

MINNESOTA AND SYSTEM-WIDE ENERGY CONSUMPTION

As part of this Application, the Commission required Applicants to provide for each utility Minnesota MWh consumption and system-wide MWh consumption and to include totals that assume 1% and 1.5 % conservation (Exemption Order Point 7F). The required information is set out below for each utility.

Figure 1.01

Xcel Energy Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	26,944,604	35,730,389		
1998	27,846,648	37,196,318		
1999	28,291,713	37,785,868		
2000	29,273,955	39,087,114		
2001	29,675,306	39,503,475		
2002	30,177,172	40,443,427		
2003	30,417,981	40,816,598		
2004	30,403,203	41,042,169		
2005	31,713,045	42,976,705		
			MN Conservation 1% MWh	MN Conservation 1.5% MWh
2006	31,926,536	43,622,668		
2007	32,245,610	44,098,807	322,456	661,482
2008	32,772,720	44,617,112	327,727	669,257
2009	33,330,723	45,106,255	333,307	676,594
2010	33,841,660	45,760,976	338,417	686,415
2011	34,291,748	46,345,119	342,917	695,177
2012	34,710,291	46,886,425	347,103	703,296
2013	35,097,608	47,399,865	350,976	710,998
2014	35,479,953	47,906,294	354,800	718,594
2015	35,871,808	48,425,628	358,718	726,384
2016	36,291,842	48,975,927	362,918	734,639
2017	36,712,453	49,543,774	367,125	743,157
2018	37,159,919	50,143,162	371,599	752,147
2019	37,603,272	50,740,444	376,033	761,107
2020	38,041,751	51,335,288	380,418	770,029
2021	38,444,787	51,897,319	384,448	778,460
2022	38,872,883	52,486,038		
2023	39,304,484	53,078,234		

Figure 1.02

Great River Energy Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	8,696,612	8,696,612		
1998	9,013,032	9,013,032		
1999	10,120,294	10,120,294		
2000	9,813,067	9,813,067		
2001	10,431,431	10,431,431		
2002	11,025,162	11,025,162		
2003	11,400,629	11,400,629		
2004	11,614,953	11,614,953		
2005	12,375,002	12,375,002		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	12,668,742	12,668,742		
2007	13,295,470	13,295,470	132,955	199,432
2008	13,750,402	13,750,402	137,504	206,256
2009	14,170,074	14,170,074	141,701	212,551
2010	14,568,844	14,568,844	145,688	218,533
2011	14,984,264	14,984,264	149,843	224,764
2012	15,377,742	15,377,742	153,777	230,666
2013	15,789,042	15,789,042	157,890	236,836
2014	16,214,891	16,214,891	162,149	243,223
2015	16,656,661	16,656,661	166,567	249,850
2016	17,146,712	17,146,712	171,467	257,201
2017	17,630,096	17,630,096	176,301	264,451
2018	18,154,000	18,154,000	181,540	272,310
2019	18,710,935	18,710,935	187,109	280,664
2020	19,300,947	19,300,947	193,009	289,514
2021	19,906,549	19,906,550	199,065	298,598
2022	20,537,976	20,537,976		
2023	21,194,838	21,194,838		

Figure 1.03

Minnesota Municipal Power Agency Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	701,691	701,691		
1998	715,297	715,297		
1999	741,717	741,717		
2000	772,725	772,725		
2001	776,107	776,107		
2002	793,860	793,860		
2003	795,069	795,069		
2004	798,383	798,383		
2005	835,514	835,514		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	1,289,963	1,289,963		
2007	1,289,473	1,289,473	12,895	19,342
2008	1,403,295	1,403,295	14,033	21,049
2009	1,489,048	1,489,048	14,890	22,336
2010	1,534,628	1,534,628	15,346	23,019
2011	1,580,373	1,580,373	15,804	23,706
2012	1,630,625	1,630,625	16,306	24,459
2013	1,672,817	1,672,817	16,728	25,092
2014	1,719,561	1,719,561	17,196	25,793
2015	1,766,675	1,766,675	17,667	26,500
2016	1,818,865	1,818,865	18,189	27,283
2017	1,862,091	1,862,091	18,621	27,931
2018	1,910,432	1,910,432	19,104	28,656
2019	1,959,225	1,959,225	19,592	29,388
2020	2,013,685	2,013,685	20,137	30,205
2021	2,058,254	2,058,254	20,583	30,874
2022	2,108,538	2,108,538		
2023	2,159,371	2,159,371		

Figure 1.04

Southern Minnesota Municipal Power Agency Minnesota & System Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	2,289,880	2,289,880		
1998	2,407,236	2,407,236		
1999	2,513,400	2,513,400		
2000	2,622,192	2,622,192		
2001	2,655,434	2,655,434		
2002	2,714,100	2,714,100		
2003	2,708,415	2,708,415		
2004	2,722,337	2,722,337		
2005	2,862,612	2,862,612		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	2,931,735	2,931,735		
2007	3,025,648	3,025,648	30,256	45,385
2008	3,105,666	3,105,666	31,057	46,585
2009	3,185,988	3,185,988	31,860	47,790
2010	3,268,075	3,268,075	32,681	49,021
2011	3,352,637	3,352,637	33,526	50,290
2012	3,440,130	3,440,130	34,401	51,602
2013	3,528,650	3,528,650	35,286	52,930
2014	3,619,370	3,619,370	36,194	54,291
2015	3,712,999	3,712,999	37,130	55,695
2016	3,807,015	3,807,015	38,070	57,105
2017	3,898,221	3,898,221	38,982	58,473
2018	3,990,740	3,990,740	39,907	59,861
2019	4,085,066	4,085,066	40,851	61,276
2020	4,181,513	4,181,513	41,815	62,723
2021	4,278,383	4,278,383	42,784	64,176
2022	4,375,474	4,375,474		
2023	4,472,669	4,472,669		

Figure 1.05

Dairyland Power Cooperative Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	569,136	3,838,253		
1998	579,102	3,788,942		
1999	596,658	3,877,821		
2000	605,717	4,000,488		
2001	627,959	4,082,083		
2002	666,983	4,265,675		
2003	693,239	4,366,555		
2004	704,835	4,439,668		
2005	734,429	4,633,791		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	748,545	4,585,827		
2007	777,760	4,755,432	7,778	71,331
2008	832,603	5,001,641	8,326	75,025
2009	885,240	5,382,265	8,852	80,734
2010	903,642	5,723,701	9,036	85,856
2011	921,243	5,827,741	9,212	87,416
2012	941,858	5,942,523	9,419	89,138
2013	958,854	6,044,258	9,589	90,664
2014	972,542	6,149,192	9,725	92,238
2015	986,829	6,257,662	9,868	93,865
2016	1,002,647	6,373,452	10,026	95,602
2017	1,015,515	6,475,731	10,155	97,136
2018	1,030,556	6,586,700	10,306	98,801
2019	1,045,479	6,698,894	10,455	100,483
2020	1,062,675	6,821,289	10,627	102,319
2021	1,080,063	6,952,585	10,801	104,289
2022	1,093,775	7,055,599		
2023	1,107,758	7,160,084		

Data From 2006 IRP Forecast

Figure 1.06

Central Minnesota Municipal Power Agency Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	358,545	358,545		
1998	368,227	368,227		
1999	379,641	379,641		
2000	383,271	383,271		
2001	391,131	391,131		
2002	405,406	405,406		
2003	410,571	410,571		
2004	405,440	405,440		
2005	903,931	903,931		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	519,396	519,396		
2007	434,098	434,098	4,341	6,511
2008	441,149	441,149	4,411	6,617
2009	496,022	496,022	4,960	7,440
2010	502,514	502,514	5,025	7,538
2011	508,977	508,977	5,090	7,635
2012	515,766	515,766	5,158	7,736
2013	522,193	522,193	5,222	7,833
2014	528,437	528,437	5,284	7,927
2015	534,280	534,280	5,343	8,014
2016	539,811	539,811	5,398	8,097
2017	545,471	545,471	5,455	8,182
2018	550,765	550,765	5,508	8,261
2019	555,751	555,751	5,558	8,336
2020	560,670	560,670	5,607	8,410
2021	565,515	565,515	5,655	8,483
2022	570,516	570,516		
2023	575,630	575,630		

Figure 1.07

Otter Tail Power Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	1,873,844	3,499,058		
1998	1,879,723	3,478,148		
1999	1,754,137	3,393,860		
2000	1,815,003	3,477,581		
2001	1,896,430	3,625,901		
2002	1,914,508	3,697,577		
2003	1,884,900	1,499,944		
2004	1,953,515	3,769,967		
2005	2,018,332	3,903,190		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	2,085,660	3,987,770		
2007	2,255,394	4,365,045	22,554	33,831
2008	2,359,223	4,588,000	23,592	35,388
2009	2,469,921	4,719,457	24,699	37,049
2010	2,513,943	4,792,176	25,139	37,709
2011	2,558,328	4,866,613	25,583	38,375
2012	2,610,970	4,957,744	26,110	39,165
2013	2,649,091	5,020,762	26,491	39,736
2014	2,694,864	5,098,977	26,949	40,423
2015	2,741,606	5,179,410	27,416	41,124
2016	2,796,820	5,276,281	27,968	41,952
2017	2,836,381	5,342,958	28,364	42,546
2018	2,884,480	5,426,399	28,845	43,267
2019	2,932,793	5,510,120	29,328	43,992
2020	2,990,676	5,612,572	29,907	44,860
2021	3,031,767	5,682,671	30,318	45,477
2022	3,082,468	5,771,474		
2023	3,134,009	5,861,920		

Figure 1.08

Minnesota Power/ALLETE Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	9,256,580	10,522,636		
1998	8,869,801	10,169,106		
1999	8,429,549	11,904,084		
2000	8,906,851	12,490,830		
2001	8,311,392	10,818,358		
2002	8,779,771	11,419,406		
2003	8,425,421	11,151,484		
2004	8,903,621	11,697,488		
2005	9,051,942	11,900,824		
2006	9,077,994	11,888,637	1% MN Conservation	1.5% MN Conservation
2007	9,123,014	11,967,203	93141	139712
2008	9,185,606	12,073,913	95088	142632
2009	9,403,682	12,332,400	98951	148427
2010	9,369,871	12,331,467	100218	150327
2011	9,589,791	12,580,942	102384	153576
2012	9,760,626	12,774,442	104269	156404
2013	9,854,584	12,902,121	104973	157459
2014	9,920,251	12,983,143	106011	159016
2015	10,017,496	13,095,163	99203	148804
2016	10,092,373	13,183,274	100175	150262
2017	10,141,397	13,245,651	100924	151386
2018	10,180,402	13,294,202	101414	152121
2019	10,248,126	13,374,586	101804	152706
2020	10,292,209	13,430,675	102481	153722
2021	10,332,601	13,487,766	102922	154383
2022	10,370,047	13,544,995		
2023	10,409,707	13,607,209		

Figure 1.09

Missouri River Energy Services Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	1,937,724	3,394,867		
1998	1,969,353	3,442,850		
1999	2,014,050	3,499,659		
2000	2,081,647	3,636,769		
2001	2,128,122	3,704,334		
2002	2,187,752	3,802,254		
2003	2,238,196	3,873,670		
2004	2,253,784	3,897,707		
2005	2,308,651	4,015,661		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	2,365,732	4,101,239		
2007	2,408,580	4,176,324	24,086	36,129
2008	2,451,253	4,251,387	24,513	36,769
2009	2,490,282	4,320,196	24,903	37,354
2010	2,530,251	4,390,934	25,303	37,954
2011	2,573,863	4,468,388	25,739	38,608
2012	2,616,810	4,545,042	26,168	39,252
2013	2,660,348	4,622,720	26,603	39,905
2014	2,702,419	4,697,706	27,024	40,536
2015	2,743,665	4,771,347	27,437	41,155
2016	2,783,910	4,842,918	27,839	41,759
2017	2,823,561	4,913,463	28,236	42,353
2018	2,861,195	4,980,399	28,612	42,918
2019	2,897,673	5,044,882	28,977	43,465
2020	2,936,214	5,113,626	29,362	44,043
2021			0	0
2022				
2023				

Figure 1.10

Alliant Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997		15,952,588		
1998	810,110	17,927,651		
1999	783,757	18,037,838		
2000	892,737	17,535,729		
2001	815,009	16,817,593		
2002	870,216	16,673,242		
2003	846,690	16,802,016		
2004	788,104	15,443,063		
2005	817,375	15,925,936		
2006	819,165	15,780,275	1% MN Conservation	1.5% MN Conservation
2007	829,798	15,999,072	8,298	12,447
2008	840,781	16,226,301	8,408	12,612
2009	852,047	16,458,804	8,520	12,781
2010	863,533	16,696,387	8,635	12,953
2011	875,284	16,939,652	8,753	13,129
2012	887,299	17,188,525	8,873	13,309
2013	899,584	17,433,173	8,996	13,494
2014	912,116	17,702,969	9,121	13,682
2015	924,983	17,970,040	9,250	13,875
2016	938,127	18,242,940	9,381	14,072
2017	951,560	18,521,966	9,516	14,273
2018	965,330	18,808,236	9,653	14,480
2019	979,395	19,100,739	9,794	14,691
2020			0	0
2021			0	0
2022				
2023				

Figure 1.11

Minnkota Power Cooperative, Inc. Minnesota & System-Wide Energy Consumption

Year	MN MWh Consumption	System MWh Consumption		
1997	619,106	1,177,213		
1998	1,452,591	2,682,378		
1999	1,527,286	2,817,382		
2000	1,547,965	2,895,846		
2001				
2002	1,687,322	3,207,896		
2003	1,682,532	3,213,104		
2004	1,717,952	3,276,614		
2005	1,714,986	3,324,997		
			1% MN Conservation MWh	1.5% MN Conservation MWh
2006	1,728,174	3,401,878		
2007	1,857,892	3,592,777	18,579	27,868
2008	1,886,338	3,657,419	18,863	28,295
2009	1,925,391	3,747,921	19,254	28,881
2010	1,973,328	3,845,415	19,733	29,600
2011	2,016,208	3,939,986	20,162	30,243
2012	2,059,025	4,039,885	20,590	30,885
2013	2,103,959	4,140,902	21,040	31,559
2014	2,149,919	4,244,536	21,499	32,249
2015	2,190,902	4,335,605	21,909	32,864
2016	2,240,176	4,426,675	22,402	33,603
2017	2,272,868	4,517,744	22,729	34,093
2018	2,313,851	4,608,813	23,139	34,708
2019	2,354,834	4,699,883	23,548	35,323
2020	2,426,605	4,790,952	24,266	36,399
2021	2,452,325	4,906,603	24,523	36,785
2022	2,511,181	5,024,361		
2023	2,571,491	5,144,946		

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