

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

Year	Fossil fuels										Fossil fuels (as commingled)		
	Coal	Natural gas excluding supplemental gaseous fuels ^a	Distillate fuel oil excluding biofuels ^a	Petroleum					Total	Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
				HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d					
1960	30.5	27.4	22.0	4.6	11.3	40.5	4.3	18.9	101.6	159.5	27.4	22.0	40.5
1965	24.7	32.4	30.1	4.4	11.1	43.1	5.5	12.7	106.9	164.1	32.4	30.1	43.1
1970	57.5	33.7	29.0	6.6	11.2	46.0	4.6	18.0	115.4	206.6	33.7	29.0	46.0
1971	67.7	34.6	28.7	6.5	12.0	48.2	4.1	19.9	119.5	221.8	34.6	28.7	48.2
1972	72.8	37.6	30.3	7.0	11.0	50.3	4.9	16.7	120.2	230.6	37.6	30.3	50.3
1973	71.1	33.2	27.7	6.1	10.0	52.5	5.7	18.9	120.9	225.2	33.2	27.7	52.5
1974	76.5	35.5	25.7	6.0	10.5	50.6	7.4	17.4	117.6	229.6	35.5	25.7	50.6
1975	67.9	36.9	25.9	6.0	10.0	52.8	6.8	15.4	116.9	221.7	36.9	25.9	52.8
1976	91.5	41.2	23.8	6.3	9.7	54.7	6.5	15.5	116.5	249.2	41.2	23.8	54.7
1977	107.3	37.6	23.9	6.0	10.3	54.8	6.0	14.1	115.1	260.1	37.6	23.9	54.8
1978	129.8	39.1	24.6	7.4	9.9	56.6	5.7	16.3	120.6	289.4	39.1	24.6	56.6
1979	148.1	29.2	48.5	6.3	9.9	51.5	5.7	14.4	136.2	313.5	29.2	48.5	51.5
1980	163.3	23.8	47.4	4.8	9.2	48.2	4.5	12.8	126.8	314.0	24.0	47.4	48.2
1981	172.4	35.5	44.8	5.4	8.8	50.0	7.0	10.5	126.6	334.4	35.9	44.8	50.0
1982	198.9	29.0	42.2	5.2	8.5	49.1	7.1	10.6	122.8	350.7	29.1	42.2	49.1
1983	213.4	27.3	40.0	5.3	8.1	47.4	9.5	14.0	124.2	364.9	27.3	40.0	47.4
1984	256.7	22.9	45.1	1.7	9.2	46.6	6.3	13.6	122.5	402.0	31.6	45.1	46.6
1985	302.0	25.6	44.5	2.0	9.1	46.3	3.2	13.1	118.2	445.7	29.8	44.5	46.3
1986	310.9	21.4	44.0	6.3	8.9	45.1	2.4	12.4	119.0	451.2	26.6	44.0	45.1
1987	319.3	20.6	41.8	6.5	6.8	46.4	2.2	13.1	116.7	456.7	26.0	41.8	46.4
1988	369.8	25.0	40.4	5.9	7.1	45.1	2.2	14.5	115.2	510.0	30.2	40.4	45.1
1989	363.8	25.9	44.0	6.5	7.2	44.1	1.8	14.4	118.0	507.8	31.6	44.0	44.1
1990	374.5	28.0	42.1	5.2	6.4	42.8	2.1	13.5	112.1	514.6	33.5	42.1	42.8
1991	378.9	36.1	43.0	7.4	5.2	43.4	1.9	12.3	113.2	528.3	41.6	43.0	43.4
1992	399.2	32.1	40.3	6.6	7.6	43.3	1.8	18.0	117.6	548.9	38.3	40.3	43.3
1993	399.9	36.3	42.9	5.1	6.8	43.7	2.5	14.1	115.1	551.3	42.4	42.9	44.3
1994	402.5	39.3	45.0	4.9	4.6	43.1	2.1	16.6	116.4	558.1	45.4	45.0	43.7
1995	399.8	41.7	46.6	6.4	1.9	44.4	1.0	13.3	113.7	555.1	47.7	46.6	45.0
1996	404.0	45.7	48.5	8.1	1.4	44.8	0.9	14.9	118.6	568.2	51.6	48.5	45.2
1997	386.0	53.7	46.8	9.4	1.1	44.5	1.2	17.0	119.9	559.6	59.3	46.8	44.9
1998	409.2	45.8	41.8	7.3	1.2	44.8	0.3	17.4	112.8	567.8	51.4	41.8	45.2
1999	411.3	53.4	43.9	9.9	2.3	44.9	0.4	22.0	123.4	588.1	59.0	43.9	45.3
2000	424.6	53.4	45.4	12.3	2.3	43.8	0.5	15.0	119.3	597.3	58.5	45.4	44.3
2001	420.0	57.3	51.6	19.6	4.3	43.5	0.4	17.8	137.2	614.5	62.6	51.6	44.1
2002	422.8	61.6	47.7	12.6	3.0	43.7	0.6	15.9	123.5	607.9	66.9	47.7	44.5
2003	420.8	56.1	49.7	10.4	3.2	44.1	0.9	13.4	121.7	598.6	61.5	49.7	45.1
2004	398.4	56.4	54.7	12.2	6.2	43.9	0.4	15.7	133.0	587.8	61.2	54.7	44.7
2005	431.1	49.6	57.0	12.5	3.7	43.4	1.6	18.4	136.5	617.3	55.0	57.0	45.3
2006	414.8	50.0	57.8	10.2	4.2	42.1	0.7	21.6	136.5	601.4	55.7	57.8	43.8
2007	420.7	56.8	69.0	11.1	4.0	42.3	0.6	13.0	140.0	617.5	62.2	69.0	44.5
2008	424.6	60.5	68.7	10.6	3.5	41.8	0.6	11.9	137.1	622.2	65.7	68.7	44.4
2009	423.3	51.9	55.5	10.9	3.9	42.6	0.4	14.5	127.7	602.9	57.6	55.8	45.4
2010	409.7	64.3	74.6	9.8	4.4	43.4	0.3	15.8	148.3	622.2	70.0	74.9	46.8
2011	394.8	72.2	104.1	9.7	4.7	46.0	0.4	19.9	184.8	651.8	77.8	105.0	49.4
2012	406.3	71.9	119.1	9.1	4.1	48.6	0.1	18.2	199.2	677.4	77.5	120.2	52.2
2013	393.2	82.3	131.4	12.8	5.0	50.5	(s)	22.5	222.2	697.7	87.2	133.6	54.3
2014	399.2	89.1	145.0	11.9	4.5	52.7	(s)	22.2	236.3	724.6	94.4	147.3	56.6
2015	408.1	100.9	105.2	10.7	5.7	52.5	(s)	19.6	193.7	702.7	106.1	107.3	56.5
2016	394.6	105.6	82.3	10.2	4.7	49.6	0.0	17.7	164.6	664.8	110.8	84.6	53.4
2017	397.9	112.1	99.4	11.6	4.3	48.9	0.0	R 19.5	R 183.8	R 693.8	118.2	101.8	52.7
2018	407.3	130.1	106.4	11.0	4.6	49.0	0.0	R 18.6	R 189.7	R 727.1	136.4	108.8	52.7
2019	372.0	157.4	102.2	15.0	4.4	49.1	0.0	R 17.3	R 188.0	R 717.5	163.0	104.3	53.0
2020	363.3	R 182.6	R 86.8	11.9	4.5	43.6	0.0	R 16.5	R 163.3	R 709.2	R 188.2	R 88.8	47.0
2021	361.8	R 191.2	R 90.5	11.3	4.6	45.9	0.0	R 17.4	R 168.3	R 721.3	R 196.7	R 91.2	49.4
2022	369.3	193.2	92.6	11.2	4.6	45.1	0.0	17.3	169.6	732.2	198.6	93.4	48.6

^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, North 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 3.6	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 4.1	R -6.0	0.0	R 157.6
1965	0.0	R 8.5	0.3	NA	NA	NA	NA	0.3	0.0	NA	NA	R 8.9	R -5.8	(s)	R 167.1
1970	0.0	R 9.6	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 10.0	R -30.0	1.0	R 187.6
1971	0.0	R 11.0	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 11.4	R -44.1	2.3	R 191.5
1972	0.0	R 10.6	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 10.9	R -44.7	2.9	R 199.7
1973	0.0	R 8.1	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 8.5	R -38.9	3.4	R 198.1
1974	0.0	R 9.3	0.4	NA	NA	NA	NA	0.4	0.0	NA	NA	R 9.7	R -44.3	4.6	R 199.6
1975	0.0	R 11.4	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 11.9	R -35.6	4.0	R 202.0
1976	0.0	R 11.2	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 11.6	R -56.2	1.5	R 206.1
1977	0.0	R 6.8	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 7.3	R -59.0	-1.5	R 206.9
1978	0.0	R 10.4	0.5	NA	NA	NA	NA	0.5	0.0	NA	NA	R 10.9	R -82.6	7.4	R 225.2
1979	0.0	R 9.3	0.6	NA	NA	NA	NA	0.6	0.0	NA	NA	R 9.9	R -101.6	11.2	R 233.0
1980	0.0	R 8.6	2.4	NA	NA	NA	NA	2.4	0.0	NA	NA	R 11.0	R -117.2	9.7	R 217.5
1981	0.0	R 7.7	2.2	0.1	NA	NA	0.1	2.5	0.0	NA	NA	R 10.1	R -123.6	10.3	R 231.3
1982	0.0	R 8.7	2.6	0.1	NA	NA	0.5	3.2	0.0	NA	NA	R 11.9	R -150.0	15.7	R 228.3
1983	0.0	R 8.1	2.4	(s)	NA	NA	0.9	3.4	0.0	NA	0.0	R 11.5	R -171.7	19.3	R 224.0
1984	0.0	R 8.1	3.0	(s)	NA	NA	1.1	4.2	0.0	0.0	0.0	R 12.2	R -177.7	16.2	R 252.7
1985	0.0	R 7.4	3.1	0.2	NA	NA	1.2	4.5	0.0	0.0	(s)	R 11.9	R -172.4	9.0	R 294.2
1986	0.0	R 7.9	3.0	0.5	NA	NA	1.2	4.7	0.0	0.0	(s)	R 12.7	R -169.5	3.3	R 297.8
1987	0.0	R 6.8	2.5	0.5	NA	NA	1.3	4.4	0.0	0.0	(s)	R 11.2	R -174.5	4.7	R 298.0
1988	0.0	R 6.4	2.7	0.4	NA	NA	1.3	4.4	0.0	0.0	0.0	R 10.8	R -220.1	1.3	R 302.1
1989	0.0	R 6.5	2.8	0.4	NA	NA	1.2	4.4	0.1	(s)	0.0	R 10.9	R -205.1	0.2	R 313.7
1990	0.0	R 5.8	1.9	0.3	NA	NA	1.0	3.3	0.1	(s)	0.0	R 9.2	R -214.1	0.1	R 309.7
1991	0.0	R 6.0	2.0	0.4	NA	NA	1.2	3.7	0.1	(s)	0.0	R 9.8	R -219.1	0.6	R 319.6
1992	0.0	R 5.8	2.1	0.5	NA	NA	1.1	3.7	0.1	(s)	0.0	R 9.6	R -234.6	2.3	R 326.2
1993	0.0	R 4.8	1.8	0.5	NA	NA	1.2	3.5	0.1	(s)	0.0	R 8.5	R -233.8	3.6	R 329.6
1994	0.0	R 6.3	2.3	0.6	NA	NA	1.3	4.2	0.1	(s)	0.0	R 10.7	R -233.5	3.3	R 338.6
1995	0.0	R 8.4	2.6	0.6	NA	NA	1.3	4.4	0.1	(s)	0.0	R 13.0	R -225.0	2.5	R 345.5
1996	0.0	R 10.8	2.4	0.4	NA	NA	0.5	3.4	0.2	(s)	0.0	R 14.3	R -238.1	3.0	R 347.3
1997	0.0	R 11.3	2.3	0.4	NA	NA	0.9	3.6	0.2	(s)	0.0	R 15.1	R -221.8	0.4	R 353.3
1998	0.0	R 7.8	2.2	0.4	NA	NA	1.1	3.7	0.2	(s)	0.0	R 11.7	R -235.4	-0.7	R 343.4
1999	0.0	R 8.9	2.3	0.4	NA	NA	1.0	3.8	0.2	(s)	0.0	R 12.9	R -230.3	-0.5	R 370.2
2000	0.0	R 7.2	2.5	0.5	NA	NA	1.2	4.3	0.2	(s)	0.0	R 11.7	R -234.1	2.2	R 377.2
2001	0.0	R 4.5	3.5	0.6	(s)	NA	1.3	5.5	0.3	(s)	0.0	R 10.3	R -222.4	1.9	R 404.3
2002	0.0	R 5.4	2.6	0.8	(s)	NA	1.8	5.3	0.3	(s)	0.0	R 11.0	R -221.9	0.6	R 397.6
2003	0.0	R 5.9	2.7	0.9	(s)	NA	2.1	5.8	0.4	(s)	R 0.2	R 12.2	R -212.8	-1.4	R 396.6
2004	0.0	R 5.3	3.3	0.8	0.1	NA	1.9	6.1	0.4	(s)	R 0.7	R 12.5	R -200.5	0.4	R 400.2
2005	0.0	R 4.6	2.9	1.8	0.2	NA	1.8	6.8	0.5	(s)	R 0.8	R 12.6	R -230.0	5.8	R 405.7
2006	0.0	R 5.2	2.4	1.8	0.5	NA	1.8	6.5	0.5	(s)	R 1.3	R 13.5	R -206.0	2.6	R 411.5
2007	0.0	R 4.5	2.0	2.2	0.7	NA	7.8	12.7	0.6	(s)	R 2.1	R 19.9	R -208.7	4.5	R 433.3
2008	0.0	R 4.3	1.9	2.6	0.6	NA	8.6	13.8	0.7	(s)	R 5.8	R 24.5	R -212.4	2.8	R 437.1
2009	0.0	R 5.0	2.0	2.8	0.7	NA	14.4	19.8	0.8	(s)	R 10.2	R 35.9	R -216.5	2.5	R 424.8
2010	0.0	R 7.0	2.1	3.4	0.5	NA	17.1	23.2	0.9	(s)	R 14.0	R 45.1	R -211.7	3.8	R 459.5
2011	0.0	R 8.8	2.9	3.4	1.9	0.0	17.7	25.8	1.0	(s)	R 17.9	R 53.5	R -202.7	4.4	R 507.1
2012	0.0	R 8.5	2.4	3.6	2.1	0.0	16.6	24.8	1.0	(s)	R 18.0	R 52.2	R -203.4	4.6	R 530.8
2013	0.0	R 6.3	2.8	3.8	3.7	0.0	16.6	26.9	1.0	(s)	R 18.8	R 53.1	R -184.4	6.3	R 572.7
2014	0.0	R 8.6	2.9	3.9	3.7	0.0	16.7	27.2	1.0	(s)	R 21.2	R 58.0	R -172.8	5.8	R 615.6
2015	0.0	R 7.1	2.8	4.0	2.4	0.0	19.4	28.7	1.0	(s)	R 22.2	R 59.0	R -184.1	6.8	R 584.3
2016	0.0	R 6.5	2.9	3.8	2.8	0.0	22.2	31.7	1.0	(s)	R 27.9	R 67.1	R -183.0	7.0	R 555.9
2017	0.0	R 8.8	2.7	3.8	2.8	0.0	27.3	36.6	1.0	(s)	R 38.8	R 85.1	R -190.7	7.3	R 595.6
2018	0.0	R 10.9	1.9	3.8	2.7	0.0	27.4	35.7	1.0	(s)	R 36.6	R 84.1	R -190.1	3.5	R 624.5
2019	0.0	R 10.8	1.9	3.8	2.1	0.0	27.6	R 35.3	1.0	(s)	R 38.3	R 85.4	R -163.0	1.2	R 641.1
2020	0.0	R 8.4	R 1.7	3.4	2.3	0.0	27.2	R 34.6	1.0	(s)	R 46.5	R 90.5	R -207.3	27.2	R 619.6
2021	0.0	R 6.8	R 1.7	3.6	2.0	0.0	27.4	R 34.7	1.0	(s)	R 51.0	R 93.5	R -164.8	3.9	R 653.8
2022	0.0	6.1	2.0	3.6	2.1	0.0	27.6	35.2	1.0	(s)	55.4	97.8	-176.0	16.6	670.6

^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/>