustion

share;

NANFSUS = natural gasoline/isopentane non-combustion share

(through 1983);

PCNFSUS = petroleum coke non-combustion share;

PLNFSUS = plant condensate non-combustion share (through

1983)

PPNFSUS = natural gasoline (pentanes plus) non-combustion

share:

PQNFSUS = propane non-combustion share; PYNFSUS = propylene non-combustion share;

RFNFSUS = residual fuel oil non-combustion share;

SGNFSUS = still gas and still gas for petrochemical feedstock

non-combustion share;

SNNFSUS = special naphthas non-combustion share;

UONFSUS = unfinished oils non-combustion share;

USNFSUS = unfractionated streams non-combustion share

(through 1983); and

WXNFSUS = waxes non-combustion share.

See the MER Energy overview section for the exact methods and sources for each fuel https://www.eia.gov/totalenergy/data/monthly/.

# **Carbon sequestration from non-combustion** use

In the non-combustion use of fossil fuels, some of the carbon is stored (sequestered) in the final product, and we subtract this from the fuel consumption values. SEDS calculates the amount of carbon sequestered as the product of the non-combustion use of fossil fuels and the carbon sequestration factor. EIA's *Monthly Energy Review* (MER) estimates national-level sequestration factors. SEDS assumes the state-level sequestration factors are equal to the MER's national-level factor for all years.

Sequestration factors range from 0 to 1. A factor of 0 indicates that the fuel does not sequester any carbon (all is emitted), while a factor of 1 indicates that the fuel sequesters all of the carbon (none is emitted). All other petroleum products not listed below have a nonfuel carbon sequestration factor of 0. See the MER Environment section for more information on the data sources and methods <a href="https://www.eia.gov/totalenergy/data/monthly/">https://www.eia.gov/totalenergy/data/monthly/</a>. See Appendix Table A1 of this report for the exact carbon sequestration factors <a href="https://www.eia.gov/state/seds/sep\_fuel/notes/CO2\_a.pdf">https://www.eia.gov/state/seds/sep\_fuel/notes/CO2\_a.pdf</a>.

The U.S.-level petroleum nonfuel sequestration factor (number between 0 and 1) variables used in SEDS are:

and 1) variables used in SEDS are:					
ARSQSUS	=	asphalt and road oil nonfuel carbon sequestration factor;			
BQSQSUS	=	normal butane nonfuel carbon sequestration factor;			
BYSQSUS	=	butylene nonfuel carbon sequestration factor;			
DMSQSUS	=	distillate fuel oil, excluding biofuels, nonfuel carbon			
		sequestration factor;			
EQSQSUS	=	ethane nonfuel carbon sequestration factor;			
<b>EYSQSUS</b>	=	ethylene nonfuel carbon sequestration factor;			
<b>FNSQSUS</b>	=	naphthas used for petrochemical feedstocks nonfuel			
		carbon sequestration factor;			
FOSQSUS	=	other oils used for petrochemical feedstocks nonfuel			
		carbon sequestration factor;			
<b>FSSQSUS</b>	=	still gas for petrochemical feedstock use			
		sequestration factor;			
IQSQSUS	=	isobutane nonfuel carbon sequestration factor;			
IYSQSUS	=	isobutylene nonfuel carbon sequestration factor;			
LUSQSUS	=	lubricants nonfuel carbon sequestration factor;			

=	miscellaneous petroleum products nonfuel carbon
	sequestration factor;
=	natural gasoline/isopentane nonfuel carbon
	sequestration factor (through 1983);
=	petroleum coke used for other manufacturing nonfuel
	carbon sequestration factor;
=	plant condensate nonfuel carbon sequestration
	factor (through 1983);
=	natural gasoline (pentanes plus) nonfuel carbon
	sequestration factor;
=	propane nonfuel carbon sequestration factor;
=	propylene nonfuel carbon sequestration factor;
=	residual fuel oil nonfuel carbon sequestration factor;
=	still gas nonfuel carbon sequestration factor;
=	special naphthas nonfuel carbon sequestration
	factor;
=	unfinished oils nonfuel carbon sequestration factor;
=	unfractionated streams carbon sequestration factor

# Carbon dioxide (CO2) emissions

(through 1983); and

WXSQSUS = waxes nonfuel carbon sequestration factor.

SEDS calculates carbon dioxide (CO2) emissions estimates for each petroleum product in million metric tons (MMmt) as the product of the SEDS consumption values, the carbon sequestered by non-combustion use for the industrial and transportation sectors, and the respective annual CO2 emissions factors by sector at <a href="https://www.eia.gov/environment/emissions/xls/CO2">https://www.eia.gov/environment/emissions/xls/CO2</a> coeffs detailed.xls.

Except for plant condensate and unfractionated stream (which are EIA estimates), the CO2 emissions factors for fossil fuels are from the U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks*, Tables A-19, A-31, and A-215. EIA converts metric tons of carbon to metric tons of CO2 using the approximate molar mass (44/12)—see <a href="https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks">https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks</a>.

See Appendix A Table A1 of this report for all individual petroleum product CO2 emissions variables and formulas https://www.eia.gov/state/seds/sep\_fuel/notes/CO2\_a.pdf.

EIA only publishes total aggregate petroleum CO2 emissions data at the state level, and not individual petroleum product CO2 emissions data.

The aggregate petroleum CO2 emissions variables in million metric tons (MMmt) used in SEDS are:

PMACE	= all petroleum products, excluding biofu	uels, CO2			
	emissions for the transportation sector;				
PMCCE	= all petroleum products, excluding biofu	uels, CO2			
emissions for the commercial sector;					
PMEIE	= all petroleum products, excluding biofu	uels, CO2			

emissions for the electric power sector;

PMICE = all petroleum products, excluding biofuels, CO2

emissions for the industrial sector;
PMRCE = all petroleum products, excluding biofuels, CO2

emissions for the residential sector; and
PMTCE = all petroleum products, excluding biofuels, total CO2 emissions.

SEDS calculates aggregate state- and national-level petroleum products, excluding biofuels, CO2 emissions for the residential (PMRCE), commercial (PMCCE), and electric power (PMEIE) sectors as the sum of each petroleum products' CO2 emissions within each sector:

PMRCE = DMRCE + KSRCE + HLRCE PMCCE = DMCCE + KSCCE + HLCCE + MMCCE + PCCCE + RFCCE PMEIE = DMEIE + JFEIE + PCEIE + RFEIE

For the industrial (PMICE) and transportation (PMACE) sectors, SEDS sums the CO2 emissions from each individual product in those sectors. When applicable, each individual product removes the CO2 emissions sequestered from nonfuel use:

Total petroleum product CO2 emissions from all sectors (PMTCE) is the sum of all petroleum products total (all sectors) emissions:

Data sources

State-level energy consumption estimates from EIA's State Energy Data System (SEDS) https://www.eia.gov/state/seds/.

U.S.-level: non-combustion use shares, carbon sequestration factors, and CO2 emissions conversion factors from EIA's *Monthly Energy Review* (MER) https://www.eia.gov/totalenergy/data/monthly/.

# Section 5. Total energy

The preceding sections of this document describe how the U.S. Energy Information Administration (EIA) estimates state-level CO2 emissions from energy consumption by source in the State Energy Data System (SEDS). This section describes how SEDS sums all energy sources in million metric tons (MMmt) of CO2 to calculate total fossil fuel and total energy CO2 emissions estimates.

# Total energy CO2 emissions by fuel

SEDS calculates total fossil fuels CO2 emissions in million metric tons (FFTCE) for each state and the United States as ("ZZ" in the variable name is used to represent the two-letter state code):

```
FFTCEZZ = CLTCEZZ + NNTCEZZ + PMTCEZZ
FFTCEUS = CLTCEUS + CCNIEUS + NNTCEUS + PMTCEUS
```

Total energy-related CO2 emissions in million metric tons (TETCE) for each state and the United States are equal to total fossil fuels CO2 emissions:

```
TETCE = FFTCE
```

# Total energy CO2 emissions by sector

SEDS calculates total CO2 emissions of fossil fuels in million metric tons for each sector as the sum of all the fuels within the sector.

SEDS calculates residential sector total fossil fuel CO2 emissions in million metric tons (FFRCE) for each state and the United States as the sum of total CO2 emissions from each fossil fuel within the sector:

```
FFRCE = CLRCE + NNRCE + PMRCE
```

SEDS calculates commercial sector total fossil fuel CO2 emissions in million metric tons (FFCCE) for each state and the United States as the sum of total CO2 emissions from each fossil fuel within the sector:

```
FFCCE = CLCCE + NNCCE + PMCCE
```

SEDS calculates industrial sector total fossil fuel CO2 emissions in

million metric tons (FFICE) for each state and the United States as the sum of total CO2 emissions from each fossil fuel within the sector using these formulas ("ZZ" in the variable name is used to represent the two-letter state code):

```
FFICEZZ = CLICEZZ + NNICEZZ + PMICEZZ
FFICEUS = CLICEUS + CCNIEUS + NNICEUS + PMICEUS
```

SEDS calculates transportation sector total fossil fuel CO2 emissions in million metric tons (FFACE) for each state and the United States as the sum of total CO2 emissions from each fossil fuel within the sector:

```
FFACE = CLACE + NNACE + PMACE
```

SEDS calculates electric power sector total fossil fuel CO2 emissions in million metric tons (FFEIE) for each state and the United States as the sum of total CO2 emissions from each fossil fuel within the sector:

```
FFEIE = CLEIE + NNEIE + PMEIE
```

For each sector, total energy-related CO2 emissions are equal to fossil fuel CO2 emissions:

```
TERCE = FFRCE
TECCE = FFCCE
TEICE = FFICE
TEACE = FFACE
TEEIE = FFEIE
```

# Per capita energy-related CO2 emissions

We can divide the total CO2 emissions for a state by the state's population to examine the CO2 emissions on a per capita (per person) basis. In addition to population density, there are other factors that affect a state's per capita CO2 emissions, including: weather/climate, structure of the state economy, energy sources, building standards, and state policies to reduce emissions.

SEDS calculates per capita energy-related CO2 emissions in metric tons (CDTPR) for each state and the United States using the same formula:

CDTPR = TETCE / (TPOPP / 1000)

See the SEDS energy indicators technical notes for more information on residential population at https://www.eia.gov/state/seds/seds-technicalnotes-complete.php.

# Carbon intensity of energy supply

The carbon intensity of energy supply (total CO2 emissions per Btu of total energy consumption) reflects the energy fuel mix within a state. The states with more carbon-intensive energy consumption tend to be the states with high per capita emissions. The states with less carbonintensive energy supply tend to be those states with relatively more carbon neutral electricity generation from sources like nuclear, wind, hydropower, and solar.

SEDS calculates carbon intensity of energy supply (CDTCR) in metric tons of CO2 emissions per billion Btu of total energy consumption (TETCB) less net interstate flow of electricity (ELISB), with unit conversion, for each state and the United States using the formula:

CDTCR = TETCE / ((TETCB - ELISB) / 1,000,000)

See the SEDS consumption technical notes for total energy consumption https://www.eia.gov/state/seds/seds-technical-notesestimates at complete.php?sid=US.

# Carbon intensity of the economy

Carbon intensity of the economy measures total CO2 emissions against the total sum output of the entire economy in terms of gross domestic product (GDP). States with the highest carbon intensity of their economies, as measured in metric tons of CO2 per real chained 2017 dollar of state GDP, are also the states with the highest values of energy intensity and carbon intensity of that energy supply. The states with the lowest carbon intensity of economic activity are also states that appear on the lower end of both energy intensity and the carbon intensity of that energy supply. We use inflation-adjusted (real) GDP data to compare across time series.

SEDS calculates carbon intensity of the economy in metric tons of CO2 per million chained (2017) dollars of state GDP (CDTCR) for each state and the United States using the formula:

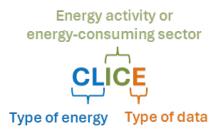
**CDEGR** = TETCE / (GDPRX / 1,000,000)

See the SEDS energy indicators technical notes for more information on GDP data at https://www.eia.gov/state/seds/seds-technical-notescomplete.php.

# Appendix A. Mnemonic series names (MSN)

This appendix contains an alphabetical listing of the State Energy Data System (SEDS) energy-related CO2 emissions variables, called MSNs. For each variable, SEDS provides: a brief description; unit of measure; and the formulas used to create the variable. Variables that are entered directly from other sources, but not calculated by SEDS, are independent variables. Formulas for the state calculations have "ZZ" following the variable name, where "ZZ" represents the two-letter state code. The formulas for the United States have "US" following the variable name. If the formula for the states and the United States are the same, only one formula is shown.

The SEDS MSN variables have five-character names that generally consist of the following components:



See Section 1 of the SEDS technical notes for explanation of the fivecharacter MSN code descriptions.

See Table A1 for all CO2 emissions, nonfuel, sequestration, and conversion variables.

Energy-related CO2 emissions estimates require SEDS consumption variables. See Table A2 for all SEDS consumption variables used directly in CO2 emissions equations. See the SEDS consumption technical notes for all of the underlying variables used to estimate those variables.

Table A1. CO2 emissions variables

MSN	Description	Unit	Formula
ABICE	Aviation gasoline blending components industrial sector CO2 emissions.	Million metric tons CO2	ABICE = (ABICB * ABTCFUS) / 1,000,000
ABTCE	Aviation gasoline blending components total CO2 emissions.	Million metric tons CO2	ABTCE = ABICE
ABTCFUS	Aviation gasoline blending components CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	ABTCFUS is independent.
ARICE	Asphalt and road oil industrial sector CO2 emissions.	Million metric tons CO2	ARICE = (ARICB * ARTCFUS * (1 - ARNFSUS * ARSQSUS)) / 1,000,000
ARNFSUS	Asphalt and road oil non-combustion share for the United States.	Share (number between 0 and 1)	ARNFSUS = 1
ARSQSUS	Asphalt and road oil nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	ARSQSUS = 1
ARTCE	Asphalt and road oil total CO2 emissions.	Million metric tons CO2	ARTCE = ARICE
ARTCFUS	Asphalt and road oil CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	ARTCFUS is independent.
AVACE	Aviation gasoline transportation sector CO2 emissions.	Million metric tons CO2	AVACE = AVACB * AVTCFUS / 1,000,000
AVTCE	Aviation gasoline total CO2 emissions.	Million metric tons CO2	AVTCE = AVACE
AVTCFUS	Aviation gasoline CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	AVTCFUS is independent.
BQICE	Normal butane industrial sector CO2 emissions.	Million metric tons CO2	BQICE = (BQICB * BQTCFUS * (1 - BUNFSUS * BQSQSUS)) / 1,000,000
BQSQSUS	Normal butane nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	BQSQSUS = 0.8
BQTCE	Normal butane total CO2 emissions.	Million metric tons CO2	BQTCE = BQICE
BQTCFUS	Normal butane CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	BQTCFUS is independent.
BUNFSUS	Normal butane/butylene non-combustion share for the United States.	Share (number between 0 and 1)	BUNFSUS is independent.
BYICE	Butylene industrial sector CO2 emissions.	Million metric tons CO2	BYICE = (BYICB * BYTCFUS * (1 - BUNFSUS * BYSQSUS)) / 1,000,000

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
BYSQSUS	Butylene nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	BYSQSUS = 0.8
BYTCE	Butylene total CO2 emissions.	Million metric tons CO2	BYTCE = BYICE
BYTCFUS	Butylene CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	BYTCFUS is independent.
CCNIEUS	Coal coke net imports CO2 emissions into the United States.	Million metric tons CO2	CCNIEUS = CCNIBUS * CCTCFUS / 1,000,000
CCTCFUS	Coal coke net imports CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	CCTCFUS is independent.
CDEGR	Carbon intensity of the economy (CO2 emissions divided by real GDP).	Metric tons CO2 per million chained (2017) dollars	CDEGR = TETCE / (GDPRX / 1,000,000)
CDTCR	Carbon intensity of energy supply (CO2 emissions divided by total energy consumption less interstate flow of electricity).	Metric tons CO2 per billion Btu	CDTCR = TETCE / ((TETCB - ELISB) / 1,000,000)
CDTPR	Per capita energy-related CO2 emissions.	Metric tons CO2	CDTPR = TETCE / (TPOPP / 1,000)
CLACE	Coal CO2 emissions for the transportation sector (through 1977).	Million metric tons CO2	CLACE = CLACB * CLOCFUS / 1,000,000
CLCCE	Coal CO2 emissions for the commercial sector.	Million metric tons CO2	CLCCE = CLCCB * CLHCFUS / 1,000,000
CLEIE	Coal CO2 emissions for the electric power sector.	Million metric tons CO2	CLEIE = CLEIB * CLEIFUS / 1,000,000
CLEIFUS	Coal CO2 emissions factor for the electric power sector for the United States.	Million metric tons CO2 per quadrillion Btu	CLEIFUS is independent.
CLHCFUS	Coal CO2 emissions factor for the residential and commercial sectors for the United States.	Million metric tons CO2 per quadrillion Btu	CLHCFUS is independent.
CLICE	Coal CO2 emissions for the industrial sector.	Million metric tons CO2	CLICEZZ = CLKCEZZ + CLOCEZZ CLICEUS = CLKCEUS + CLOCEUS + CCNIEUS
CLKCE	Coal consumed at coke plants (coking coal) CO2 emissions for the industrial sector.	Million metric tons CO2	CLKCE = (CLKCB * CLKCFUS * (1 - CLNFSUS * CLSQSUS)) / 1,000,000
CLKCFUS	Coal coking plants CO2 emissions factor for the industrial sector for the United States.	Million metric tons CO2 per quadrillion Btu	CLKCFUS is independent.

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
CLNFSUS	Coal consumed at coke plants (coking coal) non-combustion share for the United States.	Share (number between 0 and 1)	CLNFSUS is independent.
CLOCE	Coal other than coke plants CO2 emissions for the industrial sector.	Million metric tons CO2	CLOCE = CLOCB * CLOCFUS / 1,000,000
CLOCFUS	Coal other than coke plants CO2 emissions factor for the industrial and transportation sectors for the United States.	Million metric tons CO2 per quadrillion Btu	CLOCFUS is independent.
CLRCE	Coal CO2 emissions for the residential sector (through 2008).	Million metric tons CO2	CLRCE = CLRCB * CLHCFUS / 1,000,000
CLSQSUS	Coal consumed at coke plants (coking coal) nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	CLSQSUS = 0.75
CLTCE	Coal total CO2 emissions.	Million metric tons CO2	CLTCEZZ = CLRCEZZ + CLCCEZZ + CLICEZZ + CLACEZZ + CLEIEZZ CLTCEUS = CLRCEUS + CLCCEUS + CLICEUS + CLACEUS + CLEIEUS
COICE	Crude oil industrial sector CO2 emissions.	Million metric tons CO2	COICE = COICB * COTCFUS / 1,000,000
COTCE	Crude oil total CO2 emissions.	Million metric tons CO2	COTCE = COICE
COTCFUS	Crude oil CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	COTCFUS is independent.
DMACE	Distillate fuel oil, excluding biofuels, transportation sector CO2 emissions.	Million metric tons CO2	DMACE = DMACB * DMTCFUS / 1,000,000
DMCCE	Distillate fuel oil, excluding biofuels, commercial sector CO2 emissions.	Million metric tons CO2	DMCCE = DMCCB * DMTCFUS / 1,000,000
DMEIE	Distillate fuel oil, excluding biofuels, electric power sector CO2 emissions.	Million metric tons CO2	DMEIE = DMEIB * DMTCFUS / 1,000,000
DMICE	Distillate fuel oil, excluding biofuels, industrial sector CO2 emissions.	Million metric tons CO2	DMICE = (DMICB * DMTCFUS * (1 - DMNFSUS * DMSQSUS)) / 1,000,000
DMNFSUS	Distillate fuel oil, excluding biofuels, non-combustion share for the United States.	Share (number between 0 and 1)	DMNFSUS is independent.
DMRCE	Distillate fuel oil, excluding biofuels, residential sector CO2 emissions.	Million metric tons CO2	DMRCE = DMRCB * DMTCFUS / 1,000,000

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
DMSQSUS	Distillate fuel oil, excluding biofuels, nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	DMSQSUS = 0.5
DMTCE	Distillate fuel oil, excluding biofuels, total CO2 emissions.	Million metric tons CO2	DMTCE = DMACE + DMCCE + DMEIE + DMICE + DMRCE
DMTCFUS	Distillate fuel oil, excluding biofuels, CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	DMTCFUS is independent.
EQICE	Ethane industrial sector CO2 emissions.	Million metric tons CO2	EQICE = (EQICB * EQTCFUS * (1 - ETNFSUS * EQSQSUS)) / 1,000,000
EQSQSUS	Ethane nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	EQSQSUS = 0.8
EQTCE	Ethane total CO2 emissions.	Million metric tons CO2	EQTCE = EQICE
EQTCFUS	Ethane CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	EQTCFUS is independent.
ETNFSUS	Ethane/ethylene non-combustion share for the United States.	Share (number between 0 and 1)	ETNFSUS is independent.
EYICE	Ethylene industrial sector CO2 emissions.	Million metric tons CO2	EYICE = (EYICB * EYTCFUS * (1 - ETNFSUS * EYSQSUS)) / 1,000,000
EYSQSUS	Ethylene nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	EYSQSUS = 0.8
EYTCE	Ethylene total CO2 emissions.	Million metric tons CO2	EYTCE = EYICE
EYTCFUS	Ethylene CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	EYTCFUS is independent.
FFACE	Fossil fuel CO2 emissions for the transportation sector.	Million metric tons CO2	FFACE = CLACE + NNACE + PMACE
FFCCE	Fossil fuel CO2 emissions for the commercial sector.	Million metric tons CO2	FFCCE = CLCCE + NNCCE + PMCCE
FFEIE	Fossil fuel CO2 emissions for the electric power sector.	Million metric tons CO2	FFEIE = CLEIE + NNEIE + PMEIE
FFICE	Fossil fuel CO2 emissions for the industrial sector.	Million metric tons CO2	FFICEZZ = CLICEZZ + NNICEZZ + PMICEZZ FFICEUS = CLICEUS + CCNIEUS + NNICEUS + PMICEUS

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
FFRCE	Fossil fuel CO2 emissions for the residential sector.	Million metric tons CO2	FFRCE = CLRCE + NNRCE + PMRCE
FFTCE	Fossil fuel total CO2 emissions.	Million metric tons CO2	FFTCEZZ= CLTCEZZ + NNTCEZZ + PMTCEZZ FFTCEUS = CLTCEUS + CCNIEUS + NNTCEUS + PMTCEUS
FNICE	Naphthas for petrochemical feedstock use industrial sector CO2 emissions.	Million metric tons CO2	FNICE = (FNICB * FNTCFUS * (1 - FNNFSUS * FNSQSUS)) / 1,000,000
FNNFSUS	Naphthas for petrochemical feedstock use non-combustion share for the United States.	Share (number between 0 and 1)	FNNFSUS = 1
FNSQSUS	Naphthas used for petrochemical feedstocks nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	FNSQSUS = 0.75
FNTCE	Naphthas for petrochemical feedstock use total CO2 emissions.	Million metric tons CO2	FNTCE = FNICE
FNTCFUS	Naphthas for petrochemical feedstock use CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	FNTCFUS is independent.
FOICE	Other oils for petrochemical feedstock use industrial sector CO2 emissions.	Million metric tons CO2	FOICE = (FOICB * FOTCFUS * (1 - FONFSUS * FOSQSUS)) / 1,000,000
FONFSUS	Other oils for petrochemical feedstock use non-combustion share for the United States.	Share (number between 0 and 1)	FONFSUS = 1
FOSQSUS	Other oils used for petrochemical feedstocks nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	FOSQSUS = 0.5
FOTCE	Other oils for petrochemical feedstock use total CO2 emissions.	Million metric tons CO2	FOTCE = FOICE
FOTCFUS	Other oils for petrochemical feedstock use CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	FOTCFUS is independent.
FSICE	Still gas for petrochemical feedstock use industrial sector CO2 emissions (through 1985).	Million metric tons CO2	FSICE = (FSICB * SGTCFUS * (1 - FSNFSUS * FSSQSUS)) / 1,000,000
FSNFSUS	Petrochemical feedstocks, still gas, non- combustion share for the United States (through 1985).	Share (number between 0 and 1)	FSNFSUS = SGNFSUS

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
FSSQSUS	Still gas for petrochemical feedstock use sequestration factor for the United States (through 1985).	Share (number between 0 and 1)	FSSQSUS = 0.8
FSTCE	Still gas for petrochemical feedstock use total CO2 emissions (through 1985).	Million metric tons CO2	FSTCE = FSICE
GDPRX	Real gross domestic product (GDP).	Million chained (2017) dollars	GDPRXZZ is independent. GDPRXUS is independent.
HLACE	Hydrocarbon gas liquids transportation sector CO2 emissions.	Million metric tons CO2	Before 2010: HLACE = LGACE 2010 forward: HLACE = PQACE
HLCCE	Hydrocarbon gas liquids commercial sector CO2 emissions.	Million metric tons CO2	Before 2010: HLCCE = LGCCE 2010 forward: HLCCE = PQCCE
HLICE	Hydrocarbon gas liquids industrial sector CO2 emissions.	Million metric tons CO2	Before 1984: HLICE = LGICE + NAICE + PLICE + USICE 1984 through 2009: HLICE = LGICE + PPICE 2010 forward: HLICE = BQICE + BYICE + EQICE + EYICE + IQICE + IYICE + PPICE + PQICE + PYICE
HLRCE	Hydrocarbon gas liquids residential sector CO2 emissions.	Million metric tons CO2	Before 2010: HLRCE = LGRCE 2010 forward: HLRCE = PQRCE
HLTCE	Hydrocarbon gas liquids total CO2 emissions.	Million metric tons CO2	HLTCE = HLACE + HLCCE + HLICE + HLRCE
IBNFSUS	Isobutane/isobutylene non-combustion share for the United States.	Share (number between 0 and 1)	IBNFSUS is independent.
IQICE	Isobutane industrial sector CO2 emissions.	Million metric tons CO2	IQICE = (IQICB * IQTCFUS * (1 - IBNFSUS * IQSQSUS)) / 1,000,000
IQSQSUS	Isobutane nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	IQSQSUS = 0.8
IQTCE	Isobutane total CO2 emissions.	Million metric tons CO2	IQTCE = IQICE

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
IQTCFUS	Isobutane CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	IQTCFUS is independent.
IYICE	Isobutylene industrial sector CO2 emissions.	Million metric tons CO2	IYICE = (IYICB * IYTCFUS * (1 - IBNFSUS * IYSQSUS)) / 1,000,000
IYSQSUS	Isobutylene nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	IYSQSUS = 0.8
IYTCE	Isobutylene total CO2 emissions.	Million metric tons CO2	IYTCE = IYICE
IYTCFUS	Isobutylene CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	IYTCFUS is independent.
JFACE	Jet fuel transportation sector CO2 emissions.	Million metric tons CO2	JFACE = JFACB * JFTCFUS / 1,000,000
JFEIE	Jet fuel electric power sector CO2 emissions (through 1982).	Million metric tons CO2	JFEIE = JFEUB * JFTCFUS / 1,000,000
JFTCE	Jet fuel total CO2 emissions.	Million metric tons CO2	JFTCE =JFACE + JFEIE
JFTCFUS	Jet fuel CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	JFTCFUS is independent.
KSCCE	Kerosene commercial sector CO2 emissions.	Million metric tons CO2	KSCCE = KSCCB * KSTCFUS / 1,000,000
KSICE	Kerosene industrial sector CO2 emissions.	Million metric tons CO2	KSICE = KSICB * KSTCFUS / 1,000,000
KSRCE	Kerosene residential sector CO2 emissions.	Million metric tons CO2	KSRCE = KSRCB * KSTCFUS / 1,000,000
KSTCE	Kerosene total CO2 emissions.	Million metric tons CO2	KSTCE = KSCCE + KSICE + KSRCE
KSTCFUS	Kerosene CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	KSTCFUS is independent.
LGACE	LPG CO2 emissions in the transportation sector (through 2009).	Million metric tons CO2	LGACE = LGACB * PQTCFUS / 1,000,000
LGCCE	LPG CO2 emissions in the commercial sector (through 2009).	Million metric tons CO2	LGCCE = LGCCB * PQTCFUS / 1,000,000
LGICE	LPG CO2 emissions in the industrial sector (through 2009).	Million metric tons CO2	LGICEZZ = (LGICBZZ / LGICBUS) * LGICEUS LGICEUS is independent.
LGRCE	LPG CO2 emissions in the residential sector (through 2009).	Million metric tons CO2	LGRCE = LGRCB * PQTCFUS / 1,000,000
LGTCE	LPG total CO2 emissions (through 2009).	Million metric tons CO2	LGTCE = LGACE + LGCCE + LGICE + LGRCE

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
LUACE	Lubricants transportation sector CO2 emissions.	Million metric tons CO2	LUACE = (LUACB * LUTCFUS * (1 - LUNFSUS * LUSQSUS)) / 1,000,000
LUICE	Lubricants industrial sector CO2 emissions.	Million metric tons CO2	LUICE = (LUICB * LUTCFUS * (1 - LUNFSUS * LUSQSUS)) / 1,000,000
LUNFSUS	Lubricants non-combustion share for the United States.	Share (number between 0 and 1)	LUNFSUS = 1
LUSQSUS	Lubricants nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	LUSQSUS = 0.5
LUTCE	Lubricants total CO2 emissions.	Million metric tons CO2	LUTCE = LUACE + LUICE
LUTCFUS	Lubricants CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	LUTCFUS is independent.
MBICE	Motor gasoline blending components industrial sector CO2 emissions.	Million metric tons CO2	MBICE = MBICB * MBTCFUS / 1,000,000
MBTCE	Motor gasoline blending components total CO2 emissions.	Million metric tons CO2	MBTCE = MBICE
MBTCFUS	Motor gasoline blending components CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	MBTCFUS is independent.
MMACE	Motor gasoline, excluding ethanol, transportation sector CO2 emissions.	Million metric tons CO2	MMACE = MMACB * MMTCFUS / 1,000,000
MMCCE	Motor gasoline, excluding ethanol, commercial sector CO2 emissions.	Million metric tons CO2	MMCCE = MMCCB * MMTCFUS / 1,000,000
MMICE	Motor gasoline, excluding ethanol, industrial sector CO2 emissions.	Million metric tons CO2	MMICE = MMICB * MMTCFUS / 1,000,000
MMTCE	Motor gasoline, excluding ethanol, total CO2 emissions.	Million metric tons CO2	MMTCE = MMACE + MMCCE + MMICE
MMTCFUS	Motor gasoline, excluding fuel ethanol, CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	MMTCFUS is independent.
MSICE	Miscellaneous petroleum products industrial sector CO2 emissions.	Million metric tons CO2	MSICE = (MSICB * MSTCFUS * (1 - MSNFSUS * MSSQSUS)) / 1,000,000
MSNFSUS	Miscellaneous petroleum products non- combustion share for the United States.	Share (number between 0 and 1)	MSNFSUS = 1

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
MSSQSUS	Miscellaneous petroleum products nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	MSSQSUS = 1
MSTCE	Miscellaneous petroleum products total CO2 emissions.	Million metric tons CO2	MSTCE = MSICE
MSTCFUS	Miscellaneous petroleum products CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	MSTCFUS is independent.
NAICE	Natural gasoline/isopentane industrial sector CO2 emissions (through 1983).	Million metric tons CO2	NAICE = (NAICB * NATCFUS * (1 - NANFSUS * NASQFUS)) / 1,000,000
NANFSUS	Natural gasoline/isopentane non-combustion share for the United States (through 1983).	Share (number between 0 and 1)	NANFSUS = PPNFSUS
NASQSUS	Natural gasoline/isopentane nonfuel carbon sequestration factor for the United States (through 1983).	Share (number between 0 and 1)	NASQSUS = PPSQSUS
NATCE	Natural gasoline/isopentane total CO2 emissions (through 1983).	Million metric tons CO2	NATCE = NAICE
NATCFUS	Natural gasoline/isopentane CO2 emissions factor for the United States (through 1983).	Million metric tons CO2 per quadrillion Btu	NATCFUS = PPTCFUS
NNACE	Natural gas, excluding supplemental gaseous fuels, CO2 emissions for the transportation sector.	Million metric tons CO2	NNACE = NNACB * NNTCFUS / 1,000,000
NNCCE	Natural gas, excluding supplemental gaseous fuels, CO2 emissions for the commercial sector.	Million metric tons CO2	NNCCE = NNCCB * NNTCFUS / 1,000,000
NNEIE	Natural gas, excluding supplemental gaseous fuels, CO2 emissions for the electric power sector.	Million metric tons CO2	NNEIE = NNEIB * NNTCFUS / 1,000,000
NNICE	Natural gas, excluding supplemental gaseous fuels, CO2 emissions for the industrial sector.	Million metric tons CO2	NNICE = (NNICB * NNTCFUS * (1 - NNNFSUS * NNSQSUS)) / 1,000,000
NNNFSUS	Natural gas, excluding supplemental gaseous fuels, non-combustion share for the United States.	Share (number between 0 and 1)	NNNFSUS is independent.
NNRCE	Natural gas, excluding supplemental gaseous fuels, CO2 emissions for the residential sector.	Million metric tons CO2	NNRCE = NNRCB * NNTCFUS / 1,000,000

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
NNSQSUS	Natural gas, excluding supplemental gaseous fuels, carbon sequestration factor for the United States.	Share (number between 0 and 1)	NNSQSUS = 0.44
NNTCE	Natural gas, excluding supplemental gaseous fuels, total CO2 emissions.	Million metric tons CO2	NNTCE = NNRCE + NNCCE + NNICE + NNACE + NNEIE
NNTCFUS	Natural gas, excluding supplemental gaseous fuels, CO2 emissions factor for all sectors for the United States.	Million metric tons CO2 per quadrillion Btu	NNTCFUS is independent.
OMICE	Other petroleum products, excluding biofuels, industrial sector CO2 emissions.	Million metric tons CO2	OMICE = ABICE + COICE + FNICE + FOICE + FSICE + MBICE + MSICE + SGICE + SNICE + UOICE + WXICE
OMTCE	Other petroleum products, excluding biofuels, CO2 emissions.	Million metric tons CO2	OMTCE = OMICE
PCCCE	Petroleum coke commercial sector CO2 emissions.	Million metric tons CO2	PCCCE = PCCCB * PCTCFUS / 1,000,000
PCEIE	Petroleum coke electric power sector CO2 emissions.	Million metric tons CO2	PCEIE = PCEIB * PCTCFUS / 1,000,000
PCICE	Petroleum coke industrial sector CO2 emissions.	Million metric tons CO2	PCICE = (PCICB * PCTCFUS * (1 - PCNFSUS * PCSQSUS)) / 1,000,000
PCNFSUS	Petroleum coke non-combustion share for the United States.	Share (number between 0 and 1)	PCNFSUS is independent.
PCSQSUS	Petroleum coke used for other manufacturing nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	PCSQSUS = 0.5
PCTCE	Petroleum coke total CO2 emissions.	Million metric tons CO2	PCTCE = PCCCE + PCEIE + PCICE
PCTCFUS	Petroleum coke CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	PCTCFUS is independent.
PLICE	Plant condensate industrial sector CO2 emissions (through 1983).	Million metric tons CO2	PLICE = (PLICB * PLTCFUS * (1 - PLNFSUS * PLSQSUS)) / 1,000,000
PLNFSUS	Plant condensate non-combustion share for the United States (through 1983).	Share (number between 0 and 1)	PLNFSUS = PPNFSUS

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
PLSQSUS	Petroleum coke industrial sector CO2 emissions for the United States (through 1983).	Share (number between 0 and 1)	PLSQSUS = PPSQSUS
PLTCE	Plant condensate total CO2 emissions (through 1983).	Million metric tons CO2	PLTCE = PLICE
PLTCFUS	Plant condensate CO2 emissions factor for the United States (through 1983).	Million metric tons CO2 per quadrillion Btu	PLTCFUS is independent.
PMACE	All petroleum products, excluding biofuels, CO2 emissions for the transportation sector.	Million metric tons CO2	PMACE = AVACE + DMACE + JFACE + HLACE + LUACE + MMACE + RFACE
PMCCE	All petroleum products, excluding biofuels, CO2 emissions for the commercial sector.	Million metric tons CO2	PMCCE = DMCCE + KSCCE + HLCCE + MMCCE + PCCCE + RFCCE
PMEIE	All petroleum products, excluding biofuels, CO2 emissions for the electric power sector.	Million metric tons CO2	PMEIE = DMEIE + JFEIE + PCEIE + RFEIE
PMICE	All petroleum products, excluding biofuels, CO2 emissions for the industrial sector.	Million metric tons CO2	PMICE = ARICE + DMICE + KSICE + HLICE + LUICE + MMICE + PCICE + RFICE + OMICE
PMRCE	All petroleum products, excluding biofuels, CO2 emissions for the residential sector.	Million metric tons CO2	PMRCE = DMRCE + KSRCE + HLRCE
PMTCE	All petroleum products, excluding biofuels, CO2 emissions for all sectors.	Million metric tons CO2	PMTCE = ARTCE + AVTCE + DMTCE + JFTCE + KSTCE + HLTCE + LUTCE + MMTCE + PCTCE + RFTCE + OMTCE
PPICE	Natural gasoline (pentanes plus) industrial sector CO2 emissions.	Million metric tons CO2	PPICE = (PPICB * PPTCFUS * (1 - PPNFSUS * PPSQSUS)) / 1,000,000
PPNFSUS	Natural gasoline (pentanes plus) non-combustion share for the United States.	Share (number between 0 and 1)	PPNFSUS is independent.
PPSQSUS	Natural gasoline (pentanes plus) nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	PPSQSUS = 0.8
PPTCE	Natural gasoline (pentanes plus) total CO2 emissions.	Million metric tons CO2	PPTCE = PPICE
PPTCFUS	Natural gasoline (pentanes plus) CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	PPTCFUS is independent.
PQACE	Propane CO2 emissions in the transportation sector.	Million metric tons CO2	PQACE = PQACB * PRTCFUS / 1,000,000

Table A1. CO2 emissions variables (cont.)

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Propane CO2 emissions in the commercial sector.	Million metric tons CO2	PQCCE = PQCCB * PRTCFUS / 1,000,000
Propane CO2 emissions in the industrial sector.	Million metric tons CO2	PQICE = (PQICB * PRTCFUS * (1 - PQNFSUS * PQSQSUS)) / 1,000,000
Propane non-combustion share for the United States.	Share (number between 0 and 1)	PQNFSUS is independent.
Propane CO2 emissions in the residential sector.	Million metric tons CO2	PQRCE = PQRCB * PRTCFUS / 1,000,000
Propane nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	PQSQSUS = 0.8
Propane total CO2 emissions.	Million metric tons CO2	PQTCE = PQACE + PQCCE + PQICE + PQRCE
Propane CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	PQTCFUS is independent.
Propylene CO2 emissions in the industrial sector.	Million metric tons CO2	PYICE = (PYICB * PYTCFUS * (1 - PYNFSUS * PYSQSUS)) / 1,000,000
Propylene non-combustion share for the United States.	Share (number between 0 and 1)	PYNFSUS = 1
Propylene nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	PYSQSUS = 0.8
Propylene total CO2 emissions.	Million metric tons CO2	PYTCE = PYICE
Propylene CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	PYTCFUS is independent.
Residual fuel oil transportation sector CO2 emissions.	Million metric tons CO2	RFACE = RFACB * RFTCFUS / 1,000,000
Residual fuel oil commercial sector CO2 emissions.	Million metric tons CO2	RFCCE = RFCCB * RFTCFUS / 1,000,000
Residual fuel oil electric power sector CO2 emissions.	Million metric tons CO2	RFEIE = RFEIB * RFTCFUS / 1,000,000
Residual fuel oil industrial sector CO2 emissions.	Million metric tons CO2	RFICE = (RFICB * RFTCFUS * (1 - RFNFSUS * RFSQSUS)) / 1,000,000
Residual fuel oil non-combustion share for the United States.	Share (number between 0 and 1)	RFNFSUS is independent.
	Propane CO2 emissions in the industrial sector.  Propane non-combustion share for the United States.  Propane CO2 emissions in the residential sector.  Propane nonfuel carbon sequestration factor for the United States.  Propane total CO2 emissions.  Propane CO2 emissions factor for the United States.  Propylene CO2 emissions in the industrial sector.  Propylene non-combustion share for the United States.  Propylene nonfuel carbon sequestration factor for the United States.  Propylene total CO2 emissions.  Propylene CO2 emissions factor for the United States.  Residual fuel oil transportation sector CO2 emissions.  Residual fuel oil commercial sector CO2 emissions.  Residual fuel oil electric power sector CO2 emissions.  Residual fuel oil industrial sector CO2 emissions.  Residual fuel oil industrial sector CO2 emissions.	Propane CO2 emissions in the industrial sector.  Propane non-combustion share for the United States.  Propane CO2 emissions in the residential sector.  Propane nonfuel carbon sequestration factor for the United States.  Propane total CO2 emissions.  Propane CO2 emissions factor for the United States.  Propane CO2 emissions factor for the United States.  Propylene CO2 emissions in the industrial sector.  Propylene CO2 emissions in the industrial sector for the United States.  Propylene CO2 emissions in the industrial sector for the United States.  Propylene non-combustion share for the United States.  Propylene nonfuel carbon sequestration factor for the United States.  Propylene nonfuel carbon sequestration factor for the United States.  Propylene CO2 emissions.  Propylene CO2 emissions factor for the United States.  Propyle

Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
RFSQSUS	Residual fuel oil nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	RFSQSUS = 0.5
RFTCE	Residual fuel oil total CO2 emissions.	Million metric tons CO2	RFTCE = RFACE + RFCCE + RFEIE + RFICE
RFTCFUS	Residual fuel oil CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	RFTCFUS is independent.
SGICE	Still gas industrial sector CO2 emissions.	Million metric tons CO2	SGICE = (SGICB * SGTCFUS * (1 - SGNFSUS * SGSQSUS)) / 1,000,000
SGNFSUS	Still gas non-combustion share for the United States.	Share (number between 0 and 1)	SGNFSUS is independent.
SGSQSUS	Still gas nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	SGSQSUS = 0.8
SGTCE	Still gas total CO2 emissions.	Million metric tons CO2	SGTCE = SGICE
SGTCFUS	Still gas and still gas for petrochemical feedstock use CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	SGTCFUS is independent.
SNICE	Special naphthas industrial sector CO2 emissions.	Million metric tons CO2	SNICE = (SNICB * SNTCFUS * (1 - SNNFSUS * SNSQSUS)) / 1,000,000
SNNFSUS	Special naphthas non-combustion share for the United States.	Share (number between 0 and 1)	SNNFSUS = 1
SNSQSUS	Special naphthas nonfuel carbon sequestration factor for the United States.	Share (number between 0 and 1)	SNSQSUS = 0
SNTCE	Special naphthas total CO2 emissions.	Million metric tons CO2	SNTCE = SNICE
SNTCFUS	Special naphthas CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	SNTCFUS is independent.
TEACE	Total energy CO2 emissions for the transportation sector.	Million metric tons CO2	TEACE = FFACE
TECCE	Total energy CO2 emissions for the commercial sector.	Million metric tons CO2	TECCE = FFCCE
TEEIE	Total energy CO2 emissions for the electric power sector.	Million metric tons CO2	TEEIE = FFEIE
TEICE	Total energy CO2 emissions for the industrial sector.	Million metric tons CO2	TEICE = FFICE

Table A1. CO2 emissions variables (cont.)

TERCE         Total energy CO2 emissions for the residential sector.         Million metric tons CO2         TERCE = FFRCE           TETCE         Total energy CO2 emissions.         Million metric tons CO2         TETCE = FFTCE           TPOPP         Resident population including Armed Forces.         Thousand population         TPOPPDVS is independent. TPOPPUS is independent. TPOPPUS is independent.           UOICE         Unfinished oils industrial sector CO2 emissions.         Million metric tons CO2         UOICE = (UOICB * UOTCFUS * (1 - UONFSUS * 0 UOICS * UOTCFUS * (1 - UONFSUS * 0 UOICS * UOTCFUS * (1 - UONFSUS * 0 UOICS * UOTCFUS * (1 - UONFSUS * 0 UOICS * U	MSN	Description	Unit	Formula
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	WXTCE	Waxes total CO2 emissions.	Million metric tons CO2	WXTCE = WXICE

## Table A1. CO2 emissions variables (cont.)

MSN	Description	Unit	Formula
WXTCFUS	Waxes CO2 emissions factor for the United States.	Million metric tons CO2 per quadrillion Btu	WXTCFUS is independent.

**Table A2. Consumption adjustment variables** 

MSN	Description	Unit	Formula
ABICB	Aviation gasoline blending components consumed by the industrial sector.	Billion Btu	SEDS consumption variable
ARICB	Asphalt and road oil consumed by the industrial sector.	Billion Btu	SEDS consumption variable
AVACB	Aviation gasoline consumed by the transportation sector.	Billion Btu	SEDS consumption variable
BQICB	Normal butane consumed by the industrial sector.	Billion Btu	SEDS consumption variable
BYICB	Butylene from refineries consumed by the industrial sector.	Billion Btu	SEDS consumption variable
CCNIBUS	Coal coke net imports into the United States.	Billion Btu	SEDS consumption variable
CLACB	Coal consumed by the transportation sector.	Billion Btu	SEDS consumption variable
CLCCB	Coal consumed by the commercial sector.	Billion Btu	SEDS consumption variable
CLEIB	Coal consumed by the electric power sector.	Billion Btu	SEDS consumption variable
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	SEDS consumption variable
CLOCB	Coal consumed by industrial users other than coke plants.	Billion Btu	SEDS consumption variable
CLRCB	Coal consumed by the residential sector.	Billion Btu	SEDS consumption variable
COICB	Crude oil consumed by the industrial sector.	Billion Btu	SEDS consumption variable
DMACB	Distillate fuel oil, excluding biodiesel and renewable diesel, consumed by the transportation sector.	Billion Btu	SEDS consumption variable
DMCCB	Distillate fuel oil, excluding biodiesel, consumed by the commercial sector.	Billion Btu	SEDS consumption variable
DMEIB	Distillate fuel oil, excluding biodiesel, consumed by the electric power sector.	Billion Btu	SEDS consumption variable
DMICB	Distillate fuel oil, excluding biofuels, consumed by the industrial sector.	Billion Btu	SEDS consumption variable
DMRCB	Distillate fuel oil, excluding biodiesel, consumed by the residential sector.	Billion Btu	SEDS consumption variable

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
ELISB	Net interstate flow of electricity and associated losses (negative indicates flow out of state).	Billion Btu	SEDS consumption variable
EQICB	Ethane consumed by the industrial sector.	Billion Btu	SEDS consumption variable
EYICB	Ethylene from refineries consumed by the industrial sector.	Billion Btu	SEDS consumption variable
FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	SEDS consumption variable
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	SEDS consumption variable
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector (through 1985).	Billion Btu	SEDS consumption variable
IQICB	Isobutane consumed by the industrial sector.	Billion Btu	SEDS consumption variable
IYICB	Isobutylene from refineries consumed by the industrial sector.	Billion Btu	SEDS consumption variable
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	SEDS consumption variable
JFEUB	Jet fuel consumed by the electric power sector (through 1982).	Billion Btu	SEDS consumption variable
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	SEDS consumption variable
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	SEDS consumption variable
KSRCB	Kerosene consumed by the residential sector.	Billion Btu	SEDS consumption variable
LGACB	LPG consumed by the transportation sector (through 2009).	Billion Btu	SEDS consumption variable
LGCCB	LPG consumed by the commercial sector (through 2009).	Billion Btu	SEDS consumption variable
LGICB	LPG consumed by the industrial sector (through 2009).	Billion Btu	SEDS consumption variable
LGRCB	LPG consumed by the residential sector (through 2009).	Billion Btu	SEDS consumption variable
LUACB	Lubricants consumed by the transportation sector.	Billion Btu	SEDS consumption variable

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
LUICB	Lubricants consumed by the industrial sector.	Billion Btu	SEDS consumption variable
MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu	SEDS consumption variable
MMACB	Motor gasoline, excluding fuel ethanol, consumed by the transportation sector.	Billion Btu	SEDS consumption variable
MMCCB	Motor gasoline, excluding fuel ethanol, consumed by the commercial sector.	Billion Btu	SEDS consumption variable
MMICB	Motor gasoline, excluding fuel ethanol, consumed by the industrial sector.	Billion Btu	SEDS consumption variable
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	Billion Btu	SEDS consumption variable
NAICB	Natural gasoline consumed by the industrial sector (through 1983).	Billion Btu	SEDS consumption variable
NNACB	Natural gas, excluding supplemental gaseous fuels, consumed by the transportation sector.	Billion Btu	SEDS consumption variable
NNCCB	Natural gas, excluding supplemental gaseous fuels, consumed by the commercial sector.	Billion Btu	SEDS consumption variable
NNEIB	Natural gas, excluding supplemental gaseous fuels, consumed by the electric power sector.	Billion Btu	SEDS consumption variable
NNICB	Natural gas, excluding supplemental gaseous fuels, consumed by the industrial sector.	Billion Btu	SEDS consumption variable
NNRCB	Natural gas, excluding supplemental gaseous fuels, consumed by the residential sector.	Billion Btu	SEDS consumption variable
PCCCB	Petroleum coke consumed by the commercial sector.	Billion Btu	SEDS consumption variable
PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	SEDS consumption variable
PCICB	Petroleum coke consumed in the industrial sector.	Billion Btu	SEDS consumption variable
PLICB	Plant condensate consumed by the industrial sector (through 1983).	Billion Btu	SEDS consumption variable

Table A2. Consumption adjustment variables (cont.)

MSN	Description	Unit	Formula
PPICB	Natural gasoline (pentanes plus) consumed by the industrial sector.	Billion Btu	SEDS consumption variable
PQACB	Propane consumed by the transportation sector.	Billion Btu	SEDS consumption variable
PQCCB	Propane consumed by the commercial sector.	Billion Btu	SEDS consumption variable
PQICB	Propane consumed by the industrial sector.	Billion Btu	SEDS consumption variable
PQRCB	Propane consumed by the residential sector.	Billion Btu	SEDS consumption variable
PYICB	Propylene from refineries consumed by the industrial sector.	Billion Btu	SEDS consumption variable
RFACB	Residual fuel oil consumed by the transportation sector.	Billion Btu	SEDS consumption variable
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	SEDS consumption variable
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	SEDS consumption variable
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	SEDS consumption variable
SGICB	Still gas consumed by the industrial sector.	Billion Btu	SEDS consumption variable
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	SEDS consumption variable
TETCB	Total energy consumption.	Billion Btu	SEDS consumption variable
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	SEDS consumption variable
USICB	Unfractionated streams consumed by the industrial sector (through 1983).	Billion Btu	SEDS consumption variable
WXICB	Waxes consumed by the industrial sector.	Billion Btu	SEDS consumption variable

## Glossary

**Asphalt:** A dark brown-to-black cement-like material obtained by petroleum processing and containing bitumens as the predominant component; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. *Note:* The conversion factor for asphalt is 5.5 barrels per short ton.

**ASTM:** American Society for Testing and Materials

**Aviation gasoline (finished):** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

**Aviation gasoline blending components:** Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel (petroleum): A unit of volume equal to 42 U.S. gallons.

Barrels per calendar day: The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see Barrels per stream day) to account for the following limitations that may delay, interrupt, or slow down production: 1. the capability of downstream processing units to absorb the output of crude oil processing facilities of a given refinery. No reduction is necessary for intermediate streams that are distributed to other than downstream facilities as part of a refinery's normal operation; 2. the types and grades of inputs to be processed; 3. the types and grades of products expected to be manufactured; 4. the environmental constraints associated with refinery operations; 5. the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and 6. the reduction of capacity for unscheduled downtime

due to such conditions as mechanical problems, repairs, and slowdowns.

**Barrels per stream day:** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

**Battery electric vehicle (BEV):** An all-electric vehicle that receives power by plugging into an electric power source and storing the power in a battery pack. BEVs do not use any petroleum-based or other liquid- or gas-based fuel during operation and do not produce tailpipe emissions.

**Biodiesel (B100):** Renewable fuel consisting of mono alkyl esters (long chain fatty acids) that are produced through the conversion of animal fats, vegetable oils, and recycled grease feedstocks (transesterification) to produce biodiesel. Biodiesel is typically blended with petroleum diesel in concentrations of 2% to 20% biodiesel, or B2 to B20.

**Biofuels:** Liquid fuels and blending components produced from biomass feedstocks, used primarily for transportation.

**Biomass:** Organic non-fossil material of biological origin constituting a re-newable energy source.

**Biomass waste:** Organic non-fossil material of biological origin that is a byproduct or a discarded product. Biomass waste includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. *Note:* EIA biomass waste data also include energy crops grown specifically for energy production, which would not normally constitute waste.

**Black liquor:** A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

**British thermal unit (Btu):** The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (about 39 degrees

Fahrenheit).

**Bunker fuels:** Fuel supplied to ships and aircraft, both domestic and foreign, consisting primarily of residual and distillate fuel oil for ships and kerosene-based jet fuel for aircraft. The term "international bunker fuels" is used to de*Note* the consumption of fuel for international transport activities. *Note*: For the purposes of greenhouse gas emissions inventories, data on emissions from combustion of international bunker fuels are subtracted from national emissions totals. Historically, bunker fuels have meant only ship fuel.

**Butane** ( $C_4H_{10}$ ): A straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial butane.

**Butylene** (C<sub>4</sub>H<sub>8</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Butylene is used in the production of gasoline and various petrochemical products.

**Carbon dioxide (CO2):** A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of fossil-fuel combustion as well as other processes. It is considered a greenhouse gas as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for global warming. The global warming potential (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Catalytic cracking: The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Chained dollar gross domestic product: A measure of gross domestic product using real prices. See chained dollars and gross domestic product (GDP).

**Chained dollars:** A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Before 1996, real prices were expressed in

constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period covered and is therefore subject to less distortion over time.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50% by weight and more than 70% by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. Coals are classified according to their degree of progressive alteration from lignite to anthracite. In the U.S. classification, the ranks of coal include lignite, subbituminous coal, bituminous coal, and anthracite and are based on fixed carbon, volatile matter, heating value, and agglomerating (or caking) properties.

**Coking coal:** Bituminous coal suitable for making coke.

Steam coal: In this report, steam coal represents all noncoking coal.

**Coal coke:** A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000 degrees Fahrenheit so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke from coal is gray, hard, and porous and has a heating value of 24.8 million Btu per ton.

**Coke plants:** Plants where coal is carbonized for the manufacture of coke in slot or beehive ovens.

Combined-heat-and-power (CHP) plant: A plant designed to produce both heat and electricity. If one or more units of the plant is a CHP unit, then the whole plant is designated as a CHP plant. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Polices Act (PURPA).

**Commercial sector:** An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state,

and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

**Conversion factor:** A factor for converting data between one unit of measurement and another (such as between short tons and British thermal units, or between barrels and gallons). (See <a href="https://www.eia.gov/totalenergy/data/monthly/pdf/mer\_a.pdf">https://www.eia.gov/totalenergy/data/monthly/pdf/mer\_a.pdf</a> and <a href="https://www.eia.gov/totalenergy/data/monthly/pdf/mer\_b.pdf">https://www.eia.gov/totalenergy/data/monthly/pdf/mer\_b.pdf</a> for further information on conversion factors.)

**Cord of wood:** A cord of wood measures 4 feet by 4 feet by 8 feet, or 128 cubic feet.

Crude oil (including lease condensate): A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, crude oil may also include: 1. small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently comingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2. Small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; 3. Drip gases, and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

**Crude oil used directly:** Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

**Cubic foot (cf), natural gas:** The amount of natural gas contained at standard temperature and pressure (60 degrees Fahrenheit and 14.73 pounds standard per square inch) in a cube whose edges are one foot

long.

**Current-dollar gross domestic product:** A measure of gross domestic product using current price. See **gross domestic product (GDP)**.

**Denaturant:** Petroleum, typically pentanes plus or conventional motor gasoline, added to fuel ethanol to make it unfit for human consumption. Fuel ethanol is denatured, usually before transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant.

**Diesel fuel:** A fuel composed of distillates obtained in petroleum refining operation or blends of such distillates with residual oil used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

**Distillate fuel oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

**Electric power sector:** An energy-consuming sector that consists of electricity only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., North American Industry Classification System 22 plants. See combined-heat-and-power (CHP) plant and electricity only plant. The electric power sector consumes primary energy to generate electricity and heat (forms of secondary energy). Electricity is sold to the four enduse sectors (residential, commercial, industrial, and transportation), stored for future use, and exported to other countries.

**Electrical system energy losses:** The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

**Electricity sales to ultimate customers:** Electricity sales that are consumed by the customer and not available for resale. Includes electric sales to end users by third-party owners of behind-the-meter PV solar systems.

**Electric utility:** A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investorowned electric utilities, municipal and state utilities, federal electric

utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included.

Electric vehicle (EV): A general term for any on-road licensed vehicle that can plug into an electric power source and uses electric power to move. EVs plug into a source of electricity and store power in a battery pack for all or part of their power needs. Includes Battery electric vehicles (BEVs) and Plug-in hybrid vehicles (PHEVs). Can also be referred to as Plug-in Electric Vehicles (PEV).

Electric vehicle charging location: A geographically distinct place, based on latitude and longitude with one or more Electric Vehicle (EV) charging ports. One charging location can include co-located public and private EV charging ports, networked and non-networked EV charging ports, and EV charging ports of various speeds such as Level 2 and DC fast chargers. Multiple EV charging locations can be associated with a common development area, such as a parking lot or parking garage serving a shopping center or office building.

Electric vehicle charging port: The electric vehicle (EV) charging equipment that connects to and charges an EV. The number of ports is the total number of vehicles that can charge simultaneously at an EV charging location. A single EV charging port can connect to and charge one vehicle at a time. If the EV charging equipment can connect to and charge more than one vehicle simultaneously than that would count as multiple charging ports.

**Electrical system energy losses:** The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted for uses.

Electricity sales to ultimate customers: Electricity sales that are consumed by the customer and not available for resale. Includes electric sales to end users by third-party owners of behind-the-meter PV solar systems.

**End-use energy consumption:** End-use sector (residential, commercial, industrial, and transportation) consumption of primary energy plus electricity sales to ultimate customers. The energy associated with electrical system energy losses is not included.

End-use sectors: The residential, commercial, industrial, and transportation sectors of the economy.

**Energy:** The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion

(kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units (Btu).

**Energy consumption:** The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Energy expenditures: The money directly spent by consumers to purchase energy. Expenditures equal the amount of energy used by the consumer multiplied by the price per unit paid by the consumer. Note: In the calculation of the amount of energy used, process fuel and intermediate products are not included.

**Energy-consuming sectors:** The residential, commercial, industrial, transportation, and electric power sectors of the economy.

Ethane (C<sub>2</sub>H<sub>6</sub>): A straight-chain saturated (paraffinic) hydrocarbon extracted predominantly from the natural gas stream, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -127 degrees Fahrenheit.

Ethanol (C2H2OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See fuel ethanol.

Ethylene (C<sub>2</sub>H<sub>2</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Ethylene is used as a petrochemical feedstock for many chemical applications and the production of consumer goods.

**Exports:** Shipments of goods from within the 50 states and the District of Columbia to U.S. possessions and territories or to foreign countries.

f.a.s.: See free alongside ship.

Federal Energy Regulatory Commission (FERC): The federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the Department of Energy and is the successor to the Federal Power Commission.

**Federal Power Commission (FPC):** The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

**Fiscal year:** The U.S. Government's fiscal year runs from October 1 through September 30. The fiscal year is designated by the calendar year in which it ends; e.g., fiscal year 2002 begins on October 1, 2001, and ends on September 30, 2002.

**Fossil fuel:** An energy source formed in the Earth's crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

**Free alongside ship (f.a.s.):** The value of a commodity at the port of ex-portation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation.

**Fossil-fuel steam-electric power plant:** An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

**Fuel ethanol:** Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1% water). Fuel ethanol is denatured (made unfit for human consumption), usually before transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use.

Fuel ethanol excluding denaturant: See fuel ethanol minus denaturant.

**Fuel ethanol minus denaturant:** An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel.

**Gasohol:** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration between 5.7% and

10% by volume.

**Geothermal energy:** Hot water or steam extracted from geothermal reser-voirs in the Earth's crust. Water or steam extracted from geothermal reser-voirs can be used for geothermal heat pumps, water heating, or electricity generation.

**Gross domestic product (GDP):** The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

**Gross generation:** The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). *Note:* Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The Energy Information Administration typically uses gross heat content values.

**Heat rate:** A measure of generating station thermal efficiency commonly stated as Btu per kilowatthour. *Note:* Heat rates can be expressed as either gross or net heat rates, depending on whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Heating degree days (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by sub-tracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree days are summed to create a heating degree day measure for a specified reference period. Heating degree days are used in energy analysis as an indicator of space heating energy requirements or use.

Hydrocarbon gas liquids (HGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline, and their associated olefins, including ethylene, propylene, butylene, and isobutylene. As marketed products, HGL represents all natural gas liquids (NGL) and olefins. EIA reports production of HGL from refineries (liquefied refinery gas, or LRG) and natural gas plants (natural gas plant liquids, or NGPL). Excludes liquefied natural gas (LNG).

Hydroelectric power: The use of flowing water to produce electrical energy.

Hydroelectric power, conventional: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Hydroelectric pumped storage: Hydroelectric power that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in an electric power plant at a lower level.

**Hydroelectric power plant:** A plant in which the turbine generators are driven by falling water.

Imports: Receipts of goods into the 50 states and the District of Columbia from U.S. possessions and territories or from foreign countries.

**Independent power producer:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility. Note: Independent power producers are included in the electric power sector.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery. with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

**Isobutane** (C<sub>4</sub>H<sub>40</sub>): A branch-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 11 degrees Fahrenheit.

Isobutylene (C,H,): A branch-chain olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Isobutylene is used in the production of gasoline and various petrochemical products.

**Jet fuel:** A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet fuel, kerosene-type: A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbo jet and turbo prop aircraft engines.

Jet fuel, naphtha-type: A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20% to 90% distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

**Kerosene:** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10% recovery point, a final maximum boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. Also see Jet Fuel, Kerosene-type.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000 watts) of power expended for 1 hour. One kWh is equal to 3,412 Btu.

Lease and plant fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

**Lease condensate:** A mixture consisting primarily of hydrocarbons heavier than pentanes that is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas plant liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities.

**Liquefied petroleum gases (LPG):** A group of hydrocarbon gases, primarily propane, normal butane, and isobutane, derived from crude oil refining or natural gas processing. These gases may be marketed individually or mixed. They can be liquefied through pressurization (without requiring cryogenic refrigeration) for convenience of transportation or storage. Excludes ethane and olefins. *Note*: In some EIA publications, LPG includes ethane and marketed refinery olefin streams, in accordance with definitions used prior to January 2014.

**Lubricants:** Substances used to reduce friction between bearing surfaces, or incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils, from spindle oil to cylinder oil to those used in greases.

Methanol (CH<sub>2</sub>OH): A light, volatile alcohol eligible for gasoline blending.

**Miscellaneous petroleum products:** Includes all finished products not classified elsewhere (e.g., petrolatum lube refining by products (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feed stocks, and specialty oils).

**Motor gasoline (finished):** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10% recovery point to 365 to 374 degrees Fahrenheit at the 90% recovery point. Motor Gasoline includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. *Note:* Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

**Motor gasoline blending components:** Naphthas (e.g., straight-run gas-oline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include re-formulated gasoline blendstock for oxygenate blending (RBOB) but

exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note:* Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

**Natural gas:** A gaseous mixture of hydrocarbon compounds, the primary one being methane.

**Natural gas liquids (NGL):** A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases except olefins.

**Natural gas, dry:** Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note*: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

**Natural gasoline:** A commodity product commonly traded in natural gas liquids (NGL) markets that comprises liquid hydrocarbons (mostly pentanes and hexanes) and generally remains liquid at ambient temperatures and atmospheric pressure. Natural gasoline is equivalent to pentanes plus.

**Net generation:** The amount of **gross generation** less the electrical energy consumed at the generating station(s) for station service or auxiliaries. *Note*: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from **gross generation**.

**Net interstate flow of electricity:** The difference between the sum of electricity sales and losses within a state and the total amount of electricity generated within that state. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the state than came into the state.

**Net summer capacity:** The maximum output, commonly expressed in thousand kilowatts (kW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Nominal dollars: A measure used to express nominal price.

**Nominal price:** The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-biomass waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Non-combustion use: Fossil fuels (coal, natural gas, and petroleum products) that are not burned to release energy and instead used directly as construction materials, chemical feedstocks, lubricants, solvents, waxes, and other products. Sometimes used synonymously with "nonfuel use (of energy)."

Nonutilities: See nonutility power producer.

**Nonutility power producer:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers). Nonutility power producers are without a designated franchised service area and do not file forms listed in the Code of Federal Regulations, Title 18, Part 141.

**Normal butane (C<sub>4</sub>H<sub>10</sub>):** A straight-chain saturated (paraffinic) hydrocarbon extracted from both natural gas and refinery gas streams. which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of 31 degrees Fahrenheit.

North American Industry Classification System (NAICS): A classification scheme, developed by the Office of Management and Budget to replace the Standard Industrial Classification (SIC) System, that categorizes establishments according to the types of production processes they primarily use.

Nuclear electric power (nuclear power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear fuel: Fissionable materials that have been enriched to a composition that, when placed in a nuclear reactor, will support a selfsustaining fission chain reaction, producing heat in a controlled manner for process use.

Other biofuels: Fuels and fuel blending components, except biodiesel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Other energy losses: Energy losses throughout the energy system as they are consumed, usually in the form of heat, that are not separately identified by the U.S. Energy Information Administration. Examples include heat lost in the process of burning motor gasoline to move vehicles or in electricity used to power a lightbulb.

PAD Districts or PADD: Petroleum Administration for Defense Districts. A geographic aggregation of the 50 states and the District of Columbia into five Districts, with PADD 1 further split into three subdistricts. The PADDs include the states listed below:

- PADD 1 (East Coast):
  - PADD 1A (New England): Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.
  - PADD 1B (Central Atlantic): Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania.
  - PADD 1C (Lower Atlantic): Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia.
- PADD 2 (Midwest): Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, and Wisconsin.
- PADD 3 (Gulf Coast): Alabama, Arkansas, Louisiana, Mississippi, New Mexico, and Texas.
- PADD 4 (Rocky Mountain): Colorado, Idaho, Montana, Utah, and Wyoming.
- PADD 5 (West Coast): Alaska, Arizona, California, Hawaii, Nevada, Oregon, and Washington.

Pentanes plus: A mixture of liquid hydrocarbons, mostly pentanes and heavier, extracted from natural gas in a gas processing plant. Pentanes plus is equivalent to natural gasoline.

Petrochemical feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. In this report the categories reported are "Naphtha Less Than 401°F" and "Other Oils Equal to or Greater Than 401°F."

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids.

*Note*: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

**Petroleum coke:** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton.

**Petroleum coke, catalyst:** The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

**Petroleum coke, marketable:** Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or further purified by calcining.

**Petroleum consumption:** The sum of all refined petroleum products sup-plied. See **products supplied (petroleum)**.

**Petroleum products:** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, hydrocarbon gas liquids, aviation gasoline, motor gasoline, naphthatype jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Photovoltaic energy:** Direct-current electricity generated from photovoltaic cells. See **photovoltaic cells (PVC)**.

**Photovoltaic cells (PVC):** An electronic device consisting of layers of semiconductor materials fabricated to form a junction (adjacent layers of materials with different electronic characteristics) and electrical contacts and being capable of converting incident light directly into electricity (direct current).

**Plant condensate:** Liquid hydrocarbons recovered at inlet separators or scrubbers in natural gas processing plants at atmospheric pressure and ambient temperatures. Mostly pentanes and heavier hydrocarbons.

Plug-in hybrid electric vehicle (PHEV): A vehicle that can both (1)

plug into an electric power source and store power in a battery pack and (2) use petroleum-based or other liquid- or gas-based fuel to power an internal combustion engine (ICE).

**Primary energy consumption:** Consumption of primary energy. EIA includes the following in U.S. primary energy consumption:

- Coal
- Coal coke net imports
- Petroleum (equal to petroleum products supplied, excluding biofuels)
- Dry natural gas, excluding supplemental gaseous fuels
- Nuclear electricity net generation (converted to Btu using the average annual heat rate of nuclear plants)
- Conventional hydroelectricity net generation (converted to Btu using the heat content of electricity)
- Geothermal electricity net generation (converted to Btu using the heat content of electricity), geothermal heat pump energy, and geothermal direct-use thermal energy
- Solar thermal and photovoltaic electricity net generation, both utility-scale and small-scale (converted to Btu using the heat content of electricity)
- · Solar thermal direct-use energy
- Wind electricity net generation (converted to Btu using the heat content of electricity)
- · Wood and wood-derived fuels
- · Biomass waste
- Biofuels (fuel ethanol, biodiesel, renewable diesel, and other biofuels)
- Losses and co-products from the production of biofuels
- Electricity net imports (converted to Btu using the electricity heat content of electricity)

Primary energy consumption also includes all non-combustion uses of fossil fuels. Energy sources produced from other energy sources—for example, coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. As a result, U.S. primary energy consumption does include net imports of coal coke, but it does not include the coal coke produced from domestic coal.

**Primary energy expenditures:** Expenditures for energy consumed in each of the four major end-use sectors, excluding energy in the form

of electricity, plus expenditures by the electric power sector for energy used to generate electricity. There are no fuel-associated expenditures for associated expenditures for hydroelectric power, geothermal energy, photovoltaic and solar energy, or wind energy. Also excluded are the quantifiable consumption expenditures that are an integral part of process fuel consumption.

**Process fuel:** All energy consumed in the acquisition, processing, and transportation of energy. Quantifiable process fuel includes three categories: natural gas lease and plant operations, natural gas pipeline operations, and oil refinery operations.

**Product supplied (petroleum):** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows; field production, plus refinery production, plus imports, plus unaccountedfor crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

**Propane** (C<sub>2</sub>H<sub>6</sub>): A straight-chain saturated (paraffinic) hydrocarbon extracted from natural gas or refinery gas streams, which is gaseous at standard temperature and pressure. It is a colorless gas that boils at a temperature of -44 degrees Fahrenheit. It includes all products designated in ASTM Specification D1835 and Gas Processors Association specifications for commercial (HD-5) propane.

Propylene (C<sub>2</sub>H<sub>6</sub>): An olefinic hydrocarbon recovered from refinery or petrochemical processes, which is gaseous at standard temperature and pressure. Propylene is an important petrochemical feedstock.

Refinery (petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refinery olefins: Subset of olefinic hydrocarbons (olefins) produced at crude oil refineries, including ethylene, propylene, butylene, and isobutylene.

Renewable diesel fuel: Renewable fuel consisting of hydrocarbon molecules, produced through the hydrotreating of animal fats, vegetable oils, and recycled grease feedstocks. It is considered a drop-in replacement to petroleum-based diesel fuel (for example, it can be used in diesel engines without modification). Renewable diesel fuel reported

on the EIA-819 is produced at dedicated biorefineries or co-processed at petroleum refineries.

**Renewable energy:** Energy resources that are naturally replenishing but flow-limited. They are virtually inexhaustible in duration but limited in the amount of energy that is available per unit of time. In this report, renewable sources of energy include biomass, hydroelectric power, geothermal, solar, and wind.

Residential sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living guarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steampowered vessels in government service and inshore powerplants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Road oil: Any heavy petroleum oil, including residual asphaltic oil, used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

**Short ton:** A unit of weight equal to 2,000 pounds.

Solar energy: The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

**Special naphthas:** All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Standard Industrial Classification (SIC): Replaced with North American Industry Classification System. See NAICS.

Steam coal: See coal.

**Still gas:** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane and ethane. May contain hydrogen and small/ trace amounts of other gases. Still gas is typically consumed as refinery fuel or used as petrochemical feedstock. Still gas burned for refinery fuel may differ in composition from marketed still gas sold to other users.

**Supplemental gaseous fuels supplies:** Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

**Total energy consumption:** Primary energy consumption, electricity sales to ultimate customers, and electrical system energy losses allocated to each end-use sector. Also includes other energy losses throughout the energy system.

**Transportation sector:** An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. In this report, natural gas used in the operation of natural gas pipelines is included in the transportation sector.

**Unfinished oils:** All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

**Unfractionated streams:** Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

**United States:** The 50 states and the District of Columbia. *Note*: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 states and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage

included under the term "United States."

Value added by manufacture: A measure of manufacturing activity that is derived by subtracting the cost of materials (which covers materials, supplies, containers, fuel, purchased electricity, and contract work) from the value of shipments. This difference is then adjusted by the net change in finished goods and work-in-progress between the beginning- and end-of-year inventories.

**Vessel bunkering:** Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going ves-sels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

**Waste energy:** Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel. See **biomass** waste and **non-biomass waste**.

**Wax:** A solid or semi-solid material consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 100 and 200 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

**Wind energy:** Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

**Wood energy:** Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.