

Table CT2. Primary energy consumption estimates, selected years, 1960-2022, South Dakota
(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	6.7	25.4	17.1	5.3	6.1	45.0	0.6	12.0	86.2	118.3	25.4	17.1	45.0	
1965	5.7	26.9	21.9	5.9	6.0	47.0	0.4	8.7	90.0	122.5	26.9	21.9	47.0	
1970	5.7	36.5	25.5	10.4	6.3	52.0	2.1	7.5	103.8	145.9	36.5	25.5	52.0	
1971	5.8	32.0	26.9	10.2	6.5	53.8	1.3	7.9	106.6	144.4	32.0	26.9	53.8	
1972	5.3	34.2	26.4	12.0	6.1	56.6	2.2	8.3	111.6	151.1	34.2	26.4	56.6	
1973	6.3	31.3	24.7	11.1	5.8	57.7	1.5	9.8	110.6	148.3	31.3	24.7	57.7	
1974	7.4	32.0	21.5	10.5	6.0	56.2	0.8	7.3	102.4	141.8	32.0	21.5	56.2	
1975	24.3	32.5	22.4	11.1	5.7	55.9	1.4	7.1	103.5	160.3	32.5	22.4	55.9	
1976	37.1	39.2	19.4	11.4	5.5	57.5	1.9	7.6	103.4	179.6	39.2	19.4	57.5	
1977	35.6	36.1	17.6	14.0	5.9	59.3	1.8	6.1	104.6	176.3	36.1	17.6	59.3	
1978	38.6	35.4	21.7	12.0	7.2	60.0	1.8	7.8	110.4	184.3	35.4	21.7	60.0	
1979	35.5	25.6	37.0	9.1	7.2	56.6	1.4	7.0	118.2	179.3	25.6	37.0	56.6	
1980	36.6	24.0	28.0	9.4	7.1	50.9	0.8	5.8	101.9	162.5	24.0	28.0	50.9	
1981	36.2	22.1	25.7	6.6	6.1	48.3	1.0	5.1	92.8	151.1	22.1	25.7	48.3	
1982	37.0	25.0	29.6	8.1	6.1	47.6	0.3	5.8	97.6	159.6	25.1	29.6	47.6	
1983	30.7	23.6	26.1	8.3	5.2	47.0	0.9	5.1	92.5	146.8	23.6	26.1	47.0	
1984	34.4	24.9	29.7	3.8	5.5	46.7	0.6	6.9	93.2	152.5	24.9	29.7	46.7	
1985	34.5	25.5	30.0	4.6	5.5	48.7	0.2	7.1	96.2	156.2	25.5	30.0	48.7	
1986	29.2	23.4	36.3	5.8	2.8	47.3	0.4	6.9	99.6	152.2	23.4	36.3	47.3	
1987	14.6	21.4	36.9	8.8	3.6	47.4	0.3	6.0	103.0	138.9	21.4	36.9	47.4	
1988	33.8	24.7	37.6	5.9	4.7	48.2	0.5	7.3	104.3	162.8	24.7	37.6	48.2	
1989	34.3	25.9	34.3	13.3	5.5	47.9	0.4	6.6	108.2	168.4	25.9	34.3	47.9	
1990	34.9	25.4	34.6	13.5	5.9	47.2	0.4	6.7	108.4	168.7	25.5	34.6	47.2	
1991	38.7	26.7	33.9	6.7	2.0	47.9	0.4	6.4	97.4	162.8	26.7	33.9	47.9	
1992	36.0	27.0	32.0	7.1	6.9	49.1	0.9	7.3	103.3	166.3	27.0	32.0	49.1	
1993	36.4	31.7	35.7	9.5	6.4	48.3	0.7	5.6	106.3	174.4	31.7	35.7	49.9	
1994	41.4	31.2	37.9	8.6	7.1	49.4	0.5	5.5	109.0	181.6	31.3	37.9	51.3	
1995	37.4	34.7	36.4	8.6	7.9	50.3	0.1	6.8	110.1	182.3	34.8	36.4	52.1	
1996	33.5	37.3	38.0	10.9	5.7	51.6	0.3	8.8	115.4	186.2	37.4	38.0	52.9	
1997	42.9	36.8	35.7	9.9	4.0	51.5	0.4	10.3	111.7	191.5	36.8	35.7	52.9	
1998	41.0	33.4	34.2	8.1	4.6	52.7	0.6	9.9	110.1	184.5	33.4	34.2	54.3	
1999	46.3	36.0	35.4	7.5	4.4	52.0	0.6	13.9	113.7	196.0	36.0	35.4	53.8	
2000	50.6	38.1	35.1	9.7	5.8	51.7	0.8	12.8	116.0	204.7	38.1	35.1	53.6	
2001	44.4	37.0	36.8	7.8	5.5	51.3	0.7	8.3	110.3	191.7	37.0	36.8	53.1	
2002	40.0	41.5	39.5	11.1	5.2	53.1	0.7	8.1	117.7	199.2	41.5	39.5	55.1	
2003	43.0	43.9	36.5	9.8	4.4	51.5	0.3	10.0	112.4	199.3	43.9	36.5	53.6	
2004	43.6	41.8	38.1	9.0	4.4	52.1	0.6	8.9	113.1	198.4	41.8	38.1	54.0	
2005	37.0	42.8	39.9	8.1	5.6	51.0	0.4	13.2	118.2	198.0	42.9	39.9	53.3	
2006	39.6	40.9	39.7	8.0	5.4	50.8	0.2	12.2	116.2	196.7	40.9	39.7	53.0	
2007	33.3	54.1	45.1	8.9	5.0	50.2	0.2	8.1	117.5	204.8	54.1	45.1	53.1	
2008	43.1	65.5	41.7	10.0	3.7	48.1	0.3	8.9	112.7	221.3	65.5	41.7	51.4	
2009	37.5	66.3	41.6	10.1	4.0	51.4	0.1	7.9	115.1	218.9	66.3	41.9	54.8	
2010	39.1	72.9	43.2	7.8	4.4	49.7	(s)	9.3	114.4	226.4	72.9	43.4	53.6	
2011	32.1	74.0	45.6	6.9	3.7	50.0	0.2	6.2	112.7	218.8	74.0	46.2	53.7	
2012	35.6	71.5	45.5	6.2	4.5	51.6	(s)	8.9	116.7	223.8	71.5	46.2	55.3	
2013	34.2	84.5	44.7	7.5	4.1	50.6	(s)	5.7	112.7	231.4	84.5	45.8	54.4	
2014	33.1	83.9	44.4	7.2	5.6	51.6	(s)	5.6	114.5	231.5	83.9	45.5	55.5	
2015	19.6	83.4	44.9	6.3	5.3	53.5	(s)	5.8	115.7	218.7	83.4	46.1	57.6	
2016	26.7	85.0	42.5	7.0	4.7	54.2	(s)	4.8	113.3	225.0	85.0	44.0	58.4	
2017	26.1	85.3	41.9	6.7	4.7	53.5	0.1	5.8	112.7	R 224.2	85.3	43.3	57.7	
2018	27.6	95.5	44.8	7.6	3.8	53.5	0.1	R 5.6	R 115.4	R 238.5	95.5	46.2	57.6	
2019	31.4	97.4	45.1	9.0	4.1	51.8	0.1	R 6.2	R 116.2	R 245.1	97.4	46.4	55.9	
2020	21.7	91.2	51.3	7.4	3.8	50.1	0.1	7.1	R 119.8	R 232.7	91.2	52.7	54.1	
2021	21.6	96.8	R 45.5	7.4	4.0	55.0	0.1	7.7	R 119.3	R 237.6	96.8	R 46.1	59.3	
2022	24.8	103.2	45.5	7.3	4.2	54.0	0.1	7.6	118.1	246.1	103.2	46.1	58.2	

^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, South Dakota (continued)
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Net interstate flow of electricity ^k	Electricity net imports ^l	Total ^f	
		Hydro-electric power ^{e,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 3.9	1.5	NA	NA	NA	NA	1.5	0.0	NA	NA	R 5.5	R 2.6	0.0	R 126.3	
1965	0.0	R 13.2	1.1	NA	NA	NA	NA	1.1	0.0	NA	NA	R 14.3	R (s)	0.0	R 136.8	
1970	0.0	R 22.4	1.1	NA	NA	NA	NA	1.1	0.0	NA	NA	R 23.6	R -4.5	0.0	R 165.0	
1971	0.0	R 26.5	1.1	NA	NA	NA	NA	1.1	0.0	NA	NA	R 27.6	R -5.8	0.0	R 166.1	
1972	0.0	R 25.4	1.2	NA	NA	NA	NA	1.2	0.0	NA	NA	R 26.6	R -2.6	0.0	R 175.1	
1973	0.0	R 16.5	1.3	NA	NA	NA	NA	1.3	0.0	NA	NA	R 17.8	R 6.8	0.0	R 172.8	
1974	0.0	R 19.3	1.3	NA	NA	NA	NA	1.3	0.0	NA	NA	R 20.6	R 5.7	0.0	R 168.0	
1975	0.0	R 27.0	1.5	NA	NA	NA	NA	1.5	0.0	NA	NA	R 28.5	R -12.1	0.0	R 176.8	
1976	0.0	R 24.1	1.7	NA	NA	NA	NA	1.7	0.0	NA	NA	R 25.7	R -14.8	0.0	R 190.5	
1977	0.0	R 18.1	1.9	NA	NA	NA	NA	1.9	0.0	NA	NA	R 20.0	R -3.3	0.0	R 193.0	
1978	0.0	R 23.3	2.0	NA	NA	NA	NA	2.0	0.0	NA	NA	R 25.3	R -8.9	0.0	R 200.8	
1979	0.0	R 21.7	2.0	NA	NA	NA	NA	2.0	0.0	NA	NA	R 23.7	R -3.1	0.0	R 199.9	
1980	0.0	R 19.9	3.3	NA	NA	NA	NA	3.3	0.0	NA	NA	R 23.2	R (s)	0.0	R 185.7	
1981	0.0	R 18.1	3.1	0.1	NA	NA	NA	0.0	0.0	NA	NA	R 21.3	R 1.8	0.0	R 174.2	
1982	0.0	R 18.5	3.5	0.1	NA	NA	NA	0.0	0.0	NA	NA	R 22.2	R 3.8	0.0	R 185.6	
1983	0.0	R 18.9	3.4	0.3	NA	NA	NA	0.0	0.0	NA	NA	R 22.6	R 9.9	0.0	R 179.2	
1984	0.0	R 19.5	4.0	0.3	NA	NA	NA	0.0	0.0	0.0	0.0	R 23.9	R 6.5	0.0	R 182.9	
1985	0.0	R 18.2	4.1	0.3	NA	NA	NA	0.0	0.0	0.0	0.0	R 22.7	R 10.7	0.0	R 189.6	
1986	0.0	R 19.6	4.1	0.5	NA	NA	NA	0.0	0.0	0.0	0.0	R 24.1	R 13.4	0.0	R 189.7	
1987	0.0	R 18.4	3.6	0.5	NA	NA	NA	0.0	0.0	0.0	0.0	R 22.5	R 29.4	0.0	R 190.7	
1988	0.0	R 18.0	3.8	0.5	NA	NA	NA	0.5	4.8	0.0	0.0	R 22.8	R 15.7	0.0	R 201.3	
1989	0.0	R 15.6	3.3	0.6	NA	NA	NA	0.5	4.4	0.1	(s)	0.0	R 20.1	R 21.0	0.0	R 209.5
1990	0.0	R 13.4	2.2	0.5	NA	NA	NA	0.5	3.2	0.2	(s)	0.0	R 16.8	R 6.9	0.0	R 192.4
1991	0.0	R 13.1	2.3	1.1	NA	NA	NA	0.5	3.9	0.2	(s)	0.0	R 17.2	R 9.5	0.0	R 189.4
1992	0.0	R 12.3	2.4	1.5	NA	NA	NA	0.5	4.4	0.2	(s)	0.0	R 16.9	R 11.1	0.0	R 194.3
1993	0.0	R 8.8	2.1	1.6	NA	NA	NA	0.5	4.3	0.2	(s)	0.0	R 13.3	R 26.6	0.0	R 214.3
1994	0.0	R 17.5	2.1	1.9	NA	NA	NA	0.8	4.8	0.2	(s)	0.0	R 22.5	R 0.6	0.0	R 204.7
1995	0.0	R 20.5	2.1	1.8	NA	NA	NA	0.8	4.7	0.2	(s)	0.0	R 25.4	R -3.1	0.0	R 204.6
1996	0.0	R 27.2	2.2	1.2	NA	NA	NA	0.8	4.2	0.3	(s)	0.0	R 31.7	R -8.3	0.0	R 209.7
1997	0.0	R 30.7	1.9	1.4	NA	NA	NA	0.7	4.0	0.3	(s)	0.0	R 35.0	R -22.5	0.3	R 204.3
1998	0.0	R 19.6	1.6	1.6	NA	NA	NA	0.9	4.1	0.4	(s)	0.0	R 24.2	R -2.2	-0.1	R 206.4
1999	0.0	R 22.8	1.7	1.8	NA	NA	NA	0.9	4.4	0.4	(s)	0.0	R 27.6	R -12.3	0.8	R 212.1
2000	0.0	R 19.5	1.8	1.9	NA	NA	NA	1.0	4.7	0.4	(s)	0.0	R 24.6	R -3.0	(s)	R 226.4
2001	0.0	R 11.7	1.8	1.8	(s)	NA	NA	1.5	5.1	0.5	(s)	(s)	R 17.3	R 22.5	(s)	R 231.5
2002	0.0	R 14.9	1.7	2.1	(s)	NA	NA	3.7	7.4	0.5	(s)	R (s)	R 22.8	R 22.7	(s)	R 244.6
2003	0.0	R 14.6	1.8	2.0	(s)	NA	NA	9.0	12.8	0.6	(s)	R 0.2	R 28.2	R 22.2	0.0	R 249.7
2004	0.0	R 12.3	1.8	1.9	(s)	NA	NA	18.2	21.9	0.7	(s)	R 0.5	R 35.5	R 29.0	(s)	R 262.9
2005	0.0	R 10.5	1.5	2.3	0.1	NA	NA	24.4	28.4	0.8	(s)	R 0.5	R 40.2	R 45.2	(s)	R 283.4
2006	0.0	R 11.6	1.4	2.2	0.2	NA	NA	31.6	35.5	0.9	(s)	R 0.5	R 48.4	R 41.5	0.0	R 286.6
2007	0.0	R 10.0	1.5	2.9	0.3	NA	NA	33.6	38.3	0.9	(s)	R 0.5	R 49.7	R 54.2	(s)	R 308.8
2008	0.0	R 10.2	1.7	3.3	0.3	NA	NA	44.4	49.6	1.5	(s)	R 0.5	R 61.8	R 47.9	0.0	R 331.0
2009	0.0	R 15.1	2.1	3.4	0.3	NA	NA	51.3	57.2	1.6	(s)	R 1.4	R 75.3	R 36.3	(s)	R 330.5
2010	0.0	R 17.9	2.3	3.9	0.2	NA	NA	56.3	62.7	1.7	(s)	R 4.7	R 87.0	R 21.1	0.0	R 334.5
2011	0.0	R 22.5	2.6	3.7	0.8	0.0	0.0	55.1	62.3	2.0	(s)	R 9.1	R 95.9	R 4.6	(s)	R 319.3
2012	0.0	R 20.4	2.3	3.8	0.8	0.0	0.0	52.7	59.6	1.9	(s)	R 8.0	R 89.9	R 10.4	0.0	R 324.1
2013	0.0	R 13.9	2.8	3.8	1.3	0.0	0.0	54.8	62.7	1.9	(s)	R 9.2	R 87.6	R 28.1	0.0	R 347.2
2014	0.0	R 18.8	2.8	3.9	1.1	0.0	0.0	55.9	63.8	1.9	(s)	R 8.0	R 92.4	R 20.6	0.0	R 344.5
2015	0.0	R 16.5	3.0	4.1	1.0	0.0	0.0	59.6	67.7	1.9	(s)	R 8.5	R 94.7	R 30.8	0.0	R 344.1
2016	0.0	R 16.4	2.7	4.2	1.4	0.0	0.0	60.2	68.5	1.9	(s)	R 12.7	R 99.5	R 12.8	0.0	R 337.2
2017	0.0	R 17.9	2.7	4.1	1.2	0.0	0.0	62.8	70.7	1.9	(s)	R 10.1	R 100.7	R 19.4	0.0	R 344.2
2018	0.0	R 21.4	3.8	4.1	1.1	0.0	0.0	64.5	73.5	1.9	(s)	R 9.7	R 106.4	R 8.8	0.0	R 353.8
2019	0.0	R 27.0	3.3	4.0	0.9	0.0	0.0	63.8	72.1	1.9	(s)	R 9.5	R 110.5	R -4.8	0.0	R 350.8
2020	0.0	R 19.9	R 2.8	3.9	1.4	0.0	0.0	61.0	R 69.1	1.9	(s)	R 18.9	R 109.8	R -3.7	0.0	R 338.8
2021	0.0	R 17.0	R 3.0	4.3	1.0	0.0	0.0	68.3	R 76.6	1.9	(s)	R 31.8	R 127.3	R -16.9	0.0	R 348.0
2022	0.0	14.5	3.9	4.3	1.0	0.0	0.0	69.3	78.5	1.9	(s)	35.1	130.0	-17.8	0.0	358.4

^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/>