

KANSAS
Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kansas
(trillion Btu)

Year	Fossil fuels										Fossil fuels (as commingled)			
	Coal	Natural gas excluding supplemental gaseous fuels ^a	Petroleum							Total	Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
			Distillate fuel oil excluding biofuels ^a	HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d	Total					
1960	15.7	373.7	27.6	21.4	5.1	124.6	15.1	58.7	252.4	641.8	373.7	27.6	124.6	
1965	15.3	440.8	30.6	25.0	5.7	134.1	6.7	74.8	276.8	732.9	440.8	30.6	134.1	
1970	10.7	574.5	44.0	30.4	8.6	151.5	7.1	61.3	302.9	888.2	574.5	44.0	151.5	
1971	10.8	605.8	48.8	29.4	8.4	153.1	5.1	61.5	306.3	922.9	605.8	48.8	153.1	
1972	12.4	626.9	52.5	31.4	8.0	163.2	14.2	63.8	333.1	972.3	626.9	52.5	163.2	
1973	24.6	597.2	60.0	31.9	7.7	164.3	16.0	73.0	352.9	974.7	597.2	60.0	164.3	
1974	39.1	578.8	62.8	31.6	7.7	162.8	17.5	71.8	354.4	972.3	578.8	62.8	162.8	
1975	62.3	490.7	65.7	33.1	7.2	168.1	40.0	70.0	384.1	937.1	490.7	65.7	168.1	
1976	73.4	505.4	70.3	37.0	6.8	177.8	39.1	71.4	402.4	981.2	505.4	70.3	177.8	
1977	89.5	497.3	72.6	37.1	7.9	174.8	39.5	77.1	409.0	995.8	497.3	72.6	174.8	
1978	136.8	508.0	83.0	33.3	8.4	176.0	42.6	80.1	423.3	1,068.2	508.0	83.0	176.0	
1979	147.5	571.3	113.9	35.8	10.7	167.5	29.7	81.5	439.1	1,157.9	571.3	113.9	167.5	
1980	191.6	482.0	86.0	30.4	13.8	155.4	9.4	77.6	372.7	1,046.2	482.0	86.0	155.4	
1981	212.9	422.6	78.1	26.7	13.6	153.8	6.5	56.4	335.1	970.6	422.6	78.1	153.8	
1982	212.5	400.5	80.5	42.0	10.2	150.2	6.5	47.8	337.1	950.1	400.5	80.5	150.2	
1983	231.2	345.9	81.6	42.2	8.2	150.3	12.3	49.9	344.5	921.5	345.9	81.6	150.3	
1984	274.8	360.8	86.0	91.7	18.7	149.7	7.3	54.1	407.4	1,043.0	360.8	86.0	149.7	
1985	259.5	354.8	86.8	84.6	24.8	148.2	0.5	46.9	391.9	1,006.2	354.8	86.8	148.2	
1986	251.7	308.0	82.9	58.4	39.7	149.5	3.1	57.3	390.8	950.5	308.0	82.9	149.5	
1987	267.4	343.2	99.4	57.1	24.1	153.0	2.2	59.7	395.6	1,006.1	343.2	99.4	153.0	
1988	269.3	348.0	97.6	67.2	23.4	161.9	5.1	77.5	432.7	1,050.0	348.0	97.6	161.9	
1989	267.9	338.6	93.8	67.5	21.5	156.8	2.3	69.9	411.8	1,018.3	338.6	93.8	156.8	
1990	271.7	352.6	97.3	54.3	20.7	150.4	1.4	75.0	399.1	1,023.5	352.6	97.3	150.4	
1991	268.5	373.2	91.0	46.3	18.3	147.3	0.8	62.9	366.7	1,008.4	373.2	91.0	147.3	
1992	253.3	338.8	86.8	58.7	23.2	146.1	1.1	66.2	382.1	974.1	338.8	86.8	146.1	
1993	302.6	386.5	93.3	28.9	20.2	148.1	2.3	59.8	352.6	1,041.7	386.5	93.3	148.6	
1994	301.0	415.6	85.5	27.5	11.0	151.1	1.2	70.5	346.7	1,063.2	415.6	85.5	151.6	
1995	289.7	367.7	106.1	17.7	13.7	152.6	0.2	63.6	353.8	1,011.3	367.7	106.1	153.0	
1996	338.3	360.9	96.4	36.8	11.4	160.9	1.8	64.0	371.4	1,070.7	360.9	96.4	161.2	
1997	310.9	338.6	95.3	51.3	12.1	159.5	1.6	54.8	374.6	1,024.1	338.6	95.3	159.8	
1998	309.4	325.0	92.7	49.9	12.2	166.2	1.7	54.4	377.1	1,011.5	325.0	92.7	166.5	
1999	329.3	302.0	91.1	76.4	19.7	174.0	3.6	55.7	420.5	1,051.8	302.0	91.1	174.5	
2000	362.8	314.9	86.4	60.8	18.3	165.7	5.9	52.2	389.4	1,067.0	314.9	86.4	165.9	
2001	354.6	273.9	90.5	39.0	12.8	157.4	8.2	69.4	377.2	1,005.8	273.9	90.5	157.6	
2002	391.7	307.4	95.2	37.7	12.1	146.1	6.2	64.6	361.9	1,061.0	307.4	95.2	148.5	
2003	389.5	284.7	99.5	59.5	18.3	166.6	13.6	61.6	419.2	1,093.3	284.7	99.5	170.1	
2004	385.5	260.1	99.8	51.9	17.6	165.0	13.7	64.1	412.1	1,057.7	260.1	99.8	165.3	
2005	379.8	258.7	105.6	10.6	10.0	143.6	12.9	59.2	341.9	980.4	258.7	105.6	146.2	
2006	364.2	269.3	110.1	7.2	9.9	161.3	3.9	59.3	351.7	985.2	269.3	110.1	163.9	
2007	396.3	291.7	112.2	60.8	8.7	159.4	2.9	58.3	402.3	1,090.3	291.7	112.2	164.4	
2008	371.8	292.5	116.2	13.8	9.8	150.2	7.7	52.0	349.7	1,014.0	292.5	116.2	159.3	
2009	356.1	292.4	111.5	13.3	13.9	152.9	2.8	52.0	346.5	995.0	292.4	111.5	161.7	
2010	359.9	280.4	110.0	12.4	10.8	152.3	2.3	60.3	348.0	988.4	280.4	110.0	161.0	
2011	346.5	285.3	106.0	12.0	9.8	146.5	1.7	52.5	328.5	960.4	285.3	107.4	155.3	
2012	307.6	268.1	106.5	9.6	10.8	147.2	1.6	53.7	329.3	904.9	268.1	108.1	155.5	
2013	326.8	288.3	121.6	11.2	6.4	147.7	1.1	50.7	338.7	953.8	288.3	125.1	156.2	
2014	316.6	291.5	136.1	12.1	9.6	149.3	1.1	48.0	356.2	964.2	291.5	139.8	158.7	
2015	273.4	280.4	125.9	11.8	7.1	145.2	1.5	49.4	340.9	894.8	280.4	129.5	155.4	
2016	253.1	276.4	115.0	9.1	8.6	154.0	3.6	52.0	R 342.5	872.0	276.4	119.3	164.8	
2017	216.7	279.1	117.2	9.1	6.8	147.1	3.8	R 51.6	R 335.4	R 831.3	279.1	121.1	157.5	
2018	227.7	321.8	125.7	11.3	7.8	144.9	2.2	R 51.8	R 343.8	R 893.3	321.8	129.6	155.1	
2019	197.8	320.0	124.2	12.9	7.4	151.9	3.1	R 53.0	R 352.6	R 870.3	320.0	127.9	162.7	
2020	193.8	R 301.0	121.2	11.9	6.3	139.7	3.6	R 52.0	R 334.7	R 829.5	R 301.0	124.8	149.6	
2021	219.0	R 291.8	R 120.4	11.2	7.3	141.7	3.1	R 56.1	R 338.3	R 849.1	R 291.8	R 122.0	151.8	
2022	226.7	318.0	132.2	12.1	8.2	135.7	3.2	55.4	345.0	889.7	318.7	134.0	145.5	

^a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable energy."

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: · 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: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Kansas (continued)
(trillion Btu)

Year	Nuclear electric power	Hydro-electric power ^{e,f}	Renewable energy										Net interstate flow of electricity ^k	Electricity net imports ^l	Total ^f
			Biomass					Geo-thermal ^f	Solar ^{f,j}	Wind	Total ^f				
			Wood and waste ^{f,g}	Fuel ethanol ^h	Biodiesel	Renewable diesel	Losses and co-products ⁱ					Total ^f			
1960	0.0	R 0.1	3.9	NA	NA	NA	NA	3.9	0.0	NA	NA	R 4.0	R -25.4	0.0	R 620.4
1965	0.0	R (s)	3.4	NA	NA	NA	NA	3.4	0.0	NA	NA	R 3.4	R -26.7	0.0	R 709.6
1970	0.0	R (s)	3.7	NA	NA	NA	NA	3.7	0.0	NA	NA	R 3.7	R -35.1	0.0	R 856.7
1971	0.0	R (s)	3.9	NA	NA	NA	NA	3.9	0.0	NA	NA	R 3.9	R -37.0	0.0	R 889.7
1972	0.0	(s)	5.7	NA	NA	NA	NA	5.7	0.0	NA	NA	R 5.7	R -35.3	0.0	R 942.7
1973	0.0	(s)	6.0	NA	NA	NA	NA	6.0	0.0	NA	NA	R 6.0	R -32.8	0.0	R 947.9
1974	0.0	R (s)	5.8	NA	NA	NA	NA	5.8	0.0	NA	NA	R 5.9	R -39.4	0.0	R 938.7
1975	0.0	(s)	5.8	NA	NA	NA	NA	5.8	0.0	NA	NA	R 5.8	R -39.3	0.0	R 903.6
1976	0.0	R (s)	6.5	NA	NA	NA	NA	6.5	0.0	NA	NA	R 6.5	R -34.8	0.0	R 952.9
1977	0.0	(s)	6.8	NA	NA	NA	NA	6.8	0.0	NA	NA	R 6.8	R -36.8	0.0	R 965.8
1978	0.0	(s)	7.5	NA	NA	NA	NA	7.5	0.0	NA	NA	R 7.5	R -58.6	0.0	R 1,017.0
1979	0.0	(s)	7.9	NA	NA	NA	NA	7.9	0.0	NA	NA	R 7.9	R -53.2	0.0	R 1,112.5
1980	0.0	R (s)	9.0	NA	NA	NA	NA	9.0	0.0	NA	NA	R 9.0	R -53.6	0.0	R 1,001.6
1981	0.0	R (s)	8.1	0.1	NA	NA	0.2	8.4	0.0	NA	NA	R 8.4	R -51.2	0.0	R 927.8
1982	0.0	R (s)	9.7	0.1	NA	NA	0.6	10.3	0.0	NA	NA	R 10.3	R -38.7	0.0	R 921.8
1983	0.0	R (s)	9.0	0.5	NA	NA	1.1	10.6	0.0	NA	0.0	R 10.7	R -40.3	0.0	R 891.9
1984	0.0	R (s)	11.1	2.1	NA	NA	1.4	14.6	0.0	0.0	(s)	R 14.6	R -64.6	0.0	R 993.1
1985	41.0	R (s)	11.5	1.8	NA	NA	1.4	14.8	0.0	0.0	(s)	R 14.8	R -70.9	0.0	R 991.0
1986	73.6	R (s)	18.5	1.8	NA	NA	1.5	21.7	0.0	0.0	(s)	R 21.8	R -93.0	0.0	R 952.8
1987	67.6	R (s)	17.6	1.2	NA	NA	1.7	20.4	0.0	0.0	(s)	R 20.5	R -96.6	0.0	R 997.5
1988	70.5	R (s)	18.9	1.0	NA	NA	1.7	21.6	0.0	0.0	(s)	R 21.6	R -88.6	0.0	R 1,053.5
1989	102.8	R (s)	15.0	1.0	NA	NA	1.6	17.6	(s)	(s)	(s)	R 17.6	R -115.3	0.0	R 1,023.3
1990	83.3	R (s)	11.8	0.6	NA	NA	1.3	13.7	(s)	(s)	(s)	R 13.8	R -46.3	0.0	R 1,074.3
1991	61.4	R (s)	12.0	0.6	NA	NA	1.5	14.1	0.1	(s)	(s)	R 14.2	R -13.6	0.0	R 1,070.4
1992	88.9	R (s)	12.1	0.6	NA	NA	1.3	14.0	0.1	(s)	(s)	R 14.2	R -19.9	0.0	R 1,057.3
1993	83.0	R (s)	10.9	0.5	NA	NA	1.9	13.3	0.1	(s)	(s)	R 13.5	R -52.3	0.0	R 1,085.8
1994	89.1	R (s)	10.3	0.5	NA	NA	2.1	12.8	0.1	(s)	(s)	R 13.0	R -53.6	0.0	R 1,111.8
1995	105.7	R (s)	10.3	0.4	NA	NA	1.9	12.7	0.1	(s)	(s)	R 12.9	R -51.6	0.0	R 1,078.3
1996	86.2	R (s)	10.5	0.2	NA	NA	0.8	11.5	0.2	(s)	0.0	R 11.7	R -58.9	0.0	R 1,109.6
1997	88.5	R (s)	8.4	0.2	NA	NA	1.3	10.0	0.2	(s)	0.0	R 10.3	R -21.8	(s)	R 1,101.1
1998	109.2	R (s)	7.7	0.3	NA	NA	1.5	9.5	0.2	(s)	0.0	R 9.8	R -41.8	(s)	R 1,088.8
1999	95.7	R (s)	7.9	0.5	NA	NA	1.4	9.7	0.3	(s)	0.0	R 10.1	R -49.3	(s)	R 1,108.2
2000	94.5	R 0.1	7.6	0.2	NA	NA	1.6	9.5	0.3	(s)	0.0	R 9.8	R -55.3	0.0	R 1,116.0
2001	108.1	R 0.1	8.0	0.2	(s)	NA	1.8	10.0	0.3	(s)	R 0.1	R 10.5	R -60.8	0.0	R 1,063.5
2002	94.4	R (s)	8.1	2.4	(s)	NA	3.8	14.4	0.3	(s)	R 1.6	R 16.3	R -75.0	0.0	R 1,096.7
2003	92.6	R (s)	8.3	3.5	(s)	NA	5.9	17.7	0.4	(s)	R 1.2	R 19.4	R -67.4	0.0	R 1,137.9
2004	105.7	R (s)	8.4	0.3	0.1	NA	6.6	15.4	0.5	(s)	R 1.2	R 17.1	R -61.4	(s)	R 1,119.1
2005	92.1	R (s)	7.6	2.6	0.2	NA	7.7	18.1	0.5	(s)	R 1.5	R 20.1	R -28.3	(s)	R 1,064.3
2006	97.6	R (s)	4.7	2.6	0.6	NA	10.0	17.9	0.6	(s)	R 3.4	R 21.9	R -15.2	0.0	R 1,089.4
2007	108.8	R (s)	5.1	5.0	0.8	NA	13.1	24.0	0.6	(s)	R 3.9	R 28.7	R -76.7	(s)	R 1,151.0
2008	88.8	R (s)	5.6	9.1	0.6	NA	24.7	40.1	0.7	(s)	R 6.0	R 46.8	R -40.6	0.0	R 1,109.1
2009	91.7	R (s)	5.7	8.8	0.7	NA	22.6	37.8	0.8	(s)	R 9.8	R 48.4	R -63.1	(s)	R 1,072.1
2010	99.9	R (s)	6.9	8.7	0.6	NA	24.8	41.0	0.9	(s)	R 11.6	R 53.6	R -51.5	0.0	R 1,090.3
2011	76.6	R 0.1	8.8	8.8	1.9	0.0	24.7	44.2	1.0	(s)	R 12.7	R 57.9	R -19.9	0.0	R 1,074.9
2012	86.8	R (s)	7.6	8.3	1.9	0.0	21.7	39.5	1.0	(s)	R 17.7	R 58.3	R -12.8	0.0	R 1,037.2
2013	74.9	R (s)	8.5	8.5	3.5	0.0	21.4	41.8	1.0	R (s)	R 32.2	R 75.1	R -58.1	0.0	R 1,045.6
2014	89.5	R 0.1	8.5	9.3	3.5	0.0	26.2	47.5	1.0	R (s)	R 37.0	R 85.6	R -63.3	0.0	R 1,076.0
2015	90.3	R 0.1	7.2	10.2	2.9	0.0	25.9	46.2	1.0	R (s)	R 37.5	R 84.8	R -29.3	0.0	R 1,040.6
2016	86.2	R 0.1	6.4	10.7	3.9	0.0	26.4	47.5	1.0	0.1	R 48.1	R 96.8	R -37.2	0.0	R 1,017.8
2017	111.4	R 0.1	R 6.3	10.4	3.4	0.0	27.1	R 47.1	1.0	R 0.1	R 63.5	R 111.7	R -69.1	(s)	R 985.3
2018	95.9	R 0.1	R 8.1	10.1	3.2	0.0	27.9	R 49.3	1.0	R 0.1	R 64.5	R 115.0	R -60.4	0.0	R 1,043.7
2019	96.6	R 0.1	R 7.8	10.8	2.5	0.0	28.4	R 49.5	1.0	R 0.2	R 72.1	R 122.8	R -59.4	0.0	R 1,030.3
2020	110.5	R 0.1	R 6.3	9.9	3.3	0.0	28.2	R 47.6	1.0	R 0.4	R 81.8	R 130.8	R -100.2	0.0	R 970.7
2021	R 89.4	R 0.1	R 5.8	10.1	2.7	0.0	28.0	R 46.6	1.0	R 0.4	R 87.7	R 135.8	R -106.5	0.0	R 967.8
2022	93.7	0.1	6.7	9.8	3.0	0.0	30.2	49.6	1.0	0.6	101.3	152.5	-135.2	0.0	1,000.7

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

ⁱ Losses and co-products from the production of biodiesel and fuel ethanol.

^j Solar thermal and photovoltaic energy.

^k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

^l Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: - 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: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>