

**MINNESOTA**  
**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2019, Minnesota**  
 (Trillion Btu)

Year	Fossil Fuels										Fossil Fuels (as commingled)			
	Coal	Natural Gas excluding Supplemental Gaseous Fuels <sup>a</sup>	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels <sup>a</sup>	Distillate Fuel Oil including Biodiesel <sup>a</sup>	Motor Gasoline including Fuel Ethanol <sup>a</sup>
			Distillate Fuel Oil excluding Biodiesel <sup>a</sup>	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Motor Gasoline excluding Fuel Ethanol <sup>a</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total					
1960	131.3	186.1	94.1	17.3	2.6	171.2	41.9	54.3	381.3	698.7	186.1	94.1	171.2	
1965	160.0	248.2	110.4	22.2	14.8	185.3	31.3	60.1	424.1	832.3	248.2	110.4	185.3	
1970	179.7	343.0	130.2	33.9	19.7	231.8	32.4	64.4	512.5	1,035.2	343.0	130.2	231.8	
1971	155.6	352.1	138.7	36.0	22.5	240.9	26.0	63.7	527.8	1,035.6	352.1	138.7	240.9	
1972	161.6	352.1	151.5	39.7	25.6	250.7	44.7	70.8	583.1	1,096.7	352.1	151.5	250.7	
1973	180.7	360.5	155.7	37.3	29.3	258.2	44.2	77.7	602.6	1,143.8	360.5	155.7	258.2	
1974	188.7	352.0	145.7	35.1	31.4	251.8	37.0	74.6	575.6	1,116.2	352.0	145.7	251.8	
1975	191.5	331.5	141.9	34.7	31.9	253.5	27.2	67.6	556.8	1,079.8	331.5	141.9	253.5	
1976	222.4	319.5	165.2	33.2	30.1	262.3	35.4	73.0	599.2	1,141.2	319.5	165.2	262.3	
1977	264.9	292.5	157.1	31.3	29.8	267.5	28.2	70.9	584.8	1,142.3	292.5	157.1	267.5	
1978	255.7	312.2	167.1	27.4	28.8	278.1	27.6	72.1	601.1	1,169.1	312.2	167.1	278.1	
1979	229.5	332.6	157.4	31.3	31.9	265.1	16.6	65.6	567.9	1,130.0	332.6	157.4	265.1	
1980	242.4	284.9	124.5	28.2	29.1	242.7	20.0	53.7	498.3	1,025.7	284.9	124.5	242.7	
1981	244.2	264.8	108.9	21.9	25.5	236.5	9.9	47.4	450.2	959.2	264.8	108.9	236.5	
1982	212.5	263.0	121.7	27.2	24.1	235.7	10.6	47.9	467.3	942.8	263.0	121.7	235.7	
1983	211.2	246.3	101.3	27.5	22.9	242.0	9.9	57.4	460.8	918.3	246.3	101.3	242.0	
1984	231.4	256.4	111.2	18.3	41.5	252.4	7.0	58.6	489.0	976.8	256.4	111.2	252.4	
1985	226.1	258.5	115.9	19.5	44.1	237.9	5.4	58.9	481.7	966.3	258.5	115.9	237.9	
1986	201.4	244.5	112.3	23.1	44.2	240.5	11.3	62.9	494.2	940.1	244.5	112.3	240.5	
1987	256.0	239.7	112.5	20.1	32.0	247.0	7.6	68.1	487.3	983.0	239.7	112.5	247.0	
1988	303.6	285.4	119.4	20.8	29.1	256.4	8.0	67.7	501.5	1,090.5	285.4	119.4	256.4	
1989	324.9	301.4	119.9	22.7	26.4	255.2	6.7	72.9	503.8	1,130.0	301.4	119.9	255.2	
1990	325.5	291.8	114.0	21.9	28.9	250.9	6.0	81.1	502.9	1,120.1	291.8	114.0	250.9	
1991	301.5	318.2	122.9	24.2	28.2	255.2	6.6	72.4	509.4	1,129.1	318.2	122.9	255.2	
1992	300.8	312.2	123.9	29.3	37.5	261.0	7.4	79.5	538.6	1,151.5	312.2	123.9	261.0	
1993	325.9	331.5	121.1	32.8	53.5	256.7	7.8	75.5	547.2	1,204.6	331.5	121.1	267.9	
1994	332.8	327.1	128.2	34.7	55.4	261.1	6.8	78.6	565.0	1,224.9	327.1	128.2	273.9	
1995	338.0	357.5	134.1	35.8	56.5	268.8	4.1	86.6	585.9	1,281.4	357.5	134.1	282.6	
1996	354.6	374.3	139.8	44.2	60.2	275.4	4.9	97.0	621.5	1,350.4	374.3	139.8	285.9	
1997	341.6	360.3	138.3	38.1	61.8	274.5	4.4	97.9	614.8	1,316.7	360.3	138.3	290.2	
1998	357.0	337.1	143.2	27.4	60.7	284.8	3.2	94.0	613.3	1,307.4	337.1	143.2	302.3	
1999	341.5	351.1	139.2	32.2	71.4	292.5	3.5	102.2	641.0	1,333.6	351.1	139.2	311.6	
2000	373.8	367.4	144.6	36.4	75.4	298.5	5.8	96.8	657.5	1,398.6	367.4	144.6	317.9	
2001	353.3	344.9	145.4	33.1	65.7	303.9	7.2	96.8	652.1	1,350.3	344.9	145.4	323.7	
2002	360.8	374.2	143.4	41.0	62.7	308.7	6.2	88.6	650.6	1,385.6	374.2	143.4	330.2	
2003	390.7	374.2	147.4	40.2	67.9	312.6	6.7	96.5	671.2	1,436.1	374.2	147.4	335.9	
2004	378.8	362.3	153.9	42.6	70.9	314.5	9.2	96.9	688.0	1,429.1	362.3	153.9	336.7	
2005	379.1	372.1	153.8	40.8	71.8	318.5	10.7	105.3	700.9	1,452.1	372.1	153.8	335.9	
2006	370.8	358.2	151.1	37.8	66.8	318.1	5.3	101.9	680.9	1,410.0	358.2	151.1	334.1	
2007	366.2	395.7	158.1	37.9	63.9	312.0	8.5	98.5	679.0	1,440.8	395.7	158.1	332.3	
2008	359.4	435.1	153.5	35.7	58.1	299.6	12.9	83.8	643.5	1,438.0	435.1	153.5	321.2	
2009	328.7	405.5	131.4	38.4	52.2	290.5	4.3	75.6	592.4	1,326.6	405.5	131.4	311.7	
2010	315.4	427.2	143.8	31.2	R 51.6	284.9	3.7	77.0	R 592.2	R 1,334.8	427.2	143.8	312.1	
2011	315.6	425.0	146.2	30.6	R 49.5	273.0	3.3	76.5	R 578.9	R 1,319.5	425.0	146.2	297.4	
2012	257.9	430.3	147.0	28.2	R 48.5	282.0	0.8	77.4	R 583.9	R 1,272.1	430.3	147.0	307.3	
2013	267.7	478.6	150.2	37.2	R 54.9	280.8	0.6	77.6	R 601.3	R 1,347.6	478.6	150.2	306.5	
2014	313.1	490.1	151.7	43.4	R 51.8	281.1	0.4	72.7	R 601.1	R 1,404.3	490.1	151.7	306.7	
2015	271.6	448.6	138.4	34.7	R 54.1	288.2	0.6	76.7	R 592.7	R 1,312.8	448.6	138.4	315.3	
2016	261.2	466.4	149.6	34.7	R 55.5	295.9	0.8	79.9	R 616.3	R 1,343.9	466.4	149.6	323.5	
2017	257.6	466.9	150.0	40.6	R 57.3	293.3	0.1	R 68.4	R 609.8	R 1,334.3	466.9	150.0	320.9	
2018	261.5	R 514.2	157.4	45.5	R 55.1	286.9	0.1	R 72.2	R 617.2	R 1,392.9	R 514.2	157.4	313.7	
2019	205.1	549.1	159.4	51.1	57.2	284.9	0.3	75.7	628.6	1,382.8	549.1	159.4	312.0	

<sup>a</sup> 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."

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> 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."

<sup>d</sup> 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2019, Minnesota (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	Losses and Co-products i	Total f								
1960	0.0	9.5	25.4	NA	NA	NA	25.4	0.0	NA	NA	35.0	-10.9	0.3	723.0	
1965	1.7	11.4	23.4	NA	NA	NA	23.4	0.0	NA	NA	34.8	-3.9	0.4	865.3	
1970	0.0	9.4	23.4	NA	NA	NA	23.4	0.0	NA	NA	32.8	39.4	0.4	1,107.9	
1971	15.1	10.3	23.5	NA	NA	NA	23.5	0.0	NA	NA	33.8	63.6	0.5	1,148.5	
1972	38.4	10.8	24.9	NA	NA	NA	24.9	0.0	NA	NA	35.7	38.5	0.4	1,209.8	
1973	35.7	11.0	25.5	NA	NA	NA	25.5	0.0	NA	NA	36.5	41.2	0.6	1,257.7	
1974	48.7	9.6	26.3	NA	NA	NA	26.3	0.0	NA	NA	35.9	36.6	0.2	1,237.6	
1975	107.4	9.5	27.4	NA	NA	NA	27.4	0.0	NA	NA	36.9	21.3	0.6	1,246.0	
1976	109.5	6.1	29.5	NA	NA	NA	29.5	0.0	NA	NA	35.6	6.6	0.7	1,293.6	
1977	120.2	7.0	29.7	NA	NA	NA	29.7	0.0	NA	NA	36.7	-42.5	0.6	1,257.3	
1978	126.8	11.2	39.0	NA	NA	NA	39.0	0.0	NA	NA	50.2	0.1	4.4	1,350.6	
1979	125.1	9.5	44.5	NA	NA	NA	44.5	0.0	NA	NA	53.9	35.1	6.2	1,350.5	
1980	109.4	8.2	46.6	NA	NA	NA	46.6	0.0	NA	NA	54.8	31.1	3.3	1,224.2	
1981	112.4	9.8	46.8	(s)	NA	0.0	46.8	0.0	NA	NA	56.6	48.1	0.3	1,176.6	
1982	112.9	10.5	48.4	(s)	NA	0.0	48.5	0.0	NA	NA	59.0	71.7	0.9	1,187.3	
1983	128.2	11.3	51.4	(s)	NA	0.0	51.4	0.0	NA	0.0	62.7	79.8	1.4	1,190.4	
1984	90.3	10.1	55.9	(s)	NA	0.0	55.9	0.0	0.0	0.0	66.0	115.3	3.4	1,251.7	
1985	122.9	10.2	56.3	2.3	NA	0.0	58.6	0.0	0.0	0.0	68.8	91.2	9.1	1,258.3	
1986	116.9	11.3	52.2	2.8	NA	0.2	55.2	0.0	0.0	0.0	66.4	99.0	23.4	1,245.9	
1987	120.6	9.0	49.5	1.8	NA	0.2	51.5	0.0	0.0	0.0	60.5	80.6	6.6	1,251.4	
1988	130.3	7.0	52.8	1.4	NA	0.2	54.5	0.0	0.0	(s)	61.4	78.6	-5.7	1,355.2	
1989	115.6	8.5	52.9	1.7	NA	0.7	55.4	0.1	0.3	(s)	64.3	84.2	-1.5	1,392.7	
1990	128.5	8.9	48.8	2.0	NA	0.7	51.6	0.1	0.3	(s)	61.0	97.6	2.5	1,409.7	
1991	126.4	10.8	49.4	3.8	NA	1.1	54.3	0.2	0.3	(s)	65.7	103.9	9.7	1,434.8	
1992	116.9	11.0	52.8	6.0	NA	2.3	61.1	0.2	0.3	(s)	72.6	82.7	18.5	1,442.3	
1993	125.9	11.9	52.1	11.2	NA	2.4	65.8	0.2	0.3	(s)	78.1	56.2	21.3	1,486.1	
1994	127.8	11.7	53.4	12.8	NA	2.6	68.9	0.2	0.3	0.4	81.5	61.7	26.4	1,522.3	
1995	139.1	11.3	56.2	13.8	NA	3.2	73.2	0.2	0.4	0.6	85.6	67.5	28.8	1,612.5	
1996	127.0	12.3	57.1	10.5	NA	4.3	72.0	0.2	0.4	0.5	85.3	92.3	30.2	1,685.2	
1997	113.5	10.6	55.6	15.7	NA	6.9	78.3	0.2	0.4	0.6	90.0	99.9	33.7	1,653.9	
1998	122.2	9.7	50.9	17.6	NA	7.6	76.1	0.2	0.3	1.5	87.8	79.8	27.1	1,624.3	
1999	139.1	12.1	50.5	19.1	NA	11.7	81.2	0.2	0.3	5.0	98.8	108.1	20.5	1,700.1	
2000	135.2	9.5	54.4	19.4	NA	13.4	87.2	0.2	0.3	7.4	104.6	83.7	26.9	1,749.1	
2001	123.1	8.6	54.4	19.8	0.1	15.4	89.7	0.3	0.3	9.3	108.0	111.3	28.2	1,720.9	
2002	142.9	8.2	46.3	21.5	0.1	18.2	86.1	0.3	0.2	9.2	104.0	138.9	14.2	1,785.7	
2003	139.8	8.2	43.9	23.4	0.1	21.5	88.9	0.4	0.2	9.9	107.6	188.8	-8.6	1,863.7	
2004	138.6	7.4	52.8	22.2	0.2	23.6	98.8	0.4	0.2	8.1	114.9	171.9	8.9	1,863.4	
2005	133.9	7.7	57.1	17.4	0.7	24.5	99.6	0.4	0.1	15.8	123.8	135.3	26.7	1,871.8	
2006	137.6	5.7	53.5	16.0	1.9	31.6	103.1	0.5	0.1	20.4	129.8	139.1	27.0	1,843.5	
2007	137.4	6.5	63.5	20.3	2.6	33.6	119.9	0.6	0.1	26.1	153.2	141.9	23.4	1,896.8	
2008	135.8	7.2	64.7	21.6	2.2	40.1	128.6	0.7	0.2	42.9	179.6	133.3	26.5	1,913.3	
2009	129.6	7.9	69.5	21.3	2.4	52.4	145.5	0.9	0.2	49.3	203.9	99.5	26.6	1,786.2	
2010	140.9	8.2	79.4	27.2	1.9	R 60.2	R 168.8	1.0	0.2	46.7	R 225.0	135.1	24.2	R 1,860.0	
2011	125.1	7.2	74.4	24.4	6.5	R 62.5	R 167.8	1.0	0.2	65.3	R 241.6	140.6	26.3	R 1,853.1	
2012	125.2	5.3	73.3	25.3	6.6	R 56.8	R 162.1	1.1	0.3	77.8	R 246.6	149.5	22.2	R 1,815.5	
2013	111.9	4.9	73.0	25.7	6.7	R 54.8	R 160.2	1.1	0.3	78.8	R 245.3	157.0	27.0	R 1,888.7	
2014	132.9	5.2	80.8	25.6	8.6	R 59.5	R 174.4	1.1	0.4	92.2	R 273.3	108.8	23.0	R 1,942.3	
2015	125.9	7.9	79.4	27.1	9.6	R 60.9	R 176.9	1.1	0.5	91.1	R 277.5	72.7	27.0	R 1,816.0	
2016	145.0	11.2	R 78.0	27.6	10.4	R 60.8	R 176.9	1.1	0.6	91.7	R 281.4	R 41.5	28.9	R 1,840.8	
2017	145.4	11.6	R 70.4	27.6	10.5	61.6	R 170.1	1.1	6.2	102.6	R 291.6	68.0	24.6	R 1,863.9	
2018	152.7	9.6	R 71.4	26.8	15.2	R 62.7	R 176.0	1.1	10.4	97.5	R 294.7	87.4	13.1	R 1,940.7	
2019	147.3	9.4	65.0	27.1	19.2	59.1	175.4	1.1	12.3	97.6	295.7	47.5	26.9	1,900.2	

e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.