



Central Power Electric Cooperative, Inc.

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May 18, 2020

Mr. Steve Kahl
Executive Secretary
North Dakota Public Service Commission
600 East Boulevard Avenue
Department 408
Bismarck, ND 58505-0480

Dear Mr. Kahl:

Please find Central Power Electric Cooperative's Ten Year Plan attached as required for Public Service Commission review. Feel free to contact me at 701-837-7421 or on my cell phone at 701-721-1421 with any questions or concerns.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Mark Sherman', with a long horizontal flourish extending to the right.

Mark Sherman, P.E.
Manager of Operations & Engineering

Enclosures

1 PU-20-214 Filed 05/19/2020 Pages: 96
2020 Ten Year Plan
Central Power Electric Cooperative, Inc
Mark Sherman, P.E.

CENTRAL POWER ELECTRIC COOPERATIVE, INC.

TEN YEAR PLAN

2020

**SUBMITTED TO THE
NORTH DAKOTA
PUBLIC SERVICE COMMISSION**

**Central Power Electric Cooperative, Inc.
525 20th Avenue Southwest
Minot, ND 58701
(701) 852-4407**

INTRODUCTION

Central Power Electric Cooperative, Inc. respectfully submits this ten-year plan to the North Dakota Public Service Commission in accordance with the format guidelines issued in November, 1979, and as required by Section 49-22-04 of the North Dakota Century Code.

Central Power is a wholesale transmission cooperative that serves all of the power supply needs of six North Dakota rural electric distribution cooperatives. Central Power has a contract with the Western Area Power Administration (WAPA) for approximately one-tenth of Central's power supply and an all requirements contract with Basin Electric Power Cooperative, Inc. for all power supply requirements over and above the power supplied by WAPA.

Should the Commission require any additional information regarding this ten year plan, Central Power stands ready to furnish whatever further information is required.

SECTION A – Existing Energy Conversion Facilities

Central Power does not own or operate any energy conversion facility.

SECTION B – Energy Conversion Facilities Under Construction

Central Power does not have any energy conversion facility under construction.

SECTION C – Proposed Energy Conversion Facilities on Which Construction is Intended Within the Ensuing Five Years

Central Power does not have any plans to construct an energy conversion facility.

SECTION D – Proposed Energy Conversion Facilities During the Next Ten-Year Time Period

Central Power has not proposed any energy conversion facilities for the next ten-year period.

SECTION E – Existing Transmission Facilities (Electric)

1. The North Dakota Public Service Commission format guidelines issued in November, 1979 require that we submit a copy of FERC Form 12. Central Power was not previously required to file a FERC Form 12 and the information previously found on Form 12 is now contained in FERC Form 715.

Central Power receives approximately one-tenth of our power supply from the Western Area Power Administration (WAPA) and we are an all requirements member of Basin Electric Power Cooperative, Inc. for all power supply requirements over and above the power supplied by WAPA. As a result of our Basin membership, Basin performs bulk transmission system planning and reporting, in cooperation with WAPA, on Central Power's behalf. FERC staff has confirmed that Central Power is not expected to file a Form 715 directly as long as Basin and WAPA continue to plan and file on our behalf.

2. Central Power has six transmission facilities in excess of 115 kV:

<u>Facility</u>	<u>In Service Date</u>
Harvey 230 kV Substation	December 2, 1986
Underwood 230 kV Substation	December 4, 1981
Wilton Wind 230kV Transmission Line	December 3, 2005

Equipment in Foreign Substations

Hankinson 230 kV Substation (Otter Tail)
Wahpeton 230 kV Substation (Otter Tail)

In Service Date

October 1, 1984
December 1, 1985

Equipment in Jointly Owned Substations

Ward 230kV Substation (WAPA)*

In Service Date

February 2006

*Capital Electric Cooperative, Inc. (Capital) became a fully consolidated member of Central Power on January 1, 2014 at which time Central Power assumed ownership and maintenance responsibilities for all of Capital's transmission and substation facilities. The Ward 230kV substation was jointly owned by Capital and WAPA until Central Power assumed ownership of the Capital owned facilities within the Ward substation in 2014.

3. Central Power has no plans to retire any existing transmission facilities within the next ten-year period. However, Central Power is in the process of selling all of Central Power's equipment within the Wahpeton 230kV Substation to Otter Tail Power Company. Central Power performed a review of our equipment ownership within substations owned by others and determined that it is no longer in Central Power's best interest to continue owning equipment at the Wahpeton 230kV substation. Otter Tail owns the substation and the balance of the equipment within the substation and they have determined that it is appropriate to purchase Central Power's equipment. Otter Tail plans to continue using this equipment and they will assume maintenance activities associated with this equipment. There should be no change in electrical service deliveries in the Wahpeton area.

SECTION F – Existing Transmission Facilities (Pipeline)

Not applicable to Central Power

SECTION G – Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Electric)

Central Power does not plan to construct any transmission facilities in excess of 115kV in the next five years.

SECTION H – Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline)

Not applicable to Central Power.

SECTION I – Proposed Transmission Facilities During the Next Ten-Year Time Period (Electric and Pipeline)

Central Power has no proposed transmission facilities in excess of 115-kV.

SECTION J – Regional Coordination

1. Central Power is a preference power customer of the Western Area Power Administration (WAPA) and a member of Basin Electric Power Cooperative. Central holds an all-requirements contract with Basin Electric for power supply above the amount provided by WAPA. Central is thus relieved of the responsibility for power generation and is able to benefit from Basin's and WAPA's comprehensive network of 115-kV, 230-kV, and 345-kV transmission facilities used in the delivery of power to Central's facilities.

Central Power, through its membership in Basin Electric and its association with WAPA, participates in the regional power supply network, and has worked with Basin and WAPA to help develop their outstanding record of regional power supply and transmission planning with all electric utilities serving the area. Central Power's cooperation with its power suppliers assures maximum coordination with the Department of Energy, Montana Dakota Utilities Company, Otter Tail Power Company, and the members of the Southwest Power Pool, Inc. (SPP).

2. Central Power works with Basin Electric Power Cooperative – Central Power's all supplemental requirements power supplier – in reviewing power planning arrangements and assisting with the preparation of forecasts of Central Power's future load requirements.
3. Proposed facilities would be those that meet criteria to serve Central Power's six distribution members from a generation and transmission network that has been developed as a regional plan. Future facilities would be designed to utilize parts of other electrical utility systems, as well as Central Power-owned facilities. The other electrical systems are as follows:

Basin Electric Power Cooperative
Western Area Power Administration
Montana Dakota Utilities Company
Xcel Energy (Northern States Power Company)
Otter Tail Power Company

4. Central Power recognizes that the cost and construction difficulties associated with new facilities make coordinated planning as important now as at any time in the past. We would recommend that long range planning continue to include input from and cooperation between all utilities, industry, state planning agencies and state regulatory agencies.

SECTION K – Environmental Information

1. Central Power’s environmental awareness has greatly influenced and shaped the methods used in planning, routing and locating the facilities built by the cooperative. Central Power has long been concerned with the impact of its facilities on the environment and on the people in our service area, who are for the most part our member-owners.

Central has developed methods of line routing, procedures for public meetings and construction practices that closely follow the guidelines for transmission line routing and facility siting developed under the North Dakota Plant and Transmission Siting Act, and utilizes these guidelines as are relevant for 43.8-kV, 60-kV, 69-kV and 115-kV facilities that do not come under the requirements of this Act. Central will follow the requirements of the guidelines in the planning, routing and construction of all facilities in excess of 115-kV. In this endeavor, Central Power will employ its own personnel, reference advice from the North Dakota Public Service Commission, utilize advice and help from Basin Electric and utilize the help of hired expert consultants to meet all of the requirements of this Act.

SECTION L – Projected Demand for Service

1. Central Power’s historical peak loads are shown in the following table. Central Power is a winter peaking utility and the table therefore represents peaks from each winter season.

Historical Annual Peak Demand

Winter Season	Peak (MW)	Annual Year to Year Growth %	Cumulative Overall Growth %
2008/09	322	0.0%	0.0%
2009/10	328.6	2.0%	2.0%
2010/11	330.6	0.6%	2.7%
2011/12	373.8	13.1%	16.1%
2012/13	377.4	1.0%	17.2%
2013/14	479.3*	27.0%	48.9%
2014/15	463.7	-3.3%	44.0%
2015/16	436.4	-5.9%	35.5%
2016/17	466.3	6.9%	44.8%
2017/18	465	-0.3%	44.4%

*The 2013/14 load values are skewed, when compared to prior years, by the fact that Capital Electric Cooperative became a fully consolidated member of Central Power on January 1, 2014 and

began purchasing 100% of their power from Central Power instead of 25% of their power in previous years. As a comparison, if Capital Electric's 2013/14 purchases were reduced by 75% to their pre-2014 purchase levels, Central Power's peak would have been 421.2 MW which would have resulted in an 11.6% Annual Year to Year Growth percentage.

All United States Department of Agriculture - Rural Utilities Service (RUS) electric distribution and power supply borrowers must conduct Load Forecasts which are used in engineering and financial studies, including long-range planning, system work plans, rate studies, financial forecasts, and any studies in support of loan applications. Central Power's 2020 Load Forecast was prepared in accordance with RUS general guidelines and the procedures specified in the Load Forecast work plan submitted to and approved by RUS.

The Load Forecast was conducted according to consumer classification, including residential, oil related commercial, irrigation, small commercial and industrial (50 KVA or less), large commercial and industrial (larger than 50 KVA), public building, residential-seasonal, security lights, public streets and highway lighting. Future kWh usage per average consumer is projected for each classification and based on an econometric model that was developed taking into consideration factors that statistical and economic analysis indicates has historically influenced Central Power member's load.

The total projected usage for each consumer classification is obtained from the result of the projected consumer and average use per consumer. The cooperatives' total power requirements are then calculated based on the individual consumer classification totals.

Projected Annual Peak Demand

Winter Season	Projected Peak (MW)
2018/19	478.2
2019/20	487.0
2020/21	495.4
2021/22	504.1
2022/23	510.4
2023/24	516.9
2024/25	523.0
2025/26	529.1
2026/27	535.3
2027/28	541.6

2. Central will continue to meet its projected peak demands through the purchase of power from the Western Area Power Administration and from Basin Electric.
3. Central's load centers are the distribution substations that serve the distribution needs of its members.



2020

LOAD FORECAST

2020 Load Forecast

*Central Power Electric
Power Cooperative*

Introduction

INTRODUCTION

The purpose of the 2020 Load Forecast is to develop a load forecast of Central Power Electric Cooperative's (Central Power) future electrical requirements.

Central Power is a transmission cooperative headquartered in Minot, North Dakota, whose service area covers central and southeast North Dakota. Central Power's six distribution cooperative members are listed below:

North Dakota 35, Burleigh	Capital Electric Cooperative
North Dakota 51, Dakota Valley	Dakota Valley Electric Cooperative
North Dakota 37, McLean	McLean Electric Cooperative
North Dakota 22, Bottineau	North Central Electric Cooperative
North Dakota 50, Foster	Northern Plains Electric Cooperative
North Dakota 17, McHenry	Verendrye Electric Cooperative

Up until January 1st of 2014, Capital Electric obtained approximately 26 percent of its total power requirements from Central Power; remaining power requirements were purchased from the Western Area Power Administration and Basin Electric Power Cooperative. As of January 1st of 2014, 100 percent of Capital Electric's total power requirements are obtained from Central Power. This change is reflected in the historical data and in Central Power's forecast and power supply numbers.

This Load Forecast was prepared in accordance with the Rural Utilities Service (RUS) general guidelines and the procedures specified in the 2020 Load Forecast work plan submitted to and approved by RUS.

The Load Forecast process represents a joint effort by the distribution cooperatives, the generation and transmission cooperatives (G&T's) and Basin Electric. In order to assure that all segments of the cooperative structure were involved in the Load Forecast process, a Load Forecast steering committee was established consisting of representatives from the distribution cooperatives, the G&T's and Basin Electric.

The Load Forecast steering committee established the schedule and developed the procedures used in preparing the 2020 Load Forecast. RUS attendance and participation at the committee meetings provided a forum for the cooperatives and RUS to exchange ideas and discuss problems.

This Load Forecast represents a forecast of Central Power's total requirements for the period of 2019 through 2050. It was prepared by integrating the results of Central Power's individual distribution member Load Forecast's. Each of Central Power's members Load Forecast's was prepared utilizing consistent methodologies and assumptions that are explained in detail in each distribution cooperative study. The distribution cooperative's Load Forecast analyzed service territories for historical and projected developments, which have an influence on past and future load growth.

The 2020 Load Forecast is a weather normalized forecast. As a result, temperature extremes and extended periods of hot, cold, wet, and/or dry weather conditions can cause deviations from weather normalized demand and energy forecasts. Basin electric has done analysis that would suggest these weather deviations could amount to a 10 percent deviation in the demand forecasts and potentially lower variations in energy forecasts. Prudent planning for extreme weather events should be considered when using this forecast.

Summary and Comparison Graphs

Three graphs were developed to summarize and compare the results of the 2020 Forecast to prior load forecasts. Graph A compares the total energy requirements for Central Power. Graphs B and C compare the peak demands for the winter and summer seasons, respectively.

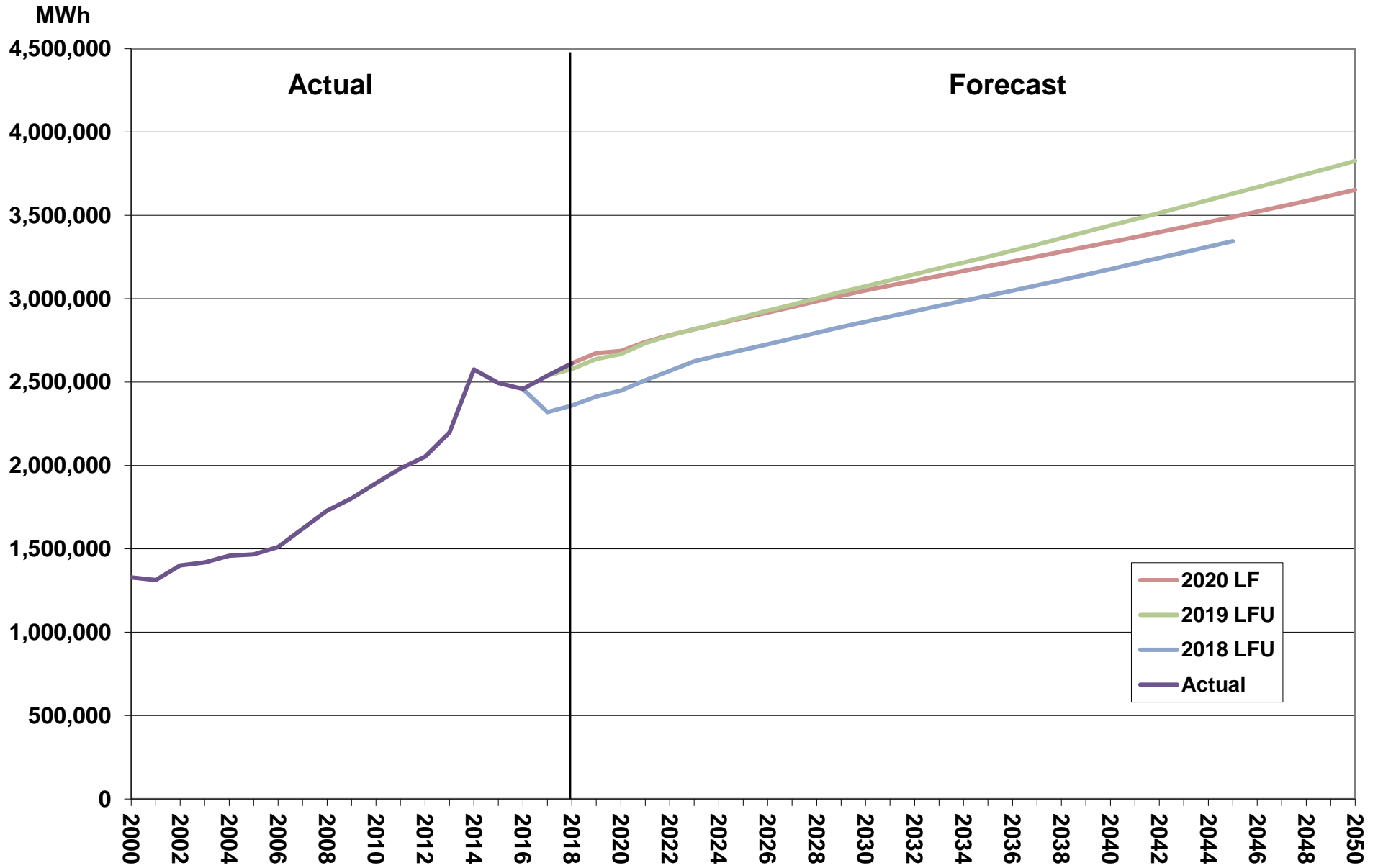
COMPARISONS

2020 Load Forecast

Central Power

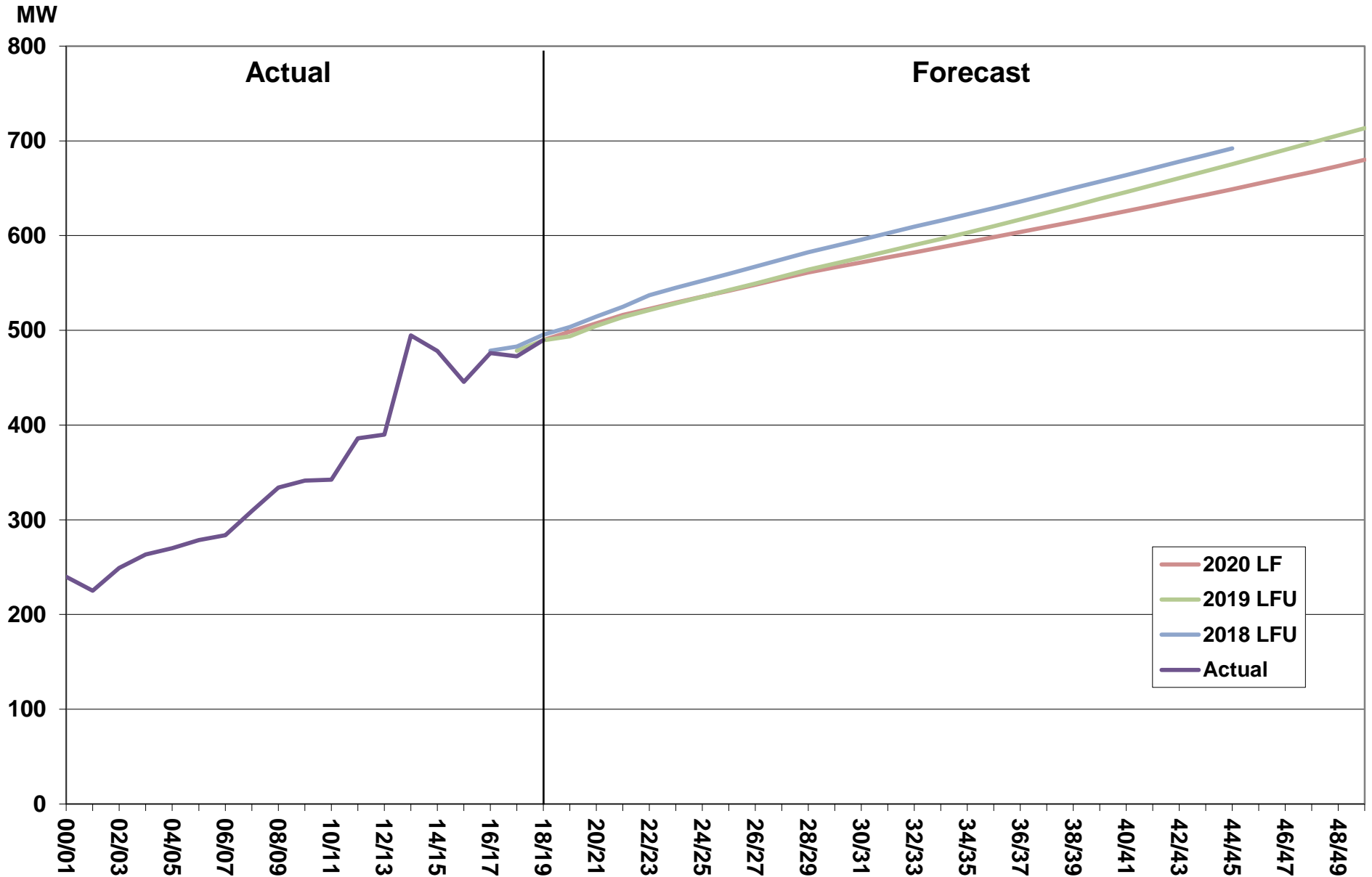
Central Power Total Energy Requirements

Graph A



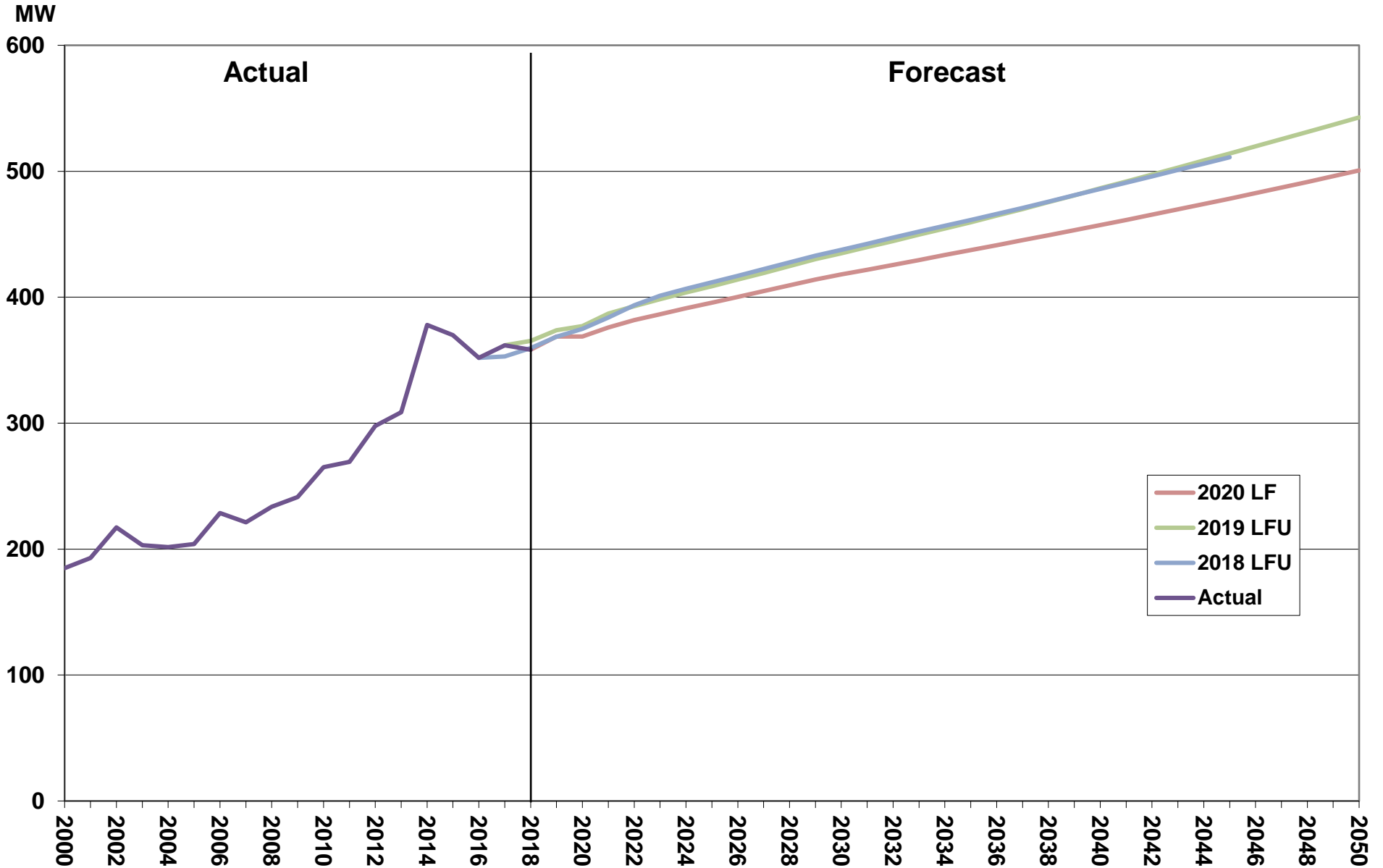
Central Power Peak Demand Winter Season

Graph B



Central Power Peak Demand Summer Season

Graph C



Forecast

CENTRAL POWER SALES TO MEMBERS

Central Power's sales forecast is based on the load forecast of its six distribution members.

The power requirements identified in the members' Load Forecast's represent Central Power's sales. Table 1 outlines Central Power's historical and projected annual energy sales to member systems. The total sales are projected to increase at an average compound growth rate of 1.01 percent over the 2019 to 2050 forecast period.

Table 2 categorizes Central Power's annual energy sales according to the consumer classifications of its member systems. The indicated values represent the manner in which the member systems use the energy they purchase from Central Power. Graph 2 illustrates this information. The graph indicates that the majority of the member's energy requirements are attributable to residential and large commercial sales.

Residential sales represent approximately 39 percent of the members' total energy requirements in 2018. The residential sales are projected to increase at an average compound growth rate of 1.17 percent between 2019 and 2050.

The two factors that affect residential energy sales are the number of residential consumers and the energy use per consumer. Table 3 outlines the number of historic and projected residential consumers of Central Power's members. The total residential consumers are projected to increase by 18,026 between 2019 and 2050. This represents an average annual compound growth rate of 0.87 percent between 2019 and 2050. Graph 3 illustrates the changes in the number of residential consumers.

Table 4 outlines the historic and projected annual energy use per residential consumer. The annual energy usage per consumer is projected to increase, which is assumed attributable to the marketing efforts of Central Power and its member systems, together with the projected increasing competitiveness of electricity as compared to alternate fuels. Other considerations are the convenience and safety associated with electricity usage. Graph 4 illustrates the change in the annual energy usage per consumer.

The distribution member forecasts are forecasts of annual energy requirements by category. To translate the annual energy requirements into monthly energy and demand needs, two econometric models were developed to distribute this correctly.

The first model uses historical monthly energy purchases along with actual weather patterns to determine the monthly per unit purchase pattern. This purchase pattern is applied to the annual energy forecast to develop a monthly energy forecast. The second model was used to develop a monthly demand forecast where an econometric model is fitted through the historical load factors. The resultant load factor pattern is applied to the monthly energy forecast to determine the monthly demand forecast.

Tables 5 and 6 outline Central Power's seasonal demand sales to its member systems. The total values represent the highest demand during each season. The member values represent the demand of the individual members during the month that the total system peak occurs. The winter seasons consist of the November and December billing periods and the January through April billing periods of the following year. The summer seasons consist of the May through October billing periods. Central Power bills its members on a coincident basis so all values shown in these tables are coincident demands.

Central Power

Energy Sales To Members (MWh)

Table 1

<u>Year</u>	<u>Capital *</u>	Dakota <u>Valley</u>	<u>McLean</u>	North <u>Central</u>	Northern <u>Plains</u>	<u>Verendrye</u>	<u>Total</u>
2000	41,751	382,585	52,602	170,509	306,176	327,751	1,281,374
2001	44,401	361,644	52,861	173,265	298,618	334,431	1,265,220
2002	47,644	389,570	56,378	188,692	324,077	342,299	1,348,660
2003	50,483	407,824	57,505	189,777	312,844	348,166	1,366,599
2004	50,910	408,607	57,715	201,997	332,999	350,840	1,403,068
2005	55,871	405,271	58,734	202,335	322,586	360,833	1,405,630
2006	61,502	426,771	60,124	201,141	319,443	385,235	1,454,216
2007	66,409	441,092	93,477	210,577	343,251	404,255	1,559,061
2008	70,112	468,665	101,202	224,672	363,374	437,114	1,665,139
2009	73,837	473,957	106,392	234,747	394,930	452,461	1,736,324
2010	77,153	518,466	108,464	239,635	417,537	470,995	1,832,250
2011	79,155	558,309	111,803	245,023	421,675	504,699	1,920,664
2012	81,147	569,725	117,606	254,164	435,205	531,277	1,989,124
2013	89,609	615,825	133,442	274,345	446,527	571,758	2,131,506
2014	339,705	624,021	142,476	288,151	482,639	615,531	2,492,523
2015	343,953	631,806	132,920	261,517	459,913	588,743	2,418,852
2016	353,042	648,479	131,664	232,121	457,508	587,986	2,410,800
2017	365,999	674,379	135,421	247,087	466,142	601,643	2,490,671
2018	386,063	688,832	141,780	258,569	480,554	613,837	2,569,635
2019	395,878	700,180	142,223	261,125	478,678	634,390	2,612,474
2020	399,846	704,455	144,717	263,452	461,627	650,433	2,624,530
2021	404,909	709,749	147,808	265,478	468,385	679,842	2,676,171
2022	411,006	715,104	150,254	267,828	474,613	698,827	2,717,632
2023	417,476	719,734	152,574	269,649	480,737	710,580	2,750,750
2024	424,139	724,065	154,747	271,790	486,953	722,428	2,784,122
2025	431,054	728,987	156,675	273,154	492,738	734,327	2,816,935
2026	437,661	733,525	158,716	274,978	498,605	746,229	2,849,714
2027	444,216	737,823	160,760	276,523	504,512	758,510	2,882,344
2028	450,879	742,515	162,763	278,139	510,485	770,567	2,915,348
2029	457,419	746,654	164,799	279,736	516,504	782,463	2,947,575
2030	463,407	750,844	166,685	280,956	521,559	794,804	2,978,255
2031	469,281	754,588	168,605	281,775	526,918	805,591	3,006,758
2032	475,453	758,417	170,446	282,516	532,220	816,263	3,035,315
2033	481,698	762,047	172,370	282,933	537,377	826,783	3,063,208
2034	487,761	766,065	174,278	283,910	542,697	837,575	3,092,286
2035	493,851	769,489	176,176	284,297	548,083	848,326	3,120,222
2036	499,851	772,820	178,088	285,368	553,342	859,062	3,148,531
2037	505,922	776,547	180,238	286,029	558,568	869,783	3,177,087
2038	511,716	780,055	182,377	286,585	564,112	880,524	3,205,369
2039	517,626	783,232	184,503	287,091	569,660	891,399	3,233,511
2040	523,536	786,850	186,675	287,668	574,899	902,275	3,261,903
2041	529,417	790,500	188,823	288,033	580,611	913,331	3,290,715
2042	535,295	793,588	190,934	289,167	586,407	924,591	3,319,982
2043	541,316	797,316	193,066	289,657	592,457	935,823	3,349,635
2044	547,301	800,773	195,294	290,252	598,483	947,315	3,379,418
2045	553,288	804,490	197,429	290,818	604,428	959,038	3,409,491
2046	559,350	807,927	199,671	291,738	610,693	970,854	3,440,233
2047	565,353	811,576	201,864	292,728	617,064	982,944	3,471,529
2048	571,585	815,274	204,028	292,990	623,558	995,288	3,502,723
2049	577,929	819,187	206,274	293,859	629,893	1,007,841	3,534,983
2050	584,121	822,758	208,517	295,201	636,769	1,020,805	3,568,171

* Represents Capital Electric's Energy Requirements Obtained From Central Power.

Projected

Central Power

System Energy Requirements By Consumer Classification (MWh)

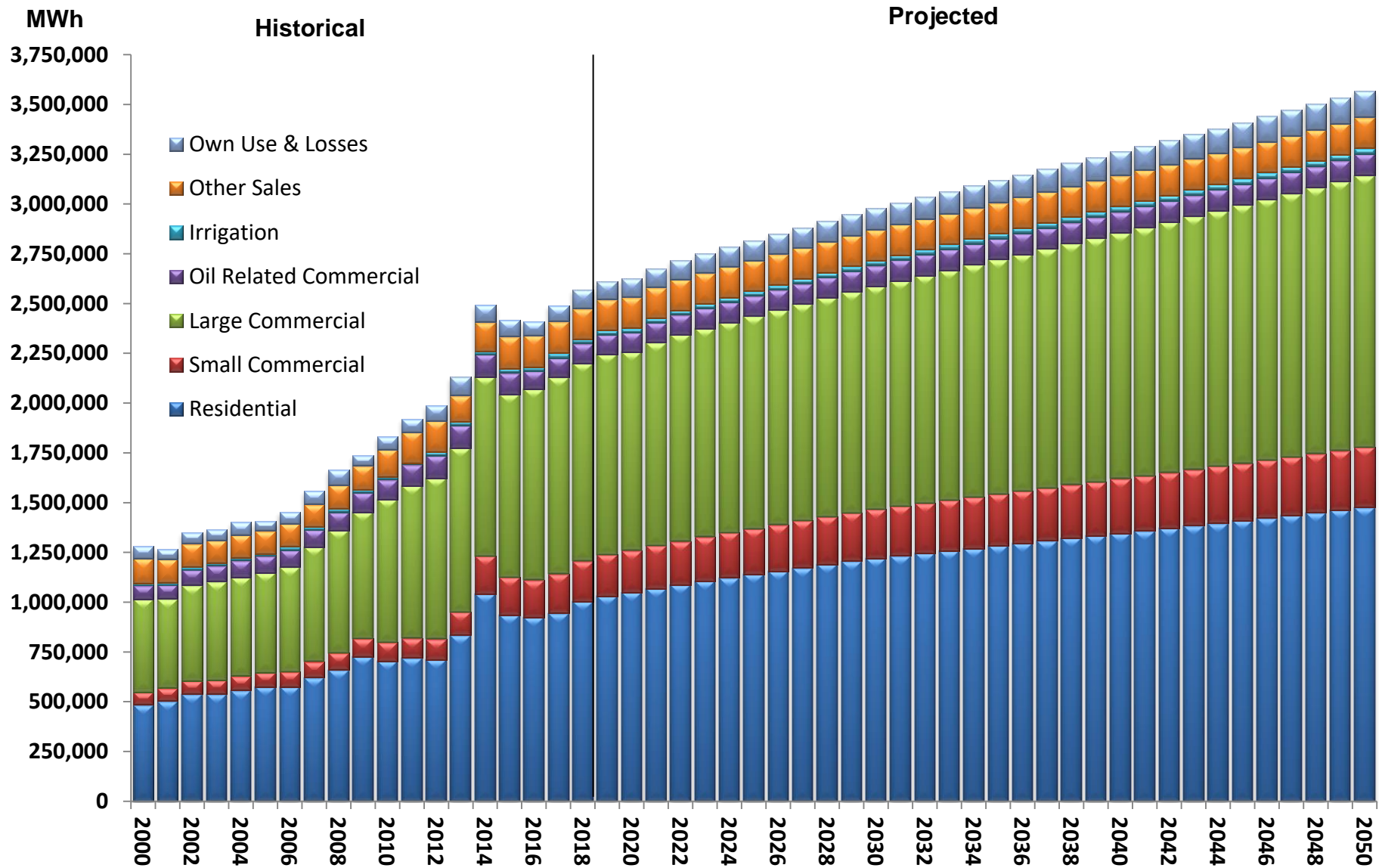
Table 2

<u>Year</u>	<u>Residential</u>	<u>Small Commercial</u>	<u>Large Commercial</u>	<u>Oil Related</u>	<u>Irrigation</u>	<u>Other Sales</u>	<u>Own Use & Losses</u>	<u>Total Energy Requirements</u>
2000	485,486	62,902	465,226	70,176	9,457	125,530	62,597	1,281,374
2001	503,279	65,127	448,654	69,396	10,405	118,329	50,030	1,265,220
2002	537,417	67,272	480,316	77,305	12,860	118,617	54,873	1,348,660
2003	538,838	70,235	495,056	79,363	13,639	113,394	56,074	1,366,599
2004	557,249	70,940	496,260	85,763	12,238	115,944	64,674	1,403,068
2005	573,434	73,532	500,260	86,045	9,460	115,624	47,275	1,405,630
2006	574,104	75,998	526,072	85,631	17,441	114,604	60,366	1,454,216
2007	621,304	79,949	574,650	87,711	13,845	113,518	68,084	1,559,061
2008	660,461	83,623	616,577	91,635	17,101	118,725	77,017	1,665,139
2009	727,639	89,586	634,885	98,200	13,512	121,502	51,000	1,736,324
2010	702,617	94,609	720,317	98,658	11,152	140,337	64,560	1,832,250
2011	720,446	99,096	765,476	106,704	7,733	153,674	67,535	1,920,664
2012	711,467	104,744	805,452	114,221	20,180	154,345	78,715	1,989,124
2013	833,610	116,591	824,165	113,217	19,698	130,979	93,246	2,131,506
2014	1,040,622	191,375	898,741	114,970	12,510	148,276	86,028	2,492,522
2015	936,435	187,833	918,946	109,103	20,556	161,913	84,069	2,418,855
2016	924,380	187,948	958,268	90,040	19,212	160,454	70,497	2,410,799
2017	944,128	197,816	987,254	96,831	25,325	158,583	80,736	2,490,673
2018	1,002,760	204,581	992,776	100,282	19,323	155,040	94,874	2,569,636
2019	1,030,365	208,191	1,006,733	99,448	21,386	155,317	91,032	2,612,472
2020	1,047,605	211,918	995,833	99,736	21,641	155,317	92,480	2,624,530
2021	1,067,677	215,486	1,021,565	100,156	21,896	155,317	94,073	2,676,170
2022	1,086,650	219,027	1,038,166	100,709	22,153	155,317	95,612	2,717,634
2023	1,104,754	222,487	1,047,722	101,014	22,408	155,317	97,048	2,750,750
2024	1,122,710	225,940	1,057,311	101,680	22,663	155,317	98,500	2,784,121
2025	1,139,763	229,324	1,067,849	101,871	22,918	155,317	99,895	2,816,937
2026	1,156,632	232,624	1,078,155	102,500	23,173	155,317	101,307	2,849,708
2027	1,173,545	235,915	1,088,551	102,882	23,429	155,317	102,708	2,882,347
2028	1,190,251	239,131	1,099,371	103,474	23,684	155,317	104,120	2,915,348
2029	1,206,005	242,351	1,110,407	104,048	23,939	155,317	105,506	2,947,573
2030	1,220,201	245,473	1,121,567	104,681	24,195	155,317	106,816	2,978,250
2031	1,232,667	248,545	1,132,755	104,992	24,450	155,317	108,030	3,006,756
2032	1,245,470	251,519	1,143,849	105,209	24,706	155,317	109,240	3,035,310
2033	1,257,977	254,451	1,154,972	105,105	24,961	155,317	110,425	3,063,208
2034	1,270,820	257,359	1,166,321	105,594	25,216	155,317	111,665	3,092,292
2035	1,283,566	260,182	1,177,304	105,533	25,471	155,317	112,847	3,120,220
2036	1,295,863	263,000	1,188,572	105,988	25,726	155,317	114,064	3,148,530
2037	1,308,664	265,741	1,199,971	106,124	25,982	155,317	115,290	3,177,089
2038	1,321,187	268,497	1,211,463	106,167	26,238	155,317	116,500	3,205,369
2039	1,333,706	271,177	1,222,995	106,118	26,492	155,317	117,704	3,233,509
2040	1,346,075	273,831	1,234,806	106,207	26,747	155,317	118,921	3,261,904
2041	1,358,770	276,514	1,246,839	106,128	27,002	155,317	120,145	3,290,715
2042	1,371,365	279,148	1,258,837	106,643	27,258	155,317	121,411	3,319,979
2043	1,384,388	281,789	1,271,344	106,611	27,513	155,317	122,670	3,349,632
2044	1,397,258	284,453	1,284,036	106,641	27,768	155,317	123,945	3,379,418
2045	1,410,163	287,093	1,297,014	106,656	28,023	155,317	125,223	3,409,489
2046	1,423,206	289,767	1,310,082	107,037	28,279	155,317	126,543	3,440,231
2047	1,436,530	292,410	1,323,453	107,405	28,535	155,317	127,884	3,471,534
2048	1,449,994	295,067	1,337,283	107,074	28,790	155,317	129,197	3,502,722
2049	1,463,589	297,744	1,351,374	107,338	29,045	155,317	130,573	3,534,980
2050	1,477,403	300,490	1,365,614	108,047	29,300	155,317	131,999	3,568,170

Projected

Central Power Members Energy Requirements and Usage

Graph 2



Central Power

Number of Residential Consumers

Table 3

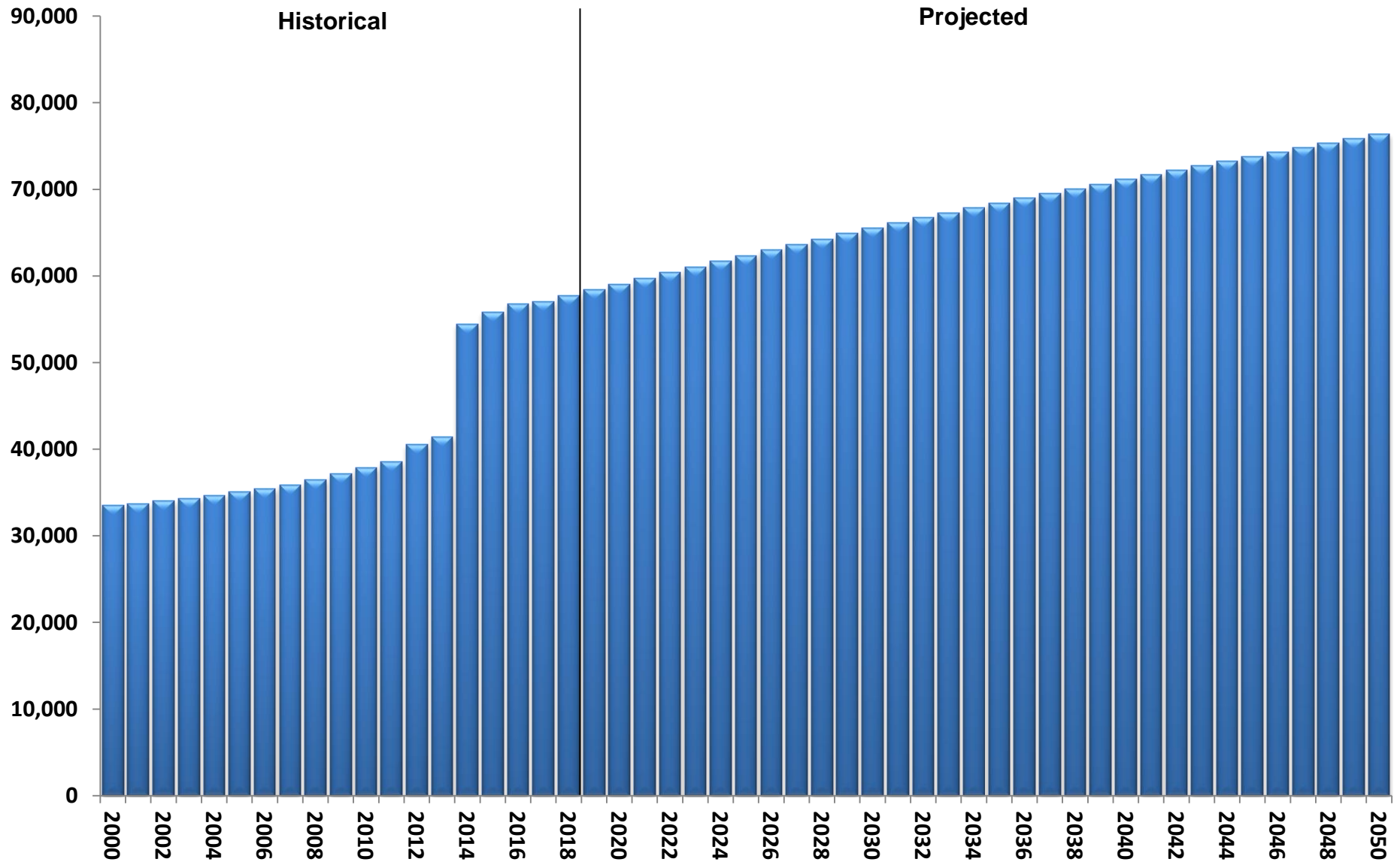
<u>Year</u>	<u>Capital</u>	<u>Dakota Valley</u>	<u>McLean</u>	<u>North Central</u>	<u>Northern Plains</u>	<u>Verendrye</u>	<u>Total</u>
2000	2,293	5,006	2,624	5,499	9,432	8,674	33,528
2001	2,388	4,991	2,625	5,500	9,427	8,745	33,676
2002	2,530	4,985	2,637	5,563	9,504	8,801	34,020
2003	2,663	5,005	2,661	5,620	9,481	8,896	34,326
2004	2,827	5,020	2,691	5,652	9,491	9,013	34,694
2005	2,927	5,035	2,730	5,680	9,505	9,208	35,085
2006	3,017	5,040	2,780	5,706	9,547	9,323	35,413
2007	3,158	5,061	2,844	5,767	9,597	9,477	35,904
2008	3,310	5,088	2,911	5,817	9,665	9,685	36,476
2009	3,450	5,104	2,944	5,875	9,716	10,056	37,145
2010	3,616	5,118	2,965	5,964	9,775	10,456	37,894
2011	3,728	5,150	3,008	5,921	9,811	10,955	38,573
2012	3,878	5,219	3,097	5,932	9,843	12,569	40,538
2013	4,065	5,285	3,181	6,036	9,920	12,960	41,447
2014	16,343	5,361	3,275	6,055	9,949	13,483	54,466
2015	17,017	5,410	3,377	6,081	9,966	14,003	55,854
2016	17,591	5,438	3,445	6,123	10,026	14,182	56,805
2017	18,034	5,463	3,483	6,077	10,087	13,896	57,040
2018	18,641	5,489	3,525	6,038	10,126	13,939	57,758
2019	18,880	5,526	3,560	6,063	10,166	14,205	58,400
2020	19,153	5,562	3,594	6,086	10,203	14,455	59,053
2021	19,444	5,599	3,626	6,108	10,236	14,707	59,720
2022	19,743	5,635	3,656	6,130	10,267	14,963	60,394
2023	20,047	5,671	3,686	6,150	10,295	15,202	61,051
2024	20,353	5,707	3,714	6,170	10,321	15,442	61,707
2025	20,661	5,743	3,742	6,189	10,345	15,681	62,361
2026	20,966	5,779	3,771	6,207	10,367	15,921	63,011
2027	21,271	5,814	3,801	6,224	10,388	16,155	63,653
2028	21,573	5,850	3,830	6,240	10,408	16,386	64,287
2029	21,873	5,885	3,860	6,254	10,426	16,613	64,911
2030	22,171	5,921	3,889	6,268	10,443	16,837	65,529
2031	22,467	5,956	3,918	6,279	10,459	17,057	66,136
2032	22,759	5,991	3,947	6,289	10,473	17,271	66,730
2033	23,049	6,027	3,976	6,298	10,486	17,479	67,315
2034	23,336	6,062	4,005	6,306	10,498	17,683	67,890
2035	23,619	6,097	4,034	6,316	10,509	17,881	68,456
2036	23,898	6,132	4,063	6,324	10,519	18,076	69,012
2037	24,173	6,167	4,093	6,330	10,528	18,266	69,557
2038	24,445	6,201	4,121	6,335	10,537	18,452	70,091
2039	24,714	6,236	4,149	6,340	10,545	18,637	70,621
2040	24,982	6,271	4,178	6,344	10,552	18,820	71,147
2041	25,248	6,306	4,206	6,348	10,559	19,002	71,669
2042	25,514	6,341	4,234	6,351	10,566	19,185	72,191
2043	25,779	6,376	4,263	6,355	10,574	19,366	72,713
2044	26,045	6,410	4,292	6,358	10,581	19,548	73,234
2045	26,312	6,445	4,320	6,362	10,589	19,730	73,758
2046	26,580	6,480	4,348	6,366	10,596	19,913	74,283
2047	26,850	6,515	4,375	6,370	10,603	20,097	74,810
2048	27,123	6,550	4,402	6,373	10,610	20,284	75,342
2049	27,399	6,586	4,430	6,376	10,617	20,473	75,881
2050	27,678	6,621	4,457	6,379	10,625	20,666	76,426

Projected

Central Power

Graph 3

Number of Residential Consumers



Central Power

Number of Residential Consumers and Energy Usage

Table 4

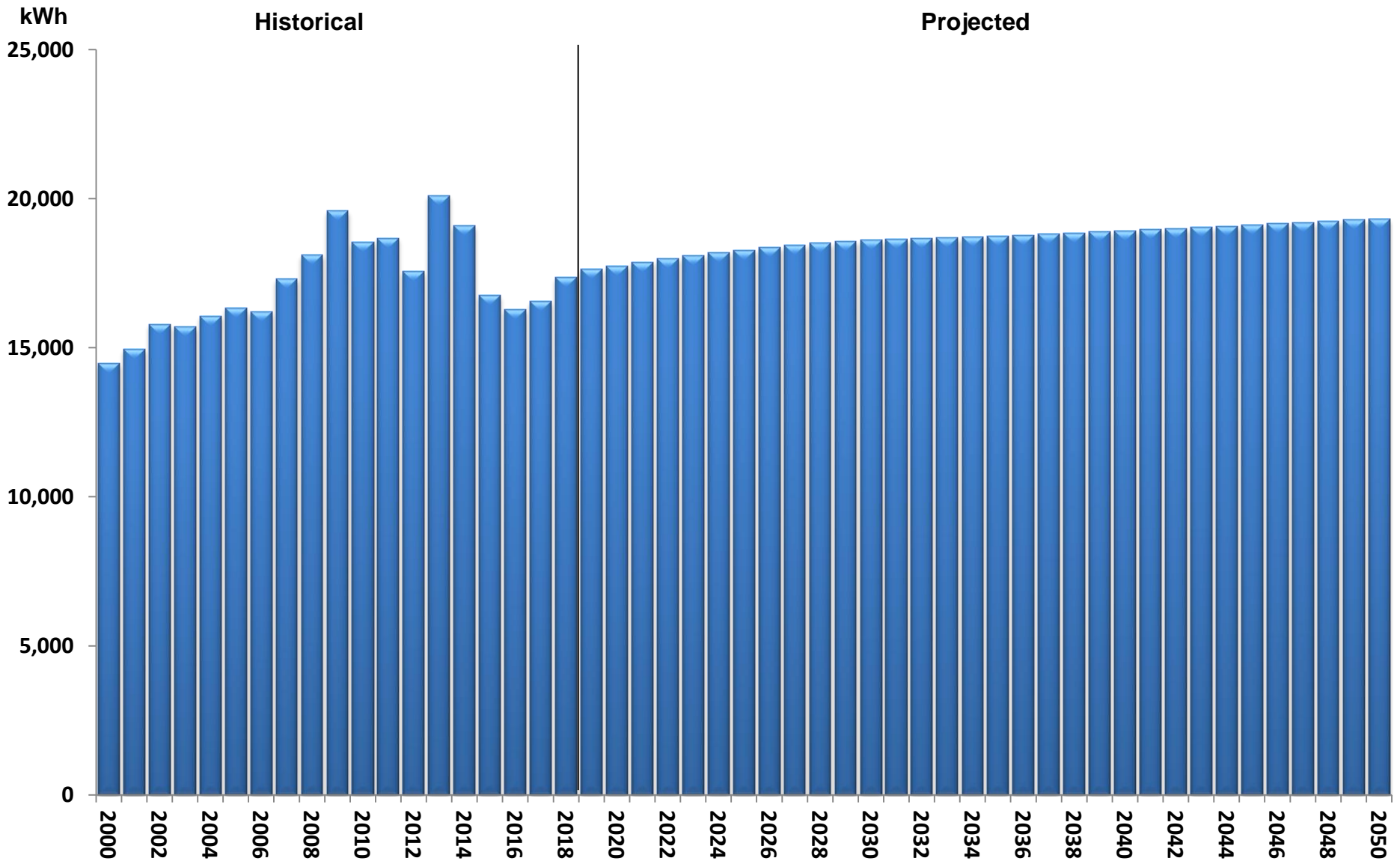
<u>Year</u>	<u>Residential Consumers</u>	<u>Residential Energy Sales (MWh)</u>	<u>Usage / Cons (kWh)</u>	<u>Percent Change</u>
2000	33,528	485,486	14,480	0.17%
2001	33,676	503,279	14,945	3.21%
2002	34,020	537,417	15,797	5.70%
2003	34,326	538,838	15,698	-0.63%
2004	34,694	557,249	16,062	2.32%
2005	35,085	573,434	16,344	1.76%
2006	35,413	574,104	16,212	-0.81%
2007	35,904	621,304	17,305	6.74%
2008	36,476	660,461	18,107	4.63%
2009	37,145	727,639	19,589	8.18%
2010	37,894	702,617	18,542	-5.34%
2011	38,573	720,446	18,677	0.73%
2012	40,538	711,467	17,551	-6.03%
2013	41,447	833,610	20,113	14.60%
2014	54,466	1,040,622	19,106	-5.01%
2015	55,854	936,435	16,766	-12.25%
2016	56,805	924,380	16,273	-2.94%
2017	57,040	944,128	16,552	1.71%
2018	57,758	1,002,760	17,361	4.89%
2019	58,400	1,030,365	17,643	1.62%
2020	59,053	1,047,605	17,740	0.55%
2021	59,720	1,067,677	17,878	0.78%
2022	60,394	1,086,650	17,993	0.64%
2023	61,051	1,104,754	18,096	0.57%
2024	61,707	1,122,710	18,194	0.54%
2025	62,361	1,139,763	18,277	0.46%
2026	63,011	1,156,632	18,356	0.43%
2027	63,653	1,173,545	18,437	0.44%
2028	64,287	1,190,251	18,515	0.42%
2029	64,911	1,206,005	18,579	0.35%
2030	65,529	1,220,201	18,621	0.23%
2031	66,136	1,232,667	18,638	0.09%
2032	66,730	1,245,470	18,664	0.14%
2033	67,315	1,257,977	18,688	0.13%
2034	67,890	1,270,820	18,719	0.17%
2035	68,456	1,283,566	18,750	0.17%
2036	69,012	1,295,863	18,777	0.14%
2037	69,557	1,308,664	18,814	0.20%
2038	70,091	1,321,187	18,850	0.19%
2039	70,621	1,333,706	18,885	0.19%
2040	71,147	1,346,075	18,920	0.19%
2041	71,669	1,358,770	18,959	0.21%
2042	72,191	1,371,365	18,996	0.20%
2043	72,713	1,384,388	19,039	0.23%
2044	73,234	1,397,258	19,079	0.21%
2045	73,758	1,410,163	19,119	0.21%
2046	74,283	1,423,206	19,159	0.21%
2047	74,810	1,436,530	19,202	0.22%
2048	75,342	1,449,994	19,245	0.22%
2049	75,881	1,463,589	19,288	0.22%
2050	76,426	1,477,403	19,331	0.22%

Projected

Central Power

Graph 4

Annual Energy Usage Per Residential Consumer



Central Power

Winter Season Demand Sales to Members (kW)

Table 5

Winter Season	Capital *	Dakota Valley	McLean	North Central	Northern Plains	Verendrye	Total
99/00	7,631	59,099	8,313	31,757	58,923	55,989	221,712
00/01	8,381	61,219	9,628	35,462	56,663	59,839	231,192
01/02	7,365	55,154	9,161	34,496	56,198	54,268	216,642
02/03	8,344	62,027	9,628	37,332	63,515	59,107	239,953
03/04	9,538	64,219	10,590	41,233	64,882	63,176	253,638
04/05	9,479	64,701	10,887	41,554	67,373	65,852	259,846
05/06	10,694	66,743	11,064	43,334	66,175	70,102	268,112
06/07	11,317	68,831	11,051	43,388	65,074	73,389	273,050
07/08	12,259	66,740	16,628	46,606	73,260	81,937	297,430
08/09	15,542	78,996	17,621	48,123	77,699	84,037	322,018
09/10	14,203	84,218	17,779	47,830	78,541	86,016	328,587
10/11	14,971	77,546	19,491	48,423	80,746	89,470	330,647
11/12	15,955	92,031	19,930	52,683	83,279	109,881	373,759
12/13	15,631	91,282	21,223	54,529	82,503	112,218	377,386
13/14	77,500	98,431	25,194	60,180	95,126	122,894	479,325
14/15	70,389	98,716	24,868	59,061	92,491	118,132	463,657
15/16	64,656	100,685	22,709	53,496	82,247	112,567	436,360
16/17	73,621	108,238	23,182	53,690	87,966	119,597	466,294
17/18	70,629	103,864	25,581	55,536	88,889	120,491	464,990
18/19	74,153	105,504	25,690	58,607	88,342	125,888	478,185
19/20	74,431	109,272	26,188	59,087	89,221	128,794	486,993
20/21	75,182	110,182	26,822	59,452	90,425	133,346	495,410
21/22	76,208	111,143	27,328	59,935	91,587	137,925	504,126
22/23	77,324	111,973	27,810	60,306	92,746	140,286	510,445
23/24	78,498	112,759	28,263	60,761	93,944	142,684	516,909
24/25	79,664	113,628	28,649	61,005	94,994	145,027	522,969
25/26	80,795	114,438	29,066	61,368	96,087	147,394	529,148
26/27	81,926	115,208	29,486	61,676	97,198	149,853	535,346
27/28	83,087	116,063	29,899	62,004	98,330	152,270	541,652
28/29	84,233	116,812	30,320	62,333	99,478	154,659	547,834
29/30	85,180	117,527	30,689	62,523	100,343	157,043	553,305
30/31	86,118	118,160	31,068	62,633	101,284	159,105	558,367
31/32	87,128	118,819	31,432	62,733	102,227	161,155	563,493
32/33	88,164	119,445	31,817	62,768	103,150	163,186	568,531
33/34	89,173	120,153	32,200	62,935	104,117	165,284	573,861
34/35	90,196	120,751	32,583	62,973	105,104	167,382	578,988
35/36	91,211	121,335	32,970	63,172	106,075	169,488	584,252
36/37	92,250	122,001	33,412	63,284	107,046	171,599	589,593
37/38	93,239	122,628	33,851	63,376	108,087	173,720	594,901
38/39	94,256	123,192	34,289	63,460	109,134	175,873	600,205
39/40	95,287	123,849	34,741	63,567	110,128	178,041	605,612
40/41	96,311	124,511	35,185	63,625	111,218	180,246	611,096
41/42	97,333	125,064	35,622	63,858	112,324	182,491	616,692
42/43	98,382	125,741	36,063	63,945	113,481	184,728	622,339
43/44	99,423	126,364	36,524	64,056	114,632	187,018	628,018
44/45	100,463	127,038	36,965	64,160	115,766	189,354	633,746
45/46	101,517	127,657	37,428	64,344	116,964	191,708	639,618
46/47	102,557	128,317	37,881	64,543	118,183	194,117	645,598
47/48	103,639	128,985	38,327	64,578	119,426	196,575	651,531
48/49	104,741	129,694	38,790	64,751	120,635	199,075	657,686
49/50	105,812	130,337	39,253	65,028	121,953	201,658	664,041

* Represents Capital Electric's Demand Requirements Obtained From Central Power.

Projected

Central Power

Summer Season Demand Sales to Members (kW)

Table 6

Summer Season	Capital *	Dakota Valley	McLean	North Central	Northern Plains	Verendrye	Total
2000	8,751	49,930	7,831	18,739	42,175	51,360	178,786
2001	6,643	54,779	7,529	24,097	46,223	46,531	185,802
2002	6,929	61,938	8,681	29,871	52,667	48,916	209,002
2003	12,127	54,041	8,015	20,146	42,124	59,374	195,827
2004	6,852	54,057	7,504	29,234	50,913	45,923	194,483
2005	7,511	60,597	7,643	26,956	46,264	47,675	196,646
2006	10,001	65,442	8,859	29,716	48,924	57,260	220,202
2007	16,119	52,843	12,860	22,709	40,041	69,122	213,694
2008	9,612	60,271	12,864	32,382	50,442	59,582	225,153
2009	9,844	62,309	13,644	32,482	56,358	58,343	232,980
2010	11,741	67,879	14,202	35,110	63,328	65,274	257,534
2011	10,296	78,129	14,833	32,194	61,396	65,534	262,382
2012	11,350	78,548	16,092	37,445	71,093	74,585	289,113
2013	11,959	90,486	17,550	37,310	66,168	77,042	300,515
2014	46,567	93,385	18,631	41,371	81,541	86,261	367,756
2015	82,697	81,524	21,720	29,784	61,375	86,700	363,800
2016	74,202	79,479	21,420	24,863	57,712	87,597	345,273
2017	47,509	96,515	18,871	37,225	71,625	82,711	354,456
2018	83,592	76,354	22,319	26,041	57,830	86,495	352,631
2019	84,588	77,857	22,513	27,232	61,311	86,670	360,170
2020	84,986	78,373	22,920	27,448	57,465	88,880	360,073
2021	85,877	78,890	23,438	27,603	58,176	93,177	367,162
2022	87,068	79,442	23,850	27,820	58,865	95,833	372,879
2023	88,358	79,918	24,243	27,987	59,554	97,349	377,408
2024	89,710	80,370	24,612	28,194	60,266	98,891	382,043
2025	91,063	80,867	24,928	28,297	60,887	100,391	386,433
2026	92,371	81,331	25,268	28,458	61,535	101,909	390,872
2027	93,678	81,773	25,611	28,595	62,194	103,487	395,338
2028	95,018	82,265	25,947	28,742	62,866	105,039	399,877
2029	96,339	82,696	26,290	28,890	63,547	106,573	404,336
2030	97,451	83,101	26,592	28,965	64,057	108,095	408,261
2031	98,549	83,459	26,903	29,003	64,612	109,408	411,934
2032	99,727	83,834	27,200	29,039	65,169	110,716	415,684
2033	100,931	84,190	27,515	29,046	65,715	112,012	419,409
2034	102,105	84,594	27,828	29,115	66,286	113,352	423,280
2035	103,292	84,935	28,141	29,124	66,871	114,693	427,057
2036	104,469	85,268	28,458	29,210	67,446	116,041	430,893
2037	105,672	85,650	28,818	29,256	68,022	117,392	434,811
2038	106,817	86,010	29,176	29,294	68,639	118,750	438,686
2039	107,993	86,333	29,534	29,328	69,260	120,131	442,578
2040	109,182	86,711	29,901	29,374	69,850	121,521	446,539
2041	110,363	87,092	30,264	29,397	70,498	122,935	450,549
2042	111,543	87,409	30,620	29,502	71,155	124,375	454,604
2043	112,754	87,798	30,979	29,538	71,842	125,810	458,722
2044	113,956	88,157	31,355	29,586	72,526	127,279	462,859
2045	115,156	88,544	31,715	29,631	73,199	128,777	467,023
2046	116,372	88,900	32,093	29,713	73,911	130,287	471,275
2047	117,574	89,279	32,462	29,801	74,635	131,832	475,583
2048	118,823	89,663	32,826	29,814	75,374	133,409	479,908
2049	120,095	90,071	33,203	29,891	76,092	135,012	484,363
2050	121,332	90,440	33,581	30,016	76,875	136,668	488,912

* Represents Capital Electric's Demand Requirements Obtained From Central Power.

Projected

Power Supply

CENTRAL POWER WHOLESALE PURCHASES

The difference between Central Power sales to its members and its wholesale power purchases represent transmission losses. Table 7 outlines Central Power historical and projected annual energy sales, losses and purchases. Graph 7 presents the Central Power historical and projected energy sales requirements as shown in Table 7. Similar information is provided in Tables 8 and 9 for the winter season and summer season demand. Graphs 8 and 9 present winter and summer seasonal demand requirements shown in Tables 8 and 9. Included in the appendix are comparable values for each month of the forecast period.

Central Power's projected wholesale power requirements or purchases were obtained by increasing their projected sales by a factor to address transmission losses. Individual loss factors were developed for energy, winter season demand and summer season demand based on historical losses and the anticipated loading of the transmission system.

Table 10 summarizes Central Power's wholesale power requirements or purchases. The table indicates that Central Power's annual energy requirements are projected to increase at an average compound growth rate of 1.01 percent over the 2019 to 2050 forecast period. Graphs 10a and 10b illustrate the changes in Central Power's annual peak demand and annual energy requirements. Graph 10c illustrates the annual percentage change in Central Power's wholesale energy requirements for the 2000 to 2050 period.

Central Power has a long-term power supply contract with the Western Area Power Administration (Western) that provides for Western to deliver a fixed amount of demand and energy to Central Power on a monthly basis. Basin Electric Power Cooperative supplies all Central Power requirements in excess of the Western deliveries.

Table 11 illustrates the power supply shares of Central Power's purchases. Graph 11 also presents Central Power's annual purchases by power supplier.

Table 12 illustrates Central Power's seasonal demand purchases by power supplier. Graphs 12a and 12b also present Central Power's seasonal demand purchases by power supplier.

Central Power

Energy Sales and Purchases (MWh)

Table 7

<u>Year</u>	<u>Sales</u>	<u>Losses</u>	<u>Percent Losses</u>	<u>Purchases</u>
2000	1,281,374	47,771	3.7%	1,329,145
2001	1,265,220	48,211	3.8%	1,313,431
2002	1,348,660	52,940	3.9%	1,401,600
2003	1,366,599	52,589	3.8%	1,419,188
2004	1,403,068	55,308	3.9%	1,458,376
2005	1,405,630	61,115	4.3%	1,466,745
2006	1,454,216	57,608	4.0%	1,511,824
2007	1,559,061	61,355	3.9%	1,620,416
2008	1,665,139	64,050	3.8%	1,729,189
2009	1,736,324	66,290	3.8%	1,802,614
2010	1,832,250	62,240	3.4%	1,894,490
2011	1,920,664	61,656	3.2%	1,982,320
2012	1,989,124	64,094	3.2%	2,053,218
2013	2,131,506	66,996	3.1%	2,198,502
2014	2,492,523	84,130	3.4%	2,576,653
2015	2,418,852	75,704	3.1%	2,494,556
2016	2,410,800	47,612	2.0%	2,458,412
2017	2,490,671	47,867	1.9%	2,538,538
2018	2,569,635	43,370	1.7%	2,613,005
2019	2,612,474	62,700	2.4%	2,675,174
2020	2,624,530	62,989	2.4%	2,687,519
2021	2,676,171	64,229	2.4%	2,740,400
2022	2,717,632	65,222	2.4%	2,782,854
2023	2,750,750	66,016	2.4%	2,816,766
2024	2,784,122	66,818	2.4%	2,850,940
2025	2,816,935	67,608	2.4%	2,884,543
2026	2,849,714	68,394	2.4%	2,918,108
2027	2,882,344	69,176	2.4%	2,951,520
2028	2,915,348	69,968	2.4%	2,985,316
2029	2,947,575	70,742	2.4%	3,018,317
2030	2,978,255	71,479	2.4%	3,049,734
2031	3,006,758	72,163	2.4%	3,078,921
2032	3,035,315	72,848	2.4%	3,108,163
2033	3,063,208	73,518	2.4%	3,136,726
2034	3,092,286	74,215	2.4%	3,166,501
2035	3,120,222	74,885	2.4%	3,195,107
2036	3,148,531	75,566	2.4%	3,224,097
2037	3,177,087	76,251	2.4%	3,253,338
2038	3,205,369	76,929	2.4%	3,282,298
2039	3,233,511	77,602	2.4%	3,311,113
2040	3,261,903	78,288	2.4%	3,340,191
2041	3,290,715	78,976	2.4%	3,369,691
2042	3,319,982	79,679	2.4%	3,399,661
2043	3,349,635	80,393	2.4%	3,430,028
2044	3,379,418	81,106	2.4%	3,460,524
2045	3,409,491	81,828	2.4%	3,491,319
2046	3,440,233	82,565	2.4%	3,522,798
2047	3,471,529	83,319	2.4%	3,554,848
2048	3,502,723	84,065	2.4%	3,586,788
2049	3,534,983	84,838	2.4%	3,619,821
2050	3,568,171	85,637	2.4%	3,653,808

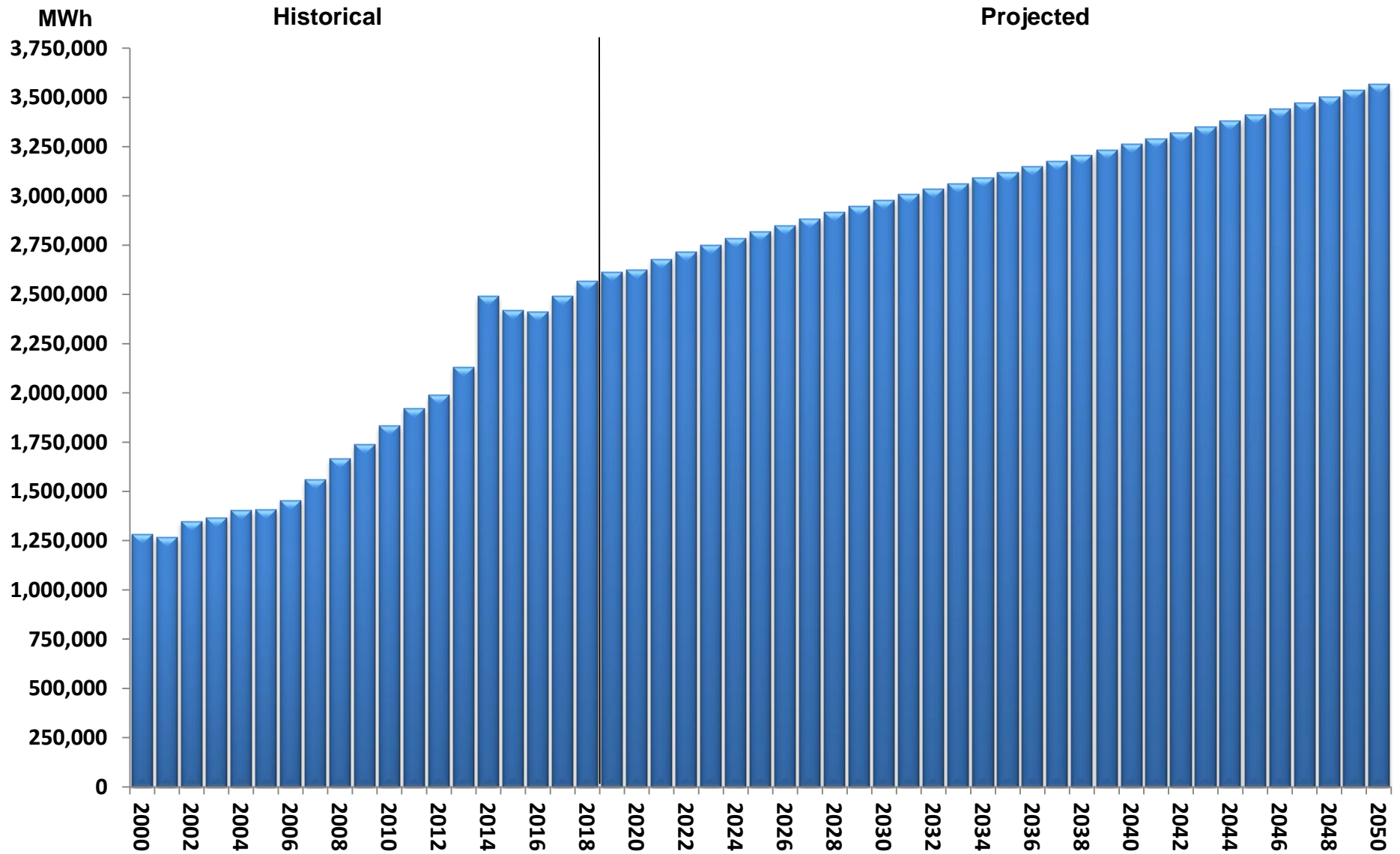
*Energy Loss Factor for Projected Period Assumed to be 2.4%

Projected

Central Power

Annual Energy Sales Requirements

Graph 7



Central Power

Winter Season Demand Sales and Purchases (kW)

Table 8

Winter Season	Sales	Losses	Percent Losses	Purchases
99/00	221,712	8,052	3.6%	229,764
00/01	231,192	8,678	3.8%	239,870
01/02	216,642	8,427	3.9%	225,069
02/03	239,953	9,220	3.8%	249,173
03/04	253,638	9,835	3.9%	263,473
04/05	259,846	10,088	3.9%	269,934
05/06	268,112	10,515	3.9%	278,627
06/07	273,050	10,721	3.9%	283,771
07/08	297,430	11,717	3.9%	309,147
08/09	322,018	12,066	3.7%	334,084
09/10	328,587	12,829	3.9%	341,416
10/11	330,647	11,696	3.5%	342,343
11/12	373,759	12,244	3.3%	386,003
12/13	377,386	12,620	3.3%	390,006
13/14	479,325	15,242	3.2%	494,567
14/15	463,657	14,558	3.1%	478,215
15/16	436,360	9,328	2.1%	445,688
16/17	466,294	9,631	2.1%	475,925
17/18	464,990	7,460	1.6%	472,450
18/19	478,185	11,476	2.4%	489,661
19/20	486,993	11,687	2.4%	498,680
20/21	495,410	11,890	2.4%	507,300
21/22	504,126	12,099	2.4%	516,225
22/23	510,445	12,251	2.4%	522,696
23/24	516,909	12,406	2.4%	529,315
24/25	522,969	12,551	2.4%	535,520
25/26	529,148	12,699	2.4%	541,847
26/27	535,346	12,849	2.4%	548,195
27/28	541,652	13,000	2.4%	554,652
28/29	547,834	13,148	2.4%	560,982
29/30	553,305	13,280	2.4%	566,585
30/31	558,367	13,401	2.4%	571,768
31/32	563,493	13,524	2.4%	577,017
32/33	568,531	13,645	2.4%	582,176
33/34	573,861	13,773	2.4%	587,634
34/35	578,988	13,896	2.4%	592,884
35/36	584,252	14,022	2.4%	598,274
36/37	589,593	14,150	2.4%	603,743
37/38	594,901	14,277	2.4%	609,178
38/39	600,205	14,405	2.4%	614,610
39/40	605,612	14,535	2.4%	620,147
40/41	611,096	14,666	2.4%	625,762
41/42	616,692	14,800	2.4%	631,492
42/43	622,339	14,937	2.4%	637,276
43/44	628,018	15,072	2.4%	643,090
44/45	633,746	15,210	2.4%	648,956
45/46	639,618	15,350	2.4%	654,968
46/47	645,598	15,494	2.4%	661,092
47/48	651,531	15,636	2.4%	667,167
48/49	657,686	15,784	2.4%	673,470
49/50	664,041	15,936	2.4%	679,977

*Winter Season Demand Loss Factor for Projected Period Assumed to be 2.4%

Projected

Central Power

Summer Season Demand Sales and Purchases (kW)

Table 9

Summer Season	Sales	Losses	Percent Losses	Purchases
2000	178,786	6,070	3.4%	184,856
2001	185,802	7,163	3.9%	192,965
2002	209,002	8,145	3.9%	217,147
2003	195,827	7,151	3.7%	202,978
2004	194,483	7,127	3.7%	201,610
2005	196,646	7,342	3.7%	203,988
2006	220,202	8,422	3.8%	228,624
2007	213,694	7,490	3.5%	221,184
2008	225,153	8,488	3.8%	233,641
2009	232,980	8,269	3.5%	241,249
2010	257,534	7,512	2.9%	265,046
2011	262,382	6,898	2.6%	269,280
2012	289,113	8,704	3.0%	297,817
2013	300,515	8,121	2.7%	308,636
2014	367,756	10,192	2.8%	377,948
2015	363,800	6,142	1.7%	369,942
2016	345,273	6,556	1.9%	351,829
2017	354,456	7,404	2.1%	361,860
2018	352,631	5,642	1.6%	358,273
2019	360,170	8,644	2.4%	368,814
2020	360,073	8,642	2.4%	368,715
2021	367,162	8,812	2.4%	375,974
2022	372,879	8,949	2.4%	381,828
2023	377,408	9,058	2.4%	386,466
2024	382,043	9,169	2.4%	391,212
2025	386,433	9,275	2.4%	395,708
2026	390,872	9,381	2.4%	400,253
2027	395,338	9,488	2.4%	404,826
2028	399,877	9,597	2.4%	409,474
2029	404,336	9,704	2.4%	414,040
2030	408,261	9,798	2.4%	418,059
2031	411,934	9,887	2.4%	421,821
2032	415,684	9,976	2.4%	425,660
2033	419,409	10,066	2.4%	429,475
2034	423,280	10,159	2.4%	433,439
2035	427,057	10,249	2.4%	437,306
2036	430,893	10,341	2.4%	441,234
2037	434,811	10,435	2.4%	445,246
2038	438,686	10,528	2.4%	449,214
2039	442,578	10,622	2.4%	453,200
2040	446,539	10,717	2.4%	457,256
2041	450,549	10,813	2.4%	461,362
2042	454,604	10,910	2.4%	465,514
2043	458,722	11,009	2.4%	469,731
2044	462,859	11,109	2.4%	473,968
2045	467,023	11,208	2.4%	478,231
2046	471,275	11,311	2.4%	482,586
2047	475,583	11,414	2.4%	486,997
2048	479,908	11,518	2.4%	491,426
2049	484,363	11,625	2.4%	495,988
2050	488,912	11,734	2.4%	500,646

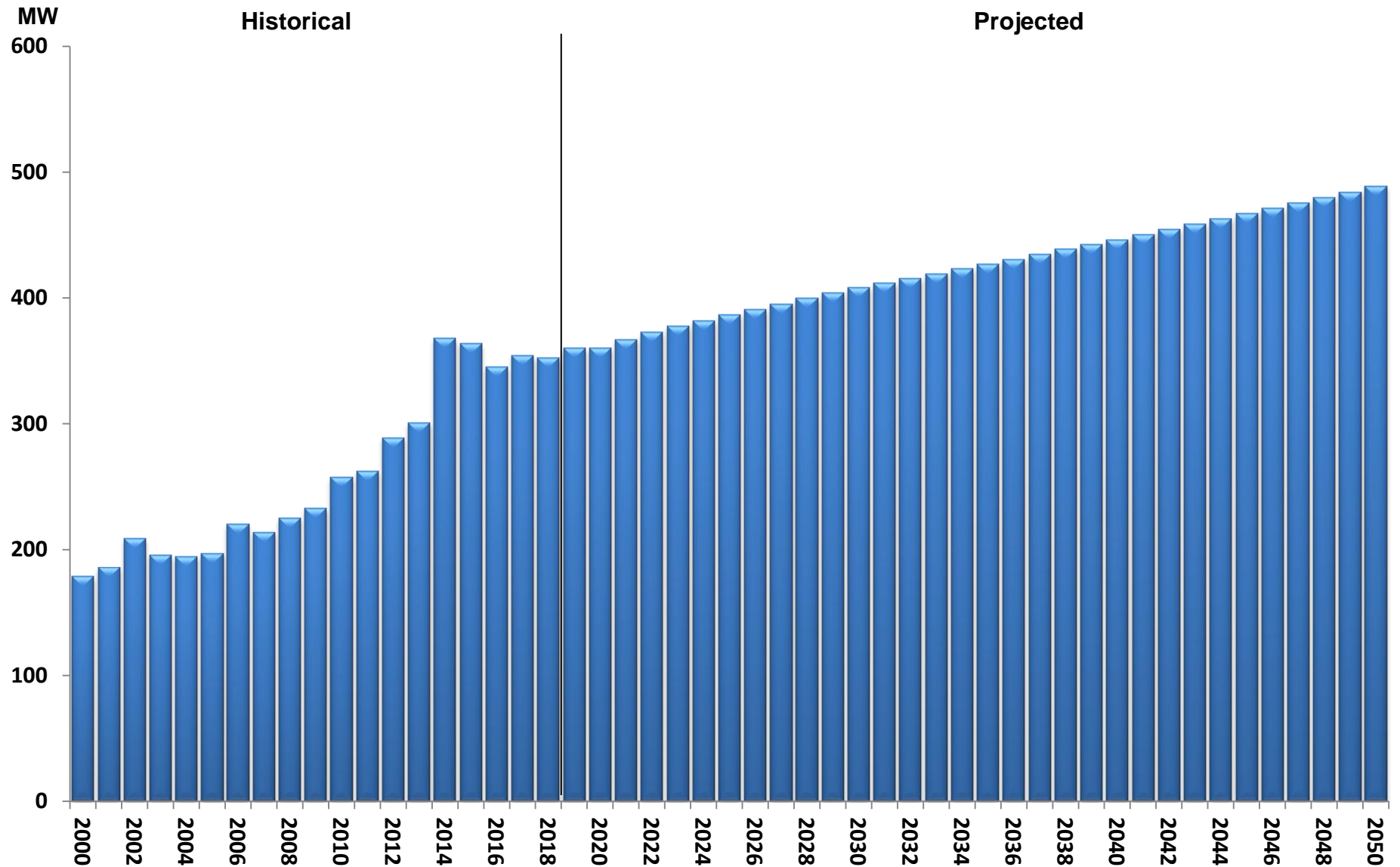
*Summer Season Demand Loss Factor for Projected Period Assumed to be 2%

Projected

Central Power

Graph 9

Summer Season Demand Sales Requirements



Central Power

Wholesale Power Requirements

Table 10

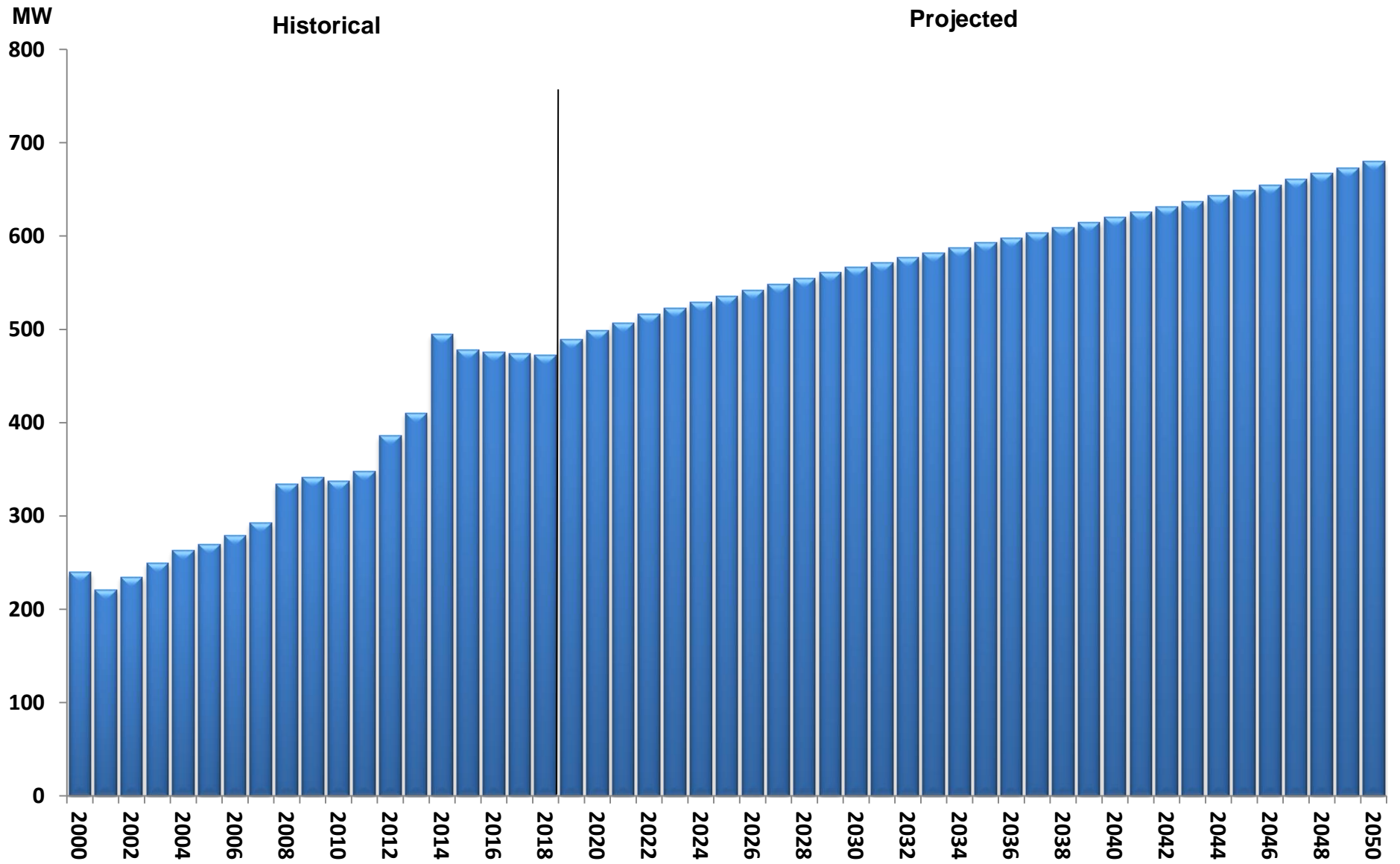
<u>Year</u>	<u>Annual Peak Demand (kW)</u>	<u>Change (Percent)</u>	<u>Annual Energy (MWh)</u>	<u>Change (Percent)</u>	<u>Annual Load Factor (Percent)</u>
2000	239,870	3.15%	1,329,145	3.74%	63.25%
2001	221,097	-7.83%	1,313,431	-1.18%	67.81%
2002	234,768	6.18%	1,401,600	6.71%	68.15%
2003	249,173	6.14%	1,419,188	1.25%	65.02%
2004	263,473	5.74%	1,458,376	2.76%	63.19%
2005	269,934	2.45%	1,466,745	0.57%	62.03%
2006	278,815	3.29%	1,511,824	3.07%	61.90%
2007	292,685	4.97%	1,620,416	7.18%	63.20%
2008	334,084	14.14%	1,729,189	6.71%	59.09%
2009	341,416	2.19%	1,802,614	4.25%	60.27%
2010	337,232	-1.23%	1,894,490	5.10%	64.13%
2011	348,227	3.26%	1,982,320	4.64%	64.98%
2012	386,003	10.85%	2,053,218	3.58%	60.72%
2013	410,525	6.35%	2,198,502	7.08%	61.13%
2014	494,567	20.47%	2,576,653	17.20%	59.47%
2015	478,215	-3.31%	2,494,556	-3.19%	59.55%
2016	475,925	-0.48%	2,458,412	-1.45%	58.97%
2017	474,417	-0.32%	2,538,538	3.26%	61.08%
2018	472,450	-0.41%	2,613,005	2.93%	63.14%
2019	489,661	3.64%	2,675,174	2.38%	62.37%
2020	498,680	1.84%	2,687,519	0.46%	61.52%
2021	507,300	1.73%	2,740,400	1.97%	61.67%
2022	516,225	1.76%	2,782,854	1.55%	61.54%
2023	522,696	1.25%	2,816,766	1.22%	61.52%
2024	529,315	1.27%	2,850,940	1.21%	61.49%
2025	535,520	1.17%	2,884,543	1.18%	61.49%
2026	541,847	1.18%	2,918,108	1.16%	61.48%
2027	548,195	1.17%	2,951,520	1.14%	61.46%
2028	554,652	1.18%	2,985,316	1.15%	61.44%
2029	560,982	1.14%	3,018,317	1.11%	61.42%
2030	566,585	1.00%	3,049,734	1.04%	61.45%
2031	571,768	0.91%	3,078,921	0.96%	61.47%
2032	577,017	0.92%	3,108,163	0.95%	61.49%
2033	582,176	0.89%	3,136,726	0.92%	61.51%
2034	587,634	0.94%	3,166,501	0.95%	61.51%
2035	592,884	0.89%	3,195,107	0.90%	61.52%
2036	598,274	0.91%	3,224,097	0.91%	61.52%
2037	603,743	0.91%	3,253,338	0.91%	61.51%
2038	609,178	0.90%	3,282,298	0.89%	61.51%
2039	614,610	0.89%	3,311,113	0.88%	61.50%
2040	620,147	0.90%	3,340,191	0.88%	61.49%
2041	625,762	0.91%	3,369,691	0.88%	61.47%
2042	631,492	0.92%	3,399,661	0.89%	61.46%
2043	637,276	0.92%	3,430,028	0.89%	61.44%
2044	643,090	0.91%	3,460,524	0.89%	61.43%
2045	648,956	0.91%	3,491,319	0.89%	61.41%
2046	654,968	0.93%	3,522,798	0.90%	61.40%
2047	661,092	0.94%	3,554,848	0.91%	61.38%
2048	667,167	0.92%	3,586,788	0.90%	61.37%
2049	673,470	0.94%	3,619,821	0.92%	61.36%
2050	679,977	0.97%	3,653,808	0.94%	61.34%

Projected

Central Power

Graph 10a

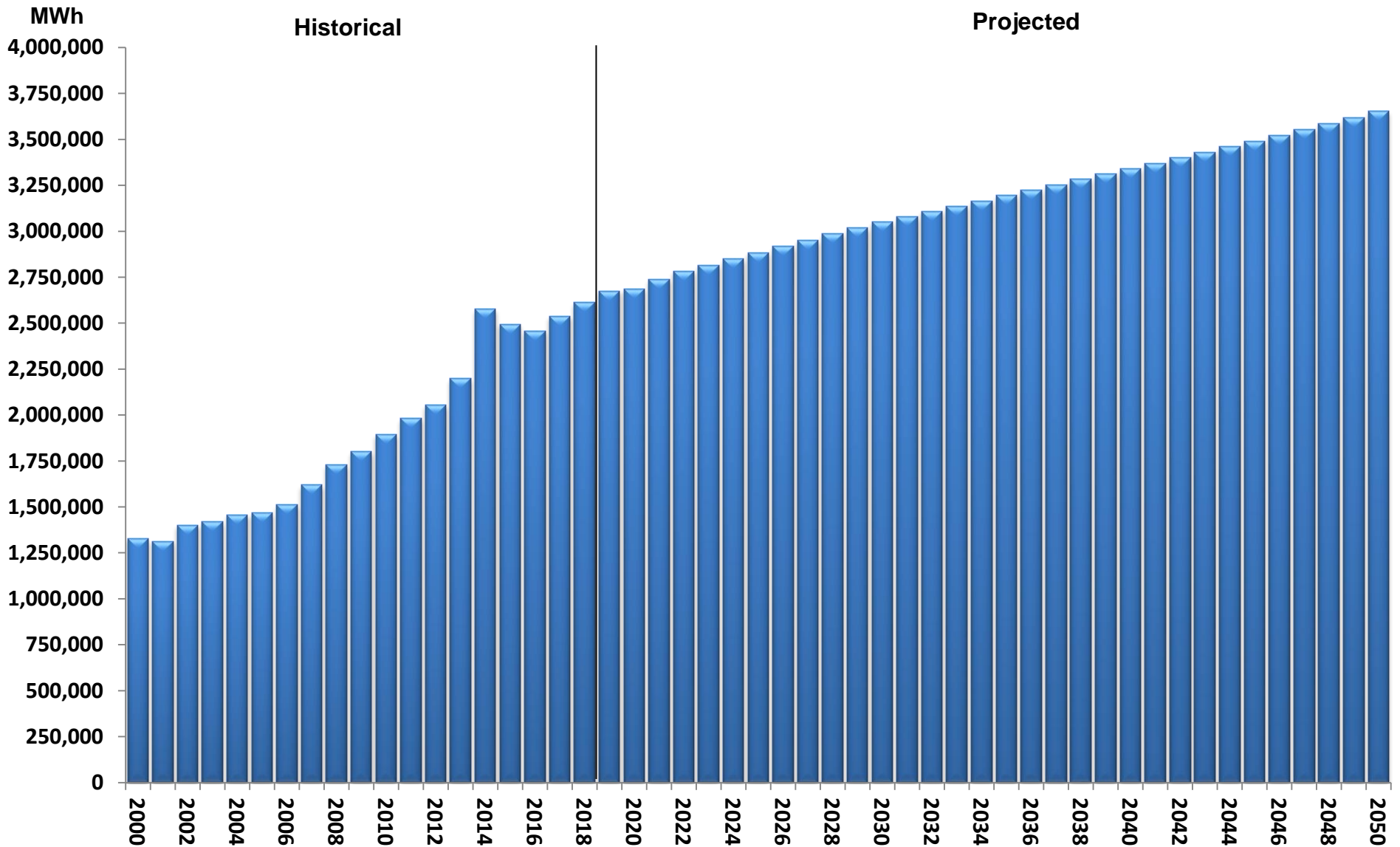
Annual Peak Demand Sales Purchases



Central Power

Graph 10b

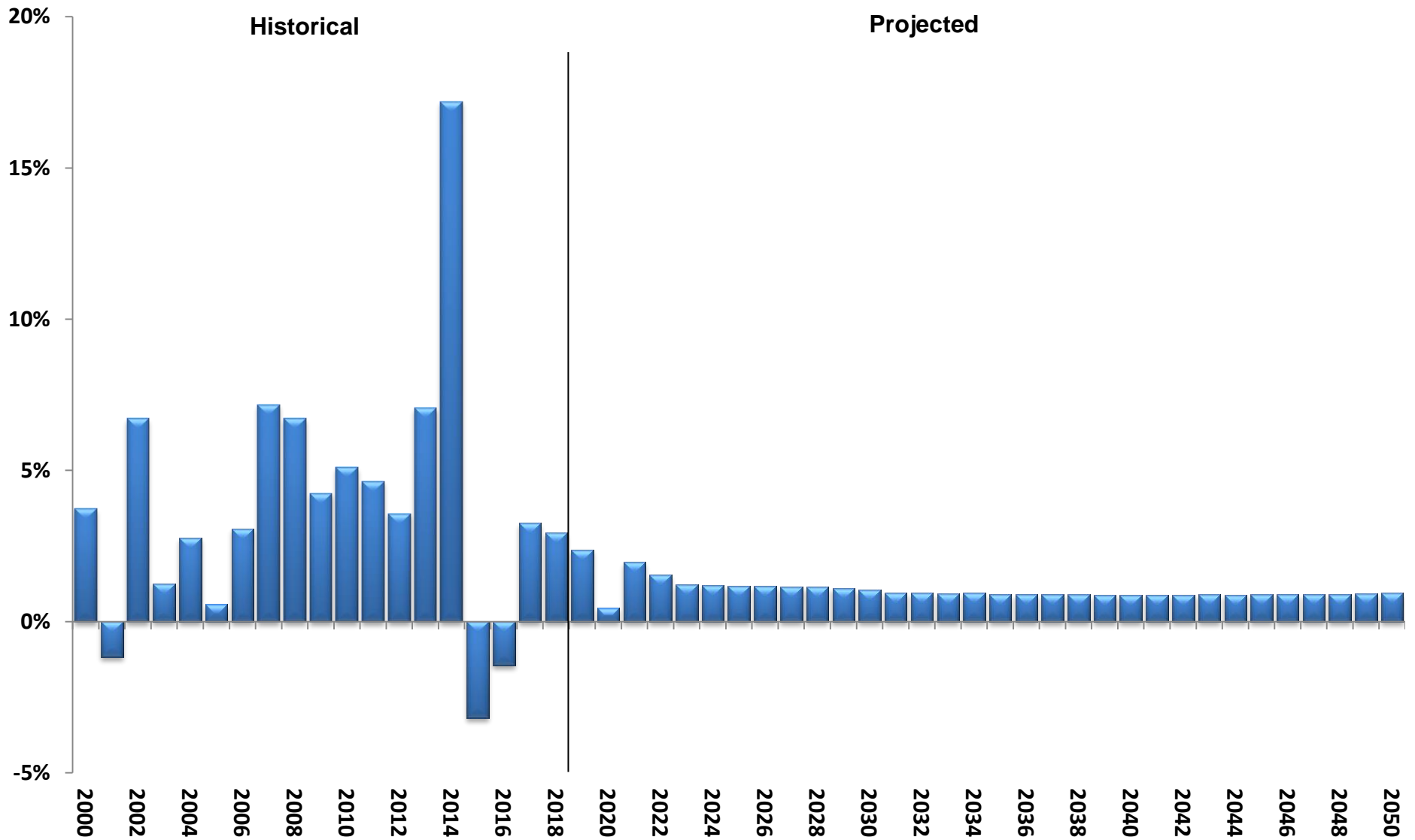
Annual Energy Purchases



Central Power

Graph 10c

Percent Change In Annual Energy Purchases



Central Power

Purchase Summary

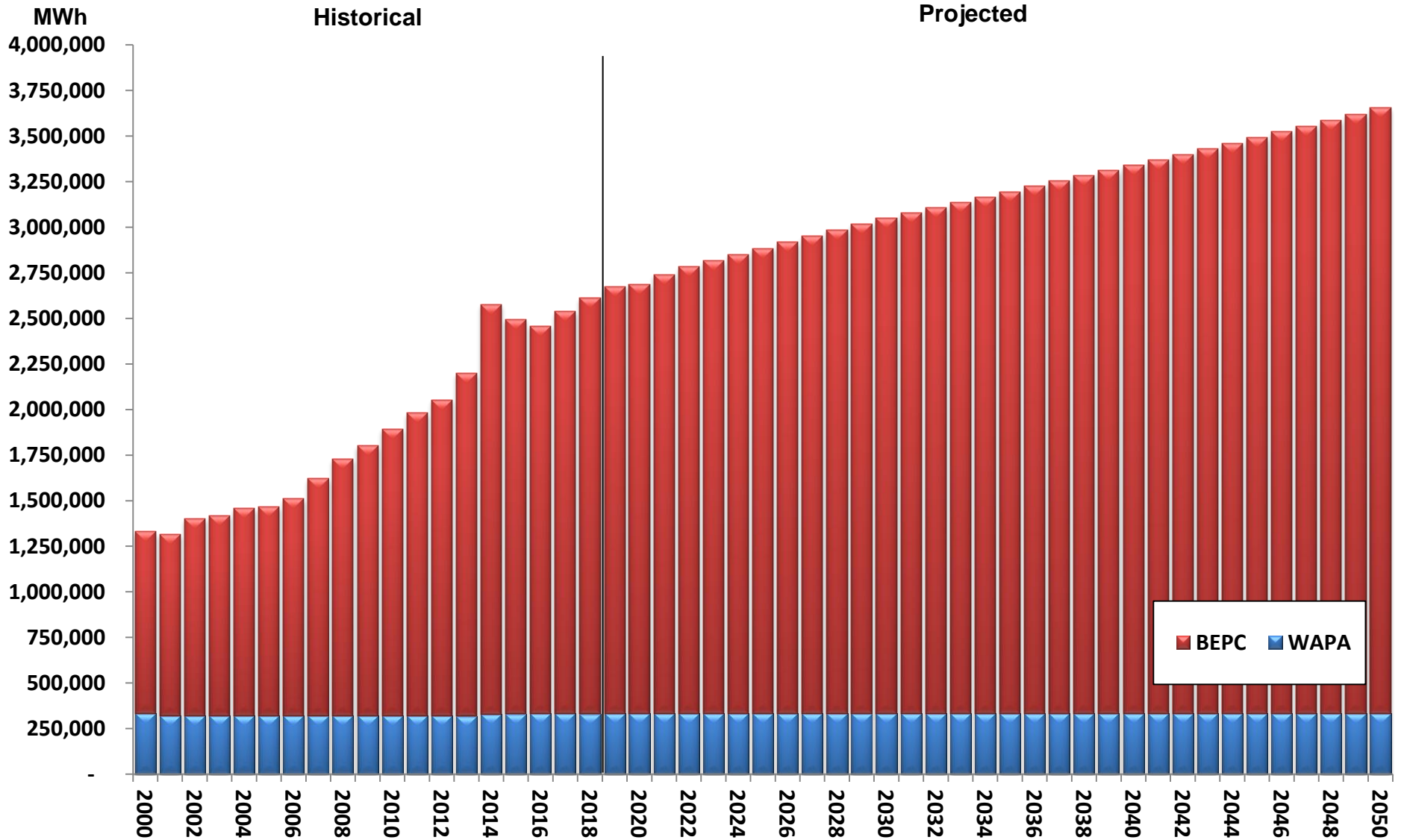
Table 11

Year	Purchases At Time Of System Peak (kW)				Annual Energy Purchases (MWH)				System Load
	WAPA	BEPC	Total	Change	WAPA	BEPC	Total	Change	Factor
2000	63,375	176,495	239,870	3.15%	332,573	996,572	1,329,145	3.74%	63.25%
2001	60,865	160,232	221,097	-7.83%	318,372	995,059	1,313,431	-1.18%	67.81%
2002	60,873	173,895	234,768	6.18%	318,525	1,083,075	1,401,600	6.71%	68.15%
2003	59,654	189,519	249,173	6.14%	318,945	1,100,243	1,419,188	1.25%	65.02%
2004	59,655	203,818	263,473	5.74%	320,365	1,138,011	1,458,376	2.76%	63.19%
2005	59,708	210,226	269,934	2.45%	318,619	1,148,126	1,466,745	0.57%	62.03%
2006	60,798	218,017	278,815	3.29%	318,361	1,193,463	1,511,824	3.07%	61.90%
2007	57,584	235,101	292,685	4.97%	318,953	1,301,463	1,620,416	7.18%	63.20%
2008	60,780	273,304	334,084	14.14%	319,812	1,409,377	1,729,189	6.71%	59.09%
2009	60,802	280,614	341,416	2.19%	318,560	1,484,054	1,802,614	4.25%	60.27%
2010	59,602	277,630	337,232	-1.23%	318,506	1,575,984	1,894,490	5.10%	64.13%
2011	60,795	287,432	348,227	3.26%	318,462	1,663,858	1,982,320	4.64%	64.98%
2012	59,591	326,412	386,003	10.85%	319,658	1,733,560	2,053,218	3.58%	60.72%
2013	60,803	349,722	410,525	6.35%	318,065	1,880,437	2,198,502	7.08%	61.13%
2014	62,066	432,501	494,567	20.47%	328,957	2,247,696	2,576,653	17.20%	59.47%
2015	62,199	416,016	478,215	-3.31%	330,665	2,163,891	2,494,556	-3.19%	59.55%
2016	63,392	412,533	475,925	-0.48%	331,707	2,126,705	2,458,412	-1.45%	58.97%
2017	62,026	412,391	474,417	-0.32%	331,558	2,206,980	2,538,538	3.26%	61.08%
2018	62,051	410,399	472,450	-0.41%	330,029	2,282,976	2,613,005	2.93%	63.14%
2019	61,871	427,790	489,661	3.64%	331,830	2,343,344	2,675,174	2.38%	62.37%
2020	61,871	436,809	498,680	1.84%	331,830	2,355,689	2,687,519	0.46%	61.52%
2021	61,871	445,429	507,300	1.73%	331,830	2,408,570	2,740,400	1.97%	61.67%
2022	61,871	454,354	516,225	1.76%	331,830	2,451,024	2,782,854	1.55%	61.54%
2023	61,871	460,825	522,696	1.25%	331,830	2,484,936	2,816,766	1.22%	61.52%
2024	61,871	467,444	529,315	1.27%	331,830	2,519,110	2,850,940	1.21%	61.49%
2025	61,871	473,649	535,520	1.17%	331,830	2,552,713	2,884,543	1.18%	61.49%
2026	61,871	479,976	541,847	1.18%	331,830	2,586,278	2,918,108	1.16%	61.48%
2027	61,871	486,324	548,195	1.17%	331,830	2,619,690	2,951,520	1.14%	61.46%
2028	61,871	492,781	554,652	1.18%	331,830	2,653,486	2,985,316	1.15%	61.44%
2029	61,871	499,111	560,982	1.14%	331,830	2,686,487	3,018,317	1.11%	61.42%
2030	61,871	504,714	566,585	1.00%	331,830	2,717,904	3,049,734	1.04%	61.45%
2031	61,871	509,897	571,768	0.91%	331,830	2,747,091	3,078,921	0.96%	61.47%
2032	61,871	515,146	577,017	0.92%	331,830	2,776,333	3,108,163	0.95%	61.49%
2033	61,871	520,305	582,176	0.89%	331,830	2,804,896	3,136,726	0.92%	61.51%
2034	61,871	525,763	587,634	0.94%	331,830	2,834,671	3,166,501	0.95%	61.51%
2035	61,871	531,013	592,884	0.89%	331,830	2,863,277	3,195,107	0.90%	61.52%
2036	61,871	536,403	598,274	0.91%	331,830	2,892,267	3,224,097	0.91%	61.52%
2037	61,871	541,872	603,743	0.91%	331,830	2,921,508	3,253,338	0.91%	61.51%
2038	61,871	547,307	609,178	0.90%	331,830	2,950,468	3,282,298	0.89%	61.51%
2039	61,871	552,739	614,610	0.89%	331,830	2,979,283	3,311,113	0.88%	61.50%
2040	61,871	558,276	620,147	0.90%	331,830	3,008,361	3,340,191	0.88%	61.49%
2041	61,871	563,891	625,762	0.91%	331,830	3,037,861	3,369,691	0.88%	61.47%
2042	61,871	569,621	631,492	0.92%	331,830	3,067,831	3,399,661	0.89%	61.46%
2043	61,871	575,405	637,276	0.92%	331,830	3,098,198	3,430,028	0.89%	61.44%
2044	61,871	581,219	643,090	0.91%	331,830	3,128,694	3,460,524	0.89%	61.43%
2045	61,871	587,085	648,956	0.91%	331,830	3,159,489	3,491,319	0.89%	61.41%
2046	61,871	593,097	654,968	0.93%	331,830	3,190,968	3,522,798	0.90%	61.40%
2047	61,871	599,221	661,092	0.94%	331,830	3,223,018	3,554,848	0.91%	61.38%
2048	61,871	605,296	667,167	0.92%	331,830	3,254,958	3,586,788	0.90%	61.37%
2049	61,871	611,599	673,470	0.94%	331,830	3,287,991	3,619,821	0.92%	61.36%
2050	61,871	618,106	679,977	0.97%	331,830	3,321,978	3,653,808	0.94%	61.34%

Projected

Central Power Annual Energy Purchases

Graph 11



Central Power

Seasonal Demand Purchase Summary

Table 12

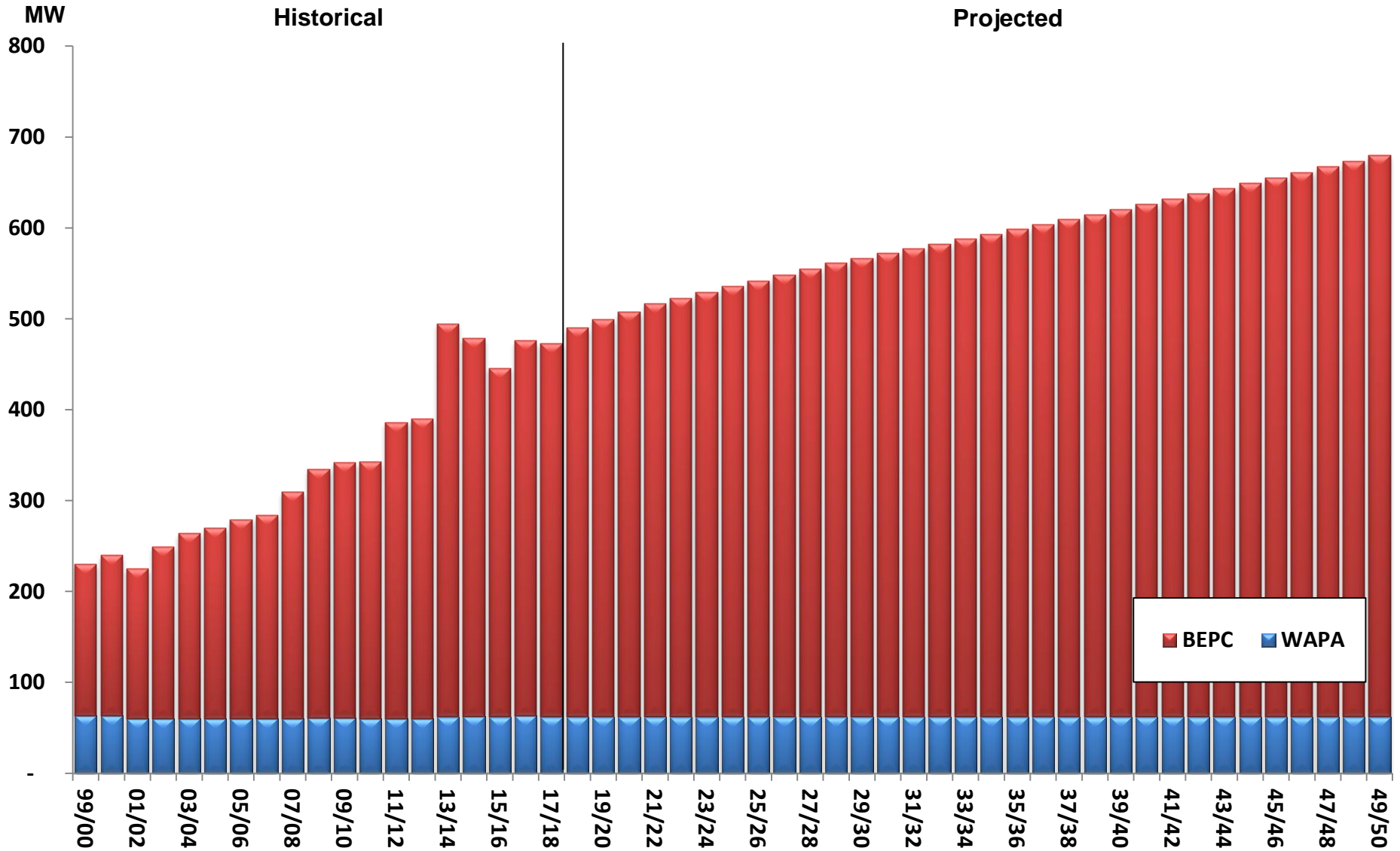
Summer Season	Purchases At Time Of Summer Peak (kW)				Winter Season	Purchases At Time Of Winter Peak (kW)			
	WAPA	BEPC	Total	Change		WAPA	BEPC	Total	Change
2000	41,633	143,223	184,856	1.05%	99/00	63,402	166,362	229,764	-3.32%
2001	40,680	152,285	192,965	4.39%	00/01	63,375	176,495	239,870	4.40%
2002	40,681	176,466	217,147	12.53%	01/02	59,647	165,422	225,069	-6.17%
2003	39,983	162,995	202,978	-6.53%	02/03	59,654	189,519	249,173	10.71%
2004	40,682	160,928	201,610	-0.67%	03/04	59,655	203,818	263,473	5.74%
2005	40,681	163,307	203,988	1.18%	04/05	59,708	210,226	269,934	2.45%
2006	40,622	188,002	228,624	12.08%	05/06	59,759	218,868	278,627	3.22%
2007	40,485	180,699	221,184	-3.25%	06/07	59,577	224,194	283,771	1.85%
2008	40,626	193,015	233,641	5.63%	07/08	59,575	249,572	309,147	8.94%
2009	40,606	200,643	241,249	3.26%	08/09	60,780	273,304	334,084	8.07%
2010	40,629	224,417	265,046	9.86%	09/10	60,802	280,614	341,416	2.19%
2011	40,621	228,659	269,280	1.60%	10/11	59,832	282,511	342,343	0.27%
2012	40,622	257,195	297,817	10.60%	11/12	59,591	326,412	386,003	12.75%
2013	40,612	268,024	308,636	3.63%	12/13	59,619	330,387	390,006	1.04%
2014	41,654	336,294	377,948	22.46%	13/14	62,066	432,501	494,567	26.81%
2015	41,901	328,041	369,942	-2.12%	14/15	62,199	416,016	478,215	-3.31%
2016	41,856	309,973	351,829	-4.90%	15/16	62,077	383,611	445,688	-6.80%
2017	42,286	319,574	361,860	2.85%	16/17	63,392	412,533	475,925	6.78%
2018	41,872	316,401	358,273	-0.99%	17/18	62,051	410,399	472,450	-0.73%
2019	41,729	327,085	368,814	2.94%	18/19	61,871	427,790	489,661	3.64%
2020	41,729	326,986	368,715	-0.03%	19/20	61,871	436,809	498,680	1.84%
2021	41,729	334,245	375,974	1.97%	20/21	61,871	445,429	507,300	1.73%
2022	41,729	340,099	381,828	1.56%	21/22	61,871	454,354	516,225	1.76%
2023	41,729	344,737	386,466	1.21%	22/23	61,871	460,825	522,696	1.25%
2024	41,729	349,483	391,212	1.23%	23/24	61,871	467,444	529,315	1.27%
2025	41,729	353,979	395,708	1.15%	24/25	61,871	473,649	535,520	1.17%
2026	41,729	358,524	400,253	1.15%	25/26	61,871	479,976	541,847	1.18%
2027	41,729	363,097	404,826	1.14%	26/27	61,871	486,324	548,195	1.17%
2028	41,729	367,745	409,474	1.15%	27/28	61,871	492,781	554,652	1.18%
2029	41,729	372,311	414,040	1.12%	28/29	61,871	499,111	560,982	1.14%
2030	41,729	376,330	418,059	0.97%	29/30	61,871	504,714	566,585	1.00%
2031	41,729	380,092	421,821	0.90%	30/31	61,871	509,897	571,768	0.91%
2032	41,729	383,931	425,660	0.91%	31/32	61,871	515,146	577,017	0.92%
2033	41,729	387,746	429,475	0.90%	32/33	61,871	520,305	582,176	0.89%
2034	41,729	391,710	433,439	0.92%	33/34	61,871	525,763	587,634	0.94%
2035	41,729	395,577	437,306	0.89%	34/35	61,871	531,013	592,884	0.89%
2036	41,729	399,505	441,234	0.90%	35/36	61,871	536,403	598,274	0.91%
2037	41,729	403,517	445,246	0.91%	36/37	61,871	541,872	603,743	0.91%
2038	41,729	407,485	449,214	0.89%	37/38	61,871	547,307	609,178	0.90%
2039	41,729	411,471	453,200	0.89%	38/39	61,871	552,739	614,610	0.89%
2040	41,729	415,527	457,256	0.89%	39/40	61,871	558,276	620,147	0.90%
2041	41,729	419,633	461,362	0.90%	40/41	61,871	563,891	625,762	0.91%
2042	41,729	423,785	465,514	0.90%	41/42	61,871	569,621	631,492	0.92%
2043	41,729	428,002	469,731	0.91%	42/43	61,871	575,405	637,276	0.92%
2044	41,729	432,239	473,968	0.90%	43/44	61,871	581,219	643,090	0.91%
2045	41,729	436,502	478,231	0.90%	44/45	61,871	587,085	648,956	0.91%
2046	41,729	440,857	482,586	0.91%	45/46	61,871	593,097	654,968	0.93%
2047	41,729	445,268	486,997	0.91%	46/47	61,871	599,221	661,092	0.94%
2048	41,729	449,697	491,426	0.91%	47/48	61,871	605,296	667,167	0.92%
2049	41,729	454,259	495,988	0.93%	48/49	61,871	611,599	673,470	0.94%
2050	41,729	458,917	500,646	0.94%	49/50	61,871	618,106	679,977	0.97%

Projected

Central Power

Graph 12a

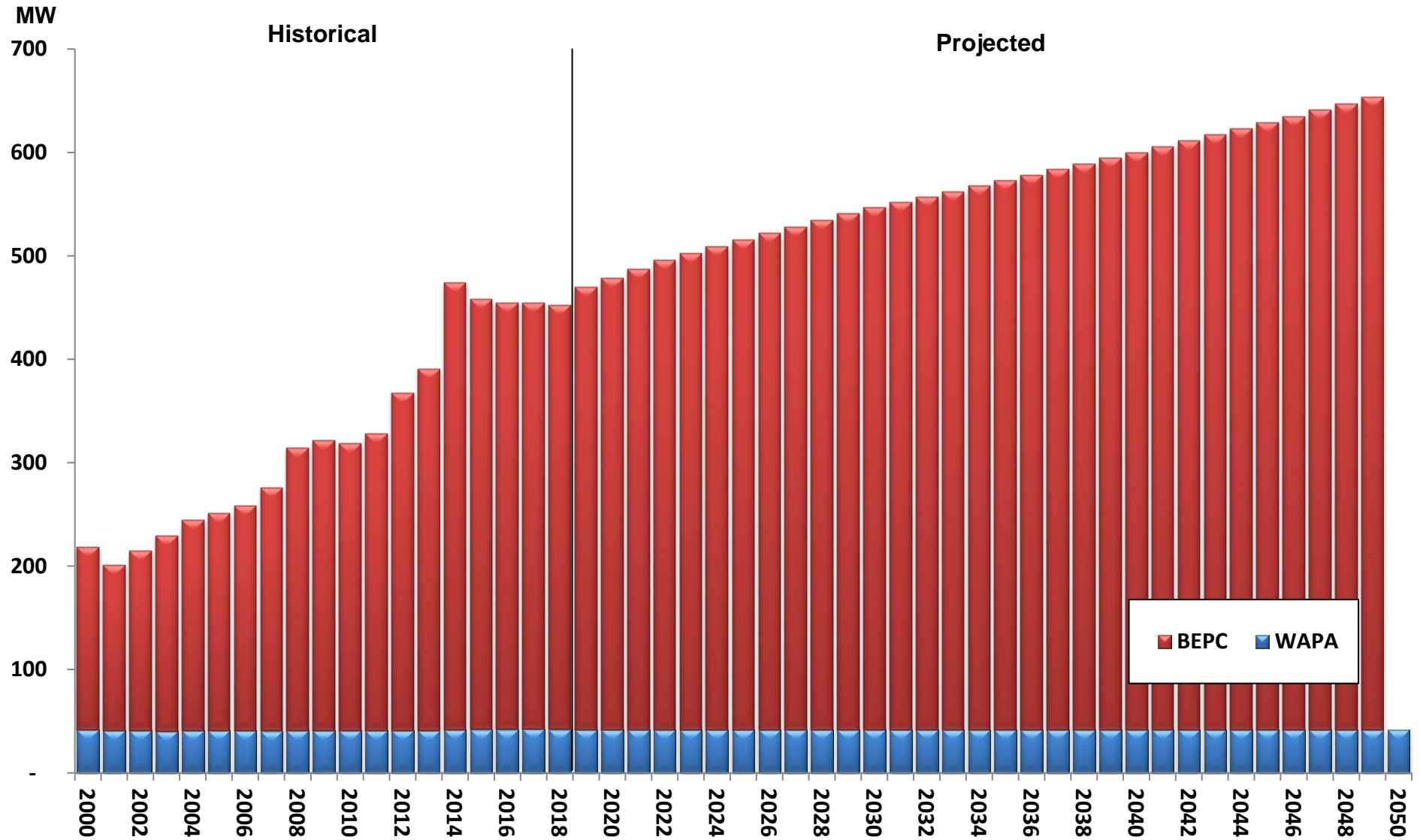
Winter Season Demand Purchases



Central Power

Graph 12b

Summer Season Demand Purchases



Appendix

APPENDIX

Included in this section are historical and projected monthly demand and energy requirements for Central Power, as well as the wholesale power supply purchases for Central Power, Basin Electric and Western.

TOTAL POWER REQUIREMENTS

2020 Load Forecast

Central Power Members

Central Power

Total Demand Requirements (kW)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2000	212,471	204,334	185,982	168,727	151,030	147,755	164,724	178,786	155,795	171,065	200,261	231,192	2,172,122
2001	208,741	203,930	187,735	171,509	142,924	156,639	168,710	178,897	168,693	185,802	206,622	213,152	2,193,354
2002	216,642	210,050	209,377	183,232	163,272	168,208	181,410	176,832	172,923	209,002	212,363	228,720	2,332,031
2003	239,953	236,472	231,696	192,771	149,896	153,849	172,071	195,827	179,195	187,116	218,196	228,687	2,385,729
2004	253,638	240,450	210,303	172,523	166,081	151,017	178,583	162,692	178,974	194,483	213,916	247,002	2,369,662
2005	259,846	233,869	209,928	173,895	166,145	173,766	180,020	176,951	167,088	196,646	222,441	243,784	2,404,379
2006	219,979	268,112	215,939	183,930	161,279	173,610	191,737	189,702	167,485	220,202	259,719	268,556	2,520,250
2007	273,050	272,690	239,833	220,136	163,902	178,106	213,694	193,267	187,037	210,741	281,765	278,020	2,714,353
2008	297,430	293,432	274,254	210,679	178,912	172,593	198,684	214,987	189,934	225,153	280,421	322,018	2,858,497
2009	313,443	294,773	298,729	229,447	178,106	186,691	185,258	202,553	215,097	232,980	256,454	328,587	2,922,118
2010	325,519	301,800	264,825	217,612	204,767	208,997	231,011	247,860	213,617	257,534	304,868	323,930	3,102,340
2011	330,230	330,647	320,979	253,236	217,121	219,482	237,263	239,222	229,333	262,382	315,997	337,495	3,293,387
2012	373,759	343,285	298,679	249,658	206,442	243,465	264,223	275,481	243,443	289,113	337,153	338,831	3,463,532
2013	377,386	362,991	337,780	301,851	235,599	215,923	245,522	267,527	265,668	300,515	381,430	399,857	3,692,049
2014	479,325	443,916	435,909	374,473	308,572	258,979	307,045	302,954	317,002	367,756	429,629	448,283	4,473,843
2015	463,657	447,083	434,985	318,896	268,687	308,093	321,507	363,800	347,209	323,493	362,512	412,184	4,372,106
2016	436,360	398,486	366,038	317,250	262,364	308,168	336,784	345,273	308,497	325,739	352,366	466,294	4,223,619
2017	464,620	430,673	414,418	322,932	263,141	320,464	353,373	327,326	325,513	354,456	409,674	458,216	4,444,806
2018	464,990	448,056	375,839	408,766	308,148	321,482	327,006	352,631	329,747	347,039	411,978	435,672	4,494,355
2019	478,185	468,573	405,318	359,525	292,616	323,150	340,667	360,170	324,417	357,060	405,453	471,969	4,587,103
2020	486,993	453,263	410,957	365,735	285,892	322,477	340,345	360,073	319,254	353,259	408,613	478,529	4,585,389
2021	495,410	475,480	418,082	373,003	291,975	329,031	347,089	367,162	325,617	360,583	416,870	488,038	4,688,339
2022	504,126	483,965	425,510	378,641	296,423	333,993	352,461	372,879	330,653	365,010	422,202	494,601	4,760,462
2023	510,445	490,075	430,620	383,021	299,701	337,799	356,653	377,408	334,541	369,183	427,210	500,775	4,817,431
2024	516,909	481,413	435,863	387,528	303,068	341,702	360,941	382,043	338,546	373,460	432,335	507,091	4,860,898
2025	522,969	502,178	440,721	391,690	306,211	345,392	365,018	386,433	342,285	377,448	437,123	513,024	4,930,492
2026	529,148	508,147	445,703	395,958	309,412	349,121	369,131	390,872	346,088	381,516	442,009	519,067	4,986,173
2027	535,346	514,145	450,708	400,248	312,636	352,876	373,267	395,338	349,925	385,595	446,904	525,129	5,042,116
2028	541,652	504,496	455,801	404,628	315,927	356,704	377,475	399,877	353,830	389,767	451,901	531,296	5,083,353
2029	547,834	526,235	460,803	408,923	319,152	360,457	381,602	404,336	357,674	393,846	456,788	537,339	5,154,990
2030	553,305	531,492	465,168	412,612	321,933	363,724	385,244	408,261	360,976	397,378	461,066	542,697	5,203,856
2031	558,367	536,352	469,208	416,030	324,514	366,773	388,647	411,934	364,061	400,656	465,028	547,652	5,249,224
2032	563,493	524,805	473,302	419,512	327,152	369,899	392,123	415,684	367,225	403,994	469,048	552,670	5,278,906
2033	568,531	546,131	477,330	422,941	329,763	373,004	395,572	419,409	370,374	407,278	472,996	557,601	5,340,930
2034	573,861	551,266	481,604	426,587	332,516	376,242	399,160	423,280	373,659	410,767	477,192	562,816	5,388,949
2035	578,988	556,215	485,719	430,097	335,182	379,396	402,654	427,057	376,870	414,114	481,212	567,832	5,435,335
2036	584,252	544,136	489,958	433,712	337,908	382,601	406,201	430,893	380,144	417,551	485,343	572,979	5,465,678
2037	589,593	566,463	494,258	437,388	340,693	385,879	409,823	434,811	383,485	421,055	489,548	578,199	5,531,195
2038	594,901	571,597	498,540	441,045	343,456	389,120	413,404	438,686	386,795	424,537	493,726	583,386	5,579,194
2039	600,205	576,734	502,825	444,704	346,223	392,374	416,996	442,578	390,127	428,009	497,890	588,568	5,627,234
2040	605,612	564,093	507,193	448,447	349,057	395,696	420,657	446,539	393,523	431,568	502,152	593,851	5,658,388
2041	611,096	587,285	511,626	452,246	351,932	399,062	424,363	450,549	396,964	435,181	506,477	599,209	5,725,989
2042	616,692	592,714	516,164	456,122	354,841	402,455	428,104	454,604	400,454	438,845	510,876	604,674	5,776,545
2043	622,339	598,185	520,732	460,039	357,798	405,913	431,911	458,722	403,991	442,570	515,333	610,193	5,827,726
2044	628,018	585,062	525,330	463,972	360,764	409,378	435,910	462,859	407,544	446,300	519,803	615,740	5,860,501
2045	633,746	609,242	529,962	467,939	363,758	412,874	439,580	467,023	411,121	450,068	524,318	621,337	5,930,968
2046	639,618	614,935	534,721	472,007	366,813	416,434	443,505	471,275	414,777	453,921	528,939	627,072	5,984,018
2047	645,598	620,732	539,568	476,150	369,921	420,046	447,485	475,583	418,483	457,849	533,652	632,913	6,037,980
2048	651,531	607,071	544,367	480,261	373,028	423,676	451,483	479,908	422,200	461,750	538,322	638,712	6,072,310
2049	657,686	632,451	549,349	484,525	376,238	427,415	455,601	484,363	426,030	465,796	543,173	644,727	6,147,353
2050	664,041	638,616	554,507	488,927	379,527	431,225	459,801	488,912	429,949	469,959	548,173	650,933	6,204,569

Projected

Central Power

Total Energy Requirements (MWh)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2000	132,942	112,423	108,897	94,498	87,688	84,096	94,608	103,003	93,079	104,653	118,782	146,705	1,281,374
2001	125,536	114,500	116,516	97,756	86,347	86,460	97,874	104,686	91,064	104,602	109,671	130,208	1,265,220
2002	131,647	111,255	125,850	102,667	95,240	90,002	101,034	102,721	99,328	120,879	129,843	138,194	1,348,660
2003	144,045	129,152	128,136	101,459	91,635	86,392	98,933	111,889	98,646	110,029	128,156	138,127	1,366,599
2004	154,244	130,449	124,493	102,532	95,404	87,197	98,374	96,525	111,286	123,357	130,202	149,005	1,403,068
2005	158,554	126,099	130,120	103,965	99,137	91,936	102,712	105,029	95,578	113,909	130,037	148,554	1,405,630
2006	139,042	137,424	135,233	104,705	97,254	96,827	115,686	111,865	97,552	126,139	140,230	152,259	1,454,216
2007	160,145	150,798	134,460	116,814	104,097	101,989	119,155	117,612	105,816	124,664	150,440	173,071	1,559,061
2008	175,743	161,615	146,966	122,654	107,476	99,549	116,825	127,802	114,598	132,389	161,081	198,441	1,665,139
2009	190,772	159,946	166,653	129,530	112,970	109,111	113,024	116,268	127,827	147,929	158,843	203,451	1,736,324
2010	192,819	168,889	156,486	127,669	124,652	115,632	133,142	144,241	134,125	154,135	176,108	204,352	1,832,250
2011	208,196	180,988	184,732	146,517	132,272	122,721	138,646	139,219	135,293	153,760	180,320	198,000	1,920,664
2012	204,182	182,783	158,677	140,422	132,584	132,998	155,978	161,303	142,228	170,242	189,715	218,012	1,989,124
2013	222,982	186,405	199,405	166,670	136,558	127,042	144,579	151,840	147,106	180,849	216,738	251,332	2,131,506
2014	265,817	245,453	232,951	192,031	173,845	157,378	174,418	174,009	181,302	201,444	248,178	245,697	2,492,523
2015	256,381	244,096	215,160	179,496	167,309	162,820	185,421	194,425	175,329	190,890	208,709	238,816	2,418,852
2016	254,873	213,025	199,082	178,378	162,829	168,435	183,272	195,554	169,750	200,953	212,136	272,513	2,410,800
2017	263,580	218,529	229,181	185,344	172,987	175,275	200,617	184,021	170,654	198,206	233,594	258,683	2,490,671
2018	268,097	245,711	226,342	202,051	178,984	181,209	187,961	197,702	172,970	211,746	243,075	253,787	2,569,635
2019	278,185	239,396	229,236	195,970	183,392	181,655	198,789	202,244	178,565	211,671	238,742	274,629	2,612,474
2020	281,443	243,302	232,921	197,360	181,387	181,527	198,784	202,265	175,767	209,382	241,534	278,858	2,624,530
2021	286,445	247,747	237,105	201,462	185,199	185,266	202,685	206,247	179,328	213,740	246,505	284,442	2,676,171
2022	291,451	252,213	241,319	204,591	188,057	188,061	205,769	209,393	182,071	216,489	249,842	288,376	2,717,632
2023	295,177	255,433	244,302	207,042	190,258	190,216	208,201	211,884	184,171	219,059	252,956	292,051	2,750,750
2024	298,933	258,680	247,314	209,513	192,474	192,383	210,650	214,392	186,291	221,648	256,088	295,756	2,784,122
2025	302,614	261,861	250,264	211,940	194,663	194,529	213,074	216,861	188,373	224,196	259,168	299,392	2,816,935
2026	306,300	265,048	253,218	214,368	196,843	196,665	215,485	219,322	190,453	226,738	262,245	303,029	2,849,714
2027	309,969	268,221	256,160	216,781	199,014	198,791	217,889	221,778	192,525	229,266	265,303	306,647	2,882,344
2028	313,679	271,428	259,133	219,222	201,211	200,942	220,318	224,259	194,620	231,826	268,401	310,309	2,915,348
2029	317,303	274,561	262,038	221,607	203,356	203,043	222,692	226,685	196,666	234,322	271,420	313,882	2,947,575
2030	320,754	277,547	264,805	223,876	205,398	205,043	224,950	228,991	198,612	236,696	274,296	317,287	2,978,255
2031	323,955	280,314	267,371	225,983	207,297	206,906	227,060	231,144	200,422	238,901	276,963	320,442	3,006,758
2032	327,157	283,084	269,939	228,093	209,199	208,779	229,179	233,305	202,238	241,112	279,632	323,598	3,035,315
2033	330,278	285,784	272,446	230,150	211,063	210,612	231,259	235,423	204,016	243,266	282,233	326,678	3,063,208
2034	333,541	288,605	275,062	232,301	213,000	212,514	233,409	237,618	205,862	245,519	284,957	329,898	3,092,286
2035	336,671	291,312	277,574	234,361	214,865	214,349	235,489	239,740	207,642	247,676	287,560	332,983	3,120,222
2036	339,852	294,064	280,124	236,453	216,747	216,199	237,584	241,883	209,446	249,862	290,202	336,115	3,148,531
2037	343,054	296,833	282,693	238,561	218,651	218,070	239,704	244,047	211,261	252,069	292,870	339,274	3,177,087
2038	346,228	299,578	285,240	240,649	220,535	219,922	241,799	246,191	213,059	254,256	295,511	342,401	3,205,369
2039	349,386	302,311	287,775	242,727	222,408	221,763	243,889	248,331	214,852	256,425	298,134	345,510	3,233,511
2040	352,570	305,067	290,330	244,823	224,300	223,623	245,995	250,484	216,657	258,617	300,787	348,650	3,261,903
2041	355,802	307,862	292,924	246,951	226,220	225,509	248,132	252,669	218,487	260,846	303,479	351,834	3,290,715
2042	359,096	310,711	295,564	249,113	228,166	227,417	250,290	254,886	220,350	263,102	306,211	355,076	3,319,982
2043	362,423	313,588	298,234	251,306	230,141	229,357	252,487	257,131	222,235	265,397	308,981	358,355	3,349,635
2044	365,767	316,482	300,917	253,506	232,124	231,305	254,691	259,390	224,130	267,696	311,762	361,648	3,379,418
2045	369,143	319,403	303,627	255,728	234,127	233,271	256,916	261,666	226,040	270,022	314,573	364,975	3,409,491
2046	372,601	322,393	306,402	258,000	236,171	235,275	259,184	263,994	227,995	272,395	317,444	368,379	3,440,233
2047	376,123	325,439	309,224	260,315	238,252	237,313	261,487	266,359	229,983	274,815	320,371	371,848	3,471,529
2048	379,622	328,469	312,035	262,620	240,331	239,355	263,799	268,723	231,967	277,226	323,282	375,294	3,502,723
2049	383,249	331,604	314,943	265,005	242,478	241,460	266,180	271,161	234,016	279,722	326,298	378,867	3,534,983
2050	386,989	334,841	317,942	267,461	244,683	243,617	268,618	273,665	236,123	282,285	329,400	382,547	3,568,171

Projected

WHOLESALE POWER SUPPLY PURCHASES

2020 Load Forecast

Central Power

Central Power

WAPA Demand Purchases (kW)

Year	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total
2000	62,123	62,389	60,196	51,923	39,619	39,888	42,222	41,633	37,044	42,360	60,115	63,375	602,887
2001	59,651	59,916	57,794	49,832	38,071	38,364	40,542	39,995	35,577	40,680	57,710	60,865	578,997
2002	59,647	59,852	57,774	49,841	38,080	38,338	40,548	39,997	35,594	40,681	57,723	60,873	578,948
2003	59,654	59,912	57,784	49,869	38,090	38,315	40,529	39,983	35,563	40,673	57,729	60,892	578,993
2004	59,655	59,953	57,833	49,832	38,056	38,320	40,542	39,977	35,576	40,682	57,705	60,937	579,068
2005	59,708	59,922	57,773	49,843	38,074	38,314	40,532	39,984	35,584	40,681	57,722	60,914	579,051
2006	59,571	59,759	57,676	49,729	37,996	38,260	40,470	39,918	35,530	40,622	57,687	60,798	578,016
2007	59,577	59,798	57,727	49,757	38,002	38,263	40,485	40,552	35,530	40,625	57,584	60,795	578,695
2008	59,575	59,828	57,656	49,758	38,014	38,256	40,471	39,918	35,519	40,626	57,675	60,780	578,076
2009	59,571	59,831	57,724	49,745	37,990	38,268	40,471	39,921	35,523	40,606	57,587	60,802	578,039
2010	59,602	59,857	57,654	49,724	37,987	38,253	40,480	39,947	35,541	40,629	57,628	60,807	578,109
2011	59,578	59,832	57,717	49,779	38,000	38,256	40,459	39,918	35,511	40,621	57,576	60,795	578,042
2012	59,591	59,845	57,724	49,747	37,995	38,246	40,461	39,916	35,505	40,622	57,670	60,820	578,142
2013	59,619	59,841	57,738	49,776	37,994	38,260	40,456	39,953	35,518	40,612	57,610	60,803	578,180
2014	62,066	62,392	60,273	52,007	39,398	39,683	42,430	41,905	36,528	41,654	60,108	63,379	601,823
2015	62,199	62,468	60,270	52,008	39,408	39,685	42,417	41,901	37,093	42,213	60,101	63,492	603,255
2016	62,077	62,353	60,220	51,953	39,363	39,729	42,377	41,856	37,178	42,226	60,058	63,392	602,782
2017	62,026	62,313	60,242	51,956	39,360	39,818	42,386	41,854	37,302	42,286	60,082	63,361	602,986
2018	62,051	62,341	60,227	51,952	39,372	39,697	42,380	41,872	37,013	42,086	60,064	63,364	602,419
2019	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2020	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2021	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2022	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2023	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2024	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2025	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2026	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2027	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2028	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2029	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2030	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2031	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2032	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2033	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2034	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2035	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2036	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2037	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2038	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2039	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2040	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2041	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2042	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2043	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2044	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2045	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2046	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2047	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2048	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2049	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634
2050	61,871	62,156	60,041	51,789	39,273	39,595	42,241	41,729	36,901	41,974	59,887	63,177	600,634

Note: Includes Omega WAPA Allocation from 2000 through 2045

Projected

Central Power

Basin Electric Demand Purchases (kW)

Year	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total
2000	157,722	148,749	132,324	122,315	116,585	112,965	128,223	143,223	124,128	134,760	147,338	176,495	1,644,827
2001	157,446	152,397	137,219	127,909	109,823	123,882	134,253	146,146	139,225	152,285	156,589	160,232	1,697,406
2002	165,422	158,223	159,512	140,794	131,137	135,880	147,322	143,330	144,052	176,466	162,477	173,895	1,838,510
2003	189,519	185,777	182,931	150,137	116,830	120,980	137,532	162,995	149,971	153,575	170,057	176,280	1,896,584
2004	203,818	190,277	160,333	128,808	134,273	118,101	144,467	130,796	149,855	160,928	163,955	195,587	1,881,198
2005	210,226	183,260	159,892	130,185	134,111	144,464	149,207	144,744	140,946	163,307	170,270	192,139	1,922,751
2006	168,603	218,868	166,260	140,950	128,841	142,928	158,505	155,977	137,565	188,002	211,923	218,017	2,036,439
2007	224,194	223,546	191,346	178,795	131,851	148,280	160,699	160,238	158,612	177,997	235,101	227,917	2,238,576
2008	249,572	245,140	227,206	169,123	147,328	140,444	185,038	182,915	160,854	193,015	233,405	273,304	2,387,344
2009	265,738	245,957	252,266	187,940	145,364	155,952	150,278	169,699	184,279	200,643	207,575	280,614	2,446,305
2010	277,630	252,566	216,831	175,219	172,433	176,911	197,109	215,250	184,030	224,417	257,711	274,242	2,624,349
2011	282,053	282,511	274,298	211,693	186,218	187,369	203,570	205,879	200,454	228,659	268,182	287,432	2,818,318
2012	326,412	294,584	250,194	207,273	173,655	212,251	231,317	243,722	214,961	257,195	290,237	288,841	2,990,642
2013	330,387	315,102	290,709	261,730	205,546	182,870	211,226	234,587	246,450	268,024	334,370	349,722	3,230,723
2014	432,501	394,731	388,378	334,590	260,320	227,829	274,243	271,327	291,006	336,294	384,391	397,352	3,992,962
2015	416,016	399,341	389,098	276,926	237,966	278,102	292,738	328,041	321,363	291,447	311,529	355,203	3,897,770
2016	383,611	344,788	313,407	271,757	229,012	274,763	301,719	309,973	277,671	289,963	299,480	412,533	3,708,677
2017	412,391	377,590	362,173	277,157	229,772	286,741	317,921	292,090	294,406	319,574	357,627	403,751	3,931,193
2018	410,399	393,637	320,405	367,936	277,402	288,359	291,757	316,401	260,533	312,363	359,050	379,181	3,977,423
2019	427,790	417,663	355,004	316,365	260,366	291,310	306,602	327,085	295,302	323,655	355,297	420,119	4,096,558
2020	436,809	401,986	360,779	322,724	253,480	290,621	306,272	326,986	290,015	319,764	358,533	426,837	4,094,806
2021	445,429	424,736	368,075	330,166	259,710	297,333	313,178	334,245	296,531	327,263	366,988	436,573	4,200,227
2022	454,354	433,424	375,681	335,939	264,264	302,414	318,679	340,099	301,688	331,796	372,447	443,294	4,274,079
2023	460,825	439,680	380,914	340,425	267,620	306,311	322,972	344,737	305,669	336,070	377,576	449,617	4,332,416
2024	467,444	430,811	386,283	345,039	271,068	310,308	327,362	349,483	309,770	340,449	382,824	456,085	4,376,926
2025	473,649	452,074	391,257	349,302	274,287	314,086	331,537	353,979	313,599	344,533	387,727	462,160	4,448,190
2026	479,976	458,186	396,358	353,672	277,565	317,905	335,749	358,524	317,493	348,699	392,731	468,348	4,505,206
2027	486,324	464,329	401,484	358,065	280,866	321,750	339,984	363,097	321,422	352,875	397,742	474,555	4,562,493
2028	492,781	454,447	406,699	362,550	284,236	325,670	344,293	367,745	325,421	357,148	402,860	480,870	4,604,720
2029	499,111	476,709	411,821	366,949	287,538	329,513	348,519	372,311	329,357	361,324	407,864	487,058	4,678,074
2030	504,714	482,091	416,291	370,726	290,387	332,858	352,249	376,330	332,738	364,941	412,245	492,545	4,728,115
2031	509,897	487,069	420,428	374,226	293,029	335,981	355,734	380,092	335,898	368,298	416,302	497,619	4,774,573
2032	515,146	475,244	424,620	377,791	295,731	339,181	359,293	383,931	339,138	371,716	420,418	502,757	4,804,966
2033	520,305	497,082	428,744	381,303	298,405	342,361	362,825	387,746	342,362	375,078	424,461	507,806	4,868,478
2034	525,763	502,340	433,121	385,036	301,224	345,676	366,499	391,710	345,726	378,651	428,758	513,146	4,917,650
2035	531,013	507,408	437,335	388,630	303,954	348,906	370,077	395,577	349,014	382,079	432,874	518,283	4,965,150
2036	536,403	495,039	441,676	392,332	306,745	352,188	373,709	399,505	352,367	385,598	437,105	523,553	4,996,220
2037	541,872	517,902	446,079	396,096	309,597	355,545	377,418	403,517	355,788	389,187	441,410	528,899	5,063,310
2038	547,307	523,159	450,464	399,841	312,426	358,864	381,085	407,485	359,177	392,752	445,688	534,210	5,112,458
2039	552,739	528,420	454,852	403,588	315,260	362,195	384,763	411,471	362,589	396,308	449,953	539,517	5,161,655
2040	558,276	515,475	459,325	407,421	318,162	365,598	388,511	415,527	366,067	399,951	454,317	544,926	5,193,556
2041	563,891	539,224	463,864	411,311	321,105	369,044	392,307	419,633	369,590	403,651	458,745	550,413	5,262,778
2042	569,621	544,783	468,511	415,280	324,084	372,519	396,137	423,785	373,164	407,403	463,250	556,010	5,314,547
2043	575,405	550,386	473,188	419,291	327,113	376,060	400,036	428,002	376,786	411,217	467,814	561,661	5,366,959
2044	581,219	536,948	477,896	423,318	330,149	379,608	403,947	432,239	380,425	415,037	472,392	567,340	5,400,518
2045	587,085	561,708	482,640	427,381	333,215	383,188	407,889	436,502	384,087	418,896	477,014	573,072	5,472,677
2046	593,097	567,538	487,514	431,546	336,344	386,834	411,908	440,857	387,831	422,841	481,747	578,944	5,527,001
2047	599,221	573,474	492,476	435,789	339,527	390,532	415,983	445,268	391,626	426,863	486,572	584,926	5,582,257
2048	605,296	559,485	497,391	439,998	342,708	394,250	420,078	449,697	395,432	430,858	491,355	590,864	5,617,412
2049	611,599	585,474	502,492	444,364	345,994	398,078	424,295	454,259	399,353	435,001	496,322	597,023	5,694,254
2050	618,106	591,786	507,774	448,873	349,362	401,980	428,595	458,917	403,366	439,264	501,442	603,379	5,752,844
													Projected

Central Power

Total System Demand Purchases (kW)

Year	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total
2000	219,845	211,138	192,520	174,238	156,204	152,853	170,445	184,856	161,172	177,120	207,453	239,870	2,247,714
2001	217,097	212,313	195,013	177,741	147,894	162,246	174,795	186,141	174,802	192,965	214,299	221,097	2,276,403
2002	225,069	218,075	217,286	190,635	169,217	174,218	187,870	183,327	179,646	217,147	220,200	234,768	2,417,458
2003	249,173	245,689	240,715	200,006	154,920	159,295	178,061	202,978	185,534	194,248	227,786	237,172	2,475,577
2004	263,473	250,230	218,166	178,640	172,329	156,421	185,009	170,773	185,431	201,610	221,660	256,524	2,460,266
2005	269,934	243,182	217,665	180,028	172,185	182,778	189,739	184,728	176,530	203,988	227,992	253,053	2,501,802
2006	228,174	278,627	223,936	190,679	166,837	181,188	198,975	195,895	173,095	228,624	269,610	278,815	2,614,455
2007	283,771	283,344	249,073	228,552	169,853	186,543	221,184	200,790	194,142	218,622	292,685	288,712	2,817,271
2008	309,147	304,968	284,862	218,881	185,342	178,700	205,509	222,833	196,373	233,641	291,080	334,084	2,965,420
2009	325,309	305,788	309,990	237,685	183,354	194,220	190,749	209,620	219,802	241,249	265,162	341,416	3,024,344
2010	337,232	312,423	274,485	224,943	210,420	215,164	237,589	255,197	219,571	265,046	315,339	335,049	3,202,458
2011	341,631	342,343	332,015	261,472	224,218	225,625	244,029	245,797	235,965	269,280	325,758	348,227	3,396,360
2012	386,003	354,429	307,918	257,020	211,650	250,497	271,778	283,638	250,466	297,817	347,907	349,661	3,568,784
2013	390,006	374,943	348,447	311,506	243,540	221,130	251,682	274,540	281,968	308,636	391,980	410,525	3,808,903
2014	494,567	457,123	448,651	386,597	299,718	267,512	316,673	313,232	327,534	377,948	444,499	460,731	4,594,785
2015	478,215	461,809	449,368	328,934	277,374	317,787	335,155	369,942	358,456	333,660	371,630	418,695	4,501,025
2016	445,688	407,141	373,627	323,710	268,375	314,492	344,096	351,829	314,849	332,189	359,538	475,925	4,311,459
2017	474,417	439,903	422,415	329,113	269,132	326,559	360,307	333,944	331,708	361,860	417,709	467,112	4,534,179
2018	472,450	455,978	380,632	419,888	316,774	328,056	334,137	358,273	297,546	354,449	419,114	442,545	4,579,842
2019	489,661	479,819	415,045	368,154	299,639	330,905	348,843	368,814	332,203	365,629	415,184	483,296	4,697,192
2020	498,680	464,142	420,820	374,513	292,753	330,216	348,513	368,715	326,916	361,738	418,420	490,014	4,695,440
2021	507,300	486,892	428,116	381,955	298,983	336,928	355,419	375,974	333,432	369,237	426,875	499,750	4,800,861
2022	516,225	495,580	435,722	387,728	303,537	342,009	360,920	381,828	338,589	373,770	432,334	506,471	4,874,713
2023	522,696	501,836	440,955	392,214	306,893	345,906	365,213	386,466	342,570	378,044	437,463	512,794	4,933,050
2024	529,315	492,967	446,324	396,828	310,341	349,903	369,603	391,212	346,671	382,423	442,711	519,262	4,977,560
2025	535,520	514,230	451,298	401,091	313,560	353,681	373,778	395,708	350,500	386,507	447,614	525,337	5,048,824
2026	541,847	520,342	456,399	405,461	316,838	357,500	377,990	400,253	354,394	390,673	452,618	531,525	5,105,840
2027	548,195	526,485	461,525	409,854	320,139	361,345	382,225	404,826	358,323	394,849	457,629	537,732	5,163,127
2028	554,652	516,603	466,740	414,339	323,509	365,265	386,534	409,474	362,322	399,122	462,747	544,047	5,205,354
2029	560,982	538,865	471,862	418,738	326,811	369,108	390,760	414,040	366,258	403,298	467,751	550,235	5,278,708
2030	566,585	544,247	476,332	422,515	329,660	372,453	394,490	418,059	369,639	406,915	472,132	555,722	5,328,749
2031	571,768	549,225	480,469	426,015	332,302	375,576	397,975	421,821	372,799	410,272	476,189	560,796	5,375,207
2032	577,017	537,400	484,661	429,580	335,004	378,776	401,534	425,660	376,039	413,690	480,305	565,934	5,405,600
2033	582,176	559,238	488,785	433,092	337,678	381,956	405,066	429,475	379,263	417,052	484,348	570,983	5,469,112
2034	587,634	564,496	493,162	436,825	340,497	385,271	408,740	433,439	382,627	420,625	488,645	576,323	5,518,284
2035	592,884	569,564	497,376	440,419	343,227	388,501	412,318	437,306	385,915	424,053	492,761	581,460	5,565,784
2036	598,274	557,195	501,717	444,121	346,018	391,783	415,950	441,234	389,268	427,572	496,992	586,730	5,596,854
2037	603,743	580,058	506,120	447,885	348,870	395,140	419,659	445,246	392,689	431,161	501,297	592,076	5,663,944
2038	609,178	585,315	510,505	451,630	351,699	398,459	423,326	449,214	396,078	434,726	505,575	597,387	5,713,092
2039	614,610	590,576	514,893	455,377	354,533	401,790	427,004	453,200	399,490	438,282	509,840	602,694	5,762,289
2040	620,147	577,631	519,366	459,210	357,435	405,193	430,752	457,256	402,968	441,925	514,204	608,103	5,794,190
2041	625,762	601,380	523,905	463,100	360,378	408,639	434,548	461,362	406,491	445,625	518,632	613,590	5,863,412
2042	631,492	606,939	528,552	467,069	363,357	412,114	438,378	465,514	410,065	449,377	523,137	619,187	5,915,181
2043	637,276	612,542	533,229	471,080	366,386	415,655	442,277	469,731	413,687	453,191	527,701	624,838	5,967,593
2044	643,090	599,104	537,937	475,107	369,422	419,203	446,188	473,968	417,326	457,011	532,279	630,517	6,001,152
2045	648,956	623,864	542,681	479,170	372,488	422,783	450,130	478,231	420,988	460,870	536,901	636,249	6,073,311
2046	654,968	629,694	547,555	483,335	375,617	426,429	454,149	482,586	424,732	464,815	541,634	642,121	6,127,635
2047	661,092	635,630	552,517	487,578	378,800	430,127	458,224	486,997	428,527	468,837	546,459	648,103	6,182,891
2048	667,167	621,641	557,432	491,787	381,981	433,845	462,319	491,426	432,333	472,832	551,242	654,041	6,218,046
2049	673,470	647,630	562,533	496,153	385,267	437,673	466,536	495,988	436,254	476,975	556,209	660,200	6,294,888
2050	679,977	653,942	567,815	500,662	388,635	441,575	470,836	500,646	440,267	481,238	561,329	666,556	6,353,478

Note: Includes Omega WAPA Allocation from 2000 through 2050

Projected

Central Power

WAPA Energy Purchases (MWh)

<u>Year</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>Total</u>
2000	35,057	38,744	29,827	29,456	21,955	21,283	22,085	22,465	21,268	23,516	29,741	37,176	332,573
2001	33,644	36,025	28,509	28,296	20,887	20,443	21,213	21,605	20,503	22,580	28,767	35,900	318,372
2002	33,610	35,798	28,794	28,215	21,044	20,462	21,214	21,608	20,509	22,594	28,771	35,906	318,525
2003	33,807	36,023	28,801	28,286	20,986	20,454	21,205	21,606	20,493	22,598	28,778	35,908	318,945
2004	33,806	37,322	28,810	28,289	21,070	20,452	21,213	21,599	20,506	22,605	28,774	35,919	320,365
2005	33,820	36,027	28,800	28,288	21,042	20,387	20,846	21,594	20,507	22,611	28,779	35,918	318,619
2006	33,735	35,942	28,746	28,230	21,034	20,402	21,177	21,533	20,475	22,523	28,724	35,840	318,361
2007	33,741	35,962	28,755	28,234	21,041	20,451	21,182	21,984	20,476	22,563	28,720	35,844	318,953
2008	33,744	37,240	28,755	28,235	21,046	20,430	21,153	21,579	20,478	22,574	28,740	35,838	319,812
2009	33,747	35,962	28,756	28,239	21,048	20,436	21,186	21,583	20,474	22,565	28,726	35,838	318,560
2010	33,743	35,959	28,717	28,239	21,051	20,430	21,187	21,556	20,481	22,563	28,728	35,852	318,506
2011	33,751	35,954	28,742	28,237	21,037	20,435	21,169	21,572	20,443	22,562	28,723	35,837	318,462
2012	33,741	37,244	28,752	28,248	20,905	20,421	21,177	21,570	20,466	22,566	28,717	35,851	319,658
2013	33,742	35,957	28,750	28,223	20,882	20,423	21,151	21,335	20,475	22,549	28,732	35,846	318,065
2014	35,106	37,358	29,887	29,277	21,780	21,140	21,985	22,260	20,841	22,991	29,426	36,906	328,957
2015	35,071	37,370	29,887	29,376	21,785	21,143	21,962	22,409	21,219	23,383	29,792	37,268	330,665
2016	35,093	38,658	29,867	29,353	21,751	21,112	21,956	22,376	21,196	23,363	29,765	37,217	331,707
2017	35,090	37,351	29,871	29,422	21,751	21,112	21,947	22,473	21,448	23,627	30,011	37,455	331,558
2018	35,081	37,319	29,867	29,223	21,764	21,128	21,959	22,389	21,205	23,131	29,762	37,201	330,029
2019	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2020	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2021	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2022	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2023	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2024	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2025	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2026	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2027	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2028	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2029	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2030	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2031	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2032	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2033	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2034	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2035	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2036	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2037	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2038	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2039	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2040	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2041	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2042	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2043	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2044	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2045	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2046	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2047	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2048	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2049	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830
2050	35,229	37,495	29,988	29,461	21,883	21,241	22,079	22,498	21,304	23,420	29,879	37,353	331,830

Note: Includes Omega WAPA Allocation from 1990 through 2025

Projected

Central Power

Basin Electric Energy Purchases (MWh)

<u>Year</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>Total</u>
2000	102,853	77,549	82,941	68,283	68,882	65,831	76,045	84,363	75,178	84,900	94,644	115,103	996,572
2001	96,738	82,869	92,478	73,040	68,692	69,224	80,420	87,164	73,991	86,120	85,057	99,266	995,059
2002	103,149	79,495	102,094	78,306	77,885	73,233	83,828	85,341	82,911	103,061	106,210	107,562	1,083,075
2003	115,934	98,076	104,419	76,882	74,138	69,200	81,513	94,672	81,910	91,631	104,394	107,474	1,100,243
2004	126,607	98,031	100,495	77,996	78,009	70,013	80,913	79,849	95,185	105,548	106,476	118,889	1,138,011
2005	131,079	94,774	106,388	79,452	81,914	76,741	87,612	89,097	80,658	95,731	106,288	118,392	1,148,126
2006	110,686	106,764	111,869	80,306	79,925	81,512	99,013	94,666	80,788	108,633	116,973	122,328	1,193,463
2007	132,817	120,768	110,996	92,959	87,041	85,429	102,641	100,628	89,437	106,959	127,697	144,091	1,301,463
2008	149,067	130,676	123,996	98,967	90,753	82,809	100,022	111,010	98,284	114,766	138,679	170,348	1,409,377
2009	164,449	130,133	144,806	106,013	96,015	92,782	96,061	99,059	112,306	130,932	136,008	175,490	1,484,054
2010	166,201	138,936	133,510	103,864	107,468	98,699	116,029	127,319	117,931	136,475	153,649	175,903	1,575,984
2011	181,996	150,234	162,547	123,155	115,609	105,933	121,681	121,914	118,966	135,722	157,487	168,614	1,663,858
2012	177,280	151,446	135,007	116,460	115,757	116,615	139,669	144,849	126,219	153,296	167,393	189,569	1,733,560
2013	196,954	156,667	178,885	142,005	119,672	110,370	127,669	134,966	131,174	164,006	194,883	223,186	1,880,437
2014	239,286	215,755	210,251	168,473	157,611	140,994	157,659	157,001	166,531	184,739	226,906	222,490	2,247,696
2015	229,703	214,594	192,092	155,575	150,623	146,628	169,081	178,117	159,522	173,320	185,506	209,130	2,163,891
2016	224,661	179,578	173,259	152,653	144,228	150,630	165,012	176,837	151,295	181,359	186,393	240,800	2,126,705
2017	233,866	185,526	203,868	160,361	153,630	157,213	182,269	164,986	152,888	177,983	208,094	226,296	2,206,980
2018	237,358	213,212	200,233	176,834	159,678	162,571	169,423	178,152	154,854	192,749	217,667	220,245	2,282,976
2019	249,632	207,647	204,750	171,212	165,910	164,774	181,481	184,600	161,547	193,331	214,593	243,867	2,343,344
2020	252,969	211,646	208,523	172,636	163,857	164,643	181,476	184,621	158,681	190,987	217,452	248,198	2,355,689
2021	258,091	216,198	212,808	176,836	167,761	168,471	185,470	188,699	162,328	195,450	222,542	253,916	2,408,570
2022	263,217	220,771	217,123	180,040	170,687	171,333	188,628	191,920	165,137	198,265	225,959	257,944	2,451,024
2023	267,032	224,068	220,177	182,550	172,941	173,540	191,119	194,471	167,287	200,896	229,148	261,707	2,484,936
2024	270,878	227,393	223,262	185,080	175,210	175,759	193,627	197,039	169,458	203,548	232,355	265,501	2,519,110
2025	274,648	230,651	226,282	187,566	177,452	177,957	196,109	199,568	171,590	206,157	235,509	269,224	2,552,713
2026	278,422	233,914	229,307	190,052	179,684	180,144	198,578	202,088	173,720	208,760	238,660	272,949	2,586,278
2027	282,179	237,163	232,320	192,523	181,907	182,321	201,039	204,603	175,842	211,348	241,791	276,654	2,619,690
2028	285,978	240,447	235,364	195,022	184,157	184,524	203,527	207,143	177,987	213,970	244,964	280,403	2,653,486
2029	289,689	243,655	238,339	197,465	186,354	186,675	205,958	209,627	180,082	216,526	248,055	284,062	2,686,487
2030	293,223	246,713	241,172	199,788	188,445	188,723	208,270	211,989	182,075	218,957	251,000	287,549	2,717,904
2031	296,501	249,547	243,800	201,946	190,389	190,631	210,430	214,193	183,928	221,215	253,731	290,780	2,747,091
2032	299,780	252,383	246,430	204,106	192,337	192,549	212,600	216,406	185,788	223,479	256,464	294,011	2,776,333
2033	302,976	255,148	248,997	206,213	194,246	194,426	214,730	218,575	187,608	225,684	259,128	297,165	2,804,896
2034	306,317	258,037	251,675	208,415	196,229	196,373	216,932	220,823	189,499	227,991	261,917	300,463	2,834,671
2035	309,522	260,808	254,248	210,525	198,139	198,252	219,062	222,996	191,321	230,200	264,582	303,622	2,863,277
2036	312,779	263,627	256,859	212,667	200,066	200,147	221,207	225,190	193,169	232,439	267,288	306,829	2,892,267
2037	316,058	266,462	259,490	214,825	202,016	202,063	223,378	227,406	195,027	234,699	270,020	310,064	2,921,508
2038	319,308	269,273	262,098	216,964	203,945	203,959	225,523	229,602	196,868	236,938	272,724	313,266	2,950,468
2039	322,542	272,071	264,694	219,091	205,863	205,844	227,663	231,793	198,704	239,159	275,410	316,449	2,979,283
2040	325,803	274,894	267,310	221,238	207,800	207,749	229,820	233,998	200,553	241,404	278,127	319,665	3,008,361
2041	329,112	277,756	269,966	223,417	209,766	209,680	232,008	236,235	202,427	243,686	280,883	322,925	3,037,861
2042	332,485	280,673	272,670	225,631	211,759	211,634	234,218	238,505	204,334	245,996	283,681	326,245	3,067,831
2043	335,892	283,619	275,404	227,876	213,781	213,621	236,468	240,804	206,265	248,347	286,518	329,603	3,098,198
2044	339,316	286,583	278,151	230,129	215,812	215,615	238,725	243,117	208,205	250,701	289,365	332,975	3,128,694
2045	342,773	289,574	280,926	232,404	217,863	217,629	241,003	245,448	210,161	253,083	292,244	336,381	3,159,489
2046	346,314	292,635	283,768	234,731	219,956	219,681	243,325	247,832	212,163	255,512	295,184	339,867	3,190,968
2047	349,921	295,755	286,657	237,102	222,087	221,768	245,684	250,254	214,199	257,991	298,181	343,419	3,223,018
2048	353,504	298,857	289,536	239,462	224,216	223,859	248,051	252,674	216,230	260,459	301,162	346,948	3,254,958
2049	357,218	302,067	292,514	241,904	226,414	226,014	250,489	255,171	218,328	263,015	304,250	350,607	3,287,991
2050	361,048	305,382	295,585	244,419	228,672	228,223	252,986	257,735	220,486	265,640	307,427	354,375	3,321,978
													Projected

Central Power

Total System Energy Purchases (MWh)

<u>Year</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>Total</u>
2000	137,910	116,293	112,768	97,739	90,837	87,114	98,130	106,828	96,446	108,416	124,385	152,279	1,329,145
2001	130,382	118,894	120,987	101,336	89,579	89,667	101,633	108,769	94,494	108,700	113,824	135,166	1,313,431
2002	136,759	115,293	130,888	106,521	98,929	93,695	105,042	106,949	103,420	125,655	134,981	143,468	1,401,600
2003	149,741	134,099	133,220	105,168	95,124	89,654	102,718	116,278	102,403	114,229	133,172	143,382	1,419,188
2004	160,413	135,353	129,305	106,285	99,079	90,465	102,126	101,448	115,691	128,153	135,250	154,808	1,458,376
2005	164,899	130,801	135,188	107,740	102,956	97,128	108,458	110,691	101,165	118,342	135,067	154,310	1,466,745
2006	144,421	142,706	140,615	108,536	100,959	101,914	120,190	116,199	101,263	131,156	145,697	158,168	1,511,824
2007	166,558	156,730	139,751	121,193	108,082	105,880	123,823	122,612	109,913	129,522	156,417	179,935	1,620,416
2008	182,811	167,916	152,751	127,202	111,799	103,239	121,175	132,589	118,762	137,340	167,419	206,186	1,729,189
2009	198,196	166,095	173,562	134,252	117,063	113,218	117,247	120,642	132,780	153,497	164,734	211,328	1,802,614
2010	199,944	174,895	162,227	132,103	128,519	119,129	137,216	148,875	138,412	159,038	182,377	211,755	1,894,490
2011	215,747	186,188	191,289	151,392	136,646	126,368	142,850	143,486	139,409	158,284	186,210	204,451	1,982,320
2012	211,021	188,690	163,759	144,708	136,662	137,036	160,846	166,419	146,685	175,862	196,110	225,420	2,053,218
2013	230,696	192,624	207,635	170,228	140,554	130,793	148,820	156,301	151,649	186,555	223,615	259,032	2,198,502
2014	274,392	253,113	240,138	197,750	179,391	162,134	179,644	179,261	187,372	207,730	256,332	259,396	2,576,653
2015	264,774	251,964	221,979	184,951	172,408	167,771	191,043	200,526	180,741	196,703	215,298	246,398	2,494,556
2016	259,754	218,236	203,126	182,006	165,979	171,742	186,968	199,213	172,491	204,722	216,158	278,017	2,458,412
2017	268,956	222,877	233,739	189,783	175,381	178,325	204,216	187,459	174,336	201,610	238,105	263,751	2,538,538
2018	272,439	250,531	230,100	206,057	181,442	183,699	191,382	200,541	176,059	215,880	247,429	257,446	2,613,005
2019	284,861	245,142	234,738	200,673	187,793	186,015	203,560	207,098	182,851	216,751	244,472	281,220	2,675,174
2020	288,198	249,141	238,511	202,097	185,740	185,884	203,555	207,119	179,985	214,407	247,331	285,551	2,687,519
2021	293,320	253,693	242,796	206,297	189,644	189,712	207,549	211,197	183,632	218,870	252,421	291,269	2,740,400
2022	298,446	258,266	247,111	209,501	192,570	192,574	210,707	214,418	186,441	221,685	255,838	295,297	2,782,854
2023	302,261	261,563	250,165	212,011	194,824	194,781	213,198	216,969	188,591	224,316	259,027	299,060	2,816,766
2024	306,107	264,888	253,250	214,541	197,093	197,000	215,706	219,537	190,762	226,968	262,234	302,854	2,850,940
2025	309,877	268,146	256,270	217,027	199,335	199,198	218,188	222,066	192,894	229,577	265,388	306,577	2,884,543
2026	313,651	271,409	259,295	219,513	201,567	201,385	220,657	224,586	195,024	232,180	268,539	310,302	2,918,108
2027	317,408	274,658	262,308	221,984	203,790	203,562	223,118	227,101	197,146	234,768	271,670	314,007	2,951,520
2028	321,207	277,942	265,352	224,483	206,040	205,765	225,606	229,641	199,291	237,390	274,843	317,756	2,985,316
2029	324,918	281,150	268,327	226,926	208,237	207,916	228,037	232,125	201,386	239,946	277,934	321,415	3,018,317
2030	328,452	284,208	271,160	229,249	210,328	209,964	230,349	234,487	203,379	242,377	280,879	324,902	3,049,734
2031	331,730	287,042	273,788	231,407	212,272	211,872	232,509	236,691	205,232	244,635	283,610	328,133	3,078,921
2032	335,009	289,878	276,418	233,567	214,220	213,790	234,679	238,904	207,092	246,899	286,343	331,364	3,108,163
2033	338,205	292,643	278,985	235,674	216,129	215,667	236,809	241,073	208,912	249,104	289,007	334,518	3,136,726
2034	341,546	295,532	281,663	237,876	218,112	217,614	239,011	243,321	210,803	251,411	291,796	337,816	3,166,501
2035	344,751	298,303	284,236	239,986	220,022	219,493	241,141	245,494	212,625	253,620	294,461	340,975	3,195,107
2036	348,008	301,122	286,847	242,128	221,949	221,388	243,286	247,688	214,473	255,859	297,167	344,182	3,224,097
2037	351,287	303,957	289,478	244,286	223,899	223,304	245,457	249,904	216,331	258,119	299,899	347,417	3,253,338
2038	354,537	306,768	292,086	246,425	225,828	225,200	247,602	252,100	218,172	260,358	302,603	350,619	3,282,298
2039	357,771	309,566	294,682	248,552	227,746	227,085	249,742	254,291	220,008	262,579	305,289	353,802	3,311,113
2040	361,032	312,389	297,298	250,699	229,683	228,990	251,899	256,496	221,857	264,824	308,006	357,018	3,340,191
2041	364,341	315,251	299,954	252,878	231,649	230,921	254,087	258,733	223,731	267,106	310,762	360,278	3,369,691
2042	367,714	318,168	302,658	255,092	233,642	232,875	256,297	261,003	225,638	269,416	313,560	363,598	3,399,661
2043	371,121	321,114	305,392	257,337	235,664	234,862	258,547	263,302	227,569	271,767	316,397	366,956	3,430,028
2044	374,545	324,078	308,139	259,590	237,695	236,856	260,804	265,615	229,509	274,121	319,244	370,328	3,460,524
2045	378,002	327,069	310,914	261,865	239,746	238,870	263,082	267,946	231,465	276,503	322,123	373,734	3,491,319
2046	381,543	330,130	313,756	264,192	241,839	240,922	265,404	270,330	233,467	278,932	325,063	377,220	3,522,798
2047	385,150	333,250	316,645	266,563	243,970	243,009	267,763	272,752	235,503	281,411	328,060	380,772	3,554,848
2048	388,733	336,352	319,524	268,923	246,099	245,100	270,130	275,172	237,534	283,879	331,041	384,301	3,586,788
2049	392,447	339,562	322,502	271,365	248,297	247,255	272,568	277,669	239,632	286,435	334,129	387,960	3,619,821
2050	396,277	342,877	325,573	273,880	250,555	249,464	275,065	280,233	241,790	289,060	337,306	391,728	3,653,808

Note: Includes Omega WAPA Allocation from 2000 through 2050

Projected

CAPITAL ELECTRIC

2020 Load Forecast

SUMMARY

Capital Electric Cooperative

Demand Purchases (kW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	27,750	26,099	24,968	21,583	20,911	30,552	35,736	38,203	26,208	21,852	28,396	32,761	335,019
	2001	29,151	28,532	25,504	23,131	27,985	36,792	38,069	43,008	40,890	25,950	30,841	30,993	380,846
	2002	30,402	29,861	29,221	28,163	27,607	42,563	45,805	44,098	38,847	28,370	29,723	33,231	407,891
	2003	34,416	33,136	32,340	28,817	26,586	36,855	45,743	49,034	42,455	28,967	32,664	34,533	425,546
	2004	38,277	34,934	30,874	25,067	25,115	37,527	46,962	37,475	37,948	28,148	33,445	39,092	414,864
	2005	40,447	35,236	31,307	27,213	30,956	48,210	48,051	46,240	41,831	31,245	38,936	42,530	462,202
	2006	37,820	41,550	36,654	30,523	37,120	52,506	57,876	53,216	37,960	39,095	47,636	45,962	517,918
	2007	46,788	46,883	42,108	35,820	37,352	52,705	65,603	54,982	55,856	34,069	46,965	47,032	566,163
	2008	51,447	50,479	43,891	35,969	32,056	48,180	54,651	57,898	41,947	38,738	45,913	62,978	564,147
	2009	57,117	52,724	53,560	40,617	34,307	55,107	54,121	62,663	54,017	40,259	43,750	58,532	606,774
	2010	59,839	52,515	45,067	34,653	46,143	62,299	64,286	68,844	38,662	44,898	55,514	60,310	633,030
	2011	57,274	57,855	53,185	42,544	34,432	56,595	68,223	63,163	54,616	41,950	50,245	55,812	635,894
	2012	62,111	52,703	44,578	39,250	42,321	65,234	70,444	70,746	57,276	45,469	54,380	60,668	665,180
	2013	64,034	60,570	56,656	48,415	43,388	59,561	70,354	74,619	71,816	47,673	59,926	70,849	727,861
	2014	77,500	65,759	63,137	53,312	61,460	53,975	67,935	66,135	61,417	46,567	65,321	66,983	749,501
	2015	70,389	64,036	62,979	41,949	42,354	67,556	71,017	82,697	73,340	47,673	54,252	63,570	741,812
	2016	64,656	56,481	54,558	47,731	48,572	69,339	83,491	74,202	63,331	42,850	50,330	73,621	729,162
	2017	68,715	66,230	59,583	45,524	37,493	75,093	81,052	70,943	73,439	47,509	53,786	70,184	749,551
2018	70,629	69,362	51,013	61,179	68,142	75,357	77,725	83,592	64,460	49,944	56,805	67,059	795,267	
Projected	2019	74,153	72,671	57,302	54,931	49,455	72,453	78,000	84,588	74,565	51,696	57,063	73,489	800,365
	2020	74,431	70,379	57,465	55,034	49,577	72,739	78,400	84,986	74,785	51,821	57,223	73,773	800,613
	2021	75,182	73,607	58,024	55,547	50,051	73,478	79,236	85,877	75,514	52,316	57,778	74,521	811,132
	2022	76,208	74,599	58,804	56,282	50,719	74,484	80,342	87,068	76,531	53,013	58,554	75,540	822,144
	2023	77,324	75,682	59,655	57,087	51,451	75,578	81,539	88,358	77,641	53,778	59,402	76,648	834,142
	2024	78,498	74,176	60,554	57,941	52,223	76,727	82,791	89,710	78,812	54,585	60,297	77,812	844,126
	2025	79,664	77,954	61,442	58,777	52,984	77,870	84,048	91,063	79,968	55,379	61,179	78,971	859,299
	2026	80,795	79,050	62,303	59,590	53,723	78,978	85,262	92,371	81,090	56,151	62,037	80,093	871,442
	2027	81,926	80,147	63,166	60,407	54,464	80,086	86,474	93,678	82,215	56,925	62,896	81,216	883,599
	2028	83,087	78,473	64,054	61,248	55,227	81,223	87,715	95,018	83,372	57,722	63,779	82,368	893,285
	2029	84,233	82,390	64,931	62,079	55,980	82,345	88,939	96,339	84,513	58,509	64,652	83,505	908,415
	2030	85,180	83,300	65,644	62,743	56,588	83,276	89,977	97,451	85,444	59,144	65,361	84,448	918,556
	2031	86,118	84,201	66,350	63,402	57,192	84,197	91,001	98,549	86,366	59,774	66,064	85,380	928,594
	2032	87,128	82,238	67,115	64,118	57,845	85,188	92,097	99,727	87,363	60,457	66,824	86,384	936,483
	2033	88,164	86,175	67,900	64,856	58,518	86,204	93,218	100,931	88,387	61,159	67,606	87,413	950,530
	2034	89,173	87,151	68,666	65,575	59,173	87,194	94,309	102,105	89,385	61,844	68,367	88,415	961,357
	2035	90,196	88,140	69,443	66,307	59,839	88,197	95,412	103,292	90,398	62,539	69,141	89,431	972,334
	2036	91,211	86,050	70,216	67,036	60,502	89,192	96,505	104,469	91,405	63,231	69,910	90,439	980,169
	2037	92,250	90,131	71,008	67,783	61,181	90,210	97,621	105,672	92,437	63,941	70,698	91,471	994,403
	2038	93,239	91,089	71,761	68,495	61,828	91,179	98,684	106,817	93,419	64,616	71,448	92,453	1,005,027
	2039	94,256	92,077	72,538	69,229	62,494	92,176	99,775	107,993	94,431	65,312	72,220	93,463	1,015,964
	2040	95,287	89,869	73,326	69,975	63,171	93,185	100,877	109,182	95,457	66,020	73,004	94,486	1,023,839
	2041	96,311	94,073	74,108	70,717	63,843	94,188	101,972	110,363	96,476	66,722	73,783	95,501	1,038,056
	2042	97,333	95,066	74,889	71,456	64,514	95,189	103,065	111,543	97,494	67,423	74,560	96,516	1,049,047
	2043	98,382	96,086	75,691	72,217	65,203	96,216	104,187	112,754	98,539	68,143	75,359	97,557	1,060,334
	2044	99,423	93,749	76,487	72,970	65,887	97,236	105,301	113,956	99,576	68,857	76,151	98,591	1,068,185
	2045	100,463	98,108	77,282	73,723	66,569	98,255	106,414	115,156	100,611	69,570	76,942	99,623	1,082,717
	2046	101,517	99,131	78,087	74,485	67,261	99,287	107,541	116,372	101,660	70,292	77,743	100,669	1,094,045
	2047	102,557	100,141	78,881	75,237	67,943	100,305	108,655	117,574	102,695	71,005	78,534	101,701	1,105,228
	2048	103,639	97,703	79,708	76,020	68,653	101,366	109,813	118,823	103,772	71,747	79,357	102,775	1,113,378
	2049	104,741	102,263	80,550	76,818	69,376	102,445	110,992	120,095	104,869	72,502	80,194	103,869	1,128,714
	2050	105,812	103,303	81,368	77,591	70,078	103,493	112,139	121,332	105,934	73,236	81,008	104,932	1,140,226

Capital Electric Cooperative

Energy Purchases (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	15,266	13,205	12,636	11,470	11,199	11,878	15,263	15,523	12,208	12,428	14,492	17,885	163,453
	2001	15,794	14,964	14,221	12,626	12,097	13,106	16,610	17,713	12,955	13,246	13,637	16,670	173,639
	2002	16,444	14,152	16,112	13,394	13,346	15,180	19,150	16,143	14,547	14,757	15,367	17,662	186,254
	2003	18,365	16,603	16,629	13,707	13,468	14,416	18,672	20,527	14,852	14,644	16,921	18,460	197,264
	2004	20,369	17,570	16,239	13,847	13,895	14,054	18,190	16,106	15,751	15,544	16,481	20,220	198,266
	2005	21,562	17,114	17,577	14,780	15,149	17,577	21,316	19,840	16,543	16,392	18,116	22,174	218,140
	2006	20,316	19,480	19,944	16,020	17,076	19,489	25,834	22,710	16,943	18,783	20,682	23,883	241,160
	2007	24,628	23,159	20,420	18,050	17,316	20,299	26,883	22,527	19,004	18,761	21,533	26,625	259,205
	2008	27,049	24,955	22,515	19,144	18,047	18,757	24,969	25,550	18,507	19,990	23,499	31,504	274,486
	2009	30,768	25,826	26,423	21,053	18,767	20,623	22,391	23,301	22,488	22,271	22,405	31,674	287,990
	2010	31,088	26,752	24,218	19,548	20,446	21,467	26,204	27,366	19,775	21,411	25,650	32,214	296,139
	2011	32,261	27,618	27,858	22,221	20,059	20,932	27,747	26,648	21,735	22,094	25,405	29,374	303,952
	2012	29,789	26,698	23,007	20,924	20,820	24,300	32,245	27,204	21,978	24,143	27,821	33,275	312,204
	2013	34,315	28,517	30,568	25,784	22,248	24,267	29,370	30,373	24,878	25,033	30,335	39,297	344,985
	2014	36,188	33,027	30,584	24,951	23,410	23,040	27,843	26,396	23,977	23,955	31,684	34,650	339,705
	2015	35,018	33,053	28,378	23,573	23,066	26,146	31,554	31,669	26,201	24,136	27,569	33,590	343,953
	2016	36,463	28,938	27,509	24,670	24,119	28,879	32,293	32,392	24,402	25,688	27,615	40,074	353,042
	2017	38,702	30,674	31,514	25,057	24,626	28,452	35,751	29,804	25,714	26,560	31,616	37,529	365,999
2018	39,228	35,857	32,795	28,963	27,640	30,198	34,636	33,632	26,282	27,775	33,101	35,956	386,063	
Projected	2019	41,034	35,502	33,129	27,640	27,331	30,379	36,251	34,568	27,895	28,597	32,915	40,637	395,878
	2020	41,445	35,858	33,461	27,917	27,605	30,683	36,615	34,915	28,174	28,884	33,245	41,044	399,846
	2021	41,970	36,312	33,885	28,271	27,954	31,072	37,078	35,357	28,531	29,249	33,666	41,564	404,909
	2022	42,602	36,859	34,395	28,696	28,375	31,540	37,636	35,889	28,961	29,690	34,173	42,190	411,006
	2023	43,273	37,439	34,936	29,148	28,822	32,036	38,229	36,454	29,417	30,157	34,711	42,854	417,476
	2024	43,963	38,037	35,494	29,613	29,282	32,547	38,839	37,036	29,886	30,639	35,265	43,538	424,139
	2025	44,680	38,657	36,073	30,096	29,759	33,078	39,472	37,640	30,373	31,138	35,840	44,248	431,054
	2026	45,365	39,249	36,626	30,558	30,215	33,585	40,077	38,217	30,839	31,615	36,389	44,926	437,661
	2027	46,044	39,837	37,174	31,015	30,668	34,088	40,678	38,789	31,301	32,089	36,934	45,599	444,216
	2028	46,735	40,435	37,732	31,480	31,128	34,599	41,288	39,371	31,770	32,570	37,488	46,283	450,879
	2029	47,413	41,021	38,279	31,937	31,579	35,101	41,887	39,942	32,231	33,043	38,032	46,954	457,419
	2030	48,033	41,558	38,780	32,355	31,993	35,561	42,435	40,465	32,653	33,475	38,530	47,569	463,407
	2031	48,642	42,085	39,272	32,765	32,398	36,012	42,973	40,978	33,067	33,899	39,018	48,172	469,281
	2032	49,282	42,639	39,788	33,196	32,824	36,485	43,538	41,517	33,502	34,345	39,532	48,805	475,453
	2033	49,929	43,199	40,311	33,632	33,256	36,964	44,110	42,062	33,942	34,796	40,051	49,446	481,698
	2034	50,558	43,742	40,818	34,056	33,674	37,430	44,665	42,591	34,369	35,234	40,555	50,069	487,761
	2035	51,189	44,288	41,328	34,481	34,095	37,897	45,223	43,123	34,798	35,674	41,061	50,694	493,851
	2036	51,811	44,826	41,830	34,900	34,509	38,357	45,772	43,647	35,221	36,108	41,560	51,310	499,851
	2037	52,440	45,371	42,338	35,324	34,928	38,823	46,328	44,177	35,649	36,546	42,065	51,933	505,922
	2038	53,041	45,890	42,823	35,728	35,328	39,268	46,859	44,683	36,057	36,965	42,546	52,528	511,716
	2039	53,653	46,421	43,317	36,141	35,736	39,721	47,400	45,199	36,474	37,392	43,038	53,134	517,626
	2040	54,266	46,951	43,812	36,553	36,144	40,175	47,941	45,715	36,890	37,819	43,529	53,741	523,536
	2041	54,875	47,478	44,304	36,964	36,550	40,626	48,480	46,229	37,304	38,244	44,018	54,345	529,417
	2042	55,485	48,005	44,796	37,374	36,956	41,077	49,018	46,742	37,719	38,668	44,507	54,948	535,295
	2043	56,109	48,545	45,300	37,795	37,371	41,539	49,569	47,268	38,143	39,103	45,008	55,566	541,316
	2044	56,729	49,082	45,801	38,213	37,785	41,999	50,117	47,790	38,565	39,535	45,505	56,180	547,301
	2045	57,350	49,619	46,302	38,631	38,198	42,458	50,665	48,313	38,986	39,968	46,003	56,795	553,288
	2046	57,978	50,162	46,809	39,054	38,617	42,923	51,221	48,842	39,414	40,406	46,507	57,417	559,350
	2047	58,600	50,701	47,311	39,473	39,031	43,384	51,770	49,367	39,837	40,839	47,006	58,034	565,353
	2048	59,246	51,260	47,833	39,908	39,461	43,862	52,341	49,911	40,276	41,290	47,524	58,673	571,585
	2049	59,904	51,828	48,364	40,351	39,899	44,349	52,922	50,465	40,723	41,748	48,052	59,324	577,929
	2050	60,546	52,384	48,882	40,783	40,327	44,824	53,489	51,005	41,159	42,195	48,567	59,960	584,121

Capital Electric Cooperative

System Energy Requirements by Consumer Classification (MWh)

	<u>Total</u>	<u>Small</u>	<u>Large</u>			<u>Total</u>	<u>Own Use</u>	<u>Total</u>	
<u>Year</u>	<u>Residential</u>	<u>Commercial</u>	<u>Commercial</u>	<u>Irrigation</u>	<u>Other</u>	<u>Sales</u>	<u>& Losses</u>	<u>Energy</u>	
								<u>Requirements</u>	
H	2000	88,135	47,592	17,095	617	1,059	154,498	8,954	163,452
i	2001	94,870	51,543	20,291	691	1,041	168,436	5,201	173,637
s	2002	103,007	52,859	21,760	1,415	1,027	180,068	6,186	186,254
t	2003	108,883	60,061	21,647	1,446	1,057	193,094	4,169	197,263
r	2004	111,021	61,102	21,945	1,103	956	196,127	2,136	198,263
r	2005	125,508	63,753	26,830	1,351	1,394	218,836	-697	218,139
i	2006	133,469	68,164	33,026	1,778	1,441	237,878	3,282	241,160
c	2007	142,268	70,492	31,394	1,120	1,415	246,689	12,516	259,205
a	2008	150,436	74,926	31,047	1,601	1,195	259,205	15,279	274,484
	2009	167,519	79,367	30,087	978	1,194	279,145	8,846	287,991
	2010	166,668	79,007	29,265	1,050	1,173	277,163	18,977	296,140
	2011	173,462	82,181	28,767	394	1,175	285,979	17,974	303,953
	2012	178,312	84,597	27,910	1,270	1,224	293,313	18,891	312,204
	2013	200,961	93,768	26,824	1,154	1,224	323,931	21,053	344,984
	2014	208,118	94,965	27,824	623	1,198	332,728	6,978	339,706
	2015	206,878	98,936	27,395	1,056	1,178	335,443	8,509	343,952
	2016	209,821	100,788	26,616	1,035	1,154	339,414	13,631	353,045
	2017	214,078	106,492	27,231	1,550	1,125	350,476	15,525	366,001
	2018	228,361	111,788	28,029	1,366	1,092	370,636	15,427	386,063
	2019	233,831	113,597	28,673	1,274	1,093	378,468	17,410	395,878
	2020	235,064	115,555	29,276	1,274	1,093	382,262	17,584	399,846
	2021	237,321	117,526	29,889	1,274	1,093	387,103	17,807	404,910
	2022	240,550	119,506	30,508	1,274	1,093	392,931	18,075	411,006
	2023	244,169	121,488	31,094	1,274	1,093	399,118	18,359	417,477
	2024	247,966	123,469	31,684	1,274	1,093	405,486	18,652	424,138
	2025	252,005	125,451	32,275	1,274	1,093	412,098	18,956	431,054
	2026	255,759	127,419	32,868	1,274	1,093	418,413	19,247	437,660
	2027	259,480	129,378	33,458	1,274	1,093	424,683	19,535	444,218
	2028	263,319	131,322	34,042	1,274	1,093	431,050	19,828	450,878
	2029	267,063	133,252	34,622	1,274	1,093	437,304	20,116	457,420
P	2030	270,290	135,170	35,199	1,274	1,093	443,026	20,379	463,405
r	2031	273,438	137,069	35,768	1,274	1,093	448,642	20,638	469,280
r	2032	276,897	138,950	36,330	1,274	1,093	454,544	20,909	475,453
j	2033	280,453	140,811	36,882	1,274	1,093	460,513	21,184	481,697
e	2034	283,864	142,654	37,426	1,274	1,093	466,311	21,450	487,761
c	2035	287,327	144,473	37,965	1,274	1,093	472,132	21,718	493,850
t	2036	290,735	146,267	38,498	1,274	1,093	477,867	21,982	499,849
e	2037	294,248	148,035	39,023	1,274	1,093	483,673	22,249	505,922
d	2038	297,515	149,784	39,544	1,274	1,093	489,210	22,504	511,714
	2039	300,917	151,517	40,061	1,274	1,093	494,862	22,764	517,626
	2040	304,335	153,237	40,575	1,274	1,093	500,514	23,024	523,538
	2041	307,732	154,947	41,088	1,274	1,093	506,134	23,282	529,416
	2042	311,129	156,656	41,601	1,274	1,093	511,753	23,541	535,294
	2043	314,670	158,361	42,112	1,274	1,093	517,510	23,805	541,315
	2044	318,172	160,069	42,624	1,274	1,093	523,232	24,069	547,301
	2045	321,666	161,786	43,137	1,274	1,093	528,956	24,332	553,288
	2046	325,224	163,509	43,651	1,274	1,093	534,751	24,599	559,350
	2047	328,713	165,244	44,166	1,274	1,093	540,490	24,863	565,353
	2048	332,398	166,998	44,686	1,274	1,093	546,449	25,137	571,586
	2049	336,162	168,773	45,209	1,274	1,093	552,511	25,416	577,927
	2050	339,759	170,570	45,736	1,274	1,093	558,432	25,688	584,120

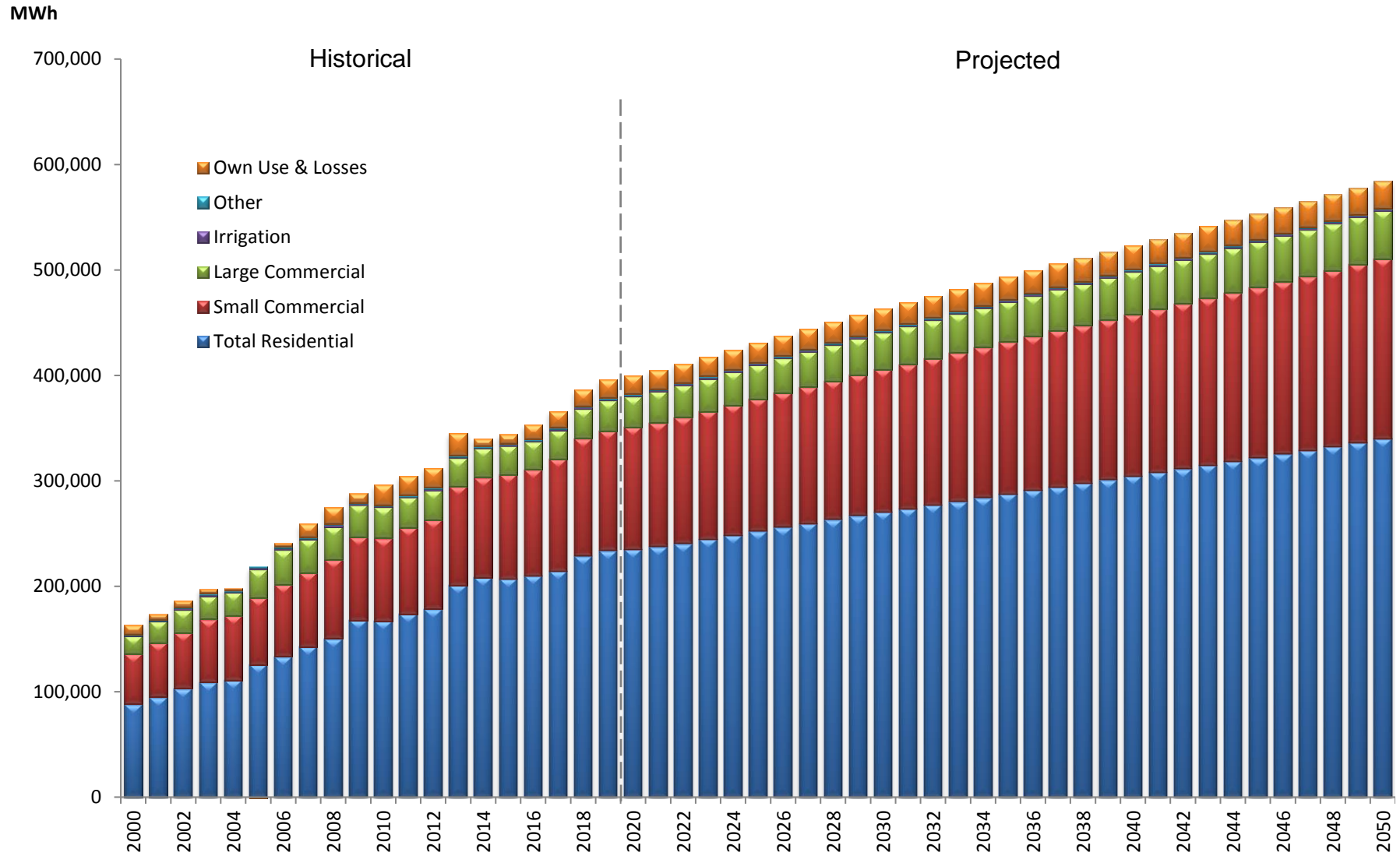
Historical Average Compound Growth Rates:

Projected Average Compound Growth Rates:

2000-2018	4.89%	2014-2018	3.25%
2019-2050	1.26%	2019-2023	1.34%

Capital Electric Cooperative

Annual Energy Requirements



DAKOTA VALLEY ELECTRIC

2020 Load Forecast

SUMMARY

Dakota Valley Electric Cooperative

Demand Purchases (kW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	57,261	54,481	51,985	44,115	41,424	42,064	46,666	49,930	45,187	54,964	56,066	61,219	605,362
	2001	56,109	41,401	51,070	45,872	40,260	44,254	47,174	52,991	46,865	54,779	54,838	54,335	589,948
	2002	55,154	54,478	53,519	45,505	44,577	46,381	50,656	52,442	49,548	61,938	59,813	59,846	633,857
	2003	62,027	59,062	58,680	52,543	42,342	42,149	47,543	54,041	50,711	55,873	58,246	63,704	646,921
	2004	64,219	60,760	56,235	50,150	42,565	41,371	50,011	45,402	48,121	54,057	61,876	64,052	638,819
	2005	64,701	59,467	53,646	50,678	45,613	43,998	47,568	44,272	41,576	60,597	60,757	63,485	636,358
	2006	57,534	66,743	57,551	50,343	44,066	48,142	52,744	49,246	49,805	65,442	67,663	69,912	679,191
	2007	68,831	65,913	58,098	56,417	50,603	48,506	52,843	47,655	43,037	62,179	71,703	70,400	696,185
	2008	66,740	67,847	63,649	54,115	47,289	45,071	57,616	59,520	55,526	60,271	77,160	78,996	733,800
	2009	73,398	68,947	67,245	61,955	46,242	45,365	48,851	50,377	52,911	62,309	76,938	84,218	738,756
	2010	79,079	76,145	71,442	62,884	59,673	54,860	58,341	64,242	54,721	67,879	77,016	80,415	806,697
	2011	84,874	77,546	82,792	70,445	63,516	62,251	60,488	67,547	62,580	78,129	87,163	86,968	884,299
	2012	92,031	88,642	80,297	65,862	57,581	64,814	71,110	69,642	70,044	78,548	87,056	90,488	916,115
	2013	91,282	88,127	86,509	81,131	68,500	63,191	69,432	74,560	69,790	90,486	100,438	97,583	982,029
	2014	98,431	96,593	92,767	81,111	71,694	65,425	72,290	66,738	62,709	93,385	89,631	100,330	991,104
	2015	98,716	98,765	90,354	81,632	61,136	67,489	76,546	81,524	79,815	87,575	87,415	96,238	1,007,205
	2016	100,685	87,799	80,215	74,205	67,532	75,868	71,971	79,479	68,419	94,285	93,246	108,238	1,001,942
	2017	108,013	88,833	99,655	87,650	75,601	85,878	88,781	66,403	74,943	96,515	110,975	100,593	1,083,840
2018	103,864	89,542	86,207	94,439	82,000	81,329	79,055	76,354	60,348	89,735	104,546	103,536	1,050,955	
Projected	2019	105,504	103,664	93,475	88,791	81,452	82,105	80,778	77,857	69,729	97,040	106,897	108,793	1,096,086
	2020	109,272	95,370	94,993	91,656	80,262	82,956	81,316	78,373	70,135	97,775	107,753	109,689	1,099,551
	2021	110,182	98,370	95,667	92,300	80,750	83,466	81,858	78,890	70,538	98,519	108,622	110,598	1,109,761
	2022	111,143	99,236	96,383	92,988	81,273	84,010	82,433	79,442	70,972	99,304	109,536	111,555	1,118,273
	2023	111,973	99,983	97,001	93,581	81,724	84,480	82,929	79,918	71,346	99,982	110,325	112,381	1,125,621
	2024	112,759	98,398	97,588	94,145	82,152	84,926	83,399	80,370	71,703	100,625	111,073	113,163	1,130,301
	2025	113,628	101,473	98,234	94,764	82,622	85,416	83,918	80,867	72,092	101,335	111,900	114,029	1,140,280
	2026	114,438	102,202	98,838	95,343	83,062	85,874	84,403	81,331	72,457	101,997	112,671	114,836	1,147,453
	2027	115,208	102,896	99,411	95,894	83,481	86,310	84,863	81,773	72,805	102,626	113,404	115,603	1,154,272
	2028	116,063	101,271	100,050	96,508	83,947	86,795	85,375	82,265	73,194	103,325	114,216	116,453	1,159,461
	2029	116,812	104,343	100,609	97,045	84,355	87,220	85,823	82,696	73,533	103,937	114,928	117,198	1,168,501
	2030	117,527	104,982	101,137	97,550	84,738	87,620	86,249	83,101	73,848	104,521	115,611	117,913	1,174,796
	2031	118,160	105,547	101,604	97,995	85,077	87,973	86,625	83,459	74,126	105,037	116,216	118,546	1,180,365
	2032	118,819	103,655	102,092	98,462	85,431	88,342	87,018	83,834	74,417	105,576	116,845	119,204	1,183,693
	2033	119,445	106,698	102,556	98,905	85,768	88,694	87,392	84,190	74,695	106,087	117,444	119,830	1,191,703
	2034	120,153	107,333	103,081	99,409	86,150	89,092	87,814	84,594	75,011	106,665	118,117	120,535	1,197,955
	2035	120,751	107,870	103,525	99,834	86,473	89,428	88,171	84,935	75,278	107,154	118,688	121,131	1,203,237
	2036	121,335	105,834	103,959	100,249	86,788	89,757	88,519	85,268	75,539	107,631	119,244	121,714	1,205,837
	2037	122,001	108,994	104,455	100,725	87,150	90,134	88,917	85,650	75,839	108,175	119,878	122,377	1,214,296
	2038	122,628	109,558	104,921	101,173	87,490	90,488	89,292	86,010	76,121	108,687	120,474	123,001	1,219,843
	2039	123,192	110,065	105,341	101,575	87,796	90,807	89,629	86,333	76,375	109,148	121,012	123,564	1,224,836
	2040	123,849	108,020	105,832	102,047	88,154	91,180	90,022	86,711	76,673	109,686	121,636	124,217	1,228,026
	2041	124,511	111,255	106,326	102,522	88,515	91,556	90,419	87,092	76,974	110,227	122,265	124,876	1,236,539
	2042	125,064	111,753	106,739	102,918	88,816	91,869	90,750	87,409	77,223	110,679	122,791	125,427	1,241,438
	2043	125,741	112,364	107,244	103,404	89,185	92,253	91,155	87,798	77,531	111,232	123,435	126,100	1,247,442
	2044	126,364	110,210	107,709	103,850	89,524	92,606	91,528	88,157	77,813	111,742	124,027	126,721	1,250,251
	2045	127,038	113,534	108,212	104,333	89,891	92,988	91,931	88,544	78,118	112,293	124,667	127,391	1,258,940
	2046	127,657	114,092	108,674	104,777	90,228	93,339	92,301	88,900	78,399	112,799	125,256	128,007	1,264,428
	2047	128,317	114,687	109,166	105,250	90,588	93,713	92,696	89,279	78,698	113,338	125,883	128,663	1,270,278
	2048	128,985	112,491	109,664	105,728	90,951	94,092	93,096	89,663	79,000	113,884	126,518	129,328	1,273,401
	2049	129,694	115,928	110,194	106,237	91,338	94,495	93,520	90,071	79,322	114,464	127,192	130,034	1,282,487
	2050	130,337	116,508	110,673	106,697	91,688	94,859	93,905	90,440	79,613	114,989	127,803	130,673	1,288,184

Dakota Valley Electric Cooperative

Energy Purchases (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	37,713	32,018	33,710	27,295	27,467	25,858	28,358	31,655	27,316	35,158	36,165	39,872	382,585
	2001	32,225	23,584	33,402	28,707	25,736	26,835	29,984	30,989	28,222	32,489	33,394	36,077	361,644
	2002	35,722	30,946	31,635	28,658	26,988	28,048	30,248	31,510	28,747	37,904	39,616	39,548	389,570
	2003	39,542	34,834	36,213	32,855	28,787	25,724	30,839	33,763	31,859	36,240	37,399	39,769	407,824
	2004	41,215	35,659	36,465	31,833	28,693	25,856	29,632	28,729	30,617	35,929	41,761	42,218	408,607
	2005	42,153	34,279	36,931	32,521	29,323	26,679	30,376	29,761	24,190	36,988	40,062	42,008	405,271
	2006	39,568	37,933	37,821	33,138	29,333	29,451	34,751	31,436	29,400	40,008	41,902	42,030	426,771
	2007	43,496	39,050	37,471	35,348	33,850	30,927	33,171	30,896	28,042	39,219	43,617	46,005	441,092
	2008	44,685	40,275	39,153	36,386	31,252	27,918	35,151	38,744	33,385	41,141	48,781	51,794	468,665
	2009	48,378	40,907	43,048	36,694	31,799	30,687	31,184	30,587	31,698	43,630	49,620	55,725	473,957
	2010	51,071	44,442	45,633	39,414	38,180	34,405	36,917	40,386	36,091	46,170	50,631	55,126	518,466
	2011	56,537	48,091	52,042	44,179	41,742	37,187	39,651	41,284	38,922	49,717	53,500	55,457	558,309
	2012	56,618	50,865	47,177	38,974	40,351	39,500	46,216	46,374	44,782	47,683	52,349	58,836	569,725
	2013	59,529	50,445	55,203	50,340	46,167	40,028	43,003	46,242	41,745	53,832	64,026	65,265	615,825
	2014	61,185	56,784	56,570	49,347	49,569	43,885	45,131	43,989	41,875	53,712	62,323	59,651	624,021
	2015	60,148	56,581	55,760	48,668	45,814	43,528	49,259	50,005	49,133	56,605	55,771	60,534	631,806
	2016	63,508	55,208	54,695	47,411	43,429	44,525	50,816	49,872	50,469	60,519	61,394	66,633	648,479
	2017	65,670	56,478	61,011	53,594	53,548	51,910	55,664	47,134	45,338	56,226	62,703	65,103	674,379
2018	64,784	57,584	58,152	55,000	55,060	55,114	49,848	51,152	46,351	60,285	67,985	67,517	688,832	
Projected	2019	68,609	57,577	59,031	55,784	54,201	52,299	54,632	51,671	49,146	61,578	65,967	69,685	700,180
	2020	68,515	58,559	60,005	54,956	54,370	52,839	54,980	51,991	49,437	62,030	66,517	70,256	704,455
	2021	69,090	59,045	60,464	55,360	54,737	53,176	55,346	52,328	49,742	62,507	67,096	70,858	709,749
	2022	69,672	59,536	60,929	55,768	55,109	53,517	55,716	52,669	50,052	62,988	67,682	71,466	715,104
	2023	70,175	59,961	61,330	56,121	55,430	53,812	56,036	52,964	50,319	63,405	68,189	71,992	719,734
	2024	70,646	60,358	61,706	56,452	55,730	54,087	56,335	53,239	50,570	63,795	68,663	72,484	724,065
	2025	71,181	60,809	62,133	56,827	56,072	54,400	56,675	53,553	50,854	64,238	69,202	73,043	728,987
	2026	71,674	61,226	62,526	57,174	56,387	54,689	56,989	53,841	51,116	64,646	69,699	73,558	733,525
	2027	72,141	61,620	62,899	57,502	56,685	54,963	57,286	54,115	51,364	65,033	70,169	74,046	737,823
	2028	72,651	62,050	63,306	57,860	57,010	55,261	57,610	54,414	51,636	65,455	70,683	74,579	742,515
	2029	73,101	62,430	63,665	58,175	57,298	55,525	57,896	54,677	51,875	65,827	71,136	75,049	746,654
	2030	73,557	62,814	64,028	58,495	57,588	55,791	58,186	54,944	52,117	66,204	71,595	75,525	750,844
	2031	73,964	63,158	64,353	58,781	57,848	56,029	58,444	55,182	52,333	66,541	72,005	75,950	754,588
	2032	74,380	63,509	64,685	59,073	58,113	56,273	58,709	55,426	52,554	66,886	72,424	76,385	758,417
	2033	74,774	63,842	65,000	59,350	58,365	56,504	58,960	55,657	52,764	67,212	72,821	76,798	762,047
	2034	75,211	64,211	65,348	59,656	58,644	56,760	59,237	55,913	52,996	67,574	73,261	77,254	766,065
	2035	75,583	64,524	65,645	59,917	58,882	56,978	59,474	56,131	53,194	67,882	73,636	77,643	769,489
	2036	75,945	64,830	65,934	60,171	59,113	57,190	59,704	56,343	53,387	68,182	74,000	78,021	772,820
	2037	76,350	65,172	66,257	60,456	59,371	57,427	59,962	56,580	53,602	68,517	74,408	78,445	776,547
	2038	76,732	65,494	66,561	60,723	59,615	57,650	60,204	56,803	53,805	68,833	74,792	78,843	780,055
	2039	77,077	65,785	66,837	60,966	59,835	57,852	60,424	57,006	53,988	69,118	75,140	79,204	783,232
	2040	77,470	66,117	67,151	61,242	60,086	58,082	60,674	57,236	54,197	69,444	75,536	79,615	786,850
	2041	77,867	66,452	67,467	61,520	60,339	58,315	60,926	57,468	54,408	69,772	75,936	80,030	790,500
	2042	78,203	66,735	67,735	61,756	60,553	58,511	61,139	57,665	54,587	70,050	76,274	80,380	793,588
	2043	78,608	67,077	68,058	62,040	60,812	58,748	61,397	57,902	54,802	70,386	76,682	80,804	797,316
	2044	78,984	67,394	68,358	62,304	61,052	58,968	61,636	58,122	55,002	70,697	77,060	81,196	800,773
	2045	79,387	67,735	68,680	62,588	61,310	59,205	61,893	58,359	55,217	71,031	77,467	81,618	804,490
	2046	79,761	68,050	68,979	62,850	61,548	59,424	62,130	58,578	55,415	71,340	77,843	82,009	807,927
	2047	80,158	68,385	69,295	63,128	61,801	59,656	62,382	58,810	55,626	71,669	78,243	82,423	811,576
	2048	80,560	68,724	69,616	63,410	62,058	59,891	62,638	59,045	55,840	72,001	78,648	82,843	815,274
	2049	80,985	69,083	69,955	63,709	62,329	60,140	62,908	59,294	56,066	72,354	79,076	83,288	819,187
	2050	81,373	69,411	70,265	63,981	62,577	60,367	63,155	59,522	56,272	72,675	79,467	83,693	822,758

Dakota Valley Electric Cooperative

System Energy Requirements by Consumer Classification (MWh)

	<u>Year</u>	<u>Total Residential</u>	<u>Small Commercial</u>	<u>Large Commercial</u>	<u>Irrigation</u>	<u>Other</u>	<u>Total Sales</u>	<u>Own Use & Losses</u>	<u>Total Energy Requirements</u>
Historical	2000	88,126	5,133	277,731	4,621	729	376,340	6,245	382,585
	2001	88,668	5,538	254,909	5,720	595	355,430	6,214	361,644
	2002	93,541	5,794	278,100	5,774	623	383,832	5,736	389,568
	2003	91,115	5,758	298,017	6,389	606	401,885	5,939	407,824
	2004	92,941	5,938	292,519	6,515	594	398,507	10,100	408,607
	2005	97,124	6,190	286,465	3,661	577	394,017	11,252	405,269
	2006	97,939	6,306	304,129	8,088	531	416,993	9,779	426,772
	2007	105,969	6,753	312,566	5,581	575	431,444	9,647	441,091
	2008	115,178	7,255	329,106	8,482	622	460,643	8,023	468,666
	2009	125,131	7,359	327,640	5,438	624	466,192	7,766	473,958
	2010	116,520	7,331	380,341	4,900	643	509,735	8,732	518,467
	2011	115,366	6,884	425,208	2,989	674	551,121	7,188	558,309
	2012	104,865	6,696	438,468	10,291	702	561,022	8,702	569,724
	2013	127,656	7,673	458,204	10,499	813	604,845	10,981	615,826
	2014	134,021	7,736	464,096	5,940	863	612,656	11,365	624,021
	2015	118,592	7,132	484,463	9,897	801	620,885	10,924	631,809
	2016	115,365	7,099	505,143	9,236	775	637,618	10,859	648,477
	2017	120,807	7,275	523,559	11,104	788	663,533	10,846	674,379
2018	131,329	8,001	531,579	7,104	825	678,838	9,996	688,834	
Projected	2019	133,108	8,089	537,235	9,220	838	688,490	11,689	700,179
	2020	134,134	8,175	540,040	9,418	838	692,605	11,850	704,455
	2021	135,164	8,260	543,851	9,616	838	697,729	12,020	709,749
	2022	136,254	8,343	547,663	9,815	838	702,913	12,192	715,105
	2023	137,086	8,424	551,032	10,013	838	707,393	12,340	719,733
	2024	138,026	8,503	554,007	10,211	838	711,585	12,479	724,064
	2025	139,051	8,581	557,470	10,409	838	716,349	12,637	728,986
	2026	140,077	8,658	560,560	10,607	838	720,740	12,782	733,522
	2027	140,968	8,733	563,558	10,806	838	724,903	12,920	737,823
	2028	142,333	8,807	566,463	11,004	838	729,445	13,071	742,516
	2029	143,211	8,879	569,322	11,202	838	733,452	13,203	746,655
	2030	144,139	8,951	572,180	11,400	838	737,508	13,338	750,846
	2031	144,704	9,021	574,969	11,598	838	741,130	13,458	754,588
	2032	145,539	9,090	577,571	11,797	838	744,835	13,580	758,415
	2033	146,254	9,160	580,105	11,995	838	748,352	13,697	762,049
	2034	147,229	9,227	582,754	12,193	838	752,241	13,826	766,067
	2035	148,116	9,293	584,915	12,391	838	755,553	13,935	769,488
	2036	148,775	9,359	587,216	12,589	838	758,777	14,042	772,819
	2037	149,819	9,423	589,516	12,788	838	762,384	14,162	776,546
	2038	150,701	9,486	591,771	12,986	838	765,782	14,274	780,056
	2039	151,399	9,549	593,885	13,184	838	768,855	14,376	783,231
	2040	152,411	9,612	596,116	13,382	838	772,359	14,492	786,851
	2041	153,429	9,674	598,371	13,580	838	775,892	14,609	790,501
	2042	154,135	9,735	600,392	13,779	838	778,879	14,708	793,587
	2043	155,139	9,796	602,739	13,977	838	782,489	14,828	797,317
	2044	155,903	9,855	605,063	14,175	838	785,834	14,939	800,773
	2045	156,848	9,915	607,457	14,373	838	789,431	15,058	804,489
	2046	157,641	9,974	609,734	14,572	838	792,759	15,168	807,927
	2047	158,568	10,033	612,082	14,770	838	796,291	15,285	811,576
	2048	159,335	10,091	614,638	14,968	838	799,870	15,404	815,274
	2049	160,286	10,150	617,218	15,166	838	803,658	15,529	819,187
	2050	161,023	10,208	619,681	15,364	838	807,114	15,644	822,758

Historical Average Compound Growth Rates:

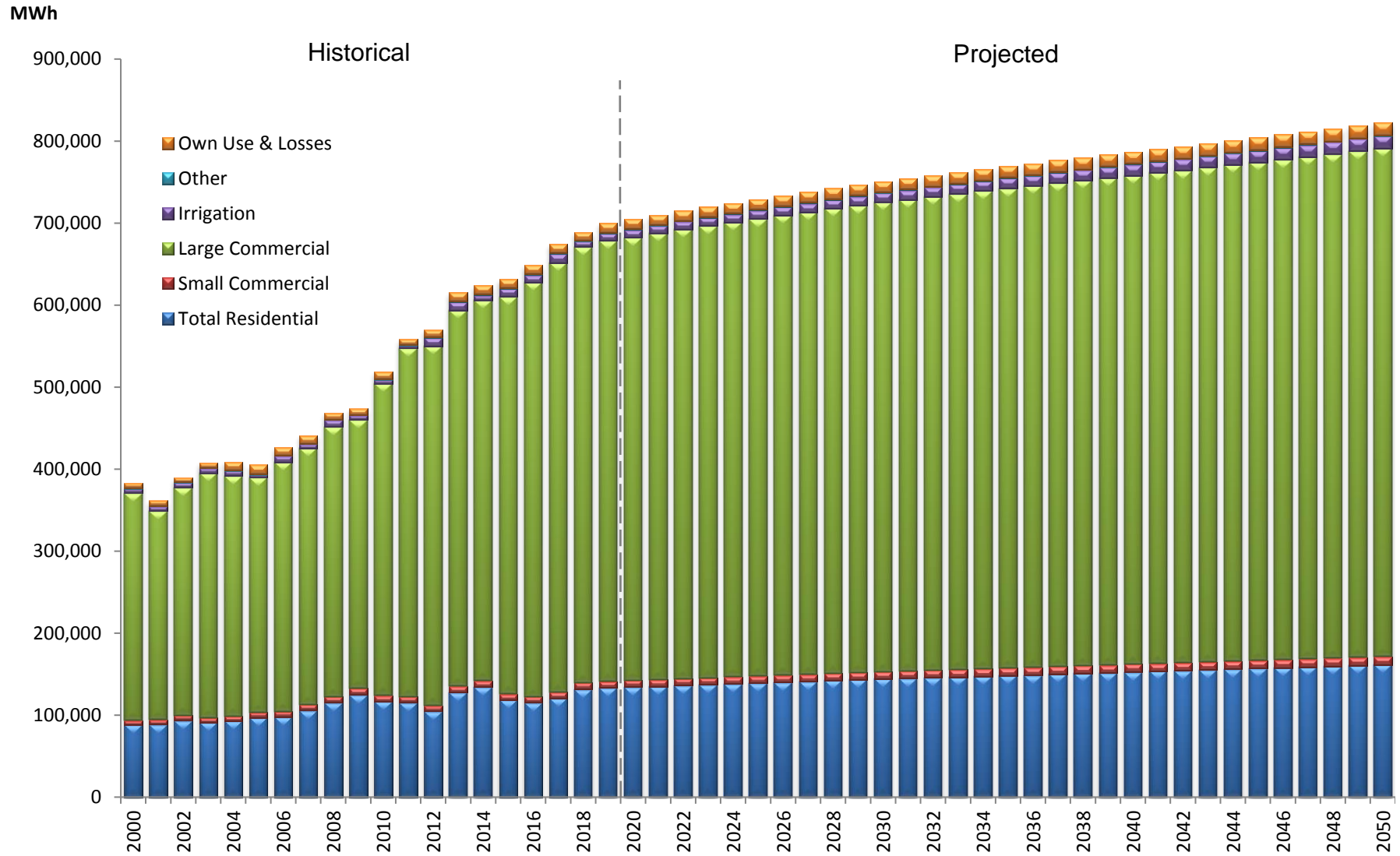
2000-2018	3.32%	2014-2018	2.50%
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Projected Average Compound Growth Rates:

2019-2050	0.52%	2019-2023	0.69%
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Dakota Valley Electric Cooperative

Annual Energy Requirements



MCLEAN ELECTRIC

2020 Load Forecast

SUMMARY

McLean Electric Cooperative Demand Purchases (kW)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Historical	2000	7,956	7,943	6,464	6,056	4,929	5,751	6,337	7,831	6,342	5,951	7,985	9,628	83,173
	2001	9,188	8,730	6,845	6,900	6,573	6,457	6,914	6,553	6,722	7,529	8,610	8,686	89,707
	2002	9,161	8,348	8,822	7,607	6,528	8,168	7,273	6,360	8,434	8,681	8,835	8,521	96,738
	2003	9,628	9,999	10,471	8,302	6,544	6,679	7,000	8,015	8,236	7,433	8,466	8,589	99,362
	2004	10,590	9,953	8,023	6,206	7,126	5,999	7,102	6,969	6,614	7,504	7,846	9,426	93,358
	2005	10,887	9,110	9,362	6,760	7,414	6,494	6,910	7,299	6,291	7,643	8,855	9,972	96,997
	2006	8,120	11,064	8,993	6,665	6,856	6,988	7,392	8,208	6,403	8,859	10,478	10,514	100,540
	2007	11,051	13,775	13,650	12,928	9,866	13,409	12,860	11,815	14,997	12,415	16,282	14,873	157,921
	2008	16,628	16,573	15,622	12,443	11,310	10,380	12,278	13,550	10,638	12,864	14,606	17,621	164,513
	2009	17,741	16,553	18,372	13,468	12,009	11,830	11,997	13,280	14,902	13,644	14,015	17,779	175,590
	2010	18,148	16,346	14,674	10,767	11,377	13,270	14,371	15,792	13,679	14,202	16,327	17,274	176,227
	2011	18,496	19,491	18,002	13,784	12,819	12,640	14,552	15,576	14,972	14,833	17,386	17,650	190,201
	2012	19,930	18,118	15,819	10,583	12,325	15,179	17,312	17,965	16,860	16,092	19,874	19,087	199,144
	2013	21,223	20,326	19,251	16,542	14,045	14,707	16,993	18,885	20,149	17,550	22,927	22,890	225,488
	2014	25,194	23,313	22,551	20,614	15,580	14,502	17,622	17,985	19,520	18,631	23,286	23,750	242,548
	2015	24,868	23,096	22,597	17,540	14,809	16,983	16,823	21,720	19,402	16,461	19,021	19,969	233,289
	2016	22,709	20,695	19,089	17,380	13,374	15,699	18,725	21,420	16,946	15,846	18,563	23,182	223,628
	2017	23,809	23,764	21,035	16,317	13,419	17,173	20,401	20,480	17,196	18,871	21,224	23,943	237,632
2018	25,581	24,814	22,480	18,188	13,800	17,421	18,981	22,319	18,435	17,968	21,085	23,525	244,598	
Projected	2019	25,690	24,940	22,839	18,097	14,655	17,420	19,137	22,513	18,576	18,110	21,269	23,742	246,988
	2020	26,188	24,770	23,265	18,402	14,873	17,686	19,462	22,920	18,865	18,400	21,652	24,196	250,678
	2021	26,822	26,020	23,810	18,796	15,155	18,027	19,877	23,438	19,238	18,773	22,142	24,774	256,870
	2022	27,328	26,503	24,245	19,110	15,380	18,300	20,208	23,850	19,536	19,072	22,533	25,235	261,300
	2023	27,810	26,964	24,660	19,410	15,594	18,560	20,523	24,243	19,820	19,356	22,905	25,674	265,518
	2024	28,263	26,685	25,050	19,692	15,797	18,805	20,819	24,612	20,087	19,624	23,255	26,086	268,775
	2025	28,649	27,766	25,381	19,930	15,966	19,011	21,071	24,928	20,312	19,850	23,553	26,439	272,856
	2026	29,066	28,163	25,738	20,187	16,151	19,235	21,344	25,268	20,556	20,095	23,874	26,819	276,497
	2027	29,486	28,565	26,099	20,448	16,337	19,461	21,618	25,611	20,803	20,342	24,199	27,202	280,169
	2028	29,899	28,192	26,453	20,703	16,520	19,683	21,888	25,947	21,045	20,585	24,517	27,577	283,010
	2029	30,320	29,361	26,816	20,965	16,708	19,910	22,163	26,290	21,293	20,833	24,842	27,961	287,464
	2030	30,689	29,711	27,130	21,189	16,867	20,105	22,403	26,592	21,505	21,046	25,126	28,297	290,663
	2031	31,068	30,071	27,453	21,420	17,032	20,306	22,650	26,903	21,724	21,266	25,417	28,643	293,953
	2032	31,432	29,601	27,764	21,642	17,191	20,500	22,888	27,200	21,934	21,478	25,697	28,974	296,302
	2033	31,817	30,784	28,094	21,878	17,360	20,705	23,139	27,515	22,158	21,702	25,994	29,325	300,472
	2034	32,200	31,149	28,422	22,113	17,528	20,910	23,389	27,828	22,381	21,926	26,289	29,675	303,808
	2035	32,583	31,514	28,750	22,348	17,696	21,114	23,639	28,141	22,604	22,150	26,584	30,023	307,145
	2036	32,970	31,017	29,082	22,587	17,867	21,322	23,892	28,458	22,830	22,377	26,883	30,377	309,661
	2037	33,412	32,305	29,461	22,861	18,063	21,560	24,180	28,818	23,090	22,636	27,223	30,779	314,388
	2038	33,851	32,725	29,839	23,133	18,258	21,796	24,467	29,176	23,348	22,895	27,562	31,179	318,230
	2039	34,289	33,144	30,215	23,405	18,453	22,032	24,754	29,534	23,605	23,153	27,901	31,579	322,064
	2040	34,741	32,650	30,604	23,686	18,654	22,276	25,049	29,901	23,871	23,420	28,249	31,990	325,090
	2041	35,185	34,000	30,986	23,963	18,852	22,516	25,340	30,264	24,133	23,682	28,593	32,395	329,907
	2042	35,622	34,418	31,362	24,234	19,046	22,751	25,625	30,620	24,391	23,940	28,930	32,793	333,733
	2043	36,063	34,839	31,741	24,508	19,242	22,989	25,914	30,979	24,650	24,200	29,271	33,195	337,591
	2044	36,524	34,296	32,137	24,795	19,447	23,238	26,215	31,355	24,922	24,472	29,627	33,615	340,643
	2045	36,965	35,701	32,517	25,069	19,644	23,475	26,503	31,715	25,182	24,732	29,967	34,017	345,486
	2046	37,428	36,144	32,915	25,357	19,850	23,725	26,806	32,093	25,455	25,006	30,326	34,439	349,544
	2047	37,881	36,577	33,305	25,638	20,051	23,970	27,103	32,462	25,721	25,273	30,675	34,852	353,509
	2048	38,327	35,960	33,688	25,915	20,250	24,210	27,394	32,826	25,984	25,536	31,020	35,259	356,368
	2049	38,790	37,446	34,086	26,203	20,455	24,460	27,697	33,203	26,256	25,809	31,377	35,681	361,463
	2050	39,253	37,888	34,484	26,490	20,661	24,709	28,000	33,581	26,528	26,081	31,735	36,103	365,513

McLean Electric Cooperative

Energy Purchases (MWh)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
H	2000	5,265	4,628	4,306	3,853	3,498	3,576	4,219	4,546	3,916	3,944	4,797	6,054	52,602
i	2001	5,283	5,190	4,716	3,803	3,737	3,608	4,214	4,810	3,676	3,984	4,329	5,511	52,861
s	2002	5,377	4,643	5,540	4,082	3,999	3,605	4,691	4,675	4,468	4,674	5,021	5,603	56,378
t	2003	6,122	5,471	5,438	4,043	3,854	3,698	4,432	5,172	4,139	4,134	5,398	5,604	57,505
o	2004	6,578	5,517	4,811	3,740	3,829	3,667	4,493	4,741	4,990	4,603	4,829	5,917	57,715
r	2005	6,712	5,112	5,086	3,777	4,114	3,774	4,836	5,157	4,436	4,210	5,107	6,413	58,734
i	2006	5,598	5,560	5,505	3,971	3,929	4,135	5,484	5,336	4,013	4,858	5,517	6,218	60,124
c	2007	6,824	7,712	7,790	6,862	6,848	6,948	8,288	8,652	7,332	7,645	8,710	9,866	93,477
a	2008	10,495	9,576	8,523	7,023	6,945	6,731	8,298	8,680	7,059	7,665	8,931	11,276	101,202
l	2009	11,082	9,305	9,556	7,859	7,166	7,118	7,970	8,438	8,903	8,639	9,928	11,428	106,392
	2010	10,975	9,625	8,835	7,271	7,669	7,168	8,558	9,403	8,469	8,985	10,010	11,496	108,464
	2011	11,465	9,998	10,363	8,123	7,669	7,319	9,050	8,847	9,085	9,039	10,122	10,723	111,803
	2012	10,921	9,913	8,982	8,019	7,784	8,272	10,474	10,822	8,302	10,448	11,328	12,341	117,606
	2013	12,675	10,693	11,767	9,685	8,718	8,808	10,249	10,824	10,690	10,697	13,123	15,513	133,442
	2014	14,185	13,255	13,077	11,297	9,853	9,693	10,596	10,423	11,513	11,274	13,784	13,526	142,476
	2015	13,652	12,712	11,420	9,919	8,983	9,448	10,333	12,169	9,763	10,112	11,866	12,543	132,920
	2016	13,471	11,203	10,676	9,610	8,548	9,458	10,584	12,533	9,382	10,272	11,420	14,507	131,664
	2017	13,834	11,533	11,738	9,694	8,728	9,704	12,200	11,571	9,945	10,477	12,389	13,608	135,421
	2018	14,705	12,801	12,409	10,556	9,502	9,965	11,187	12,667	10,029	10,883	12,806	14,270	141,780
	2019	14,730	12,918	12,415	10,390	9,438	9,923	11,270	12,766	10,099	10,964	12,915	14,395	142,223
	2020	15,015	13,162	12,642	10,566	9,595	10,076	11,453	12,986	10,254	11,142	13,155	14,671	144,717
	2021	15,369	13,465	12,923	10,784	9,790	10,266	11,680	13,257	10,445	11,363	13,453	15,013	147,808
	2022	15,649	13,705	13,146	10,956	9,944	10,416	11,860	13,472	10,597	11,538	13,688	15,283	150,254
	2023	15,914	13,932	13,357	11,120	10,090	10,559	12,030	13,676	10,741	11,704	13,911	15,540	152,574
	2024	16,163	14,145	13,555	11,273	10,226	10,692	12,190	13,867	10,876	11,860	14,120	15,780	154,747
	2025	16,383	14,334	13,730	11,409	10,348	10,810	12,331	14,037	10,996	11,998	14,306	15,993	156,675
	2026	16,617	14,534	13,916	11,553	10,476	10,936	12,481	14,216	11,122	12,144	14,502	16,219	158,716
	2027	16,851	14,734	14,102	11,697	10,605	11,061	12,631	14,396	11,249	12,290	14,699	16,445	160,760
	2028	17,080	14,931	14,284	11,838	10,731	11,184	12,778	14,572	11,374	12,433	14,891	16,667	162,763
	2029	17,313	15,130	14,469	11,982	10,859	11,309	12,928	14,751	11,500	12,579	15,087	16,892	164,799
P	2030	17,528	15,315	14,641	12,115	10,978	11,425	13,066	14,917	11,617	12,714	15,269	17,100	166,685
r	2031	17,748	15,503	14,815	12,250	11,099	11,543	13,208	15,085	11,736	12,851	15,454	17,313	168,605
o	2032	17,959	15,684	14,983	12,380	11,214	11,656	13,343	15,247	11,850	12,983	15,631	17,516	170,446
j	2033	18,179	15,872	15,158	12,515	11,336	11,774	13,484	15,416	11,970	13,121	15,816	17,729	172,370
e	2034	18,397	16,059	15,332	12,650	11,456	11,891	13,624	15,584	12,088	13,257	16,000	17,940	174,278
c	2035	18,614	16,245	15,504	12,784	11,575	12,008	13,764	15,751	12,206	13,393	16,182	18,150	176,176
t	2036	18,833	16,433	15,678	12,919	11,695	12,125	13,904	15,919	12,325	13,530	16,366	18,361	178,088
	2037	19,079	16,643	15,874	13,070	11,831	12,257	14,062	16,108	12,458	13,684	16,573	18,599	180,238
	2038	19,323	16,853	16,068	13,221	11,965	12,389	14,219	16,296	12,591	13,837	16,779	18,836	182,377
d	2039	19,567	17,061	16,262	13,371	12,099	12,519	14,375	16,483	12,723	13,989	16,983	19,071	184,503
	2040	19,815	17,274	16,459	13,524	12,236	12,653	14,535	16,674	12,858	14,144	17,192	19,311	186,675
	2041	20,061	17,485	16,655	13,675	12,371	12,784	14,693	16,863	12,991	14,298	17,399	19,548	188,823
	2042	20,302	17,692	16,847	13,824	12,504	12,914	14,848	17,048	13,122	14,449	17,602	19,782	190,934
	2043	20,546	17,901	17,041	13,975	12,638	13,045	15,004	17,235	13,254	14,602	17,807	20,018	193,066
	2044	20,801	18,119	17,243	14,132	12,778	13,182	15,168	17,431	13,393	14,761	18,022	20,264	195,294
	2045	21,045	18,328	17,438	14,282	12,913	13,313	15,325	17,619	13,525	14,914	18,227	20,500	197,429
	2046	21,302	18,548	17,642	14,440	13,054	13,451	15,489	17,816	13,664	15,074	18,443	20,748	199,671
	2047	21,553	18,763	17,841	14,595	13,192	13,585	15,650	18,009	13,800	15,231	18,654	20,991	201,864
	2048	21,800	18,975	18,038	14,748	13,328	13,718	15,809	18,199	13,935	15,386	18,862	21,230	204,028
	2049	22,057	19,195	18,242	14,906	13,470	13,856	15,974	18,397	14,074	15,547	19,078	21,478	206,274
	2050	22,314	19,415	18,446	15,064	13,611	13,994	16,139	18,594	14,213	15,707	19,294	21,726	208,517

McLean Electric Cooperative

System Energy Requirements by Consumer Classification (MWh)

	<u>Year</u>	<u>Total Residential</u>	<u>Small Commercial</u>	<u>Large Commercial</u>	<u>Irrigation</u>	<u>Other</u>	<u>Total Sales</u>	<u>Own Use & Losses</u>	<u>Total Energy Requirements</u>
Historical	2000	28,756	4,202	9,939	540	5,107	48,544	4,058	52,602
	2001	29,111	4,354	9,980	610	5,196	49,251	3,608	52,859
	2002	31,442	4,545	10,710	930	5,268	52,895	3,483	56,378
	2003	32,165	4,588	10,827	771	5,163	53,514	3,991	57,505
	2004	32,785	4,591	10,106	785	5,195	53,462	4,253	57,715
	2005	32,866	4,851	10,701	584	5,179	54,181	4,553	58,734
	2006	33,793	5,159	11,063	1,086	5,057	56,158	3,966	60,124
	2007	36,698	5,240	40,778	954	5,184	88,854	4,622	93,476
	2008	37,096	4,939	41,519	984	4,976	89,514	11,691	101,205
	2009	44,184	5,981	47,079	1,211	5,797	104,252	2,140	106,392
	2010	43,191	9,128	47,928	656	5,442	106,345	2,120	108,465
	2011	44,263	10,464	45,106	678	5,808	106,319	5,485	111,804
	2012	42,168	14,676	47,565	1,870	5,835	112,114	5,490	117,604
	2013	51,741	19,497	48,048	1,466	6,134	126,886	6,557	133,443
	2014	57,421	21,479	47,741	897	6,073	133,611	8,864	142,475
	2015	49,028	19,630	49,003	1,746	6,180	125,587	7,335	132,922
	2016	47,437	19,433	49,897	1,926	5,929	124,622	7,042	131,664
	2017	49,500	19,673	50,519	2,886	6,085	128,663	6,758	135,421
	2018	53,818	20,211	50,922	2,880	6,065	133,896	7,883	141,779
Projected	2019	54,236	20,826	50,234	2,880	6,065	134,241	7,983	142,224
	2020	55,845	21,490	50,234	2,880	6,065	136,514	8,203	144,717
	2021	58,044	22,108	50,234	2,880	6,065	139,331	8,476	147,807
	2022	59,656	22,727	50,234	2,880	6,065	141,562	8,692	150,254
	2023	61,208	23,290	50,234	2,880	6,065	143,677	8,897	152,574
	2024	62,602	23,876	50,234	2,880	6,065	145,657	9,089	154,746
	2025	63,815	24,423	50,234	2,880	6,065	147,417	9,259	156,676
	2026	65,168	24,928	50,234	2,880	6,065	149,275	9,439	158,714
	2027	66,502	25,460	50,234	2,880	6,065	151,141	9,620	160,761
	2028	67,833	25,953	50,234	2,880	6,065	152,965	9,797	162,762
	2029	69,165	26,477	50,234	2,880	6,065	154,821	9,976	164,797
	2030	70,425	26,937	50,234	2,880	6,065	156,541	10,143	166,684
	2031	71,727	27,387	50,234	2,880	6,065	158,293	10,313	168,606
	2032	73,002	27,789	50,234	2,880	6,065	159,970	10,475	170,445
	2033	74,358	28,187	50,234	2,880	6,065	161,724	10,645	172,369
	2034	75,682	28,604	50,234	2,880	6,065	163,465	10,814	174,279
	2035	77,034	28,981	50,234	2,880	6,065	165,194	10,981	176,175
	2036	78,360	29,398	50,234	2,880	6,065	166,937	11,150	178,087
	2037	79,932	29,788	50,234	2,880	6,065	168,899	11,340	180,239
	2038	81,448	30,221	50,234	2,880	6,065	170,848	11,529	182,377
	2039	82,992	30,615	50,234	2,880	6,065	172,786	11,716	184,502
	2040	84,575	31,013	50,234	2,880	6,065	174,767	11,908	186,675
	2041	86,087	31,459	50,234	2,880	6,065	176,725	12,098	188,823
	2042	87,605	31,865	50,234	2,880	6,065	178,649	12,284	190,933
	2043	89,138	32,276	50,234	2,880	6,065	180,593	12,473	193,066
	2044	90,720	32,726	50,234	2,880	6,065	182,625	12,669	195,294
	2045	92,257	33,136	50,234	2,880	6,065	184,572	12,858	197,430
	2046	93,847	33,590	50,234	2,880	6,065	186,616	13,056	199,672
	2047	95,432	34,005	50,234	2,880	6,065	188,616	13,250	201,866
	2048	96,990	34,419	50,234	2,880	6,065	190,588	13,441	204,029
	2049	98,622	34,834	50,234	2,880	6,065	192,635	13,639	206,274
	2050	100,215	35,288	50,234	2,880	6,065	194,682	13,837	208,519

Historical Average Compound Growth Rates:

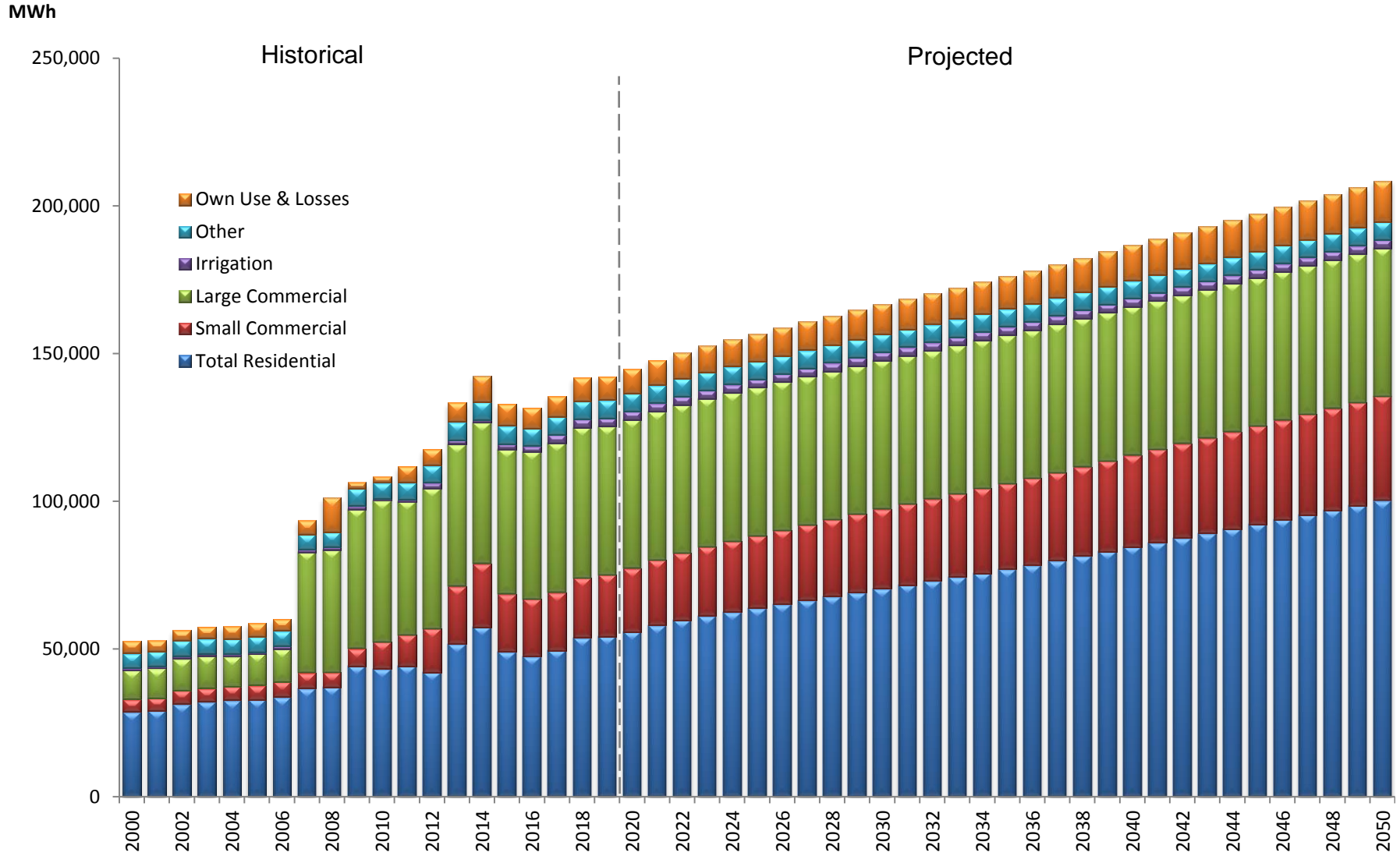
2000-2018	5.66%	2014-2018	-0.12%
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Projected Average Compound Growth Rates:

2018-2050	1.24%	2019-2023	1.77%
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McLean Electric Cooperative

Annual Energy Requirements



NORTH CENTRAL ELECTRIC

2020 Load Forecast

SUMMARY

North Central Electric Cooperative

Demand Purchases (kW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	32,134	31,357	27,388	24,551	22,126	16,957	18,202	18,739	19,110	23,098	29,063	35,462	298,187
	2001	30,964	33,185	27,843	23,224	16,441	17,730	17,493	18,530	17,324	24,097	29,704	31,450	287,985
	2002	34,496	31,431	31,991	27,220	24,305	18,444	18,594	18,124	19,440	29,871	31,233	34,407	319,556
	2003	37,332	38,116	37,710	29,712	21,575	17,433	18,441	20,146	19,191	26,269	34,230	34,155	334,310
	2004	41,233	38,083	33,550	24,193	26,392	18,355	18,626	20,784	25,899	29,234	30,158	37,808	344,315
	2005	41,554	37,491	32,989	25,768	23,023	20,112	21,581	20,948	21,686	26,956	34,192	36,776	343,076
	2006	32,812	43,334	31,637	28,613	24,016	18,920	20,862	21,867	22,599	29,716	38,306	41,942	354,624
	2007	43,388	42,915	38,120	33,587	18,986	20,496	22,709	22,229	23,028	27,790	41,884	41,742	376,874
	2008	46,606	45,749	43,946	29,637	27,128	19,596	19,589	25,195	22,697	32,382	40,844	48,123	401,492
	2009	49,035	47,344	46,546	32,525	26,766	19,521	19,885	21,394	24,231	32,482	32,498	47,830	400,057
	2010	48,872	44,630	37,583	29,746	26,957	20,757	23,637	27,087	29,938	35,110	44,277	47,311	415,905
	2011	48,607	48,423	47,047	34,835	31,228	22,848	24,960	25,100	25,672	32,194	43,814	46,104	430,832
	2012	52,683	49,948	41,749	33,935	26,956	23,385	24,081	29,317	25,545	37,445	48,467	45,851	439,362
	2013	54,529	51,650	47,021	43,296	34,330	22,248	23,209	26,628	28,223	37,310	52,872	57,534	478,850
	2014	60,180	55,847	57,416	46,714	33,104	21,817	24,459	24,427	31,461	41,371	56,777	57,113	510,686
	2015	59,061	56,684	55,688	37,441	36,108	24,877	25,978	29,784	29,908	33,426	41,429	47,892	478,276
	2016	53,496	47,460	44,945	36,766	18,889	19,861	22,305	24,863	25,015	31,919	39,323	53,690	418,532
	2017	55,111	53,238	49,382	35,473	26,103	20,035	24,108	26,862	23,212	37,225	46,493	55,552	452,794
2018	55,536	55,563	46,955	49,294	21,715	22,110	24,258	26,041	25,217	38,610	48,922	51,138	465,359	
Projected	2019	58,607	56,640	50,006	41,475	23,846	22,128	24,654	27,232	25,370	37,266	47,552	56,743	471,520
	2020	59,087	55,130	50,409	41,803	24,031	22,300	24,848	27,448	25,568	37,562	47,937	57,208	473,330
	2021	59,452	57,442	50,706	42,036	24,157	22,417	24,984	27,603	25,706	37,776	48,223	57,563	478,065
	2022	59,935	57,903	51,111	42,366	24,343	22,589	25,178	27,820	25,905	38,074	48,610	58,031	481,867
	2023	60,306	58,258	51,422	42,618	24,485	22,721	25,327	27,987	26,057	38,302	48,907	58,391	484,782
	2024	60,761	56,671	51,806	42,933	24,664	22,887	25,514	28,194	26,249	38,586	49,274	58,832	486,369
	2025	61,005	58,924	52,005	43,089	24,748	22,965	25,604	28,297	26,340	38,729	49,465	59,069	490,239
	2026	61,368	59,269	52,307	43,333	24,884	23,091	25,748	28,458	26,487	38,950	49,755	59,421	493,071
	2027	61,676	59,562	52,563	43,539	24,999	23,198	25,870	28,595	26,611	39,137	50,000	59,719	495,468
	2028	62,004	57,811	52,838	43,762	25,124	23,314	26,001	28,742	26,745	39,339	50,263	60,037	495,980
	2029	62,333	60,190	53,114	43,987	25,251	23,432	26,134	28,890	26,881	39,542	50,527	60,356	500,637
	2030	62,523	60,364	53,263	44,098	25,308	23,485	26,198	28,965	26,945	39,646	50,672	60,541	502,008
	2031	62,633	60,461	53,344	44,155	25,334	23,509	26,229	29,003	26,975	39,700	50,752	60,648	502,743
	2032	62,733	58,463	53,419	44,207	25,358	23,531	26,258	29,039	27,003	39,750	50,826	60,745	501,332
	2033	62,768	60,578	53,440	44,216	25,358	23,531	26,262	29,046	27,006	39,761	50,849	60,780	503,595
	2034	62,935	60,733	53,574	44,319	25,413	23,582	26,322	29,115	27,066	39,856	50,978	60,942	504,833
	2035	62,973	60,765	53,599	44,333	25,416	23,585	26,328	29,124	27,071	39,870	51,004	60,980	505,048
	2036	63,172	58,851	53,762	44,462	25,487	23,651	26,404	29,210	27,148	39,988	51,161	61,173	504,471
	2037	63,284	61,057	53,852	44,532	25,524	23,685	26,444	29,256	27,188	40,052	51,248	61,282	507,405
	2038	63,376	61,142	53,925	44,588	25,553	23,712	26,476	29,294	27,221	40,104	51,319	61,371	508,081
	2039	63,460	61,220	53,992	44,639	25,580	23,737	26,506	29,328	27,251	40,151	51,384	61,453	508,701
	2040	63,567	59,206	54,079	44,708	25,618	23,772	26,546	29,374	27,291	40,214	51,468	61,556	507,400
	2041	63,625	61,374	54,126	44,743	25,636	23,789	26,567	29,397	27,312	40,247	51,513	61,614	509,943
	2042	63,858	61,597	54,321	44,902	25,725	23,872	26,660	29,502	27,407	40,390	51,700	61,839	511,773
	2043	63,945	61,678	54,391	44,956	25,755	23,899	26,692	29,538	27,440	40,440	51,768	61,923	512,425
	2044	64,056	59,652	54,483	45,029	25,795	23,936	26,735	29,586	27,483	40,507	51,856	62,031	511,149
	2045	64,160	61,881	54,568	45,097	25,831	23,970	26,774	29,631	27,523	40,568	51,938	62,132	514,073
	2046	64,344	62,055	54,721	45,220	25,900	24,034	26,847	29,713	27,597	40,680	52,084	62,310	515,503
	2047	64,543	62,245	54,887	45,354	25,975	24,104	26,926	29,801	27,678	40,802	52,243	62,503	517,062
	2048	64,578	60,130	54,914	45,373	25,984	24,112	26,936	29,814	27,688	40,820	52,269	62,538	515,157
	2049	64,751	62,441	55,057	45,489	26,049	24,172	27,005	29,891	27,758	40,925	52,407	62,706	518,651
	2050	65,028	62,707	55,290	45,679	26,156	24,272	27,117	30,016	27,872	41,096	52,630	62,974	520,836

North Central Electric Cooperative

Energy Purchases (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	19,160	15,761	14,386	12,727	11,304	10,693	11,459	11,708	11,610	13,048	16,647	22,006	170,509
	2001	18,803	18,505	16,569	13,715	11,359	10,879	11,282	11,947	11,423	14,197	15,113	19,473	173,265
	2002	19,957	16,441	19,834	15,106	13,674	11,216	11,842	12,658	12,636	16,457	18,563	20,308	188,692
	2003	21,804	19,828	19,198	14,023	12,590	11,183	11,802	13,096	12,167	15,026	18,282	20,778	189,777
	2004	24,344	20,010	18,386	14,633	13,868	11,834	12,133	12,620	15,541	17,955	18,108	22,565	201,997
	2005	24,733	19,456	19,367	14,522	13,979	12,292	13,132	13,734	14,068	15,494	19,183	22,375	202,335
	2006	20,389	20,762	20,083	14,497	13,305	12,266	13,186	14,137	12,841	17,043	20,071	22,561	201,141
	2007	23,762	22,725	19,468	15,576	12,979	12,365	13,803	14,273	13,889	15,836	20,697	25,204	210,577
	2008	25,747	23,941	21,212	16,073	14,006	12,418	12,788	15,040	14,579	17,090	22,416	29,362	224,672
	2009	28,658	23,531	23,287	17,614	15,146	13,204	13,066	14,172	16,952	19,114	21,198	28,805	234,747
	2010	27,345	23,846	20,809	16,159	15,365	13,523	14,242	16,190	18,325	20,280	24,166	29,385	239,635
	2011	29,810	25,529	25,644	19,233	16,033	13,979	14,918	15,619	16,474	17,934	23,315	26,535	245,023
	2012	27,870	25,042	21,140	18,290	16,118	14,822	16,340	18,574	16,665	22,045	26,335	30,923	254,164
	2013	31,715	26,110	27,635	22,688	16,770	14,900	15,102	15,968	18,349	22,071	27,818	35,219	274,345
	2014	33,794	32,808	26,651	24,210	17,184	15,327	15,677	16,538	20,651	23,849	30,064	31,398	288,151
	2015	31,877	30,787	25,057	20,009	17,226	14,757	15,727	17,956	17,797	19,058	22,881	28,385	261,517
	2016	29,134	23,387	20,583	18,445	13,727	12,688	13,274	15,845	14,480	18,151	21,223	31,184	232,121
	2017	29,189	24,105	24,981	18,699	15,409	13,622	14,926	16,077	15,513	19,096	25,830	29,640	247,087
2018	30,652	28,793	24,766	21,389	15,002	13,755	14,544	16,062	16,694	22,075	26,804	28,033	258,569	
Projected	2019	32,042	27,581	24,935	20,100	15,991	14,309	15,071	16,912	16,146	20,445	26,102	31,491	261,125
	2020	32,328	27,826	25,158	20,279	16,134	14,436	15,205	17,063	16,290	20,627	26,334	31,772	263,452
	2021	32,576	28,040	25,351	20,435	16,258	14,547	15,322	17,194	16,416	20,786	26,537	32,016	265,478
	2022	32,864	28,288	25,575	20,616	16,402	14,676	15,458	17,346	16,561	20,970	26,772	32,300	267,828
	2023	33,088	28,481	25,749	20,756	16,513	14,776	15,563	17,464	16,674	21,112	26,954	32,519	269,649
	2024	33,351	28,707	25,954	20,921	16,644	14,893	15,686	17,603	16,806	21,280	27,168	32,777	271,790
	2025	33,518	28,851	26,084	21,026	16,728	14,968	15,765	17,691	16,890	21,387	27,304	32,942	273,154
	2026	33,742	29,044	26,258	21,166	16,840	15,068	15,870	17,809	17,003	21,530	27,486	33,162	274,978
	2027	33,931	29,207	26,406	21,285	16,934	15,152	15,960	17,909	17,099	21,651	27,641	33,348	276,523
	2028	34,130	29,378	26,560	21,409	17,033	15,241	16,053	18,014	17,199	21,777	27,802	33,543	278,139
	2029	34,326	29,546	26,713	21,532	17,131	15,328	16,145	18,118	17,297	21,902	27,962	33,736	279,736
	2030	34,475	29,675	26,829	21,626	17,206	15,395	16,215	18,197	17,373	21,998	28,084	33,883	280,956
	2031	34,576	29,761	26,907	21,689	17,256	15,440	16,263	18,250	17,423	22,062	28,166	33,982	281,775
	2032	34,667	29,840	26,978	21,746	17,301	15,481	16,305	18,298	17,469	22,120	28,240	34,071	282,516
	2033	34,718	29,884	27,018	21,778	17,327	15,504	16,330	18,325	17,495	22,152	28,281	34,121	282,933
	2034	34,838	29,987	27,111	21,854	17,387	15,557	16,386	18,388	17,555	22,229	28,379	34,239	283,910
	2035	34,886	30,028	27,148	21,883	17,411	15,578	16,408	18,413	17,579	22,259	28,418	34,286	284,297
	2036	35,017	30,141	27,250	21,966	17,476	15,637	16,470	18,482	17,646	22,343	28,525	34,415	285,368
	2037	35,098	30,211	27,313	22,017	17,517	15,673	16,508	18,525	17,686	22,395	28,591	34,495	286,029
	2038	35,166	30,270	27,367	22,059	17,551	15,704	16,540	18,561	17,721	22,438	28,646	34,562	286,585
	2039	35,228	30,323	27,415	22,098	17,582	15,731	16,570	18,594	17,752	22,478	28,697	34,623	287,091
	2040	35,299	30,384	27,470	22,143	17,617	15,763	16,603	18,631	17,788	22,523	28,755	34,692	287,668
	2041	35,344	30,423	27,505	22,171	17,639	15,783	16,624	18,655	17,810	22,552	28,791	34,736	288,033
	2042	35,483	30,542	27,613	22,258	17,709	15,845	16,689	18,729	17,880	22,641	28,905	34,873	289,167
	2043	35,543	30,594	27,660	22,296	17,739	15,872	16,718	18,760	17,911	22,679	28,953	34,932	289,657
	2044	35,616	30,657	27,717	22,342	17,775	15,905	16,752	18,799	17,947	22,725	29,013	35,004	290,252
	2045	35,685	30,717	27,771	22,385	17,810	15,936	16,785	18,835	17,982	22,770	29,070	35,072	290,818
	2046	35,798	30,814	27,859	22,456	17,866	15,986	16,838	18,895	18,039	22,842	29,162	35,183	291,738
	2047	35,920	30,918	27,953	22,532	17,927	16,040	16,895	18,959	18,101	22,919	29,261	35,303	292,728
	2048	35,952	30,946	27,978	22,552	17,943	16,055	16,910	18,976	18,117	22,940	29,287	35,334	292,990
	2049	36,059	31,038	28,061	22,619	17,996	16,102	16,960	19,032	18,171	23,008	29,374	35,439	293,859
	2050	36,223	31,180	28,189	22,723	18,078	16,176	17,038	19,119	18,253	23,113	29,508	35,601	295,201

North Central Electric Cooperative

System Energy Requirements by Consumer Classification (MWh)

	Year	Oil Related				Total Sales	Own Use & Losses	Total Energy Requirements
		Total Residential	Total Commercial	Irrigation	Other			
Historical	2000	81,562	70,176	27	3,532	155,297	15,211	170,508
	2001	84,915	69,396	3	3,441	157,755	15,510	173,265
	2002	92,137	77,305	39	3,519	173,000	15,690	188,690
	2003	93,100	79,363	80	3,533	176,076	13,701	189,777
	2004	98,161	85,763	28	3,621	187,573	14,426	201,999
	2005	99,894	86,045	37	3,710	189,686	12,648	202,334
	2006	97,288	85,631	100	3,660	186,679	14,461	201,140
	2007	103,556	87,711	63	3,793	195,123	15,453	210,576
	2008	112,714	91,635	81	3,933	208,363	16,308	224,671
	2009	128,147	98,200	85	4,023	230,455	4,291	234,746
	2010	120,202	98,658	26	4,071	222,957	16,679	239,636
	2011	118,466	106,704	49	4,129	229,348	15,675	245,023
	2012	117,038	114,221	87	4,123	235,469	18,694	254,163
	2013	139,193	113,217	32	4,301	256,743	17,603	274,346
	2014	149,094	114,970	33	4,265	268,362	19,790	288,152
	2015	130,474	109,103	58	4,114	243,749	17,769	261,518
	2016	124,441	90,040	31	4,079	218,591	13,530	232,121
	2017	126,610	96,831	97	4,190	227,728	19,360	247,088
2018	136,730	100,282	50	4,244	241,306	17,263	258,569	
Projected	2019	139,643	99,448	55	4,251	243,397	17,728	261,125
	2020	141,525	99,736	55	4,251	245,567	17,886	263,453
	2021	142,991	100,156	55	4,251	247,453	18,024	265,477
	2022	144,630	100,709	55	4,251	249,645	18,183	267,828
	2023	146,022	101,014	55	4,251	251,342	18,307	269,649
	2024	147,351	101,680	55	4,251	253,337	18,452	271,789
	2025	148,432	101,871	55	4,251	254,609	18,545	273,154
	2026	149,503	102,500	55	4,251	256,309	18,669	274,978
	2027	150,561	102,882	55	4,251	257,749	18,774	276,523
	2028	151,476	103,474	55	4,251	259,256	18,883	278,139
	2029	152,390	104,048	55	4,251	260,744	18,992	279,736
	2030	152,892	104,681	55	4,251	261,879	19,075	280,954
	2031	153,346	104,992	55	4,251	262,644	19,130	281,774
	2032	153,818	105,209	55	4,251	263,333	19,180	282,513
	2033	154,312	105,105	55	4,251	263,723	19,209	282,932
	2034	154,736	105,594	55	4,251	264,636	19,275	283,911
	2035	155,159	105,533	55	4,251	264,998	19,302	284,300
	2036	155,700	105,988	55	4,251	265,994	19,374	285,368
	2037	156,181	106,124	55	4,251	266,611	19,419	286,030
	2038	156,655	106,167	55	4,251	267,128	19,457	286,585
	2039	157,176	106,118	55	4,251	267,600	19,491	287,091
	2040	157,625	106,207	55	4,251	268,138	19,530	287,668
	2041	158,044	106,128	55	4,251	268,478	19,555	288,033
	2042	158,586	106,643	55	4,251	269,535	19,632	289,167
	2043	159,073	106,611	55	4,251	269,990	19,665	289,655
	2044	159,599	106,641	55	4,251	270,546	19,706	290,252
	2045	160,112	106,656	55	4,251	271,074	19,744	290,818
	2046	160,588	107,037	55	4,251	271,931	19,807	291,738
	2047	161,143	107,405	55	4,251	272,854	19,874	292,728
	2048	161,716	107,074	55	4,251	273,096	19,892	292,988
	2049	162,265	107,338	55	4,251	273,909	19,951	293,860
	2050	162,805	108,047	55	4,251	275,158	20,042	295,200

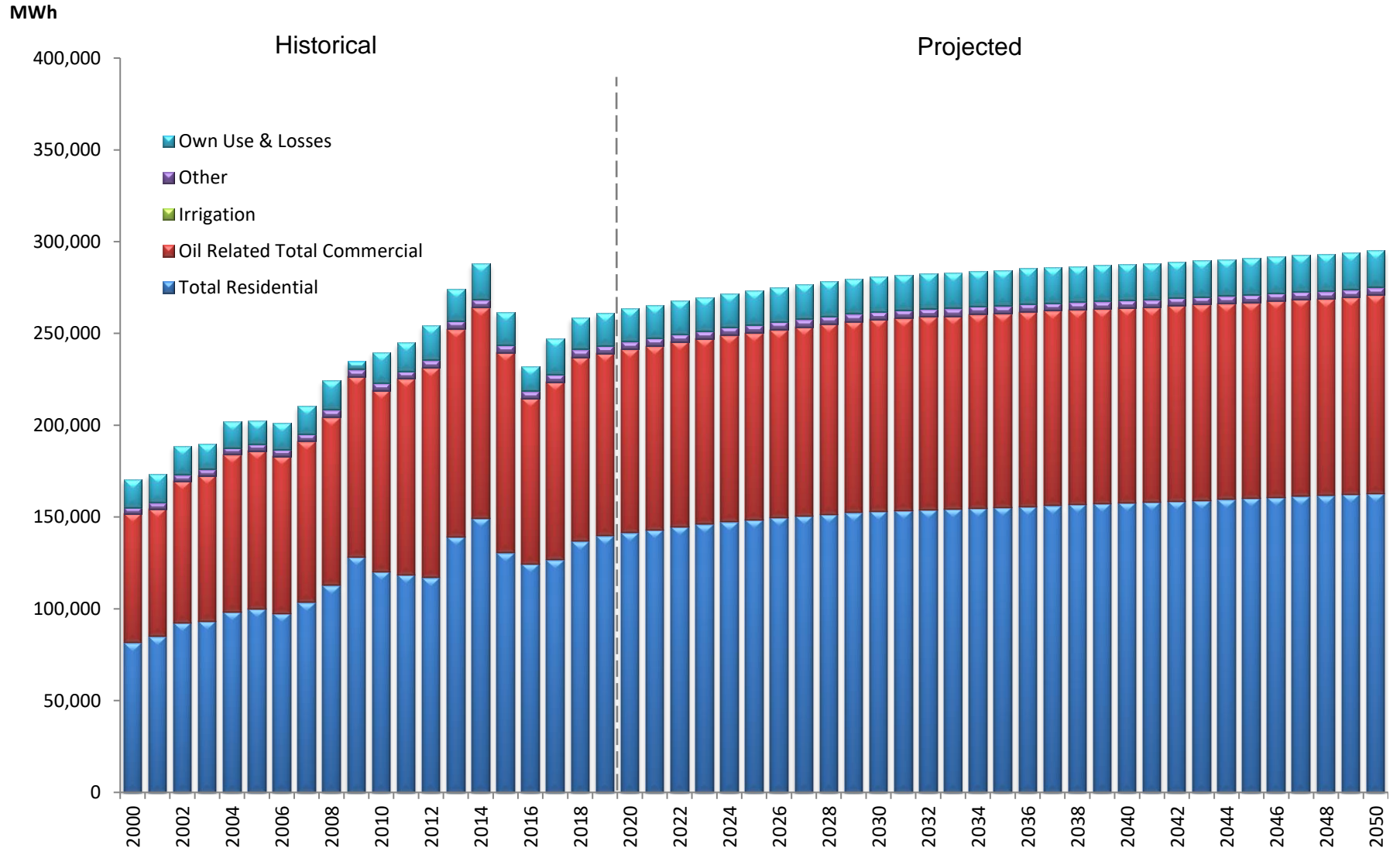
Historical Average Compound Growth Rates:

2000-2018	2.34%	2014-2018	-2.67%
2019-2050	0.40%	2019-2023	0.85%

Projected Average Compound Growth Rates:

North Central Electric Cooperative

Annual Energy Requirements



NORTHERN PLAINS ELECTRIC

2020 Load Forecast

SUMMARY

Northern Plains Electric Cooperative

Demand Purchases (kW)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2000	55,246	53,268	46,307	44,568	37,640	29,195	34,271	42,175	38,675	41,955	49,802	56,663	529,765
2001	51,746	57,555	46,908	43,400	31,228	33,759	35,167	35,720	37,935	46,223	53,185	53,553	526,379
2002	56,198	54,280	54,882	45,136	40,821	34,181	37,567	39,948	39,537	52,667	54,331	58,004	567,552
2003	63,515	61,755	59,196	44,844	33,180	30,414	32,039	42,124	38,187	42,485	53,663	58,577	559,979
2004	64,882	62,065	53,812	40,597	39,800	29,879	35,699	38,309	48,519	50,913	52,911	62,728	580,114
2005	67,373	60,805	52,687	39,354	40,486	36,556	37,885	40,670	36,388	46,264	50,556	58,577	567,601
2006	51,765	66,175	49,967	42,193	31,913	32,226	36,101	35,869	35,716	48,924	60,344	65,646	556,839
2007	65,074	67,153	56,833	50,387	30,028	31,075	40,041	36,122	37,864	48,035	67,778	67,618	598,008
2008	73,260	70,303	66,331	48,187	34,220	30,338	35,858	37,476	40,674	50,442	66,565	77,699	631,353
2009	76,062	70,879	70,398	51,373	35,864	37,633	36,563	39,977	46,996	56,358	59,580	78,541	660,224
2010	77,747	72,412	61,186	51,189	39,808	43,229	50,918	55,757	47,884	63,328	70,047	75,822	709,327
2011	79,105	80,746	74,965	56,663	44,852	46,085	48,621	43,848	46,472	61,396	70,556	76,979	730,288
2012	83,279	76,193	67,651	57,437	43,823	50,011	54,708	56,895	48,966	71,093	75,839	73,817	759,712
2013	82,503	80,093	74,231	65,545	44,098	55,288	47,994	50,113	49,572	66,168	86,669	89,453	771,727
2014	95,126	90,515	88,156	75,062	49,324	39,777	51,332	50,452	61,133	81,541	82,902	87,971	853,291
2015	92,491	88,361	86,554	62,499	40,736	51,195	50,792	61,375	58,352	64,947	66,003	80,897	804,202
2016	82,247	78,547	70,679	60,666	46,038	48,687	55,055	57,712	57,761	68,518	69,113	87,966	782,989
2017	91,017	84,121	79,186	60,030	47,266	50,172	57,413	59,831	54,596	71,625	82,148	88,072	825,477
2018	88,889	89,253	73,773	79,786	49,640	52,277	50,306	57,830	52,775	70,554	81,309	82,872	829,264
2019	88,342	85,797	75,671	65,432	50,622	52,615	56,882	61,311	56,606	71,024	75,790	85,736	825,827
2020	89,221	83,618	76,375	65,999	42,966	48,668	53,016	57,465	48,301	63,189	74,200	86,591	789,608
2021	90,425	87,758	77,391	66,863	43,523	49,248	53,665	58,176	48,929	64,028	75,194	87,760	802,960
2022	91,587	88,879	78,378	67,709	44,071	49,816	54,295	58,865	49,546	64,844	76,156	88,888	813,032
2023	92,746	89,999	79,365	68,557	44,622	50,385	54,924	59,554	50,165	65,660	77,117	90,014	823,108
2024	93,944	88,016	80,387	69,438	45,194	50,977	55,577	60,266	50,808	66,506	78,112	91,177	830,402
2025	94,994	92,168	81,275	70,196	45,684	51,486	56,144	60,887	51,360	67,240	78,980	92,196	842,610
2026	96,087	93,222	82,203	70,991	46,199	52,020	56,736	61,535	51,940	68,007	79,885	93,257	852,079
2027	97,198	94,295	83,148	71,803	46,725	52,565	57,339	62,194	52,531	68,788	80,806	94,336	861,728
2028	98,330	92,099	84,112	72,631	47,263	53,121	57,954	62,866	53,136	69,585	81,744	95,434	868,273
2029	99,478	96,498	85,090	73,472	47,809	53,685	58,577	63,547	53,750	70,394	82,696	96,548	881,544
2030	100,343	97,322	85,814	74,084	48,202	54,096	59,041	64,057	54,193	70,992	83,407	97,389	888,940
2031	101,284	98,223	86,607	74,757	48,635	54,547	59,547	64,612	54,681	71,646	84,183	98,303	897,027
2032	102,227	95,708	87,401	75,433	49,071	55,001	60,054	65,169	55,172	72,303	84,960	99,218	901,715
2033	103,150	100,012	88,180	76,097	49,500	55,446	60,552	65,715	55,654	72,947	85,723	100,115	913,090
2034	104,117	100,941	88,998	76,794	49,951	55,915	61,074	66,286	56,162	73,622	86,521	101,053	921,434
2035	105,104	101,891	89,834	77,510	50,413	56,395	61,608	66,871	56,682	74,314	87,338	102,012	929,971
2036	106,075	99,281	90,658	78,215	50,870	56,868	62,133	67,446	57,196	74,994	88,142	102,955	934,832
2037	107,046	103,762	91,482	78,921	51,327	57,342	62,659	68,022	57,711	75,676	88,945	103,898	946,791
2038	108,087	104,767	92,367	79,680	51,820	57,852	63,224	68,639	58,265	76,408	89,808	104,908	955,827
2039	109,134	105,778	93,257	80,445	52,315	58,365	63,792	69,260	58,823	77,144	90,675	105,924	964,913
2040	110,128	103,058	94,104	81,172	52,787	58,854	64,332	69,850	59,354	77,844	91,500	106,889	969,871
2041	111,218	107,792	95,033	81,972	53,307	59,391	64,925	70,498	59,937	78,612	92,404	107,947	983,036
2042	112,324	108,863	95,976	82,783	53,833	59,936	65,526	71,155	60,530	79,392	93,322	109,021	992,662
2043	113,481	109,981	96,962	83,632	54,384	60,506	66,155	71,842	61,150	80,208	94,282	110,144	1,002,727
2044	114,632	107,265	97,944	84,476	54,933	61,073	66,782	72,526	61,767	81,020	95,238	111,262	1,008,917
2045	115,766	112,191	98,909	85,307	55,472	61,631	67,398	73,199	62,373	81,818	96,178	112,362	1,022,605
2046	116,964	113,351	99,931	86,186	56,043	62,221	68,049	73,911	63,015	82,663	97,172	113,525	1,033,033
2047	118,183	114,530	100,970	87,081	56,624	62,822	68,712	74,635	63,669	83,523	98,184	114,708	1,043,642
2048	119,426	111,741	102,030	87,993	57,216	63,435	69,388	75,374	64,335	84,399	99,215	115,915	1,050,466
2049	120,635	116,901	103,060	88,879	57,792	64,030	70,046	76,092	64,982	85,251	100,218	117,088	1,064,975
2050	121,953	118,177	104,184	89,847	58,421	64,680	70,763	76,875	65,689	86,181	101,312	118,368	1,076,449

Northern Plains Electric Cooperative

Energy Purchases (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	34,225	28,047	25,699	22,725	19,443	18,783	20,605	23,891	22,902	23,501	28,895	37,460	306,176
	2001	32,347	31,632	28,490	22,430	18,594	18,753	20,479	23,429	20,196	24,325	26,043	31,900	298,618
	2002	33,060	27,101	32,198	24,675	21,821	19,227	21,072	23,037	24,290	29,646	32,896	35,054	324,077
	2003	36,755	32,654	31,158	22,055	18,756	17,443	19,914	24,280	21,359	24,400	30,783	33,287	312,844
	2004	38,823	32,108	29,608	22,761	20,782	18,775	20,017	21,541	28,335	32,062	31,340	36,847	332,999
	2005	40,176	31,243	31,307	22,719	21,150	19,448	21,505	23,712	23,225	24,882	29,097	34,122	322,586
	2006	32,382	32,942	31,433	21,630	19,970	19,237	22,863	23,288	19,838	27,711	32,564	35,585	319,443
	2007	38,202	36,194	30,358	24,383	19,446	19,014	22,196	25,713	23,952	26,693	35,679	41,421	343,251
	2008	42,004	38,396	33,696	25,948	21,856	18,959	21,272	24,289	24,942	28,246	36,302	47,464	363,374
	2009	44,917	37,001	40,904	28,400	24,282	22,585	23,440	24,359	30,694	34,623	35,947	47,778	394,930
	2010	45,287	39,705	34,577	26,796	25,327	24,393	31,069	33,874	32,277	36,401	40,757	47,074	417,537
	2011	48,010	41,625	41,236	30,776	26,785	27,862	30,387	27,937	29,489	33,669	40,318	43,581	421,675
	2012	44,638	39,452	32,326	30,855	27,708	29,058	33,225	36,889	31,790	40,796	41,757	46,711	435,205
	2013	48,175	39,805	41,646	31,622	23,252	21,731	30,444	31,017	30,018	43,779	49,108	55,930	446,527
	2014	54,019	47,345	47,752	34,426	31,813	26,625	33,022	33,982	39,576	42,290	49,454	42,335	482,639
	2015	49,722	48,140	40,387	33,391	31,472	29,521	34,283	36,882	32,663	39,981	40,108	43,363	459,913
	2016	47,939	40,098	35,457	33,323	32,992	31,739	32,640	37,579	31,538	40,890	41,913	51,400	457,508
	2017	48,951	40,278	42,043	33,113	31,117	31,284	36,241	35,303	32,859	40,434	45,762	48,757	466,142
2018	51,459	47,486	42,137	36,393	30,686	31,900	33,601	37,762	33,261	43,251	45,460	47,158	480,554	
Projected	2019	50,322	43,227	40,633	34,174	33,598	33,004	35,983	38,790	33,600	42,158	44,015	49,174	478,678
	2020	51,048	43,850	41,219	34,666	29,869	30,807	33,784	36,579	28,871	37,293	43,759	49,882	461,627
	2021	51,808	44,503	41,833	35,183	30,314	31,228	34,248	37,084	29,301	37,848	44,410	50,625	468,385
	2022	52,509	45,105	42,399	35,658	30,724	31,615	34,676	37,549	29,697	38,360	45,011	51,310	474,613
	2023	53,198	45,697	42,955	36,126	31,127	31,996	35,096	38,007	30,087	38,863	45,602	51,983	480,737
	2024	53,897	46,298	43,520	36,601	31,536	32,382	35,523	38,471	30,483	39,374	46,201	52,667	486,953
	2025	54,548	46,857	44,045	37,043	31,917	32,742	35,920	38,903	30,851	39,850	46,759	53,303	492,738
	2026	55,208	47,424	44,578	37,492	32,303	33,107	36,323	39,341	31,224	40,332	47,325	53,948	498,605
	2027	55,873	47,995	45,115	37,943	32,692	33,474	36,728	39,782	31,600	40,818	47,895	54,597	504,512
	2028	56,545	48,572	45,658	38,399	33,085	33,845	37,138	40,229	31,980	41,309	48,471	55,254	510,485
	2029	57,222	49,154	46,205	38,859	33,482	34,220	37,551	40,678	32,363	41,803	49,051	55,916	516,504
	2030	57,791	49,642	46,664	39,245	33,814	34,534	37,898	41,056	32,685	42,219	49,539	56,472	521,559
	2031	58,394	50,160	47,151	39,655	34,167	34,867	38,266	41,456	33,026	42,659	50,056	57,061	526,918
	2032	58,991	50,673	47,632	40,060	34,516	35,197	38,630	41,852	33,363	43,095	50,567	57,644	532,220
	2033	59,571	51,171	48,101	40,454	34,856	35,517	38,984	42,237	33,691	43,519	51,065	58,211	537,377
	2034	60,169	51,685	48,584	40,861	35,206	35,848	39,349	42,635	34,030	43,956	51,578	58,796	542,697
	2035	60,775	52,206	49,073	41,272	35,561	36,183	39,719	43,037	34,373	44,399	52,097	59,388	548,083
	2036	61,367	52,714	49,551	41,674	35,907	36,510	40,080	43,430	34,707	44,831	52,605	59,966	553,342
	2037	61,955	53,219	50,026	42,073	36,251	36,835	40,439	43,820	35,040	45,261	53,108	60,541	558,568
	2038	62,579	53,755	50,530	42,497	36,616	37,180	40,819	44,234	35,392	45,717	53,643	61,150	564,112
	2039	63,203	54,291	51,034	42,921	36,981	37,525	41,200	44,648	35,746	46,173	54,178	61,760	569,660
	2040	63,792	54,798	51,510	43,321	37,326	37,850	41,560	45,040	36,079	46,603	54,684	62,336	574,899
	2041	64,435	55,350	52,029	43,758	37,702	38,206	41,952	45,466	36,442	47,073	55,234	62,964	580,611
	2042	65,087	55,910	52,555	44,200	38,084	38,566	42,350	45,899	36,811	47,549	55,794	63,602	586,407
	2043	65,768	56,495	53,105	44,663	38,482	38,942	42,765	46,351	37,196	48,046	56,377	64,267	592,457
	2044	66,446	57,077	53,652	45,123	38,879	39,317	43,179	46,801	37,580	48,542	56,958	64,929	598,483
	2045	67,115	57,652	54,192	45,577	39,270	39,687	43,587	47,245	37,958	49,030	57,532	65,583	604,428
	2046	67,820	58,257	54,762	46,056	39,682	40,076	44,017	47,713	38,357	49,545	58,136	66,272	610,693
	2047	68,537	58,873	55,341	46,543	40,102	40,472	44,454	48,189	38,762	50,069	58,750	66,972	617,064
	2048	69,267	59,501	55,931	47,039	40,529	40,876	44,900	48,674	39,175	50,603	59,377	67,686	623,558
	2049	69,980	60,113	56,506	47,523	40,946	41,270	45,335	49,147	39,578	51,124	59,988	68,383	629,893
	2050	70,754	60,777	57,131	48,048	41,399	41,697	45,807	49,661	40,016	51,689	60,651	69,139	636,769

Northern Plains Electric Cooperative

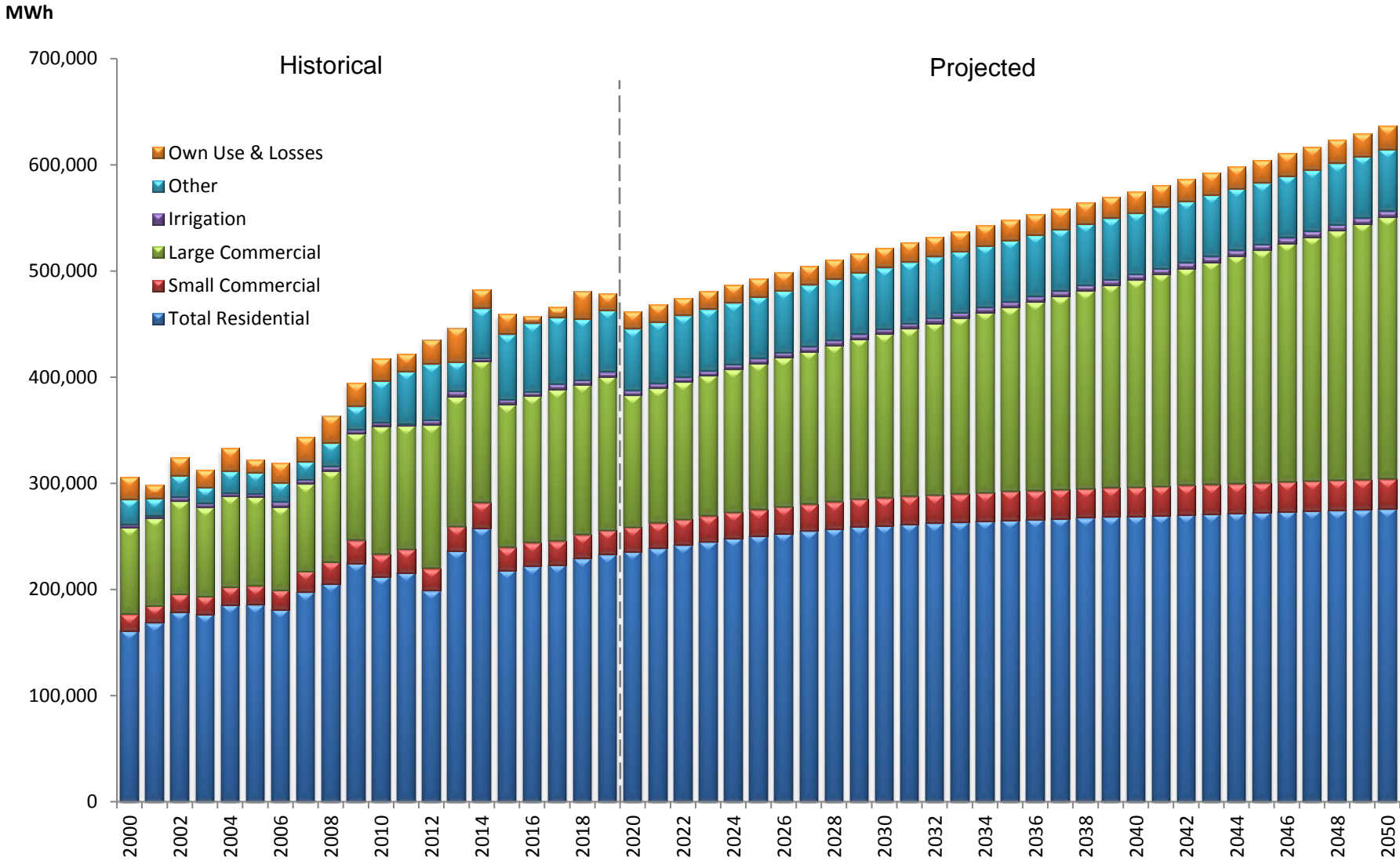
System Energy Requirements by Consumer Classification (MWh)

	<u>Year</u>	<u>Total Residential</u>	<u>Small Commercial</u>	<u>Large Commercial</u>	<u>Irrigation</u>	<u>Other</u>	<u>Total Sales</u>	<u>Own Use & Losses</u>	<u>Total Energy Requirements</u>
Historical	2000	161,125	15,644	82,021	2,355	23,725	284,870	21,304	306,174
	2001	168,553	16,243	82,605	2,211	16,121	285,733	12,883	298,616
	2002	178,873	16,650	87,711	3,820	20,271	307,325	16,751	324,076
	2003	176,336	17,102	83,853	3,735	15,109	296,135	16,709	312,844
	2004	185,143	17,345	85,423	2,585	21,142	311,638	21,361	332,999
	2005	185,734	17,641	83,899	2,903	20,030	310,207	12,378	322,585
	2006	180,981	18,569	78,196	4,772	18,298	300,816	18,627	319,443
	2007	197,618	19,596	82,101	3,921	17,302	320,538	22,712	343,250
	2008	205,555	20,385	85,715	4,217	22,159	338,031	25,343	363,374
	2009	224,597	21,608	100,419	3,677	22,429	372,730	22,200	394,930
	2010	211,817	21,155	120,773	3,390	39,423	396,558	20,980	417,538
	2011	215,539	22,001	116,634	1,887	49,490	405,551	16,124	421,675
	2012	199,152	20,541	135,204	4,633	52,928	412,458	22,746	435,204
	2013	236,262	22,840	122,445	5,339	27,517	414,403	32,124	446,527
	2014	257,624	23,880	133,380	3,228	46,940	465,052	17,586	482,638
	2015	218,123	21,465	134,452	4,881	61,498	440,419	19,494	459,913
	2016	222,070	21,846	138,182	4,236	64,503	450,837	6,671	457,508
	2017	223,248	22,126	142,679	5,602	62,771	456,426	9,715	466,141
2018	229,255	22,157	141,525	4,385	57,811	455,133	25,421	480,554	
Projected	2019	232,806	22,712	144,902	4,465	57,976	462,861	15,817	478,678
	2020	235,563	23,193	124,340	4,509	57,976	445,581	16,045	461,626
	2021	238,935	23,556	127,081	4,553	57,976	452,101	16,284	468,385
	2022	241,882	23,890	129,763	4,597	57,976	458,108	16,505	474,613
	2023	244,950	24,206	132,243	4,641	57,976	464,016	16,721	480,737
	2024	247,931	24,501	134,921	4,685	57,976	470,014	16,941	486,955
	2025	250,279	24,774	137,835	4,729	57,976	475,593	17,146	492,739
	2026	252,675	25,027	140,800	4,773	57,976	481,251	17,353	498,604
	2027	255,015	25,265	143,877	4,817	57,976	486,950	17,562	504,512
	2028	257,120	25,491	147,265	4,861	57,976	492,713	17,773	510,486
	2029	259,114	25,714	150,810	4,905	57,976	498,519	17,986	516,505
	2030	260,116	25,925	154,426	4,949	57,976	503,392	18,165	521,557
	2031	261,352	26,126	158,117	4,993	57,976	508,564	18,354	526,918
	2032	262,473	26,305	161,888	5,037	57,976	513,679	18,542	532,221
	2033	263,380	26,474	165,742	5,081	57,976	518,653	18,724	537,377
	2034	264,373	26,631	169,681	5,125	57,976	523,786	18,913	542,699
	2035	265,347	26,778	173,710	5,169	57,976	528,980	19,103	548,083
	2036	266,121	26,914	177,830	5,213	57,976	534,054	19,289	553,343
	2037	266,777	27,039	182,045	5,257	57,976	539,094	19,474	558,568
	2038	267,644	27,165	186,357	5,301	57,976	544,443	19,670	564,113
	2039	268,427	27,279	190,768	5,344	57,976	549,794	19,866	569,660
	2040	268,820	27,383	195,280	5,388	57,976	554,847	20,051	574,898
	2041	269,565	27,487	199,898	5,432	57,976	560,358	20,253	580,611
	2042	270,284	27,591	204,622	5,476	57,976	565,949	20,458	586,407
	2043	271,126	27,706	209,455	5,520	57,976	571,783	20,672	592,455
	2044	271,846	27,811	214,401	5,564	57,976	577,598	20,885	598,483
	2045	272,361	27,926	219,461	5,608	57,976	583,332	21,096	604,428
	2046	273,078	28,031	224,639	5,652	57,976	589,376	21,317	610,693
	2047	273,778	28,136	229,937	5,696	57,976	595,523	21,543	617,066
	2048	274,472	28,241	235,357	5,740	57,976	601,786	21,772	623,558
	2049	274,886	28,347	240,904	5,784	57,976	607,897	21,996	629,893
	2050	275,684	28,463	246,579	5,828	57,976	614,530	22,239	636,769

Historical Average Compound Growth Rates:	2000-2018	2.54%	2014-2018	-0.11%
Projected Average Compound Growth Rates:	2019-2050	0.92%	2019-2023	0.11%

Northern Plains Electric Cooperative

Annual Energy Requirements



VERENDRYE ELECTRIC

2020 Load Forecast

SUMMARY

Verendrye Electric Cooperative

Demand Purchases (kW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	53,066	50,668	47,401	43,981	40,381	46,330	50,391	51,360	40,981	40,033	50,468	59,839	574,899
	2001	53,304	55,903	48,905	46,260	41,583	45,275	52,574	54,867	49,587	46,531	52,537	57,126	604,452
	2002	54,268	54,099	52,875	50,555	41,612	50,428	55,870	48,954	46,854	48,916	51,066	59,579	615,076
	2003	59,107	59,142	57,617	49,959	40,762	47,952	55,645	59,374	52,315	47,639	55,623	55,283	640,418
	2004	63,176	60,581	51,505	45,166	43,899	46,646	55,439	43,444	43,834	45,923	53,301	62,956	615,870
	2005	65,852	58,345	53,627	44,957	43,053	54,511	54,438	53,260	51,576	47,675	59,269	64,778	651,341
	2006	60,078	70,102	58,458	48,532	47,068	54,203	60,922	61,280	45,917	57,260	70,716	69,287	703,823
	2007	73,389	70,955	62,329	57,604	46,001	55,062	69,122	61,525	55,204	51,937	72,606	71,892	747,626
	2008	81,937	80,005	73,465	57,007	51,099	55,194	60,523	64,687	51,341	59,582	69,970	84,037	788,847
	2009	83,053	77,958	82,480	59,829	49,217	58,561	55,452	61,936	62,375	58,343	62,688	86,016	797,908
	2010	86,528	79,028	68,117	54,788	58,388	61,091	67,311	67,299	58,140	65,274	83,020	87,325	836,309
	2011	85,205	89,470	85,258	66,793	56,456	61,387	71,945	71,137	66,376	65,534	84,885	95,688	900,134
	2012	109,881	96,583	82,274	71,855	57,495	73,480	79,228	83,409	67,305	74,585	91,951	94,072	982,118
	2013	112,218	105,932	96,385	83,416	65,834	65,566	70,124	79,311	79,480	77,042	103,602	114,478	1,053,388
	2014	122,894	111,889	111,882	97,660	77,410	63,483	73,407	77,217	80,762	86,261	111,712	112,136	1,126,713
	2015	118,132	116,141	116,813	77,835	73,544	79,993	80,351	86,700	86,392	73,411	94,392	103,618	1,107,322
	2016	112,567	107,504	96,552	80,502	67,959	78,714	85,237	87,597	77,025	72,321	81,791	119,597	1,067,366
	2017	117,955	114,487	105,577	77,938	63,259	72,113	81,618	82,807	82,127	82,711	95,048	119,872	1,095,512
2018	120,491	119,522	95,411	105,880	72,851	72,988	76,681	86,495	71,512	80,228	99,311	107,542	1,108,912	
Projected	2019	125,888	124,861	106,025	90,800	72,585	76,428	81,216	86,670	79,570	81,925	96,882	123,467	1,146,317
	2020	128,794	123,997	108,450	92,841	74,184	78,128	83,302	88,880	81,599	84,513	99,847	127,073	1,171,608
	2021	133,346	132,283	112,484	97,460	78,339	82,395	87,469	93,177	85,692	89,172	104,910	132,822	1,229,551
	2022	137,925	136,844	116,590	100,187	80,637	84,794	90,005	95,833	88,165	90,704	106,812	135,352	1,263,847
	2023	140,286	139,188	118,517	101,768	81,826	86,075	91,411	97,349	89,513	92,106	108,553	137,669	1,284,261
	2024	142,684	137,468	120,478	103,378	83,038	87,381	92,841	98,891	90,887	93,534	110,324	140,022	1,300,926
	2025	145,027	143,893	122,385	104,935	84,207	88,643	94,232	100,391	92,212	94,917	112,046	142,320	1,325,209
	2026	147,394	146,240	124,314	106,513	85,393	89,924	95,639	101,909	93,557	96,318	113,788	144,642	1,345,632
	2027	149,853	148,681	126,321	108,158	86,630	91,257	97,103	103,487	94,959	97,777	115,600	147,055	1,366,879
	2028	152,270	146,650	128,294	109,775	87,846	92,568	98,542	105,039	96,339	99,212	117,382	149,427	1,383,343
	2029	154,659	153,453	130,244	111,375	89,049	93,864	99,965	106,573	97,703	100,631	119,144	151,770	1,408,428
	2030	157,043	155,811	132,179	112,948	90,229	95,141	101,377	108,095	99,040	102,029	120,889	154,110	1,428,892
	2031	159,105	157,848	133,849	114,301	91,244	96,241	102,595	109,408	100,190	103,232	122,395	156,133	1,446,542
	2032	161,155	155,140	135,512	115,650	92,256	97,336	103,808	110,716	101,336	104,432	123,895	158,145	1,459,382
	2033	163,186	161,883	137,159	116,989	93,261	98,424	105,010	112,012	102,475	105,622	125,381	160,137	1,481,540
	2034	165,284	163,959	138,863	118,376	94,302	99,549	106,254	113,352	103,654	106,854	126,919	162,196	1,499,562
	2035	167,382	166,036	140,568	119,765	95,345	100,677	107,497	114,693	104,836	108,088	128,458	164,254	1,517,599
	2036	169,488	163,104	142,282	121,163	96,394	101,810	108,747	116,041	106,026	109,329	130,004	166,321	1,530,709
	2037	171,599	170,215	144,000	122,566	97,448	102,948	110,001	117,592	107,220	110,575	131,555	168,392	1,548,913
	2038	173,720	172,316	145,727	123,976	98,508	104,093	111,261	118,750	108,422	111,827	133,114	170,473	1,572,186
	2039	175,873	174,452	147,481	125,411	99,585	105,256	112,541	120,131	109,643	113,100	134,698	172,586	1,590,757
	2040	178,041	171,291	149,249	126,858	100,673	106,429	113,830	121,521	110,877	114,385	136,294	174,713	1,604,162
	2041	180,246	178,790	151,047	128,330	101,780	107,623	115,142	122,935	112,131	115,691	137,918	176,875	1,628,507
	2042	182,491	181,018	152,878	129,829	102,906	108,838	116,477	124,375	113,409	117,021	139,571	179,078	1,647,892
	2043	184,728	183,237	154,702	131,322	104,029	110,049	117,808	125,810	114,682	118,347	141,219	181,273	1,667,207
	2044	187,018	179,891	156,570	132,851	105,178	111,289	119,170	127,279	115,984	119,703	142,905	183,520	1,681,357
	2045	189,354	187,827	158,475	134,411	106,350	112,553	120,560	128,777	117,314	121,087	144,625	185,812	1,707,146
	2046	191,708	190,162	160,394	135,982	107,531	113,827	121,960	130,287	118,653	122,481	146,359	188,121	1,727,465
	2047	194,117	192,552	162,358	137,590	108,740	115,131	123,393	131,832	120,023	123,908	148,132	190,485	1,748,261
	2048	196,575	189,046	164,363	139,231	109,973	116,462	124,855	133,409	121,421	125,365	149,943	192,897	1,763,540
	2049	199,075	197,471	166,401	140,899	111,227	117,814	126,342	135,012	122,843	126,845	151,783	195,350	1,791,063
	2050	201,658	200,034	168,508	142,623	112,523	119,212	127,879	136,668	124,312	128,375	153,685	197,884	1,813,360

Verendrye Electric Cooperative

Energy Purchases (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	2000	32,632	28,565	27,549	24,959	23,137	22,185	26,123	27,290	24,237	25,837	28,551	36,686	327,751
	2001	32,799	31,712	29,663	25,857	23,843	23,064	27,726	29,038	24,261	26,221	27,300	32,947	334,431
	2002	33,289	28,480	32,483	26,702	25,355	24,069	28,363	26,753	25,476	28,396	29,799	33,134	342,299
	2003	35,080	32,069	31,823	24,966	24,209	24,690	27,251	30,405	25,350	26,465	31,919	33,939	348,166
	2004	38,018	32,615	31,028	26,011	24,694	23,505	27,506	24,787	27,745	28,790	29,908	36,233	350,840
	2005	39,190	31,574	32,870	26,632	26,696	25,290	27,485	27,629	25,459	28,130	31,934	37,944	360,833
	2006	35,892	35,216	35,277	27,394	26,388	26,811	32,893	31,920	27,156	31,692	34,862	39,734	385,235
	2007	41,520	39,140	34,128	30,019	26,567	27,600	34,898	32,329	27,755	30,428	36,164	43,707	404,255
	2008	45,826	42,974	38,571	32,309	29,071	28,762	32,996	34,538	29,916	33,104	38,608	50,439	437,114
	2009	49,808	42,560	43,029	33,563	29,728	30,362	31,691	33,813	39,847	36,171	37,326	51,619	452,461
	2010	49,999	44,263	40,309	32,957	32,818	30,618	35,630	37,295	33,799	36,670	43,809	52,828	470,995
	2011	53,917	48,500	48,146	38,410	34,842	30,991	37,526	38,665	35,658	37,617	46,402	54,025	504,699
	2012	56,360	50,527	43,053	38,839	35,266	35,110	41,471	41,588	34,964	42,938	50,661	60,500	531,277
	2013	61,920	51,908	55,173	45,628	35,920	35,373	38,278	39,994	39,847	43,969	54,613	69,135	571,758
	2014	66,446	62,234	58,317	47,800	42,016	38,808	42,149	42,681	43,710	46,364	60,869	64,137	615,531
	2015	65,964	62,823	54,158	43,936	40,748	39,420	44,265	45,744	39,772	40,998	50,514	60,401	588,743
	2016	64,358	54,191	50,162	44,919	40,014	41,146	43,665	47,333	39,479	45,433	48,571	68,715	587,986
	2017	67,234	55,461	57,894	45,187	39,559	40,303	45,835	44,132	41,285	45,413	55,294	64,046	601,643
2018	67,269	63,190	56,083	49,750	41,094	40,277	44,145	46,427	40,353	47,477	56,919	60,853	613,837	
Projected	2019	71,448	62,591	59,093	47,882	42,833	41,741	45,582	47,537	41,679	47,929	56,828	69,247	634,390
	2020	73,092	64,047	60,436	48,976	43,814	42,686	46,747	48,731	42,741	49,406	58,524	71,233	650,433
	2021	75,632	66,382	62,649	51,429	46,146	44,977	49,011	51,027	44,893	51,987	61,343	74,366	679,842
	2022	78,155	68,720	64,875	52,897	47,503	46,297	50,423	52,468	46,203	52,943	62,516	75,827	698,827
	2023	79,529	69,923	65,975	53,771	48,276	47,037	51,247	53,319	46,933	53,818	63,589	77,163	710,580
	2024	80,913	71,135	67,085	54,653	49,056	47,782	52,077	54,176	47,670	54,700	64,671	78,510	722,428
	2025	82,304	72,353	68,199	55,539	49,839	48,531	52,911	55,037	48,409	55,585	65,757	79,863	734,327
	2026	83,694	73,571	69,314	56,425	50,622	49,280	53,745	55,898	49,149	56,471	66,844	81,216	746,229
	2027	85,129	74,828	70,464	57,339	51,430	50,053	54,606	56,787	49,912	57,385	67,965	82,612	758,510
	2028	86,538	76,062	71,593	58,236	52,224	50,812	55,451	57,659	50,661	58,282	69,066	83,983	770,567
	2029	87,928	77,280	72,707	59,122	53,007	51,560	56,285	58,519	51,400	59,168	70,152	85,335	782,463
	2030	89,370	78,543	73,863	60,040	53,819	52,337	57,150	59,412	52,167	60,086	71,279	86,738	794,804
	2031	90,631	79,647	74,873	60,843	54,529	53,015	57,906	60,193	52,837	60,889	72,264	87,964	805,591
	2032	91,878	80,739	75,873	61,638	55,231	53,687	58,654	60,965	53,500	61,683	73,238	89,177	816,263
	2033	93,107	81,816	76,858	62,421	55,923	54,349	59,391	61,726	54,154	62,466	74,199	90,373	826,783
	2034	94,368	82,921	77,869	63,224	56,633	55,028	60,148	62,507	54,824	63,269	75,184	91,600	837,575
	2035	95,624	84,021	78,876	64,024	57,341	55,705	60,901	63,285	55,492	64,069	76,166	92,822	848,326
	2036	96,879	85,120	79,881	64,823	58,047	56,380	61,654	64,062	56,160	64,868	77,146	94,042	859,062
	2037	98,132	86,217	80,885	65,621	58,753	57,055	62,405	64,837	56,826	65,666	78,125	95,261	869,783
	2038	99,387	87,316	81,891	66,421	59,460	57,731	63,158	65,614	57,493	66,466	79,105	96,482	880,524
	2039	100,658	88,430	82,910	67,230	60,175	58,415	63,920	66,401	58,169	67,275	80,098	97,718	891,399
	2040	101,928	89,543	83,928	68,040	60,891	59,100	64,682	67,188	58,845	68,084	81,091	98,955	902,275
	2041	103,220	90,674	84,964	68,863	61,619	59,795	65,457	67,988	59,532	68,907	82,101	100,211	913,331
	2042	104,536	91,827	86,018	69,701	62,360	60,504	66,246	68,803	60,231	69,745	83,129	101,491	924,591
	2043	105,849	92,976	87,070	70,537	63,099	61,211	67,034	69,615	60,929	70,581	84,154	102,768	935,823
	2044	107,191	94,153	88,146	71,392	63,855	61,934	67,839	70,447	61,643	71,436	85,204	104,075	947,315
	2045	108,561	95,352	89,244	72,265	64,626	62,672	68,661	71,295	62,372	72,309	86,274	105,407	959,038
	2046	109,942	96,562	90,351	73,144	65,404	63,415	69,489	72,150	63,106	73,188	87,353	106,750	970,854
	2047	111,355	97,799	91,483	74,044	66,199	64,176	70,336	73,025	63,857	74,088	88,457	108,125	982,944
	2048	112,797	99,063	92,639	74,963	67,012	64,953	71,201	73,918	64,624	75,006	89,584	109,528	995,288
	2049	114,264	100,347	93,815	75,897	67,838	65,743	72,081	74,826	65,404	75,941	90,730	110,955	1,007,841
	2050	115,779	101,674	95,029	76,862	68,691	66,559	72,990	75,764	66,210	76,906	91,913	112,428	1,020,805

Verendrye Electric Cooperative

System Energy Requirements by Consumer Classification (MWh)

	<u>Total</u>	<u>Small</u>	<u>Large</u>			<u>Total</u>	<u>Own Use</u>	<u>Total</u>	
<u>Year</u>	<u>Residential</u>	<u>Commercial</u>	<u>Commercial</u>	<u>Irrigation</u>	<u>Other</u>	<u>Sales</u>	<u>& Losses</u>	<u>Requirements</u>	
H	2000	103,405	25,767	91,168	1,756	92,167	314,263	13,487	327,750
i	2001	107,774	25,812	95,972	1,684	92,710	323,952	10,479	334,431
s	2002	115,075	26,762	98,229	1,935	88,673	330,674	11,624	342,298
t	2003	118,258	27,417	96,819	2,294	88,713	333,501	14,666	348,167
o	2004	119,713	27,377	102,577	2,042	85,147	336,856	13,985	350,841
r	2005	125,671	28,522	112,323	1,929	85,771	354,216	6,617	360,833
i	2006	130,065	28,580	124,262	2,942	86,691	372,540	12,697	385,237
c	2007	141,014	30,300	131,162	3,039	86,301	391,816	12,439	404,255
a	2008	151,493	31,906	152,307	2,928	86,730	425,364	11,752	437,116
l	2009	162,630	34,289	152,033	2,850	88,323	440,125	12,337	452,462
	2010	167,465	36,411	163,651	1,906	90,452	459,885	11,110	470,995
	2011	181,639	38,345	171,036	2,027	93,267	486,314	18,384	504,698
	2012	201,898	40,843	176,961	2,969	90,439	513,110	18,167	531,277
	2013	226,559	42,225	188,501	2,062	91,896	551,243	20,516	571,759
	2014	234,344	43,315	225,700	1,789	88,936	594,084	21,445	615,529
	2015	213,340	40,670	223,633	2,918	88,143	568,704	20,038	588,742
	2016	205,246	38,782	238,430	2,748	84,015	569,221	18,764	587,985
	2017	209,885	42,250	243,266	4,086	83,622	583,109	18,532	601,641
	2018	223,267	42,424	240,721	3,538	85,002	594,952	18,884	613,836
	2019	236,741	42,967	245,689	3,492	85,094	613,983	20,405	634,388
	2020	245,474	43,505	251,943	3,505	85,094	629,521	20,912	650,433
	2021	255,222	44,036	270,510	3,518	85,094	658,380	21,462	679,842
	2022	263,678	44,561	279,998	3,532	85,094	676,863	21,965	698,828
	2023	271,319	45,079	283,119	3,545	85,094	688,156	22,424	710,580
	2024	278,834	45,591	286,465	3,558	85,094	699,542	22,887	722,429
	2025	286,181	46,095	290,035	3,571	85,094	710,976	23,352	734,328
	2026	293,450	46,592	293,693	3,584	85,094	722,413	23,817	746,230
	2027	301,019	47,079	297,424	3,597	85,094	734,213	24,297	758,510
	2028	308,170	47,558	301,367	3,610	85,094	745,799	24,768	770,567
	2029	315,062	48,029	305,419	3,623	85,094	757,227	25,233	782,460
	2030	322,339	48,490	309,528	3,637	85,094	769,088	25,716	794,804
P	2031	328,100	48,942	313,667	3,650	85,094	779,453	26,137	805,590
r	2032	333,741	49,385	317,826	3,663	85,094	789,709	26,554	816,263
o	2033	339,220	49,819	322,009	3,676	85,094	799,818	26,966	826,784
j	2034	344,936	50,243	326,226	3,689	85,094	810,188	27,387	837,575
e	2035	350,583	50,657	330,480	3,702	85,094	820,516	27,808	848,324
c	2036	356,172	51,062	334,794	3,715	85,094	830,837	28,227	859,064
t	2037	361,707	51,456	339,153	3,728	85,094	841,138	28,646	869,784
e	2038	367,224	51,841	343,557	3,742	85,094	851,458	29,066	880,524
d	2039	372,795	52,217	348,047	3,755	85,094	861,908	29,491	891,399
	2040	378,309	52,586	352,601	3,768	85,094	872,358	29,916	902,274
	2041	383,913	52,947	357,248	3,781	85,094	882,983	30,348	913,331
	2042	389,626	53,301	361,988	3,794	85,094	893,803	30,788	924,591
	2043	395,242	53,650	366,804	3,807	85,094	904,597	31,227	935,824
	2044	401,018	53,992	371,714	3,820	85,094	915,638	31,677	947,315
	2045	406,919	54,330	376,725	3,833	85,094	926,901	32,135	959,036
	2046	412,828	54,663	381,824	3,846	85,094	938,255	32,596	970,851
	2047	418,896	54,992	387,034	3,860	85,094	949,876	33,069	982,945
	2048	425,083	55,318	392,368	3,873	85,094	961,736	33,551	995,287
	2049	431,368	55,640	397,809	3,886	85,094	973,797	34,042	1,007,839
	2050	437,917	55,961	403,384	3,899	85,094	986,255	34,549	1,020,804

Historical Average Compound Growth Rates:

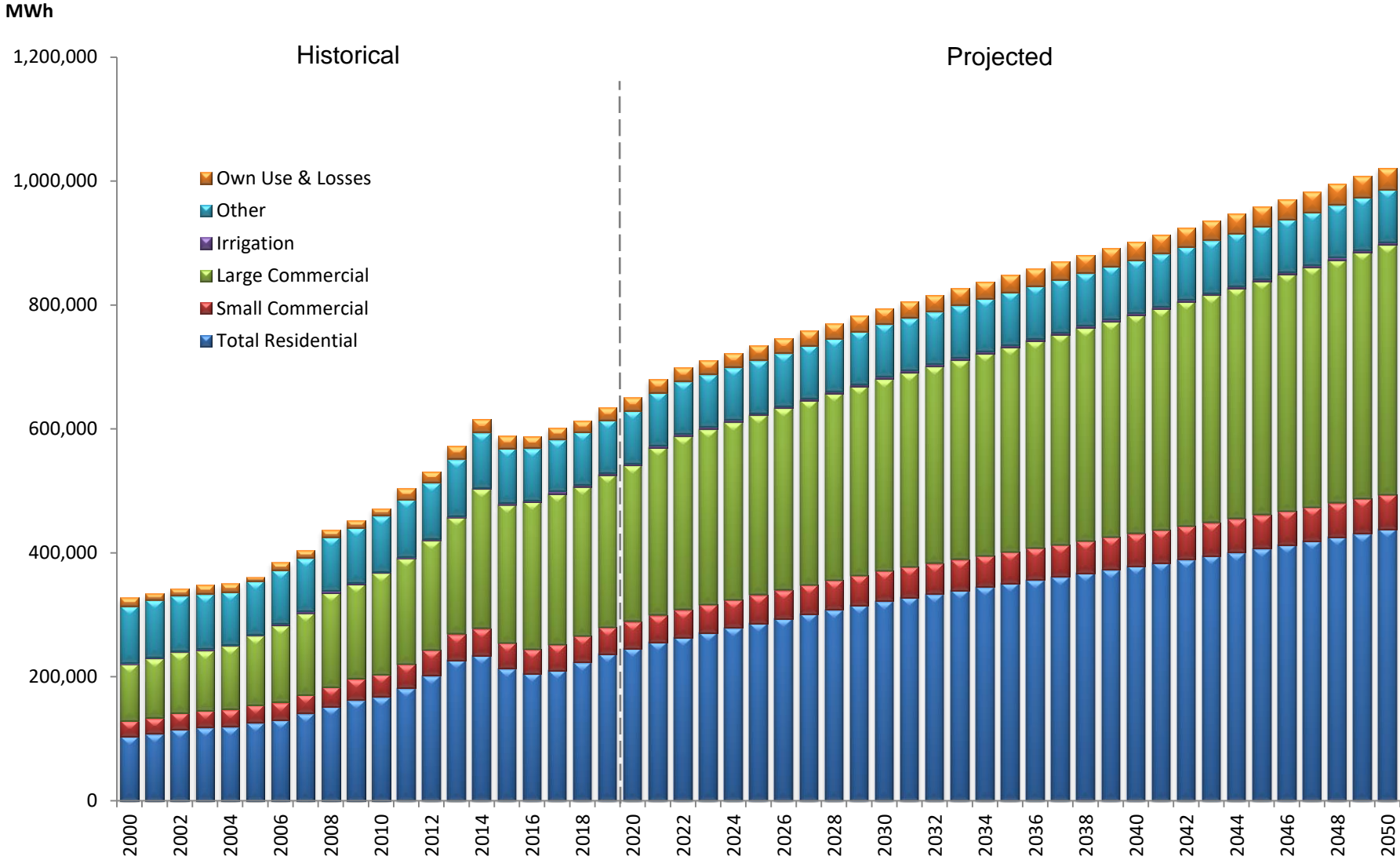
2000-2018	3.55%	2014-2018	-0.07%
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Projected Average Compound Growth Rates:

2019-2050	1.55%	2019-2023	2.88%
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Verendrye Electric Cooperative

Annual Energy Requirements



RESOLUTIONS



CAPITAL ELECTRIC COOPERATIVE, INC.

4111 STATE STREET • P.O. BOX 730 • BISMARCK, ND 58502-0730 • PHONE: 701. 223.1513 • FAX: 701.223.1557 • WEB SITE: www.capitalelec.com

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

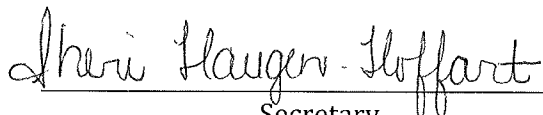
WHEREAS, the Board of Directors of Capital Electric Cooperative, Inc. has reviewed the study and its conclusions;

THEREFORE, BE IT RESOLVED that the Board of Directors of Capital Electric Cooperative, Inc. does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for 2019 through the year 2050.

And that the action taken and /or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

I, Sheri Haugen-Hoffart, Secretary of Capital Electric Cooperative, Inc. do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of Capital Electric Cooperative, Inc. held on August 23rd, 2019, at which a quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of Capital Electric Cooperative, Inc. this 23rd day of August 2019.


Secretary

Dakota Valley Electric Cooperative

RESOLUTION

2020 Load Forecast

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

WHEREAS, the Board of Directors of Dakota Valley Electric Cooperative has reviewed the study and its conclusions;

THEREFORE, BE IT RESOLVED that the Board of Directors of Dakota Valley Electric Cooperative does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for Dakota Valley Electric Cooperative through the year 2050.

AND, BE IT FURTHER RESOLVED that the action taken and/or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

CERTIFICATE of SECRETARY

I, Connie Bitz, Secretary, of Dakota Valley Electric Cooperative, Inc., do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of the Dakota Valley Electric Cooperative, Inc., held on the 23rd day of August, 2019; at which a quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of Dakota Valley Electric Cooperative this 23rd day of August, 2019.



Connie Bitz, Secretary

(Corporate Seal)

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

WHEREAS, the Board of Directors of *McLean Electric Cooperative, Inc.* has reviewed the study and its conclusions;

THEREFORE, BE IT RESOLVED that the Board of Directors of *McLean Electric Cooperative, Inc.* does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for *McLean Electric Cooperative, Inc.* through the year 2050.

And that the action taken and /or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

I, *Rod Stockdill*, Secretary of *McLean Electric Cooperative, Inc.* do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of *McLean Electric Cooperative, Inc.* held on *October 24, 2019*, at which a quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of *McLean Electric Cooperative, Inc.* this *October 24, 2019*.



Rod Stockdill, Board Secretary
McLean Electric Cooperative, Inc.



Seal.

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

WHEREAS, the Board of Directors of North Central Electric Cooperative, Inc. has reviewed the study and its conclusions;

THEREFORE, BE IT RESOLVED that the Board of Directors of North Central Electric Cooperative, Inc. does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for North Central Electric Cooperative, Inc. through the year 2050.

And that the action taken and /or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

I, Lori Kittleson, Secretary of North Central Electric Cooperative, Inc. do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of North Central Electric Cooperative, Inc. held on October 30, 2019, at which a quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of

North Central Electric Cooperative, Inc. this 30th day of October 2019.


Lori Kittleson, Secretary/Treasurer

Northern Plains Electric Cooperative

Resolution 2020 Load Forecast

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

WHEREAS, the Board of Directors of Northern Plains Electric Cooperative has reviewed the study and its conclusions;

THEREFORE, BE IT RESOLVED that the Board of Directors of Northern Plains does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for Northern Plains through the year 2050.

AND, BE IT FURTHER RESOLVED that the action taken and /or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

I, Randy Simon, Secretary-Treasurer of Northern Plains Electric Cooperative, do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the Board of Directors of Northern Plains held on September 23rd, 2019, at which a quorum was present.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of Northern Plains Electric Cooperative this 23rd day of September, 2019.



Randall Simon, Secretary-Treasurer

(CORPORATE SEAL)





615 Highway 52 W. ■ Velva, ND 58790-7417 701-338-2855
1225 Highway 2 Bypass E. ■ Minot, ND 58701-7927 701-852-0406
Fax 701-624-0353 ■ WATS 1-800-472-2141
E-mail: rec@verendrye.com ■ Website: www.verendrye.com

RESOLUTION
VERENDRYE ELECTRIC COOPERATIVE, INC. BOARD OF DIRECTORS
APPROVAL OF 2020 LOAD FORECAST

WHEREAS, Basin Electric Power Cooperative has completed a detailed forecast of total demand and energy requirements for the period of 2019 through 2050; and

WHEREAS, the forecast was prepared in accordance with current Rural Utilities Service regulations using reasonable methodologies and assumptions; and

WHEREAS, the Board of Directors of Verendrye Electric Cooperative has reviewed the study and its conclusions;

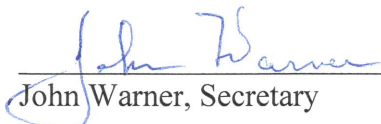
THEREFORE, BE IT RESOLVED that the Board of Directors of Verendrye Electric Cooperative does hereby adopt and approve the 2020 Load Forecast prepared by Basin Electric Power Cooperative as a reasonable forecast of the future demand and energy requirements for Verendrye Electric Cooperative through the year 2050.

And that the action taken and /or resolutions adopted as above set out have never been rescinded, altered, amended, modified or repealed, and are of the date hereof in full force and effect.

CERTIFICATION OF SECRETARY

I, John Warner, Secretary of Verendrye Electric Cooperative, Inc. do hereby certify that the above is a true and correct excerpt from the minutes of the meeting of the board of directors of Verendrye Electric Cooperative, Inc, held on August 28, 2019 at which meeting a quorum was present.

(SEAL)



John Warner, Secretary

A Touchstone Energy® Cooperative 

This institution is an equal opportunity provider and employer.