

Table CT8. Electric power sector consumption estimates, selected years, 1960-2023, Minnesota

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum				Nuclear electric power Million kilowatthours	Hydroelectric power ^d Million kilowatthours	Biomass Wood and waste ^{e,f} Million kilowatthours	Geothermal ^f Million kilowatthours	Solar ^g Million kilowatthours	Wind ^f Million kilowatthours	Electricity net imports ^h	Total ^{f,i}
			Distillate fuel oil ^b	Petroleum coke	Residual fuel oil ^c	Total								
			Thousand barrels											
1960	2,433	49	156	0	239	395	0	731	--	0	NA	NA	90	--
1965	3,857	51	182	0	278	460	143	915	--	0	NA	NA	111	--
1970	6,192	59	551	143	842	1,537	0	726	--	0	NA	NA	127	--
1975	7,595	23	674	59	851	1,584	9,750	728	--	0	NA	NA	185	--
1980	12,610	8	167	0	361	529	10,027	642	--	0	NA	NA	953	--
1985	11,498	1	49	0	(s)	49	11,572	829	--	0	0	0	2,668	--
1990	16,916	5	91	727	1	820	12,139	685	--	0	0	(s)	728	--
1995	17,282	8	134	770	0	904	13,243	874	--	0	0	57	8,441	--
2000	18,639	10	246	1,080	1	1,327	12,960	684	--	0	0	725	7,892	--
2005	20,008	26	232	1,109	78	1,420	12,835	645	--	0	0	1,582	7,811	--
2006	19,573	25	149	757	21	928	13,183	475	--	0	0	2,055	7,925	--
2007	19,178	35	397	336	70	803	13,103	558	--	0	0	2,639	6,858	--
2008	18,763	25	157	277	25	458	12,997	609	--	0	0	4,355	7,768	--
2009	17,355	24	122	0	5	128	12,393	675	--	0	0	5,053	7,792	--
2010	16,582	36	64	0	0	64	13,478	713	--	0	0	4,780	7,106	--
2011	16,515	28	52	0	0	52	11,959	629	--	0	0	6,703	7,710	--
2012	13,384	57	59	0	0	59	11,944	487	--	0	0	8,148	6,514	--
2013	13,765	50	68	0	0	68	10,708	421	--	0	3	8,231	7,917	--
2014	16,534	30	117	0	0	117	12,707	529	--	0	3	9,661	6,748	--
2015	14,459	53	58	0	0	58	12,039	734	--	0	3	9,750	7,921	--
2016	13,686	65	61	0	0	61	13,861	1,078	--	0	10	9,905	8,477	--
2017	13,359	49	56	0	0	56	13,904	1,102	--	0	596	11,111	7,198	--
2018	13,813	63	76	0	0	76	14,601	962	--	0	1,042	10,688	3,852	--
2019	10,604	87	99	0	0	99	14,105	959	--	0	1,249	10,940	7,880	--
2020	8,467	86	52	0	0	52	14,677	934	--	0	1,634	11,806	2,838	--
2021	9,360	94	214	0	0	214	14,123	628	--	0	1,893	12,248	2,178	--
2022	9,594	66	100	0	0	100	14,696	877	--	0	1,901	15,065	4,553	--
2023	7,483	101	157	0	0	157	11,924	693	--	0	2,094	14,379	5,958	--

Trillion Btu

1960	54.5	50.2	0.9	0.0	1.5	2.4	0.0	2.5	0.2	0.0	NA	NA	0.3	110.1
1965	85.5	51.3	1.1	0.0	1.7	2.8	1.7	3.1	0.1	0.0	NA	NA	0.4	145.0
1970	125.5	59.1	3.2	0.9	5.3	9.4	0.0	2.5	0.2	0.0	NA	NA	0.4	197.1
1975	136.3	22.3	3.9	0.4	5.4	9.6	107.4	2.5	(s)	0.0	NA	NA	0.6	278.8
1980	221.4	8.0	1.0	0.0	2.3	3.2	109.4	2.2	(s)	0.0	NA	NA	3.3	347.5
1985	200.6	1.3	0.3	0.0	(s)	0.3	122.9	2.8	(s)	0.0	0.0	0.0	9.1	337.1
1990	298.5	5.4	0.5	4.4	(s)	4.9	128.5	2.3	7.7	0.0	0.0	(s)	2.5	449.8
1995	305.9	8.4	0.8	4.6	0.0	5.4	139.1	3.0	8.6	0.0	0.0	0.2	28.8	499.5
2000	333.3	10.1	1.4	6.5	(s)	7.9	135.2	2.3	8.8	0.0	0.0	2.5	26.9	527.0
2005	353.0	26.3	1.4	6.3	0.5	8.2	133.9	2.2	9.3	0.0	0.0	5.4	26.7	564.9
2006	345.1	25.1	0.9	4.3	0.1	5.3	137.6	1.6	8.9	0.0	0.0	7.0	27.0	557.6
2007	339.2	35.1	2.3	1.9	0.4	4.7	137.4	1.9	17.2	0.0	0.0	9.0	23.4	567.9
2008	332.2	25.2	0.9	1.6	0.2	2.6	135.8	2.1	17.7	0.0	0.0	14.9	26.5	557.1
2009	305.3	23.9	0.7	0.0	(s)	0.7	129.6	2.3	20.9	0.0	0.0	17.2	26.6	526.6
2010	289.7	36.4	0.4	0.0	0.0	0.4	140.9	2.4	24.3	0.0	0.0	16.3	24.2	534.7
2011	290.2	28.5	0.3	0.0	0.0	0.3	125.1	2.1	21.4	0.0	0.0	22.9	26.3	516.9
2012	236.4	58.3	0.3	0.0	0.0	0.3	125.2	1.7	24.2	0.0	0.0	27.8	22.2	496.2
2013	243.5	50.9	0.4	0.0	0.0	0.4	111.9	1.4	20.0	0.0	(s)	28.1	27.0	483.3
2014	289.7	31.7	0.7	0.0	0.0	0.7	132.9	1.8	22.1	0.0	(s)	33.0	23.0	534.9
2015	253.9	55.9	0.3	0.0	0.0	0.3	125.9	2.5	22.5	0.0	(s)	33.3	27.0	521.3
2016	241.5	68.4	0.3	0.0	0.0	0.3	145.0	3.7	22.8	0.0	(s)	33.8	28.9	544.4
2017	235.5	51.6	0.3	0.0	0.0	0.3	145.4	3.8	22.7	0.0	2.0	37.9	24.6	523.8
2018	241.8	67.6	0.4	0.0	0.0	0.4	152.7	3.3	17.8	0.0	3.6	36.5	13.1	536.7
2019	186.6	94.1	0.6	0.0	0.0	0.6	147.3	3.3	9.3	0.0	4.3	37.3	26.9	509.6
2020	149.0	93.0	0.3	0.0	0.0	0.3	153.3	3.2	8.8	0.0	5.6	40.3	9.7	463.1
2021	164.3	101.6	1.2	0.0	0.0	1.2	147.3	2.1	8.5	0.0	6.5	41.8	7.4	480.8
2022	168.1	70.8	0.6	0.0	0.0	0.6	R 153.5	3.0	8.9	0.0	6.5	51.4	15.5	R 478.3
2023	132.0	108.4	0.9	0.0	0.0	0.9	124.6	2.4	8.0	0.0	7.1	49.1	20.3	452.8

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Excludes biodiesel. Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
^c Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
^e Wood, wood-derived fuels, and biomass waste. Beginning in 2006, includes small amount of other biomass liquids that are biodiesel.
^f Prior to 2001, includes non-biomass waste.
^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
^h Solar thermal and photovoltaic energy.
ⁱ Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

ⁱ 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 the total.
 -- = Not applicable. NA = Not available.
 Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.
 Notes: - Totals may not equal sum of components due to independent rounding. - The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. - Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. - The continuity of these data series estimates may be affected by the 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. <https://www.eia.gov/state/seds/>