

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, Kansas

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum							Hydro-electric power ^{g,h} Million kilowatt-hours	Biomass			Solar ^{h,k} Million kilowatt-hours	Electricity ^l Million kilowatt-hours	End use ^{h,m}	Electrical system energy losses ⁿ	Total ^{h,m}
			Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total		Wood and waste ^{h,i}	Losses and co-products ^j	Geo-thermal ^h					
1960	240	279	4,629	5,590	952	23,712	2,161	9,602	46,647	0	--	--	--	7,019	--	--	--	
1970	114	408	7,375	8,009	1,561	28,849	743	10,093	56,629	0	--	--	--	13,864	--	--	--	
1980	336	387	14,382	8,404	2,466	29,584	1,006	12,696	68,539	0	--	--	--	21,840	--	--	--	
1990	157	326	16,567	15,565	3,701	28,626	208	12,171	76,838	0	--	--	--	27,149	--	--	--	
2000	145	279	14,580	17,401	3,234	31,894	404	8,446	75,959	0	--	--	--	35,921	--	--	--	
2005	205	241	18,012	2,768	1,758	28,162	333	9,620	60,653	0	--	--	--	39,024	--	--	--	
2006	237	242	18,847	1,875	1,752	31,603	619	9,633	64,330	0	--	--	--	39,751	--	--	--	
2007	241	261	19,297	17,592	1,543	31,979	464	9,130	80,004	0	--	--	--	40,166	--	--	--	
2008	162	256	20,013	3,651	1,735	31,204	1,220	8,244	66,067	0	--	--	--	39,965	--	--	--	
2009	105	255	19,385	3,541	2,447	31,768	445	8,216	65,801	0	--	--	--	38,243	--	--	--	
2010	111	247	19,049	3,229	1,906	31,771	361	9,573	65,888	0	--	--	--	40,421	--	--	--	
2011	104	249	18,533	3,117	1,730	30,677	274	8,515	62,846	0	--	--	--	40,760	--	--	--	
2012	88	230	18,659	2,503	1,900	30,718	250	8,734	62,763	0	--	--	--	40,293	--	--	--	
2013	85	260	21,601	2,925	1,124	30,874	176	8,262	64,961	0	--	--	--	39,847	--	--	--	
2014	121	266	24,147	3,143	1,690	31,364	180	7,816	68,341	0	--	--	--	40,562	--	--	--	
2015	115	256	22,371	3,074	1,245	30,729	243	8,050	65,711	0	--	--	--	39,849	--	--	--	
2016	104	247	20,652	2,368	1,521	32,595	574	R 8,267	R 65,979	0	--	--	--	40,810	--	--	--	
2017	112	249	20,920	2,363	1,197	31,162	600	R 8,238	R 64,481	0	--	--	--	40,288	--	--	--	
2018	117	282	22,380	2,952	1,367	30,685	358	R 8,251	R 65,992	0	--	--	--	42,037	--	--	--	
2019	80	279	22,033	3,362	1,299	32,208	497	R 8,479	R 67,877	0	--	--	--	41,160	--	--	--	
2020	56	267	R 21,506	3,097	1,115	29,618	569	R 8,315	R 64,220	0	--	--	--	39,484	--	--	--	
2021	57	260	R 20,805	2,925	1,295	30,057	493	R 8,965	R 64,539	0	--	--	--	40,492	--	--	--	
2022	86	278	23,013	3,151	1,441	28,820	505	8,849	65,779	0	--	--	--	41,961	--	--	--	

Trillion Btu

1960	5.4	288.6	27.0	21.4	5.1	124.6	13.6	58.7	250.3	0.0	3.9	NA	NA	NA	23.9	572.1	R 48.3	R 620.4
1970	2.4	407.0	43.0	30.4	8.6	151.5	4.7	61.3	299.5	0.0	3.7	NA	NA	NA	47.3	759.8	R 96.9	R 856.7
1980	7.2	385.0	83.8	30.4	13.8	155.4	6.3	77.6	367.3	0.0	9.0	NA	NA	NA	74.5	843.1	R 158.5	R 1,001.6
1990	3.8	325.5	96.5	54.3	20.7	150.4	1.3	75.0	398.2	0.0	11.8	1.3	(s)	(s)	92.6	833.9	R 240.4	R 1,074.3
2000	3.5	281.0	84.8	60.8	18.3	165.9	2.5	52.2	384.7	0.0	7.6	1.6	0.3	(s)	122.6	801.3	R 314.8	R 1,116.0
2005	5.0	244.5	104.8	10.6	10.0	146.2	2.1	59.2	332.9	0.0	7.6	7.7	0.5	(s)	133.2	731.5	R 332.8	R 1,064.3
2006	5.7	246.5	109.4	7.2	9.9	163.9	3.9	59.3	353.6	0.0	4.7	10.0	0.6	(s)	135.6	757.2	R 332.2	R 1,089.4
2007	5.8	265.6	111.6	60.8	8.7	164.4	2.9	56.1	404.6	0.0	5.1	13.1	0.6	(s)	137.0	832.7	R 318.3	R 1,151.0
2008	4.0	265.4	115.7	13.8	9.8	159.3	7.7	50.5	356.8	0.0	5.6	24.7	0.7	(s)	136.4	794.3	R 314.8	R 1,109.1
2009	2.5	259.9	112.0	13.3	13.9	161.7	2.8	50.5	354.2	0.0	5.7	22.6	0.8	(s)	130.5	776.2	R 296.1	R 1,072.3
2010	2.7	252.0	110.0	12.4	10.8	161.0	2.3	59.2	355.7	0.0	6.3	24.8	0.9	(s)	137.9	780.3	R 310.0	R 1,090.3
2011	2.5	254.3	106.9	12.0	9.8	155.3	1.7	52.2	337.9	0.0	8.1	24.7	1.0	(s)	139.1	767.6	R 306.9	R 1,074.5
2012	2.0	234.9	107.6	9.6	10.8	155.5	1.6	53.7	338.7	0.0	6.9	21.7	1.0	(s)	137.5	742.8	R 294.2	R 1,037.0
2013	2.0	264.6	124.5	11.2	6.4	156.2	1.1	50.7	350.1	0.0	7.6	21.4	1.0	R (s)	136.0	782.7	R 263.0	R 1,045.7
2014	2.9	272.7	139.2	12.1	9.6	158.7	1.1	48.0	368.6	0.0	7.7	26.2	1.0	R (s)	138.4	817.5	R 258.7	R 1,076.2
2015	2.8	265.2	128.9	11.8	7.1	155.4	1.5	49.4	354.1	0.0	R 6.5	25.9	1.0	R (s)	136.0	791.4	R 249.9	R 1,041.3
2016	2.3	255.3	118.9	9.1	8.6	164.8	3.6	52.0	357.0	0.0	5.7	26.4	1.0	0.1	139.2	787.0	R 231.1	R 1,018.1
2017	2.4	257.8	120.4	9.1	6.8	157.5	3.8	R 51.6	R 349.1	0.0	R 5.6	27.1	1.0	R 0.1	137.5	780.6	R 205.3	R 985.9
2018	2.5	292.6	128.9	11.3	7.8	155.1	2.2	R 51.8	R 357.1	0.0	7.3	27.9	1.0	R 0.1	143.4	R 831.9	R 212.4	R 1,044.3
2019	1.8	291.2	126.9	12.9	7.4	162.7	3.1	R 53.0	R 366.0	0.0	7.0	28.4	1.0	R 0.2	140.4	R 836.2	R 195.3	R 1,031.5
2020	1.2	R 276.4	123.8	11.9	6.3	149.6	3.6	R 52.0	R 347.2	0.0	R 5.5	28.2	1.0	R 0.2	134.7	R 794.4	R 176.6	R 971.0
2021	1.2	R 268.7	R 119.9	11.2	7.3	151.8	3.1	R 56.1	R 349.5	0.0	R 5.1	28.0	1.0	R 0.2	138.2	R 791.9	R 176.3	R 968.3
2022	1.8	287.5	132.7	12.1	8.2	145.5	3.2	55.4	357.0	0.0	6.0	30.2	1.0	0.3	143.2	826.4	174.9	1,001.3

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
^c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^d 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."
^e Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
^g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
ⁱ Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^j Losses and co-products from the production of biodiesel and fuel ethanol.
^k Solar thermal and photovoltaic energy.

^l Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^m Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.
ⁿ Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.
 -- = Not applicable. NA = Not available.
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
 Notes: · Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation 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: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>