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

v		N	D h	
Year	Coal	Natural gas ^a	Petroleum ^b	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	87.4	12.3	39.8	139.5
2014 2015	87.2 76.1	13.7 14.4	39.2	140.1
2016	70.1	14.4	40.5 41.4	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

^a 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.

 $[\]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 ^a	Natural gas ^b	Petroleum ^c	Total
	Coul	Huturur gus	1 Cholcum	1000
1960	1.0	3.5	0.8	5.3
1965	0.6	3.5 3.5	0.8 1.2	5.3 5.3 7.2 6.0 5.7 4.5 4.1 4.9 5.2 5.0 4.2 4.6 4.7
1970	0.7	4.7	1.9 1.6	7.2
1975 1980 1985	0.2	4.2	1.6	6.0
1980	0.1	4.0	1.6 1.1	5.7
1985	0.1	4.0 3.3 3.1	1.1	4.5
1990 1995 1996	0.1	3.1	0.9	4.1
1995	(S)	3.8	1.0	4.9
1996	(s) (s) 0.1	3.9	1.2	5.2
1997 1998	0.1	3.7 3.0	1.2 1.1	5.0 4.2
1999	0.1	3.0	1.3	4.2
2000	0.1	3.6	1.0	4.0 4.7
2001	0.1	3.1	0.8	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 0.8 0.8	4.3
2004	0.1	3.1	0.8	4.0
2005	0.1	3.1	0.8	3.9
2006 2007	(s) (s)	2.6 2.8 3.0	0.6 0.7 0.7	3.3
2007	(S)	2.8	0.7	3.5
2008		3.0	0.7	3.7
2009	_	2.8 3.0	0.8 0.7	3.6
2010	_	3.0 2.8	0.7	3.7 3.5
2010 2011 2012	_	2.4	0.7	2.8
2013	_	2.9	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	_	2.9	0.4	3.3
2019	_	2.7	0.6	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 0.6	3.0
2021	_	2.6	0.5	3.1
2022	-	2.8	0.6 0.4	3.4 2.7
2023	_	2.3	0.4	2.1

 $^{^{\}rm a}$ 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/

^c 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 ^a	Petroleum ^b	Total
- I Cai	Coai	ivaturar 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 0.3 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
1997	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	(3) (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	-	2.1 1.9	0.7 0.7	2.6

^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.

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.

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

[•] 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 1960 8.9 2.4 2.1 1965 11.5 3.1 2.9 1970 9.9 3.9 4.1 1975 6.6 3.4 5.8 1980 7.1 3.4 6.9 1985 8.8 3.3 6.5	
8.9 2.4 2.1 1965 11.5 3.1 2.9 1970 9.9 3.9 4.1 1975 6.6 3.4 5.8 1980 7.1 3.4 6.9	
1965 11.5 3.1 2.9 1970 9.9 3.9 4.1 1975 6.6 3.4 5.8 1980 7.1 3.4 6.9	Total
1965 11.5 3.1 2.9 1970 9.9 3.9 4.1 1975 6.6 3.4 5.8 1980 7.1 3.4 6.9	13.5
1970 9.9 3.9 4.1 1975 6.6 3.4 5.8 1980 7.1 3.4 6.9	17.5
1980 7.1 3.4 6.9	17.5 17.9
1980 7.1 3.4 6.9	15.8
	17.5
1985 8.8 3.3 6.5 1990 8.2 3.8 7.3 1995 8.8 5.2 6.9 1996 8.7 5.2 7.3 1997 7.7 5.3 6.7 1998 6.6 5.1 7.6	18.6
1990 8.2 3.8 7.3	19.3
1995 8.8 5.2 6.9 1996 8.7 5.2 7.3	20.9
1990 8.7 1997 7.7 5.3 6.7	21.2 10.7
1990 8.2 3.8 7.3 1995 8.8 5.2 6.9 1996 8.7 5.2 7.3 1997 7.7 5.3 6.7 1998 6.6 5.1 7.6	20.9 21.2 19.7 19.3
1999 5.8 5.3 8.0	19.2
1999 5.8 5.3 8.0 2000 5.6 5.5 7.0 2001 5.9 5.2 10.4 2002 5.2 5.7 9.7 2003 5.2 5.6 9.0 2004 5.6 6.3 10.4 2005 5.4 6.2 10.4	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 2004 5.6 6.3 10.4	19.9
2003 5.2 5.6 9.0 2004 5.6 6.3 10.4 2005 5.4 6.2 10.4	19.9 22.3 22.0
2005 5.4 6.2 10.4	22.0
2006 5.8 6.0 11.5 2007 6.0 6.0 10.3 2008 5.4 5.9 10.3	23.2 22.2
2007 6.0 6.0 10.3 2008 5.4 5.9 10.3	22.2 21.6
2008 5.4 5.9 10.3 2009 4.1 5.3 10.3	∠1.0 10.7
2009 4.1 5.3 10.3 2010 4.7 5.7 9.0	19.7 19.4
2011 4.5 5.8 8.5	18.8
2011 4.5 5.8 8.5 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	16.0 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 2019 1.7 6.7 7.0	15.3
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 2022 2.0 7.2 4.9	14.8 14.0
2022 2.0 7.2 4.9 2023 1.7 7.3 6.0	14.0
1.7	13.0

^a 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.

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.

 $[\]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))

Year	Coal ^a	Natural gas ^b	Petroleum ^c	Total
1960	0.2	1.0	9.4	10.6
1965	(s) (s) (s)	1.5	11.6	13.1 18.0
1970	(s)	1.9	16.0	18.0
1975	(s)	1.3	18.8 21.7	20.1 22.8 22.6
1980 1985		1.1 0.8	21.7 21.8	22.8
1990		1.4	21.0 25.2	22.0 26.5
1995		1.4	25.2 28.2 26.4	26.5 29.6 27.9
1996	_	1.5 1.5	26.4	27.9
1997	_	1.3	28.9	30.1 30.1 31.2
1998	-	0.9	29.3	30.1
1999	_	0.9 0.8	30.3	31.2
2000	_	0.8	30.8 31.1	31.6 31.9 33.0 31.9 34.5 33.4 33.3 34.6 31.6 32.0 32.3 31.9
2001 2002	-	0.8 0.7	31.1	31.9
2002	_	0.7	32.3 31.1	33.0
2003 2004	_	0.8	31.1 33.9	31.9
2004		0.6 0.5	33.0	34.5 33.4
2006		0.3	33.0	33.3
2007	<u> </u>	0.4	33.0 34.0	34 6
2008	_	0.6 0.7 0.7	30.8	31.6
2009	-	0.7	30.8 31.3	32.0
2010	_	0.8	31.5 31.2	32.3
2011	_	0.7	31.2	31.9
2012 2013	-	0.5	30.3	30.8
2013	_	0.4	30.3 30.2 30.6	30.8 30.6 31.1 31.5
2014	_	0.5	30.6	31.1
2015	_	0.6 0.3	30.9 31.2 31.7	31.3 31.5
2016 2017	=	0.3	31.2	31.3
2018	_	0.8	32.9	33.7
2019	_	1.1	32.1	31.5 32.1 33.7 33.2 30.8
2020	_	1.3	29.5	30.8
2021	-	1.7	31.8	33.4 33.7 33.8
2022	_	1.4	32.3	33.7
2023	_	1.6	32.2	33.8

^a 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.

^{'c'} 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, 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, Kentucky (million metric tons of carbon dioxide (CO2))

Year	Coal	Natural gas ^a	Petroleum ^b	Total
	- Cour	Huturur gus	1 Cu olcum	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	87.5
2000	88.9	0.2	0.1	84.5 84.8 87.5 89.2 90.3
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	3.2	95.3
2008 2009	92.2 85.2	0.5 0.5	3.3 2.2	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	30.9 48.1	7.5	0.1	50.9 55.7
2023	44.5	6.1	0.1	56.9 55.7 50.7
_0_0	11.0	0.1	0.1	00.1

^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.

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

[·] Totals may not equal sum of components due to independent rounding. · The electric power sector