APPLICANTS' EXHIBIT 47

SOUTH DAKOTA PUBLIC UTILITIES COMMISSION

CASE NO. EL05-022

IN THE MATTER OF THE APPLICATION BY OTTER TAIL POWER COMPANY
ON BEHALF OF THE BIG STONE II CO-OWNERS
FOR AN ENERGY CONVERSION FACILITY SITING PERMIT FOR THE
CONSTRUCTION OF THE BIG STONE II PROJECT

PREFILED REBUTTAL TESTIMONY

OF

ROBERT L. DAVIS

SENIOR DIRECTOR

R. W. BECK, INC.

JUNE 16, 2006

3311

PREFILED REBUTTAL TESTIMONY OF ROBERT L. DAVIS

TABLE OF CONTENTS

BEFORE THE SOUTH DAKOTA PUBLIC UTILITIES COMMISSION

PREFILED REBUTTAL TESTIMONY OF ROBERT L. DAVIS

I. INTRODUCTION

Q: Please state you name and business address.

A: My name is Robert L. Davis. My business address is 1000 Legion Place, Suite 1100, Orlando, Florida 32801.

Q: Whom are you employed by and in what capacity?

A: I am a Senior Director at R. W. Beck, Inc., a nationally recognized independent engineering and utility management consulting firm with headquarters in Seattle, Washington. R. W. Beck was retained by Central Minnesota Municipal Power Agency (CMMPA) to assist CMMPA with its application for an energy conversion facility siting permit for the construction of the Big Stone Unit II project in South Dakota and with its Certificate of Need filing for the Big Stone Unit II Transmission project in the state of Minnesota. I am the lead project manager for the most recent investigations and evaluations of load forecasts and resource expansion for the CMMPA members participating in both projects.

Q: What is your educational background and professional experience?

A: A biography of my educational background and professional experience is attached to this testimony as Applicants' Exhibit 47-A.

Q: Did you previously submit testimony in this proceeding?

A: No. However, I submitted direct testimony in the related transmission certificate of need proceeding in Minnesota.

Q: Have you rendered testimony on electric utility matters in other proceedings?

A: Yes. I have rendered testimony and comments on issues pertaining to certificate of needs, resource planning, demand-side management goals and plans, market power, and Regional Transmission Organization ("RTO") formation before the states of Texas, Florida, South Carolina, and the Federal Energy Regulatory Commission. A summary of my curriculum vitae is attached to this testimony as Applicants' Exhibit 47-B.

Q: Who do you represent in this proceeding?

A: In this proceeding, I am testifying on behalf of CMMPA, and through CMMPA, thirteen municipal electric systems located in the southern portion of the State of Minnesota that have elected to participate jointly through CMMPA to acquire an undivided ownership interest in the proposed construction and operation of Big Stone Unit II project and transmission interconnection facilities proposed in this proceeding.

The twelve participating members of CMMPA in these projects are: the City of Blue Earth, MN; the City of Delano, MN; the City of Fairfax, MN; the City of Glencoe, MN; the City of Granite Falls, MN; the City of Janesville, MN; the City of Kasson, MN; the City of Kenyon, MN; the City of Mountain Lake, MN; the City of Sleepy Eye, MN; the City of Springfield, MN; and the City of Windom, MN.

Through CMMPA, I am also representing the City of Willmar, Minnesota, which is not a member of CMMPA, but which is participating jointly with the other twelve members of CMMPA to acquire an undivided ownership interest in the proposed construction and operation of Big Stone Unit II and transmission interconnection facilities. Throughout this testimony, I will only be addressing issues as they pertain to these thirteen municipal participants in the Big

Stone Unit II project. Hereafter, these thirteen municipal utilities will be referred to as the CMMPA Members.

II. PURPOSE AND SUMMARY OF TESTIMONY

Q: What is the purpose of your testimony?

A: I will respond on behalf of CMMPA Members to the May 26, 2006 testimony of Minnesota Center for Environmental Advocacy (MCEA) witnesses Schlissel and Sommers with regard to the need for capacity and issues relating to resource planning, specifically as these topics refer to the CMMPA Members.

III. NEED FOR AND TIMING OF CAPACITY

Q: At pages 5 and 6 of their May 26 testimony, MCEA witnesses Schlissel and Sommers state that CMMPA does not need additional capacity in 2011. Do you agree?

A: No. As demonstrated in Applicants' Exhibit 47-C, the most recent analysis of resource capacity and peak demand projections developed for the CMMPA Members confirms that the CMMPA Members will need capacity additions by 2008. Capacity deficiencies in 2008 and 2009 are projected to be rather small; however, by 2011, without the addition of the Big Stone Unit II, the reserve margin for the CMMPA Members is projected to fall below 10 percent.

Q: Please briefly describe the analysis recently undertaken by you with respect to the CMMPA Member load forecast and resource expansion analysis.

A: Under my direct supervision, two interrelated analyses were undertaken by R. W. Beck: first was an econometric analysis and forecast of demand and energy requirements. Second, we performed an optimized generation resource expansion and demand-side management screening analysis. The load forecast utilized generally-accepted electric utility industry practices to

develop separate projections of net energy for load, or NEL, for each of the CMMPA Members. Historical data and forecasts of major economic indicators, such as population, gross domestic product, retail sales, and personal income for the Minnesota counties of the members were combined with historical heating and cooling degree-day weather indicators and projections of normal weather conditions to develop the annual projections. These annual NEL projections were assessed in the context of other historical information on annual peak demands and monthly and hourly loads to develop projections of monthly energy and peak demands and a coincident peak demand forecast for the CMMPA Members.

Q: What are the major findings of the load forecast analysis?

A: NEL and peak demands of the CMMPA Members are projected to grow at annual growth rates of approximately 1.5 percent over the twenty year period from 2006 through 2025. Primarily following the forecast trends for major economic indicators used to develop the forecast, load growth rates for the CMMPA Members are projected to decline over time, with growth rates of approximately 1.6 percent over the first decade of the forecast period (2006 through 2015), declining to approximately 1.4 percent over the second decade of the forecast period (2016 through 2025). The annual coincident peak demand of the CMMPA Members is projected to be 177 MW by the summer of 2011 (the summer immediately following the anticipated commercial operating date for the Big Stone Unit II). A detailed discussion of the methodology and results of the load forecast analysis can be found in the attached Applicants' Exhibit 47-C, Resource Expansion Analysis – Big Stone Unit II Participating Members.

Q: Please describe the analysis recently undertaken by you with respect to the projections of resource expansion for the CMMPA Members?

A: As previously mentioned, under my supervision two interrelated analyses were undertaken by R. W. Beck. The second of these analyses, an optimized generation resource expansion and demand-side management screening analysis, was undertaken to identify one or more potential resource expansion plans that could satisfy the multiple objectives of meeting a reasonable 15 percent reserve margin above the coincident peak demands forecast for the CMMPA Members, while minimizing total costs of generation production, operation and maintenance, and capital investments in new resources. The first task for this analysis was an investigation of the existing and firmly planned resources of the CMMPA Members and comparison of these resources to forecast coincident peak demands. Through this investigation, I identified the dates when capacity additions would be required by the CMMPA Members.

Q: Based on the results of the load forecast and the existing and planned resources of the CMMPA Members, when will the members need to add new capacity resources?

A: Assuming a 15 percent planning reserve margin is applied to the forecast of coincident peak demands for the CMMPA Members, the members are first in need of capacity additions in 2008. Capacity deficiencies in 2008 are projected to be rather small (less than 2 MW), and capacity needs are projected to increase only slightly in 2009 as certain purchase power contracts are set to expire and other planned resources are scheduled to come online. However by 2011, without the addition of the CMMPA Members' shares of Big Stone Unit II, the reserve margin for the CMMPA Members is projected to fall below 10 percent. Capacity needs are projected to grow by an average of 3.5 MW per year thereafter. By 2025, if no capacity other than currently planned amounts are added, the CMMPA Members would need approximately 58 MW of capacity additions.

IV. RESOURCE PLANNING

Q: At pages 23 and 32 of their May 26 testimony, MCEA witnesses Schlissel and Sommers state that CMMPA considered only fossil-fueled alternatives and did not consider renewable or demand-side alternatives as potential alternatives to the Big Stone Unit II Project. Do you agree?

A: No. The recent resource expansion analysis conducted for the CMMPA Members considered wind resources along with fossil-fueled resources as expansion alternatives. In addition to the 30 MW of Big Stone Unit II capacity that the CMMPA Members are acquiring, the resource expansion analysis considered combined-cycle and simple-cycle resources fired with natural gas; a supercritical pulverized coal steam resource fired with sub-bituminous coal; an integrated gasification combined-cycle resource fired on sub-bituminous coal; and a multiple-turbine wind resource facility. Because additional quantities of the Big Stone Unit II above the 30 MW currently secured by the CMMPA Members may become available if changes in participant status occur in the future, an additional 30 MW of Big Stone Unit II capacity was also evaluated for its potential cost-effective adoption by the CMMPA Members.

With regard to demand-side alternatives, the resource expansion analysis considered demand-side resources in two ways. First, the load forecast for the CMMPA Members was developed from historical levels of NEL and peak demand. Any reductions attributable to historical implementations of demand-side programs were, therefore, included in the data used to derive the econometric load forecast. In this way, historical levels of demand-side program reductions and growth in such reductions are implicitly removed from the forecast demands used to establish the future capacity need of the CMMPA Members. Second, the resource expansion

analysis included an evaluation of demand-side programs to determine whether demand-side alternatives were more or less costly than the supply-side expansion alternatives.

Q: At page 8 of their May 26 testimony, MCEA witnesses Schlissel and Sommers state that the Big Stone II Co-Owners have not shown that the Big Stone II resource is the lowest cost option as compared to portfolios of renewable and demand side alternatives. Do you agree?

A: No. In the recent resource expansion analysis conducted for the CMMPA Members – potential resource expansion plans were developed using an impartial process that considered both traditional and renewable resource alternatives. Furthermore, demand-side programs consistent with costs and load impacts of the existing demand-side programs implemented by the CMMPA Members were evaluated against an expansion plan that included the Big Stone Unit II project to assess whether it would be less expensive for the CMMPA Members to implement demand-side programs or build the Big Stone Unit II project.

Q: Please briefly describe the resource expansion analysis, attached as Applicants' Exhibit 47-C.

A: The resource expansion analysis was performed using the generation and demand-side planning optimization analysis software package Strategist, which R. W. Beck licenses from New Energy Associates, a Siemens Company. Strategist employs a dynamic programming optimization technique combined with a convolution generation dispatch process to approximate the operation of generating resources and power purchases and sales for electric utilities. Through the dynamic optimization process, Strategist explores all potential generation expansion plans that can be produced from a given set of resource alternatives and identifies the best

candidate plans based on the planning objectives identified by the user. For this analysis, I relied upon two primary objectives. First, the CMMPA Members must meet a minimum 15 percent reserve margin beginning in 2011. Second, the optimum resource plans must provide for the lowest projected utility costs of all possible alternatives over a 25-year study period from 2011 through 2035. Potential resource plans were ranked from lowest to highest cost based on a computation of total, present value costs, including generation production costs, operating and maintenance costs, and capital costs for the CMMPA Members over the 25-year study period. The computation of present-value costs also included a quantification of costs beyond the study period, commonly referred to as end effects.

Q: From your analysis, which potential resource plan was found to produce to lowest projected costs for the CMMPA Members?

A: A resource expansion plan consisting of the planned 30 MW of the Big Stone Unit II in 2011, plus an additional 10 MW of installed wind capacity in 2011, followed by 10 MW of supercritical pulverized coal capacity installed every two to three years beginning in 2019, was found to be the least-cost potential resource expansion plan. A detailed discussion of the methodology and results of the resource expansion analysis, including a collection of the lowest cost resource plans that were evaluated, can be found in the attached Applicants' Exhibit 47-C.

Q: Did you analyze resource expansion cases with significantly more renewable resources than the lowest-cost plan?

A: Yes. Over 400 discrete resource expansion case alternatives were evaluated as part of the Strategist analysis. While many of these cases were subtle variations on the lowest-cost plan, many sub-optimal plans were also evaluated. As indicated in Applicant's Exhibit 47-C, sub-

optimal plans that included greater quantities of wind generation resulted in higher total costs for power supply for the CMMPA Members.

Q: What were the results of your investigation to add more than the planned 30 megawatts of the Big Stone Unit II capacity?

A: At least 30 additional megawatts of capacity from Big Stone Unit II could be cost-effectively added by the CMMPA Members in 2011. This case is not currently contemplated as a resource expansion alternative because all of the proposed Big Stone Unit II capacity is already allocated to the Big Stone Unit II partners. However, should additional capacity from the Big Stone Unit II become available, the resource expansion analysis found that additional quantities of the Big Stone Unit II capacity would provide for lower total present value costs for the CMMPA Members as compared with the lowest-cost plan described previously. While the reserve margin for the CMMPA Members would obviously far exceed the 15 percent target under this case, the lower-cost results of this case can be understood when compared to the existing resource alternatives of the CMMPA Members. The CMMPA Members rely heavily on market-priced non-firm and economy purchases, and generation from owned lower-efficiency steam resources and oil-fired diesel generation to serve their loads. In contrast, savings in energy costs the CMMPA Members could receive through low-cost energy available from the proposed Big Stone Unit II are projected to offset the incremental fixed and capital costs associated with the additional Big Stone Unit II capacity, resulting in lower total costs for power than what is available from their existing resources.

V. DEMAND-SIDE MANAGEMENT (DSM)

Q: At page 34 of their May 26 testimony, MCEA witnesses Schlissel and Sommers state that CMMPA did not compare demand-side measures against supply-side resources. Do you agree?

A: No. In the most recent resource expansion analysis performed for the CMMPA Members, demand-side programs were compared against the lowest-cost resource expansion plan, which includes the Big Stone Unit II project, to determine whether the demand-side programs would result in lower total costs for the CMMPA Members as compared to an expansion plan without demand-side programs.

Q: How was this analysis of demand-side programs performed and what were the results?

A: Demand-side programs were evaluated incrementally against the lowest cost of the generating resource expansion cases (the addition of 30 MW of Big Stone Unit II capacity in 2011 along with 10 MW of wind capacity 2011 and future additions of coal capacity). Average demand-side program costs and energy and demand benefits were estimated from Conservation Improvement Program reports filed by the CMMPA Members with the Minnesota Department of Commerce and other estimates provided by the CMMPA Members. Incremental demand-side program costs and load reductions for the CMMPA Members were compared against the best generating resource expansion case to determine whether incremental reductions in energy production costs and avoided generation capacity costs attributable to the demand-side programs would be greater than the cost of the demand-side programs.

The results of this analysis reveal that the average cost per demand and energy reduction resulting from the CMMPA Member demand-side programs is higher than the marginal avoided costs of generation production and capacity. These results indicate that the existing demand-side programs of the CMMPA Members cause higher total and average operating costs for the members than would otherwise occur if no demand-side programs were implemented by the members and that any increase in funding and implementation of the current demand-side programs of the members would not be cost-effective.

Q: Does this conclude your prepared testimony?

A: Yes.

BIOGRAPHY

ROBERT L. DAVIS
SENIOR DIRECTOR
R. W. BECK, INC.

Mr. Davis, a Senior Director with R. W. Beck, Inc., has over twenty years of experience in electric industry planning and operation. Since joining R. W. Beck in 1990, he has been responsible for various electric industry studies relating to wholesale power markets, power and demand-side planning, generation simulation, risk and probabilistic analyses, RFP development and evaluation, and power supply contracting. His experience encompasses fuel procurement, IPP/cogen assessment, alternative generation technology evaluation, wholesale and retail rate design, utility cost of service analyses, load and customer forecasting, customer surveying, and financial reporting for revenue bond and capital market issuance.

Over the last several years, Mr. Davis has been responsible for leading the firm's deregulated wholesale market analyses throughout much of Eastern North America, including the development of market simulation models to forecast and analyze future power prices, market transactions, project revenue, portfolio values, stranded costs, and market uncertainty. He has investigated and advised clients on issues they will face under deregulation, including the potential timing, structure, and operation of deregulated bulk power markets. Mr. Davis has performed economic feasibility studies investigating the development or acquisition of tens of thousands of megawatts of generating capacity throughout North America and over the last two years was the lead market analyst supporting the successful financing of several billion dollars of generation projects.

Mr. Davis has developed several comprehensive integrated resource plans for utilities balancing objectives of lowest utility operating costs, acceptable risk, and minimization of adverse retail rate impacts. Mr. Davis has submitted testimony before state and federal regulatory bodies and presented findings and conducted training workshops on resource planning and marketing plans to utility staff and management, citizen groups, governing boards, and utility commissions.

Prior to joining R. W. Beck, Mr. Davis worked for five years as a utility analyst in the Strategic Planning Department of a Gainesville Regional Utilities, a municipal electric, natural gas, water and wastewater utilities system located in the north-central Florida, where he was responsible for the design, evaluation, and monitoring of DSM programs. While at the University of Florida pursuing a BS degree in Engineering Sciences and Mechanics, Mr. Davis focused on an interdisciplinary study of alternative energy production technologies and engineering mathematics. Prior to beginning his professional career, his experience included research and development of state residential building codes and energy auditing of utility customers.

CURRICULUM VITAE

FORUM	PROCEEDING	MATTER	PETITIONER	SUBJECT	DATE
Florida Public Service Commission	Docket No. 020233-EL	GridFlorida RTO Cost/Benefit Analysis Workshop	Seminole Electric Cooperative, Inc. and Florida Municipal Power Agency	Filed comments and testimony before the FPSC on the GridFlorida RTO cost-benefit study results, including identification of methodological weaknesses, flawed assumptions, erroneous results	2005
Florida Public Service Commission	Docket No. 020233-EL	GridFlorida RTO Cost/Benefit Analysis Workshop	Seminole Electric Cooperative, Inc. and Florida Municipal Power Agency	Filed comments and testimony before FPSC on proposed GridFlorida RTO cost/benefit analysis, including identification of concerns, requests for information, and recommendations for study modifications	2004
Federal Energy Regulatory Commission	Docket Nos. ER99-3427-000 and ER00-2398-000	Triennial Market Power Update	Baconton Power LLC and SOWEGA Power LLC	Filed market power evaluation in compliance with FERC orders granting market-based rate authority for wholesale sales of electric energy and capacity	2002
Public Service Commission of the State of South Carolina	Docket No. 2001-411-E	Application for Certificate of Environmental Compatibility and Public Convenience and Necessity	Greenville County Power, LLC	Testimony on state and regional market assessment for determination of need for generating capacity in support of power plant siting	2001
Florida Public Service Commission	Docket No. 001748-EC	Petition for Determination of Need for the Osprey Energy Center in Polk County	Seminole Electric Cooperative and Calpine Construction Finance Company, L.P.	Preparation of filed exhibits for power plant siting, determination of generation capacity need	2000/ 2001
Florida Public Service Commission	Docket No. 000289-EU	Petition for Determination of Need for an Electrical Power Plant in Lake County	Panda Leesburg Power Partners, L.P.	Filed testimony for power plant siting and economic and reliability assessment for determination of generation need	2000
Florida Public Service Commission	Docket No. 000288-EU	Petition for Determination of Need for an Electrical Power Plant in St. Lucie County	Panda Midway Power Partners, L.P.	Filed testimony for power plant siting and economic and reliability assessment for determination of generation need	2000

CURRICULUM VITAE (CONT.)

FORUM	PROCEEDING	MATTER	PETITIONER	SUBJECT	DATE
Public Utility Commission of Texas	SOAH Docket No. 473-95-1820, PUC Docket No. 15100	Determinations Required by 32K of the Public Utility Holding Act and for Certification of Contract	Golden Spread Electric Cooperative, Inc.	Independent performance and evaluation of power and demand-side RFPs	1995/ 1996
Florida Public Service Commission	Docket No. 950446-EG	Adoption of Numeric Conservation Goals and Consideration of National Energy Policy Act	Florida Municipal Power Agency and Ocala Electric Utility	Evaluation of demand-side management measure cost-effectiveness and establishment of numeric goals	1995
Florida Public Service Commission	Docket No. 950455-EG	Adoption of Numeric Conservation Goals and Consideration of National Energy Policy Act	City of Vero Beach, Florida	Evaluation of demand-side management measure cost-effectiveness and establishment of numeric goals	1995

REPORT

Resource Expansion Analysis
Big Stone II Participating Members

Central Minnesota Municipal Power Agency

Prepared by

R. W. Beck, Inc.

JUNE 1, 2006

R·W·BECK

3327

EXHIBIT
Applicants'
Exhibit 47-C

Resource Expansion Analysis in Support of CMMPA Big Stone II Certificate of Need

Table of Contents

List of Tables

List of Figures

EXECUTIVE SUMMARY

R. W. Beck, Inc. ("R. W. Beck") was retained by Central Minnesota Municipal Power Agency ("CMMPA") to develop a load forecast and resource expansion analysis for the thirteen municipal utilities that CMMPA is representing in the Big Stone II Project certificate of needs filings in the states of Minnesota and South Dakota. CMMPA, collectively with six other owner-participants in the Big Stone II Project, submitted its application for a certificate of need in the State of Minnesota on September 30, 2005 (the "Application"). The analyses undertaken by CMMPA in support of the Application were reviewed by the Minnesota Department of Commerce ("DOC"), which recommended that certain aspects of the analyses and supporting documentation submitted by CMMPA in the Application be revised. The DOC provided certain recommendations to improve the analysis conducted by CMMPA, which, to paraphrase the DOC recommendations, suggested that CMMPA redress two primary areas of the analysis: (i) the techniques used to develop the load and demand forecast should be more comprehensive, and (ii) a more rigorous optimization technique should be used to examine potential resource expansion plans. This report addresses these recommendations.

On behalf of CMMPA, R. W. Beck performed two interrelated studies, which results are summarized and the methodology and assumptions are documented herein. These studies were:

- A econometric forecast of demand and energy for each of the municipal electric systems of which CMMPA is representing in the Application; and
- A resource expansion analysis, incorporating the results of the load forecast, using an industry-accepted resource expansion optimization software program.

These analyses were conducted for a composite of thirteen municipal electric systems located in the southern and central portions of the State of Minnesota that have elected to participate jointly through CMMPA to acquire an undivided ownership interest in the proposed construction and operation of the Big Stone II Project. Twelve of these entities are current members of CMMPA:

City of Blue Earth, MN ("Blue Earth")
City of Delano, MN ("Delano")
City of Fairfax, MN ("Fairfax")
City of Glencoe, MN ("Glencoe")
City of Granite Falls, MN ("Granite Falls")
City of Janesville, MN ("Janesville")
City of Kasson, MN ("Kasson")
City of Kenyon, MN ("Kenyon")
City of Mountain Lake, MN ("Mountain Lake")
City of Sleepy Eye, MN ("Sleepy Eye")
City of Springfield, MN ("Springfield")
City of Windom, MN ("Windom")

The thirteenth entity included in the analysis is the City of Willmar, Minnesota, which though not a member of CMMPA, is participating jointly with the other twelve members of CMMPA to acquire an undivided ownership interest in the proposed Big

Stone II Project. Throughout this report, these thirteen municipal electric systems are collectively referred to as the Big Stone II Members.

The results of the load forecast indicate that NEL and peak demands of the CMMPA Members are projected to grow at annual growth rates of approximately 1.5 percent over the twenty year period from 2006 through 2025. Primarily following the forecast trends for major economic indicators used to develop the forecast, load growth rates for the Big Stone II Members are projected to decline over time, with growth rates of approximately 1.6 percent over the first decade of the forecast period (2006 through 2015), declining to approximately 1.4 percent over the second decade of the forecast period (2016 through 2025). The annual coincident peak demand of the Big Stone II Members is projected to be 177 megawatts by the summer of 2011, the summer immediately following the anticipated commercial operating date for the Big Stone Unit II.

Assuming a 15 percent planning reserve margin is applied to the forecast of coincident peak demands for the CMMPA Members, the members are first in need of capacity additions in 2008. Capacity deficiencies in 2008 are projected to be rather small (less than 2 megawatts), and capacity needs are projected to increase only slightly in 2009 as certain purchase power contracts are set to expire and other planned resources are scheduled to come online. However, by 2011, without the addition of the Big Stone Unit II, the reserve margin for the CMMPA Members is projected to fall below 10 percent. Capacity needs are projected to grow by an average of 3.5 megawatts per year thereafter. By 2025, if no capacity other than currently planned amounts is added, the CMMPA Members would need approximately 58 megawatts of capacity additions.

To satisfy this projected need, a resource expansion analysis was undertaken to identify a least-cost resource plan. Over 400 potential expansion plans were developed in the resource expansion analysis. The three plans that ranked lowest in present value cost were identified as the optimum least-cost plans as shown in Table ES-1. The present value utility cost variance shown in the table represents the incremental cost increase for each plan from the lowest-cost plan. All three of the optimum least-cost expansion plans indicate that the Big Stone II Members need to secure 30 MW of Big Stone Unit II capacity in 2011.

- Plan 1, consisting of the planned 30 megawatts of the Big Stone Unit II in 2011, plus an additional 10 megawatts of installed wind capacity in 2011, followed by 10 megawatts of supercritical pulverized coal capacity installed every two to three years beginning in 2019, was found to be the least-cost potential resource expansion plan. Based on the results of this plan, wind turbine capacity of approximately 10 MW is a viable resource option for the Big Stone II Members in 2011. This amount of wind capacity is approximately equal to the Renewable Energy Objective of the Big Stone II Members for 2012.
- Plan 2 delays the installation of the 10 MW wind unit 9 years until 2020 and moves the first 10 MW supercritical coal unit one year forward to 2018. The incremental cost increase from Plan 1 was less than $1 million.

- Plan 3 differs from Plan 1 by replacing the final 10 MW of supercritical coal capacity addition in 2035 with 10 MW of IGCC capacity. The incremental cost increase from Plan 1 was $3.4 million.

Table ES-1: Optimum Least-Cost Potential Expansion Plans

Year of Installation	Plan 1	Plan 2	Plan 3
2011	BS II (30MW) Wind (10MW)	BS II (30MW)	BS II (30MW) Wind (10MW)
2018	–	Coal (10MW)	–
2019	Coal (10MW))	–	Coal (10MW)
2020	–	Wind (10MW)	–
2021	Coal (10MW)	Coal (10MW)	Coal (10MW)
2023	Coal (10MW)	Coal (10MW)	Coal (10MW)
2026	Coal (10MW)	Coal (10MW)	Coal (10MW)
2029	Coal (10MW)	Coal (10MW)	Coal (10MW)
2032	Coal (10MW)	Coal (10MW)	Coal (10MW)
2035	Coal (10MW)	Coal (10MW)	IGCC (10MW)
PV Utility Cost Variance (2006 $000)	**-**	**954**	**3,400**

At least 30 additional megawatts of capacity from Big Stone Unit II could be cost-effectively added by the Big Stone II Members in 2011. This case is not currently contemplated as a resource expansion alternative because all of the proposed Big Stone Unit II capacity is already allocated to the Big Stone II partners. However, should additional capacity from the Big Stone Unit II become available, the resource expansion analysis found that additional quantities of the Big Stone Unit II capacity would provide for lower total present value costs for the Big Stone II Members as compared with the lowest-cost base plan described previously. While the reserve margin for the Big Stone II Members would obviously far exceed the 15 percent target under this case, the lower-cost results of this case can be understood when compared to the existing resource alternatives of the Big Stone II Members. The Big Stone II Members rely heavily on market-priced non-firm and economy purchases, and generation from owned, lower-efficiency steam resources, and oil-fired diesel generation to serve their loads. In contrast, savings in energy costs the Big Stone II Members could receive through low-cost energy available from the proposed Big Stone Unit II are projected to offset the incremental fixed and capital costs associated with the additional Big Stone Unit II capacity, resulting in lower total costs for power than what is available from their existing resources.

CONCLUSIONS

The resource expansion modeling demonstrates that growth in member and changes in planned capacity results in the need for new capacity additions for the Big Stone II Members in the near future. To meet this need, the Big Stone II Members will need to acquire new capacity resources. Evaluations of available and possible resource alternatives indicate that Big Stone Unit II is a viable, low-cost means for the Big Stone II Members to meet this need. Furthermore, the beneficial results produced by acquiring 30 MW of Big Stone Unit II capacity above the current allocation of the Big Stone II Members underscores the need of the members to obtain low-cost, base-loaded capacity.

Section 1
INTRODUCTION

DESCRIPTION OF CMMPA

Central Minnesota Municipal Power Agency ("CMMPA") is a not-for-profit municipal corporation and political subdivision of the State of Minnesota, headquartered in Blue Earth, Minnesota. CMMPA was formed in 1987 and currently has 14 members (the "Members"), as listed below.

- City of Blue Earth, MN ("Blue Earth")
- City of Delano, MN ("Delano")
- City of Fairfax, MN ("Fairfax")
- City of Glencoe, MN ("Glencoe")
- City of Granite Falls, MN ("Granite Falls")
- City of Janesville, MN ("Janesville")
- City of Kasson, MN ("Kasson")
- City of Kenyon, MN ("Kenyon")
- City of Lake Crystal, MN ("Lake Crystal")
- City of Mountain Lake, MN ("Mountain Lake")
- City of New Ulm, MN ("New Ulm")
- City of Sleepy Eye, MN ("Sleepy Eye")
- City of Springfield, MN ("Springfield")
- City of Windom, MN ("Windom")

CMMPA is responsible for supplying project power to the Members, who in turn provide low-cost, reliable electric energy and related services directly to customers across south and central Minnesota. Utilities Plus, a power marketing company wholly-owned by CMMPA, assists the Members with the purchase and sale of capacity and energy on a short term or other basis, as requested, and arranges for transmission services for such purchases and sales. The Members rely on Utilities Plus to dispatch the various member resources together with purchases from the market to minimize their total power costs.

CMMPA is a project agency and, as such, CMMPA members determine individually which projects to pursue. Twelve of the CMMPA members – namely, Blue Earth, Kasson, Delano, Kenyon, Fairfax, Mountain Lake, Glencoe, Sleepy Eye, Granite

Falls, Springfield, Janesville, and Windom – have elected to participate jointly through CMMPA to acquire an undivided ownership interest in the proposed construction and operation of the Big Stone II Project. Additionally, the City of Willmar, Minnesota, which is not a member of CMMPA, is participating jointly with these twelve members of CMMPA to acquire the undivided ownership interest in the Big Stone II Project. The twelve CMMPA members and the City of Willmar have signed a power sales agreement with CMMPA to acquire a collective 5.0 percent (approximately 30 MW) ownership interest in Big Stone Unit II.

Throughout this report, the thirteen municipal electric systems are collectively referred to as the Big Stone II Members. All of the loads of CMMPA Big Stone II Members are served in Minnesota.

DESCRIPTION OF THE PROJECT

Big Stone Unit II is a second generating unit planned for construction adjacent to Otter Tail Power Company's ("Otter Tail") Big Stone Unit I located near Big Stone City, South Dakota. The Big Stone II Project (the "Project") entails the construction of the Big Stone Unit II and associated transmission facilities. The six utilities currently participating in the development of the Project along with CMMPA are Otter Tail, Great River Energy, Heartland Consumers Power District, Missouri River Energy Services, MDU Resources Group, and Southern Minnesota Municipal Power Agency (the "Participants"). The Big Stone Unit II is assumed to be a supercritical pulverized coal unit with a total generating capacity of approximately 600 MW. Subject to permitting, commercial operation is scheduled for the spring of 2011.

PURPOSE OF THE ANALYSIS

CMMPA, along with the other Participants, is in the process of filing for a Certificate of Needs for the Project in the state of Minnesota. In accordance with Minnesota Public Utility Commission Rule 7849, one of the requirements for receiving a Certificate of Need involves the demonstration that the Project (or portion thereof, depending on what facilities are located within the state) is the lowest cost option for meeting future power supply requirements. The resource expansion analysis documented herein (the "Analysis") is intended to provide the documentation necessary to show that the Project is the lowest cost resource alternative for the Big Stone II Members.

OBJECTIVES

The resource planning objectives of the Big Stone II Members adopted for this analysis are as follows:

- ***Objective 1:*** Maintain the adequacy and reliability of power supply. To meet this goal, load projections were first developed for the Big Stone II Members, including an additional 15% for planning reserves. Current plans for

resource additions and retirements were then reflected in the analysis. Based on these investigations, the Big Stone II Members are projected to begin experiencing capacity deficiencies by the summers of 2008. Short-term capacity purchases could cover deficiencies early on, but load growth and additional purchase power contract terminations are projected to cause capacity deficiencies to gradually increase over time.

- ***Objective 2:*** Keep CMMPA wholesale rates as low as possible. One of the primary objectives of the Analysis was to analyze potential resource plans that would minimize the overall long-term power supply costs to the Big Stone II Members. Resource expansion modeling was performed to identify the resource plan(s) that are projected to produce the lowest present value generation production, fixed, and capital costs for the Big Stone II Members. The analysis examined various potential resource combinations over the 2011 through 2035 timeframe.
- ***Objective 3:*** Minimize adverse socioeconomic and environmental effects. The resource expansion analysis utilized Commission-approved environmental externality prices and considered expected costs for mercury and SO2 allowances when computing the least-cost plan. Additionally, wind resources and demand-side management ("DSM") programs were analyzed during the analysis of resource expansion alternatives.

METHODOLOGY

The Analysis was comprised of two primary components, which are summarized below and documented more fully in the following sections of the report.

LOAD FORECAST

A forecast of peak load and net energy requirements for the Big Stone II Members was developed for a 20 year period, beginning fiscal year 2006 through 2025. The load forecast utilized generally-accepted electric utility industry practices to develop separate projections of net energy load for each of the Big Stone II Members. Historical data and forecasts of major economic indicators such as population, gross domestic product, retail sales, and personal income for the Minnesota counties of the Big Stone II Members were combined with historical heating and cooling degree-day weather indicators and projections of normal weather conditions to develop the annual projections. These annual NEL projections were assessed in the context of other historical information on annual peak demands and monthly and hourly loads to develop projections of monthly energy and peak demands and a coincident peak demand forecast for the Big Stone II Members.

RESOURCE EXPANSION ANALYSIS

A resource expansion analysis was performed using the dynamic programming optimization feature of New Energy Associates' Strategist® software package.

Potential resource plans developed in the Strategist software were ranked based on the present value total generation production costs and incremental fixed O&M and capital costs for new resource additions. Present value costs were computed over a 25 year planning horizon (2011 through 2035, the "Planning Period"), with end effects being computed for an additional thirty years beyond the Planning Period. Unless currently scheduled for retirement, the existing Big Stone II Member resources were assumed to remain available over the Planning Period. Generic generating resources and the Big Stone II Member portion of the Big Stone Unit II were modeled and made available for Strategist to select from when meeting future capacity and energy requirements.

PRINCIPAL CONSIDERATIONS

In preparing the Analysis, as summarized in this report, we have made certain assumptions with respect to conditions that may occur in the future. These assumptions primarily relate to economic, demographic, weather, commodity price, and costs conditions. With regard to certain of these factors, we have relied upon information provided to us or prepared by others. While we believe the assumptions made by us in preparing the Analysis are reasonable for the purposes of the forecast and projections herein, they are dependent on future events, and actual conditions may differ from those assumed. While we believe the sources of the information provided to us, or prepared by others, to be reliable and the use of such information to be reasonable for the purposes of the forecast and projections herein, we offer no other assurances with respect thereto.

To the extent that economic, demographic, weather, commodity price, costs, or other conditions occur that are different from those assumed by us or from the information provided to us or prepared by others, actual events can be expected to vary from the forecast and projections herein. It should be emphasized that the confidence associated with any forecast varies inversely with the length of the forecast horizon. The probability of other factors affecting forecasted values increases with uncertainty about future developments; this uncertainty increases with the length of the forecast horizon. With this in mind, the Analysis should be seen as providing reasonable estimates of future demand events for the purposes for which the Analysis is intended; which estimates are subject to the future effects of factors that cannot be reasonably foreseen at this time.

Section 2
LOAD FORECAST

OVERVIEW

R. W. Beck has prepared a forecast of peak load and net energy requirements for the Big Stone II Members ("2006 Load Forecast"). A load forecast is a critical input to many utility processes including, but not limited to, generation resource planning, fuel and purchased power budgeting, transmission planning, and financial planning and budgeting. In addition, this forecast constitutes a critical part of Resource Expansion Analysis and Certificate of Need filings of CMMPA in support of the Big Stone II Project. Consequently, a rigorous forecasting process which relies on recognized standards of practice, high quality data, and a thorough review of results by various parties is essential to operations and long-term planning.

The 2006 Load Forecast has been prepared for a 20 year period, beginning fiscal year 2006 through 2025. The Forecast relies on annual, monthly, and hourly load data that were obtained from CMMPA staff and supplemented by Energy Information Administration Form 861 records. Historical and projected economic and demographic data for the counties that surround the Big Stone II Members were provided by Economy.com, a nationally-recognized provider of such data. Beck has also relied on CMMPA staff for information regarding local economic developments and other issues specific to each Big Stone II Member. Weather data was provided by the National Oceanic and Atmospheric Administration ("NOAA") for the Minneapolis-St. Paul airport weather station, a National Weather Service office in close proximity to all of the Big Stone II Members.

The results of the Forecast imply that the total energy requirements of the Big Stone II Members is expected to grow at an annual average rate of 1.6 percent from 2006-2015 and 1.4 percent from 2016-2025. On a normal weather basis, the projected total energy requirements and coincident peak for 2006 are 770 GWh and 162.9 MW, respectively. The aggregate coincident peak of the Big Stone II Members typically occurs in the summer, and more often in July than other summer months.

FORECAST METHODOLOGY

The 2006 Load Forecast relies on a bottoms-up approach in which forecasts of the Big Stone II Members are prepared independently and summed to represent the total of the Big Stone II Members. The following sections provide some detail regarding the analytical steps and calculations that were involved in producing the results.

Forecast of Energy Requirements

A forecast of the annual energy requirements of each Big Stone II Member was developed based on an econometric model that generally utilized historical data over the period 1990 through2005. All other forecasted load determinants (e.g., monthly energy requirements, monthly and annual peak demand, etc.) are derived from annual energy requirements. Thus, annual energy requirements are the only directly-forecasted load determinant.

Econometric forecasting makes use of regression to establish historical relationships between energy consumption and various explanatory variables based on fundamental economic theory and experience. In this approach, the significance of historical relationships and validity of resulting models are evaluated using commonly accepted statistical measures and tests (e.g., standard error, adjusted R-squared, Schwarz Information Criterion, LJung-Box test, etc.). Models that, in the view of the analyst, best explain the historical variation of energy consumption are selected. These historical relationships are generally assumed to continue into the future, barring any specific information or assumptions to the contrary. The selected models are then combined with projections of the explanatory variables, resulting in a projection of energy requirements.

Econometric forecasting can be a more reliable technique for long-term forecasting than trend-based approaches and other techniques, because the approach results in an explanation of variations in load rather than simply an extrapolation of history. As a result of this approach, utilities are better able to anticipate departures from historical trends in energy consumption, given accurate projections of the driving variables. In addition, understanding the underlying relationships which affect energy consumption allows utilities to perform scenario and risk analyses, thereby improving decisions.

Econometric modeling was not done nor were forecasts developed at the retail sales level for the Big Stone II Members as data of sufficient detail or of a sufficiently lengthy historical period were not available for such an analysis. In addition, it was felt that any available data was unlikely to be of a high enough quality to support a rigorous analysis.

Similarly, although R. W. Beck recognizes that the price of electricity and of alternative fuels may have an impact on electric usage, data was not sufficiently available to support an extension of the econometric models in that regard. Moreover, any impact that might occur from potentially higher electricity prices are believed to be small and to occur over a long period, such that the forecast would be unlikely to be affected significantly.

Model Specification

The general form of the regression equations used in the 2006 Forecast is typically referred to as a double-log transform. In this functional form, the dependent variable is the natural log of the series of interest, in this case energy requirements for each of the Big Stone II Members, expressed as a function of the natural log of some or all of the explanatory variables. This formulation accomplishes three objectives:

1. It allows for the multiplicative combination of factors that tend to affect electric usage in an interactive way (e.g., the amount of living area under space conditioning and ambient temperature),
2. It guarantees constant elasticity (defined below) through time, and
3. It allows for a direct comparison of model parameters among segments of the study and against economic theory (e.g., price elasticity of demand is typically between 0 and -1, or inelastic).

Elasticity is measured by the percentage change in the variable being explained (e.g., energy requirements) that results from a one percentage change in the value of a given explanatory variable. Elasticities represent useful shorthand for understanding the impact of the external variables on energy requirements and are directly comparable among the Big Stone II Members. For example, the model coefficient on cooling degree days should be similar among the Big Stone II Members. Significant variations in the weather coefficients should be a function of differences in customer characteristics for the most part and/or may alert the forecast analyst to data quality issues.

Frequently, theory or evidence does not support constant elasticity across the range of values for an explanatory variable. In those cases, however, an effort should be made to explicitly derive a relationship that is consistent with theory and fits the data well. The double-log transform sometimes results in an improvement in load forecasting equations simply by avoiding the potential problem of instability in the estimated impact of explanatory variables across time due to the fact that electric load typically grows through time. Coefficients on weather variables in a strictly linear model, for example, may tend to under-represent the influence of weather as load grows.

Table 2-1 below shows the variables used and the estimated parameter of each variable in the forecast model of each Big Stone II Member's energy requirements, where:

GDP = gross domestic product in the county surrounding the Member

PY = total personal income in the county surrounding the Member

RETSAL = total retail sales in the county surrounding the Member

CDD = cooling degree days for the Minneapolis-St. Paul airport

HDD = heating degree days for the Minneapolis-St. Paul airport

Year>2004 = a binary variable set to 0 for 1990-2003 and 1 for 2004

AR(1) = an auto-regressive term providing a correction factor based on prior-year model residuals.

Table 2-1: Summary of Estimated Forecast Model Parameters for Big Stone II Members

	Estimated Parameters						
				x10^{-5} [1]			
Member	GDP	PY	Retail Sales	CDD	HDD	Year > 2003	AR(1)
Blue Earth	0.52			8.57	2 60		
Delano			0.95	7.57			
Fairfax	0.16			2.73	5.35		
Glencoe		1.15		10.74	3.05	(0.12)	
Granite Falls		0.34		8.99	1.68		
Janesville			0.70	15.60			
Kasson		1 21		11.47	5.39		
Kenyon		1.13		8.86	2.34		0.57
Mountain Lake	0.84			34.03			
Sleepy Eye	0.49			8.91	1.44		
Springfield			0.60	13.92		0.06	
Willmar		1 01		6.59	3.52		
Windom	0.28			7.68			0.87

[1] Weather coefficients reflect the estimated percentage change in energy requirements from a one point change in degree days rather than from a percentage change in degree days.

The economic variable used in each model was chosen on the basis of the best statistical results, as measured by adjusted R-squared and Schwarz Information Criterion, and the most sensible resulting forecast, in consultation with CMMPA staff. The binary variable above, YEAR>2003, was added in the case of Glencoe to account for the loss of a major industry in 2004 and in the case of Springfield to account for an increase in energy requirements that could not be accounted for by other variables. While the use of such an adjustment is somewhat ad hoc, it should be recognized that the forecast team had very little information regarding the activity of large industrial customers that make up a large portion of the retail load of some Big Stone II Members. In addition, the economic data on which these models are estimated are subject to potentially large revisions on a significantly lagged basis, up to 5 years or more. Hence, late-period residuals can be caused by inaccurate estimates of the economic data during those periods.

In the case of Mountain Lake, the forecast reflects an upward adjustment in the level of energy requirements throughout the forecast horizon to avoid a large negative differential between the last historical data point and the forecast. This differential is due to the impact of weather normalization and the abnormally large coefficient on cooling degree days (shown in the table above), as the last historical year has significantly higher cooling degree days than normal. While there may be higher cooling load on Mountain Lake's system as a result of some industry with refrigeration requirements, for example, it was felt that the abnormally large coefficient was more likely a function of the timing of residuals associated with the city's small size and relatively large industrial load.

Appendix A contains the model estimation output for each of the Big Stone II Members. These tables are preceded by a key defining abbreviation and variable name conventions used throughout the appendix. The energy requirements data and explanatory variables are shown in detail in Figures 2-1 and 2-2 and Tables 2-2 through 2-8, which are located at the end of this section. In addition, Appendix B

contains the full detail of net energy for load and peak demand forecast results by individual Big Stone II members.

Projection of Monthly Peak Demand

Projections of summer and winter non-coincident peak ("NCP") demand for each Big Stone II Member were developed by applying projected annual load factors to forecasted energy requirements. The projected load factors are generally based on the average relationship between annual energy requirements and the seasonal peak demand generally over the period 1996-2005 (i.e., a 10-year average).

Monthly peak demand is based on the average relationship between each monthly peak and the appropriate seasonal peak. This average relationship was computed after ranking the historical demand data within the summer and winter seasons and reassigning peak demands to each month based on the typical ranking of that month compared to the seasonal peak. This process avoids distortion of the averages due to randomness as to the months in which peak weather conditions occur within each season. For example, a summer peak period can occur during July or August of any year. It is important that the shape of the peak demands reflects that only one of those two months is the peak month and that the other is typically some percentage less.

Each Big Stone II Members' contribution to the total peak demand of the aggregate Big Stone II Members' load (i.e., coincident peak demand) were derived from monthly NCP demand and assumed coincidence factors generally based on an average of such factors over a 5-year period (2001-2005). These historical coincidence factors are based on coincident peak demand data that was computed from hourly load data maintained by CMMPA. Hourly load data was not available prior to 2001. As a result, coincident peak demand and coincidence factor data was not available prior to 2001 to allow for a longer period of averaging of such factors.

DATA SOURCES

Historical Member Load Data

Historical annual energy requirements and summer and winter NCP demand were obtained from Energy Information Administration Form 861 reports for the period 1990-2004. Data for 2005 was obtained from CMMPA. Separate data on monthly energy requirements and peak demand was also obtained from CMMPA and was generally based on hourly load data maintained by CMMPA, supplemented in some cases by data provided by the Members. Given that the hourly load data was based on a SCADA system and was impacted in some cases by generation behind the metering point, this data was not used to forecast annual energy requirements and summer and winter NCP demand. Instead, it was only used to develop the monthly profile of energy requirements and peak demand. In addition, the hourly load data was analyzed and adjusted to correct for large deviations from sensible daily load patterns via the use of proxy historical daily profiles for days with similar weather conditions.

Weather Data

Historical weather data was obtained from the National Oceanic and Atmospheric Administration for Minneapolis-St. Paul airport, a National Weather Service office in close proximity to all of the Big Stone II Members. Projected weather conditions are based on normal heating and cooling degree days most recently published by NOAA, which generally reflect average weather conditions over 1971-2000. Appendix C contains a table and a graphic showing historical and normal annual HDD and CDD used in the Forecast.

Economic Data

Economy.com, a nationally recognized provider of economic data, provided both historical and projected economic and demographic data. The data relied on includes economic and demographic data for the 11 counties in which the Big Stone II Members' service territories reside. These data include population, households, employment by major industry classification, personal income in total and by source, retail sales, and gross domestic product. Although all data was not necessarily utilized in each of the forecast equations, each was examined for its potential to explain variations in each Big Stone II Member's energy requirements.

Appendix D contains tables that provide the economic data relied on for this forecast, as well as representative growth rate statistics. A table is provided for each of the 13 Big Stone II Members, with the Member and county name shown at the top, but two of the tables are essentially duplicates as two of the Big Stone II Members reside in the same county.

PRINCIPAL CONSIDERATIONS AND ASSUMPTIONS

The development of the 2006 Load Forecast was based upon the following principal consideration and assumptions:

- The service territories of the Big Stone II Members will continue to experience moderate economic growth in a relatively stable economy.
- The future influence on energy requirements of the economic, demographic, and weather factors, on which the econometric models are based, was assumed to be similar to the estimated influence of such factors generally over the period 1990 through 2005.
- Although the econometric models implicitly account for the historical relationships between energy usage and the following factors to the extent they have occurred in the past, the 2006 Load Forecast does not explicitly reflect extraordinary potential future effects of: (a) increases in appliance design efficiency or building insulation standards; (b) development of substitute energy sources; (c) consumers switching to traditional or new types of electrical appliances from other alternatives (e.g., electric vehicles); (d) consumers switching from electrical appliances to other alternatives; or (e) variations in load that might result from legal, legislative, regulatory, or policy actions.

- To the extent the Big Stone II Members have affected their load characteristics or growth through load management, conservation, rate setting, or economic development programs in the recent past, such effects are implicitly reflected in these results based on the modeling techniques used in the 2006 Load Forecast. However, we have not assumed or modeled any additional impacts of existing or new load control or load enhancement programs.
- The recent average historical relationships between annual summer and winter non-coincident demands and annual energy requirements and between monthly NCP demands and annual winter and summer NCP demands were assumed to represent reasonable approximations of such future relationships.

Figure 2-1: Historical and Projected Net Energy for Load

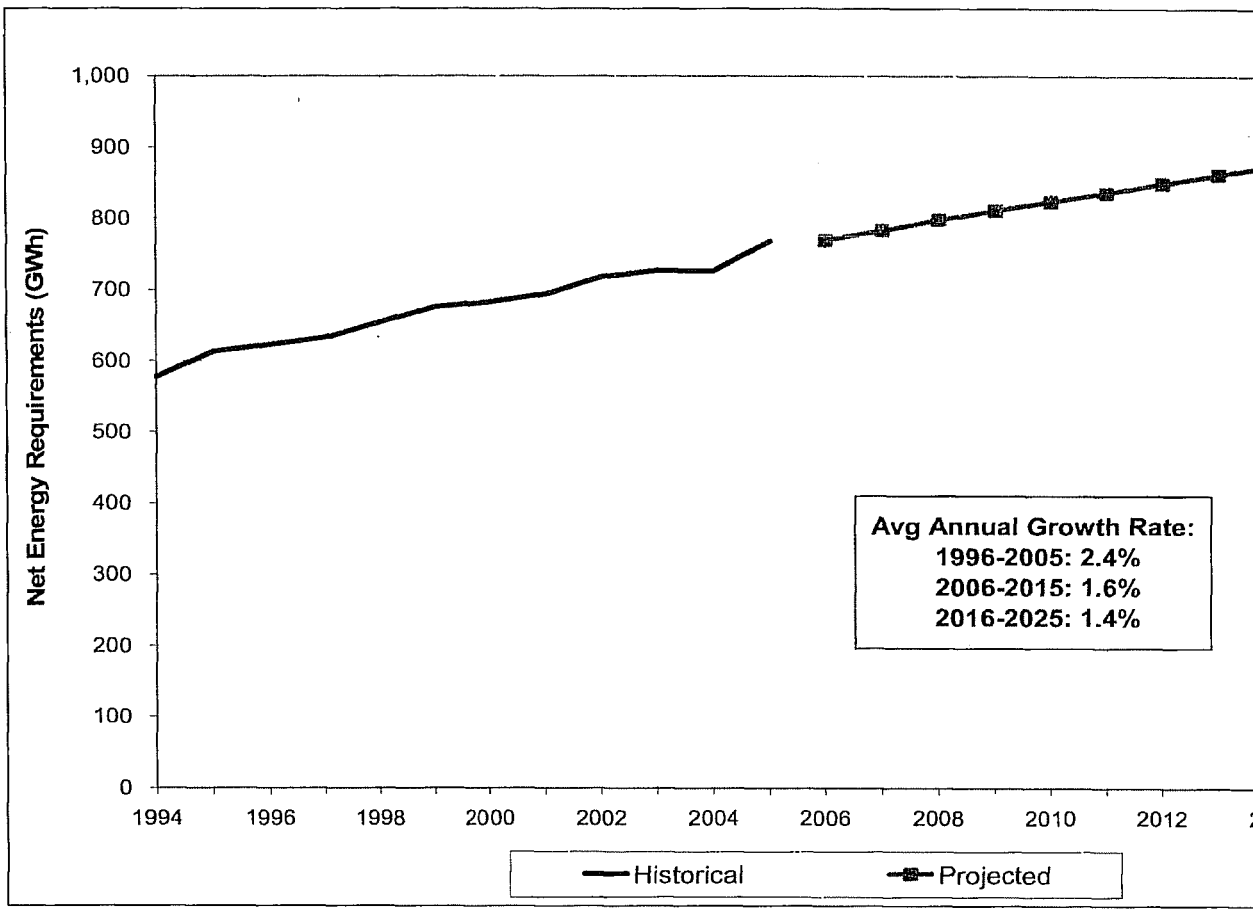


Figure 2-2: Historical and Projected Coincident-Peak Demand

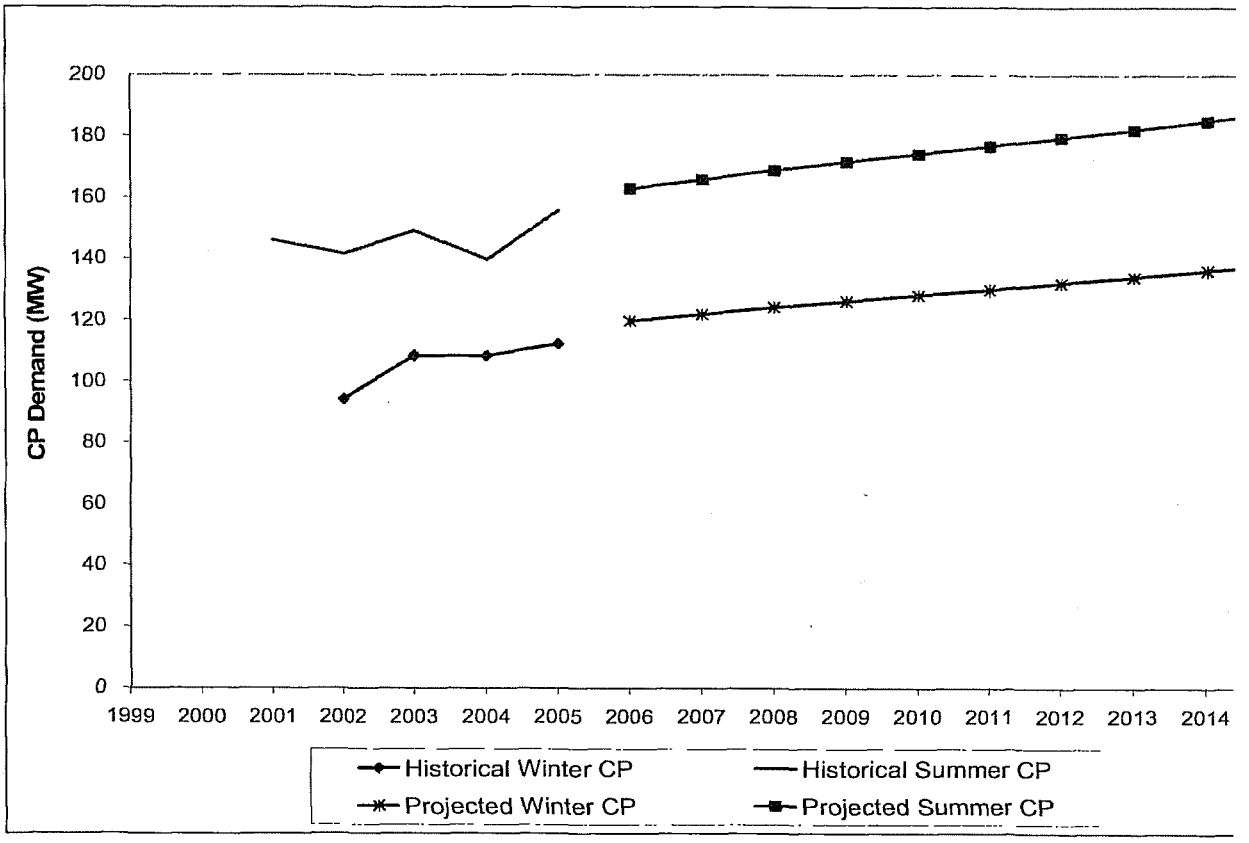


Table 2-2: Historical and Projected Total Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						Coincident Pea			
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)	Percent Change	Load Factor	S
Historical	1996	622,946	-	617,996	-	-0 8%	105 9	-	67 1%	139 8	-	50 9%	N/A	-	N/A	
	1997	632,123	1 5%	635,270	2 8%	0 5%	103 9	-1 9%	69 5%	141 9	1 5%	50 8%	N/A	N/A	N/A	
	1998	654,282	3 5%	672,778	5 9%	2 8%	108 9	4 8%	68 6%	150 0	5 7%	49 8%	N/A	N/A	N/A	
	1999	675,672	3 3%	689,436	2 5%	2 0%	109 7	0 8%	70 3%	156 5	4 3%	49 3%	N/A	N/A	N/A	
	2000	682,841	1 1%	690,464	0 1%	1 1%	113 7	3 6%	68 6%	150 3	-3 9%	51 9%	N/A	N/A	N/A	
	2001	693,711	1 6%	693,422	0 4%	0 0%	114 1	0 4%	69 4%	163 4	8 7%	48 5%	N/A	N/A	N/A	
	2002	717,929	3 5%	708,678	2 2%	-1 3%	110 8	-2 9%	73 9%	159 9	-2 2%	51 3%	94 2	N/A	87 0%	
	2003	727,173	1 3%	722,673	2 0%	-0 6%	113 1	2 1%	73 4%	164 7	3 0%	50 4%	108 5	15 2%	76 5%	
	2004	726,518	-0 1%	744,531	3 0%	2 5%	114 4	1 2%	72 5%	158 1	-4 0%	52 5%	108 5	0 0%	76 4%	
	2005	768,482	5 8%	765,923	2 9%	-0 3%	118 6	3 6%	74 0%	163 5	3 4%	53 7%	112 4	3 6%	78 0%	
Projected	2006	769,811	0 2%	769,811	0 5%		123 3	4 0%	71 3%	169 6	3 7%	51 8%	119 9	6 6%	73 3%	
	2007	783,689	1 8%	783,689	1 8%		125 5	1 8%	71 3%	172 6	1 8%	51 8%	122 0	1 8%	73 3%	
	2008	798,434	1 9%	798,434	1 9%		127 9	1 9%	71 3%	175 8	1 8%	51 9%	124 3	1 9%	73 3%	
	2009	811,734	1 7%	811,734	1 7%		130 0	1 7%	71 3%	178 7	1 6%	51 9%	126 4	1 7%	73 3%	
	2010	824,033	1 5%	824,033	1 5%		132 0	1 5%	71 3%	181 3	1 5%	51 9%	128 3	1 5%	73 3%	
	2011	836,221	1 5%	836,221	1 5%		134 0	1 5%	71 3%	184 0	1 5%	51 9%	130 2	1 5%	73 3%	
	2012	849,063	1 5%	849,063	1 5%		136 0	1 5%	71 3%	186 8	1 5%	51 9%	132 2	1 5%	73 3%	
	2013	861,892	1 5%	861,892	1 5%		138 1	1 5%	71 3%	189 6	1 5%	51 9%	134 2	1 5%	73 3%	
	2014	875,488	1 6%	875,488	1 6%		140 2	1 6%	71 3%	192 6	1 6%	51 9%	136 3	1 6%	73 3%	
	2015	888,468	1 5%	888,468	1 5%		142 3	1 5%	71 3%	195 4	1 5%	51 9%	138 4	1 5%	73 3%	
	2016	901,220	1 4%	901,220	1 4%		144 3	1 4%	71 3%	198 2	1 4%	51 9%	140 3	1 4%	73 3%	
	2017	914,102	1 4%	914,102	1 4%		146 4	1 4%	71 3%	201 0	1 4%	51 9%	142 3	1 4%	73 3%	
	2018	926,916	1 4%	926,916	1 4%		148 4	1 4%	71 3%	203 7	1 4%	51 9%	144 3	1 4%	73 3%	
	2019	939,398	1 3%	939,398	1 3%		150 4	1 3%	71 3%	206 4	1 3%	51 9%	146 3	1 3%	73 3%	
	2020	952,032	1 3%	952,032	1 3%		152 4	1 3%	71 3%	209 2	1 3%	52 0%	148 2	1 3%	73 3%	
	2021	964,837	1 3%	964,837	1 3%		154 4	1 3%	71 3%	212 0	1 3%	52 0%	150 2	1 3%	73 3%	
	2022	977,989	1 4%	977,989	1 4%		156 5	1 3%	71 3%	214 8	1 3%	52 0%	152 3	1 4%	73 3%	
	2023	991,419	1 4%	991,419	1 4%		158 6	1 4%	71 4%	217 7	1 4%	52 0%	154 4	1 4%	73 3%	
	2024	1,004,730	1 3%	1,004,730	1 3%		160 7	1 3%	71 4%	220 6	1 3%	52 0%	156 4	1 3%	73 3%	
	2025	1,018,182	1 3%	1,018,182	1 3%		162 9	1 3%	71 4%	223 5	1 3%	52 0%	158 5	1 3%	73 3%	
AAGR	Thru 2005		2 4%		2 4%			1 3%	70 7%		1 8%	50 9%		6 1%	N/A	
	2006-2015		1 6%		1 6%			1 6%	71 3%		1 6%	51 9%		1 6%	73 3%	
	2016-2025		1 4%		1 4%			1 4%	71 3%		1 3%	52 0%		1 4%	73 3%	

Table 2-3: Total Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical	1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2004	63,192	57,587	57,671	51,948	54,008	59,376	69,707	64,628	65,872	60,277	58,622	63,631
	2005	64,272	54,827	60,413	54,738	56,670	68,763	77,594	75,967	68,546	60,075	59,606	67,011
Projected	2006	64,872	57,584	60,891	55,437	57,009	65,591	77,659	75,392	67,295	61,742	60,451	65,889
	2007	66,051	58,634	61,990	56,450	58,041	66,770	79,052	76,737	68,494	62,849	61,538	67,083
	2008	67,305	59,750	63,160	57,529	59,141	68,024	80,528	78,157	69,761	64,029	62,696	68,353
	2009	68,438	60,758	64,216	58,501	60,132	69,155	81,861	79,436	70,901	65,094	63,741	69,502
	2010	69,485	61,690	65,192	59,401	61,050	70,200	83,092	80,617	71,954	66,079	64,708	70,565
	2011	70,521	62,612	66,158	60,291	61,957	71,236	84,314	81,795	73,004	67,053	65,664	71,615
	2012	71,610	63,581	67,174	61,226	62,910	72,327	85,604	83,045	74,120	68,077	66,669	72,720
	2013	72,698	64,549	68,190	62,161	63,864	73,416	86,892	84,293	75,233	69,099	67,673	73,823
	2014	73,853	65,577	69,268	63,153	64,876	74,571	88,253	85,613	76,409	70,183	68,739	74,993
	2015	74,955	66,560	70,298	64,101	65,843	75,672	89,551	86,871	77,529	71,218	69,757	76,111
Projected	2016	76,038	67,525	71,311	65,033	66,793	76,755	90,826	88,107	78,630	72,235	70,758	77,209
	2017	77,132	68,500	72,333	65,975	67,753	77,848	92,114	89,354	79,740	73,263	71,769	78,319
	2018	78,222	69,471	73,352	66,912	68,709	78,936	93,394	90,593	80,843	74,285	72,776	79,423
	2019	79,283	70,418	74,344	67,826	69,640	79,994	94,640	91,801	81,917	75,280	73,757	80,500
	2020	80,357	71,376	75,350	68,750	70,582	81,065	95,900	93,023	83,004	76,286	74,750	81,590
	2021	81,446	72,347	76,369	69,687	71,538	82,151	97,177	94,261	84,105	77,306	75,756	82,694
	2022	82,564	73,344	77,415	70,650	72,519	83,266	98,488	95,534	85,237	78,354	76,790	83,828
	2023	83,706	74,362	78,483	71,632	73,521	84,405	99,828	96,833	86,392	79,424	77,845	84,986
	2024	84,838	75,372	79,543	72,607	74,515	85,533	101,154	98,119	87,536	80,485	78,892	86,134
	2025	85,982	76,393	80,614	73,592	75,519	86,674	102,494	99,419	88,691	81,557	79,951	87,295

Table 2-4: Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Historical	1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2004	8.7%	7.9%	7 9%	7.2%	7.4%	8 2%	9 6%	8.9%	9.1%	8.3%	8 1%
	2005	8 4%	7 1%	7 9%	7 1%	7 4%	8 9%	10 1%	9 9%	8 9%	7 8%	7 8%
Projected	2006	8.4%	7.5%	7 9%	7.2%	7 4%	8 5%	10 1%	9 8%	8.7%	8.0%	7.9%
	2007	8 4%	7 5%	7 9%	7 2%	7 4%	8 5%	10.1%	9 8%	8 7%	8.0%	7 9%
	2008	8.4%	7 5%	7.9%	7 2%	7 4%	8 5%	10.1%	9 8%	8 7%	8 0%	7 9%
	2009	8.4%	7 5%	7.9%	7 2%	7 4%	8.5%	10 1%	9.8%	8 7%	8 0%	7 9%
	2010	8.4%	7 5%	7 9%	7 2%	7 4%	8.5%	10 1%	9.8%	8.7%	8 0%	7 9%
	2011	8 4%	7.5%	7 9%	7 2%	7.4%	8 5%	10.1%	9.8%	8 7%	8.0%	7 9%
	2012	8.4%	7 5%	7 9%	7.2%	7.4%	8 5%	10 1%	9 8%	8.7%	8.0%	7 9%
	2013	8.4%	7 5%	7 9%	7 2%	7 4%	8 5%	10 1%	9 8%	8 7%	8.0%	7.9%
	2014	8.4%	7.5%	7.9%	7 2%	7 4%	8 5%	10.1%	9 8%	8.7%	8 0%	7.9%
	2015	8 4%	7.5%	7 9%	7 2%	7 4%	8 5%	10.1%	9 8%	8.7%	8 0%	7 9%
Avg.	1996-2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2006-2015	8.4%	7 5%	7 9%	7 2%	7 4%	8 5%	10 1%	9.8%	8.7%	8.0%	7 9%

Table 2-5: Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical	1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2003	112.1	113 1	108 6	106.9	105 7	140 7	150 2	164.7	142.0	116 5	109 4	114 4
	2004	114 3	111 0	105.7	108.0	108 5	142.3	158 1	145 9	151 3	117 1	109 6	118 6
	2005	116 3	111 2	106 5	105 0	105 3	158.2	160 1	163 5	144 2	120 2	113 7	122.5
Projected	2006	123 3	119.4	114 1	109 9	115 6	155 3	169 6	162 7	151 4	122.9	119.3	124.0
	2007	125 5	121.6	116 2	111.9	117.7	158.1	172.6	165 7	154 1	125 1	121.6	126.3
	2008	127.9	123.9	118.4	114 0	120.0	161 0	175.8	168.7	157 0	127.5	123.6	128.5
	2009	130.0	125.9	120.4	116.0	122.0	163 7	178.7	171.5	159 5	129.6	125 5	130.4
	2010	132.0	127.9	122.2	117.7	123.8	166 1	181 3	174.1	161.9	131 6	127.4	132 3
	2011	134.0	129 7	124 0	119 5	125 7	168 6	184 0	176.6	164.3	133 5	129 3	134 4
	2012	136 0	131 7	125.9	121 3	127.6	171 1	186 8	179.4	166 8	135 5	131 2	136 4
	2013	138 1	133 7	127 8	123 2	129.5	173.7	189.6	182 1	169 4	137 6	133 3	138 5
	2014	140.2	135.8	129 8	125 1	131 6	176 4	192.6	184 9	172 0	139.7	135.3	140.5
	2015	142.3	137 8	131 7	127.0	133 5	178 9	195 4	187 6	174.5	141.8	137 2	142 5
Projected	2016	144.3	139 8	133 6	128.8	135.4	181.5	198.2	190.3	177.0	143 8	139 1	144 5
	2017	146.4	141.8	135.5	130 6	137.3	184.0	201 0	193 0	179.5	145 9	141.1	146.6
	2018	148.4	143 7	137 4	132.4	139 2	186 6	203.7	195 6	182 0	147.9	143 0	148.5
	2019	150.4	145.7	139 3	134.2	141 1	189 0	206.4	198.2	184.4	149.9	144 9	150 5
	2020	152.4	147 6	141 1	136 0	143.0	191.5	209.2	200.9	186.8	151 9	146 8	152 5
	2021	154 4	149 6	143 0	137 9	144.9	194 0	212.0	203 5	189.3	153.9	148.8	154.5
	2022	156.5	151.6	145 0	139.7	146.9	196 6	214.8	206.3	191 9	156.0	150.8	156 6
	2023	158 6	153 7	146 9	141.6	148 9	199 3	217 7	209.1	194 5	158.1	152 8	158 7
	2024	160 7	155 8	148 9	143 5	150.8	201.9	220 6	211 8	197 0	160 2	154 8	160 8
	2025	162.9	157 8	150 9	145 5	152 8	204 6	223.5	214 6	199 6	162 3	156 9	162.9

Table 2-6: Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical	1996												
	1997												
	1998												
	1999												
	2000												
	2001												
	2002												
	2003												
	2004	74.3%	74 5%	73 3%	66 8%	66 9%	58 0%	59.3%	59 5%	60 5%	69 2%	74.3%	72 1
	2005	74 3%	73 4%	76 3%	72 4%	72 3%	60 4%	65 1%	62 5%	66 0%	67 2%	72.8%	73 5
Projected	2006	70 7%	71 7%	71 7%	70.0%	66 3%	58.6%	61 6%	62.3%	61.7%	67 5%	70.4%	71 4
	2007	70 7%	71.8%	71 7%	70.1%	66.3%	58.7%	61 6%	62 3%	61.7%	67.5%	70 3%	71 4
	2008	70.7%	69.3%	71 7%	70.1%	66 3%	58 7%	61 6%	62.3%	61.7%	67.5%	70.4%	71.5
	2009	70.7%	71 8%	71.7%	70.1%	66 3%	58 7%	61.6%	62 2%	61 7%	67 5%	70.5%	71.6
	2010	70.7%	71 8%	71.7%	70 1%	66 3%	58.7%	61.6%	62.2%	61 7%	67 5%	70.6%	71 7
	2011	70 8%	71 8%	71 7%	70 1%	66 3%	58.7%	61 6%	62 2%	61 7%	67 5%	70 5%	71 6
	2012	70 8%	69 4%	71.7%	70 1%	66 3%	58 7%	61 6%	62 2%	61 7%	67 5%	70 6%	71 7
	2013	70.8%	71 8%	71 7%	70.1%	66.3%	58 7%	61.6%	62 2%	61.7%	67 5%	70.5%	71.6
	2014	70.8%	71.9%	71 7%	70.1%	66.3%	58 7%	61 6%	62 2%	61.7%	67 5%	70 6%	71.7
	2015	70.8%	71 9%	71.7%	70 1%	66 3%	58 7%	61 6%	62.2%	61.7%	67 5%	70.6%	71 8
Avg.	1996-2005	74 3%	73 9%	74 8%	69 6%	69.6%	59 2%	62.2%	61 0%	63 2%	68 2%	73 6%	72.8
	2006-2015	70 8%	71 3%	71 7%	70.1%	66.3%	58.7%	61 6%	62 2%	61 7%	67 5%	70 5%	71 6

Table 2-7: Monthly Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical	1996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	1997	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	1999	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
	2001	N/A	N/A	N/A	N/A	91.9	122.0	137 8	146.2	120 7	90.0	92 4	92
	2002	94 2	91 1	91.3	97 1	106.5	132.5	141.6	130.1	137 8	90 5	95.5	98.
	2003	106.4	108 5	104.6	102 1	100 5	133 4	136 2	149 2	136 4	105 1	99 7	106.
	2004	108.5	104 7	95 9	95.9	100 0	128.0	139 8	137.8	139.1	104 7	96 6	110.
	2005	112.4	106 2	102 4	101.6	101 8	153.3	150 8	155 8	137 0	112.5	108 7	119
Projected	2006	119.9	115 9	110 9	106 7	113.1	148 9	162.9	157.7	147 9	118 1	116 3	121
	2007	122 0	118.0	113 0	108 6	115.1	151 5	165.9	160 5	150.5	120.2	118.5	124.
	2008	124 3	120.2	115.1	110 7	117 3	154.4	168.9	163 5	153.3	122 4	120.5	126.
	2009	126 4	122.2	117 0	112.6	119 3	156.9	171 7	166.2	155 9	124 5	122.3	128.
	2010	128.3	124 1	118 8	114 3	121.1	159 2	174.3	168 7	158 2	126.4	124 1	129
	2011	130 2	125 9	120 6	116 0	122.9	161 5	176.8	171 2	160.5	128.2	126 0	131
	2012	132 2	127.8	122.5	117.8	124 8	164 0	179 5	173.9	163 0	130 2	127.9	133
	2013	134.2	129.7	124 3	119.6	126 7	166.4	182 3	176 5	165.4	132.2	130.0	135.
	2014	136.3	131 8	126 3	121 5	128 7	169 0	185 1	179 3	168 0	134 3	131 9	138
	2015	138 4	133.7	128 2	123 3	130.6	171 5	187 8	181 9	170.5	136.2	133.8	139.
Projected	2016	140 3	135 7	130.0	125.1	132 5	173 9	190 5	184 5	172.9	138 2	135.7	141.
	2017	142.3	137.6	131 9	126.9	134 4	176 4	193 2	187.1	175.4	140 2	137.6	143.
	2018	144 3	139 5	133 8	128 7	136 3	178.8	195 9	189 7	177 8	142 2	139 4	145
	2019	146.3	141 4	135 6	130 4	138.2	181 2	198.5	192 2	180 1	144.1	141 3	147
	2020	148.2	143.3	137.4	132.2	140.0	183 6	201 2	194 8	182 5	146 0	143 2	149
	2021	150 2	145 3	139 3	133 9	141 9	186 1	203 9	197.4	185.0	148 0	145 1	151
	2022	152 3	147.2	141.2	135.8	143.8	188.6	206.6	200.1	187 4	150.0	147 1	153.
	2023	154.4	149 3	143 2	137 7	145.8	191 2	209.4	202 8	190.0	152 1	149.1	155.
	2024	156 4	151.3	145.1	139.5	147 8	193.7	212 2	205.5	192.5	154 1	151.1	157
	2025	158 5	153 3	147 1	141 4	149 7	196.3	215 0	208 2	195 0	156 2	153 1	160

Table 2-8: Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical	1996												
	1997												
	1998												
	1999												
	2000												
	2001												
	2002												
	2003	94 9%	96 0%	96.3%	95.5%	95 1%	94.8%	90 7%	90.6%	96.0%	90.2%	91 1%	93 3
	2004	94 9%	94 3%	90 7%	88.9%	92 1%	90 0%	88 4%	94.4%	91 9%	89 5%	88 1%	93.2
	2005	96 7%	95 5%	96 2%	96 8%	96 7%	96 9%	94 2%	95 3%	95 0%	93 6%	95.6%	97.1
Projected	2006	97.2%	97.0%	97.2%	97 1%	97.8%	95 8%	96 1%	96 9%	97 7%	96 0%	97.5%	98.1
	2007	97 2%	97 0%	97 2%	97 1%	97 8%	95 8%	96.1%	96 9%	97 7%	96.0%	97 5%	98 1
	2008	97 2%	97.0%	97 2%	97.1%	97.8%	95 9%	96 1%	96.9%	97.7%	96.0%	97 5%	98 1
	2009	97.2%	97 0%	97 2%	97.1%	97 8%	95 8%	96 1%	96.9%	97 7%	96 0%	97 5%	98.1
	2010	97 2%	97 0%	97.2%	97 1%	97.8%	95 8%	96 1%	96 9%	97.7%	96 1%	97 5%	98 1
	2011	97.2%	97 0%	97 3%	97.1%	97 8%	95 8%	96 1%	96 9%	97 7%	96 1%	97.5%	98 1
	2012	97 2%	97.0%	97.3%	97.1%	97 8%	95 8%	96.1%	96.9%	97.7%	96.1%	97 5%	98 2
	2013	97.2%	97 0%	97 3%	97.1%	97 8%	95 8%	96.1%	96.9%	97 7%	96.1%	97.5%	98.2
	2014	97 2%	97 0%	97.3%	97.1%	97 8%	95.8%	96 1%	96 9%	97 7%	96.1%	97 5%	98.2
	2015	97 2%	97 0%	97.3%	97 1%	97 9%	95 9%	96 1%	97.0%	97.7%	96 1%	97 5%	98.2
	1996-2005	95.5%	95 2%	94 4%	93 7%	94.6%	93.9%	91.1%	93 4%	94 3%	91 1%	91.6%	94 5
	2006-2015	97 2%	97.0%	97.2%	97 1%	97.0%	95.8%	96 1%	96 9%	97 7%	96.1%	97.5%	98.1

Note: Errors in the historical CP demand data can result in Participant CP demand greater than NCP demand. In those cases, coincidence factors have be

Section 3
CURRENT RESOURCES AND FUTURE NEEDS

The following discussion provides a description of the Big Stone II Member power supply resources and a comparison to the projected coincident peak demand for the members.

GENERATION RESOURCES

Existing Generating Resources

Existing CMMPA generating resources fall into two categories, those owned by the individual Members and those for which CMMPA is the contracting agency. CMMPA is a project agency and, as such, CMMPA members determine individually which projects to pursue. The City of Willmar also owns its own generating resources. Capacity for project resources owned by CMMPA members that are not part of the Big Stone II Members have been excluded from the information presented herein.

Based on summer ratings, the existing generating capacity owned by the Big Stone II Members totals 153 MW in 2006. The majority of the generating resources are diesel/internal combustion units, with a combined 117 MW of capacity. The Big Stone II Members also own small amounts of combustion turbine, steam turbine, and hydro resources, with combined capacities of 16 MW, 19 MW, and 1 MW, respectively. Additionally, the Big Stone II Members have contracted for a 12.5 MW ownership interest in the Nebraska City 2 resource scheduled to come on line in the spring of 2009.

Purchase Power Resources

The Big Stone II Members rely on various purchase power contracts, as follows.

System Firm Purchases

The Big Stone II Members contract for a combined 30 MW of system-firm capacity and energy, including several hydro purchases from the Western Area Power Administration and two Full Requirements purchases from Northern States Power Company ("NSP").

Firm Purchases

Blue Earth purchases 5 MW from Alliant and Granite Falls purchases approximately 0.6 MW from NSP.

Non-Firm Purchases

Several Big Stone II Members purchase non-firm energy from NSP under various NSP-55 contracts and Sleepy Eye purchases energy and capacity from NSP under an A-15 contract, for which it is required to maintain backup capacity.

Wind Resources

In May 2006, Blue Earth began a 20 year purchase of approximately 2.5 MW of installed capacity from the Blue Breeze Wind Facility. CMMPA also currently purchases 6 MW from the Cedar Falls facility and 6.25 MW from the Wolf Wind Farm. In addition, CMMPA is scheduled to purchase 10 MW from the Jeffries Wind Energy Center beginning in 2007. Because CMMPA has purchased wind energy and capacity for the benefit of all of its members, the values presented in the following tables have been prorated to reflect the load ratio share of the Big Stone II Members only.

Of the approximately 17.5 MW of wind capacity that is under contract by the Big Stone II Members, approximately 3 MW is assumed to be available to help meet the summer peak demand of the Big Stone II Participants. The level of firm capacity assumed for wind resources is based on wind resource generation patterns estimated for these facilities and applying the capacity accreditation procedures proposed by MAPP for wind resources. Wind generating patterns assumed for this analysis were developed and provided by Global Energy Concepts, LLC, an internationally recognized wind energy engineering firm located in Seattle, Washington.

Capacity Ratings

For the purposes of this analysis, all capacity owned or contracted by the Big Stone II Members, regardless of current accreditation status, was assumed to be available to meet the planning requirements of the members. Capacity ratings were derived from available EIA 411 reports, URGE testing reports, and information provided by the Big Stone II Members. Table 3-1 contains a listing of capacity ratings for all Big Stone II Member generating resources, while Table 3-2 contains a listing of purchase power resource for the Big Stone II Members.

Table 3-1: CMMPA Generating Resources

Line No.	Owner	Generating Station / Unit	Unit Type	Primary Fuel Type	Generator Nameplate Rating (KW)	Net Capacity - KW Summer	Net Capacity - KW Winter	Commercial In Service Date
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Blue Earth	Unit No 1	IC	Diesel	1,500	1,500	1,500	1960
2	Blue Earth	Unit No 3	IC	Diesel	1,600	1,600	1,600	1993
3	Blue Earth	Unit No 4	IC	Diesel	1,600	1,600	1,600	1993
4	Blue Earth	Unit No 5	IC	Diesel	1,600	1,600	1,600	1993
5	Blue Earth	Unit No 6	IC	Diesel	1,825	1,825	1,825	1996
6	Delano	Unit No 1	IC	Diesel	840	830	830	1951
7	Delano	Unit No 2	IC	Diesel	3,125	2,880	2,880	1972
8	Delano	Unit No 3	IC	Diesel	1,136	1,170	1,170	1973
9	Delano	Unit No 4	IC	Diesel	1,140	1,170	1,170	1946
10	Delano	Unit No 5	IC	Diesel	1,365	1,350	1,350	1989
11	Delano	Unit No 6	IC	Diesel	1,250	1,050	1,050	1994
12	Delano	Unit No 7	IC	Diesel	3,000	3,750	3,750	1999
13	Delano	Unit No 9	CT	No 2 Oil	12,500	13,300	13,300	2002
14	Fairfax	Unit No 2a	IC	Diesel	1,800	1,800	1,800	2001
15	Glencoe	Unit No 5	IC	Diesel	1,000	1,000	1,000	1957
16	Glencoe	Unit No 6	IC	Diesel	1,000	1,000	1,000	1961
17	Glencoe	Unit No 7	IC	Diesel	3,500	3,500	3,500	1966
18	Glencoe	Unit No 8	IC	Diesel	5,500	5,600	5,600	1969
19	Glencoe	Unit No 9	IC	Diesel	6,400	6,400	6,400	1973
20	Glencoe	Unit No 10	IC	Diesel	7,000	7,000	7,000	1985
21	Glencoe	Unit No 11	IC	Diesel	4,860	4,800	4,800	1998
22	Glencoe	Unit No 12	IC	Diesel	4,860	4,800	4,800	1998
23	Granite Falls	Unit No 1	IC	Diesel	2,000	2,000	2,000	2003
24	Granite Falls	Unit No 2	IC	Diesel	2,010	2,010	2,010	2003
25	Granite Falls	Unit No 3	IC	Diesel	2,010	2,010	2,010	2003
26	Granite Falls	Unit No 1 (Hydro)	HY	Hydro	1,200	956	154	1986
27	Janesville	Unit No 1	IC	Diesel	1,365	1,365	1,365	1965
28	Janesville	Unit No 2	IC	Diesel	1,136	1,135	1,135	1972
29	Janesville	Unit No 3	IC	Diesel	670	670	670	1955
30	Janesville	Unit No 4	IC	Diesel	1,825	1,825	1,825	1998
31	Kenyon	Unit No 2	IC	Diesel	1,823	1,823	1,823	1997
32	Kenyon	Unit No 3	IC	Diesel	1,806	1,806	1,806	1997
33	Kenyon	Unit No 4	IC	Diesel	1,822	1,822	1,822	1997
34	Mountain Lake	Unit No 1	IC	Diesel	1,830	1,875	1,875	1998
35	Mountain Lake	Unit No 2	IC	Diesel	1,130	1,125	1,125	1954
36	Mountain Lake	Unit No 3	IC	Diesel	1,800	1,900	1,900	1998
37	Mountain Lake	Unit No 4	IC	Diesel	1,900	1,900	1,900	1968
38	Mountain Lake	Unit No 5	IC	Diesel	1,360	1,380	1,380	1950
39	Sleepy Eye	Unit No 1	IC	Diesel	1,825	1,880	1,880	1999
40	Sleepy Eye	Unit No 2	IC	Diesel	1,825	1,830	1,830	2001
41	Sleepy Eye	Unit No 3	IC	Diesel	1,500	1,840	1,840	1961
42	Sleepy Eye	Unit No 4	IC	Diesel	1,825	1,830	1,830	1995
43	Sleepy Eye	Unit No 5	IC	Diesel	1,825	1,200	1,200	1996
44	Springfield	Unit No 1	IC	Diesel	1,825	1,825	1,825	1994
45	Springfield	Unit No 2	IC	Diesel	1,825	1,825	1,825	1996
46	Springfield	Unit No 3	IC	Diesel	1,825	1,825	1,825	1998
47	Springfield	Unit No. 4	IC	Diesel	1,825	1,825	1,825	1998
48	Springfield	Unit No 5	IC	Diesel	1,825	1,825	1,825	2001
49	Windom	Unit No 4	CT	No 2 Oil	2,500	2,800	2,800	1980
50	Windom	Unit No C1	IC	Diesel	1,830	2,000	2,000	2001
51	Windom	Unit No C2	IC	Diesel	1,830	2,000	2,000	2001
52	Windom	Unit No C3	IC	Diesel	1,830	2,000	2,000	2001
53	Willmar	Unit No ST2	ST	NG	6,500	6,500	0	1956
54	Willmar	Unit No ST3	ST	Coal	12,500	12,500	11,500	1970
55	Willmar	Unit No E04	IC	Diesel	2,000	2,000	2,000	2000
56	Willmar	Unit No E05	IC	Diesel	2,000	2,000	2,000	2000
57	Willmar	Unit No E06	IC	Diesel	2,000	2,000	2,000	2000
58	Willmar	Unit No SW1	IC	Diesel	2,000	2,000	2,000	2000
59	Willmar	Unit No SW2	IC	Diesel	2,000	2,000	2,000	2000
60	Willmar	Unit No SW3	IC	Diesel	2,000	2,000	2,000	2000
61	CMMPA	Nebraska City 2	ST	Coal	12,500	12,500	12,500	5/2009
62	CMMPA	Big Stone II	ST	Coal	30,000	30,000	30,000	5/2011
63	**TOTAL GENERATING RESOURCES (MW)**					**195,132**	**186,830**	

Table 3-2: CMMPA Purchase Power Resources

Line No.	Purchases/Resources	Resource Type	Primary Fuel Type	Generator Nameplate Rating (KW)	Net Capacity - KW Summer	Net Capacity - KW Winter	Commercial In Service Date
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	System Firm Purchases						
	WAPA Purchase [1]						
1	Fairfax	Purchase	Hydro		1,775	1,685	
2	Granite Falls	Purchase	Hydro		1,260	1,767	
3	Mountain Lake	Purchase	Hydro		942	1,160	
4	Sleepy Eye	Purchase	Hydro		2,400	819	
5	Springfield	Purchase	Hydro		947	1,261	
6	Windom	Purchase	Hydro		7,757	5,624	
7	Willmar	Purchase	Hydro		6,371	5,761	
	NSP Full Requirements						
8	Fairfax				[2]	[2]	
9	Kasson				[3]	[3]	
	Firm Purchases						
10	Blue Earth - Alliant - Purchase	Purchase			5,000	5,000	
11	Granite Falls - NSP Firm Purchase	Purchase			608	608	
	Non-Firm Purchases						
12	NSP 55 Energy Purchase						
13	Delano	Purchase			[4]	[4]	
14	Glencoe	Purchase			[4]	[4]	
15	Janesville	Purchase			[4]	[4]	
16	Kenyon	Purchase			[4]	[4]	
17	Mountain Lake	Purchase			[4]	[4]	
18	Windom	Purchase			[4]	[4]	
19	Sleepy Eye NSP A-15 Non-Firm Purchase	Purchase			[5]	[5]	
	Wind Resources						
20	Blue Earth						
21	Blue Breeze 1	Purchase	Wind	1,250	234	399	5/2006
22	Blue Breeze 2	Purchase	Wind	1,250	234	399	5/2006
	CMMPA						
23	Cedar Falls	Purchase	Wind	4,056	842	1,344	3/2005
24	Wolf Wind Farm	Purchase	Wind	4,225	662	1,840	4/2006
25	Jeffers Wind Energy Center	Purchase	Wind	6,760	1,008	2,299	1/2007

[1] Summer/Winter ratings for WAPA reflect current July/January contract values
[2] Capacity under Fairfax NSP full requirements service is equal to projected peak demand less WAPA purchases.
[3] Capacity under Kasson NSP full requirements service is equal to projected peak demand
[4] NSP-55 purchases provide non-firm energy with minimum must take provisions at 55% of Member load net of WAPA purchases
[5] Sleepy Eye A-15 purchase provides non-firm energy at 100% block purchase of 3 MW summer and 2 MW winter

Expected Generation Resource Retirements

At present, only one of the Big Stone II Members has a generating resource scheduled for retirement. Sleepy Eye is currently planning to retire its diesel Unit No. 3 effective January 1, 2007. All of the purchase power contracts, except for the hydro purchases from WAPA are scheduled for retirement over the Planning Period.

MEMBER DSM ACTIVITIES

CMMPA is a project oriented, wholesale provider of power to its members, and as such, CMMPA does not have any direct control over its members regarding the development and implementation of demand-side management programs. In accordance with Minnesota law, the members of CMMPA file reports with the DOC

regarding annual efforts made by the utility to implement conservation programs. CMMPA regularly encourages it members to engage in conservation programs and it is currently assisting its members with the development of an integrated SCADA and load management system. Table 3-3, summarizes the DSM programs currently being undertaken by the Big Stone II Members

It is important to note that to the extent that historical levels of DSM (i.e., demand and energy reduction) have occurred and are reflected in the historical demand and energy data reported by the members, then the 2006 Load Forecast captures these effects in the econometric forecast equations presented herein. As such, the forecast load growth contained in this Analysis reflects continued growth in DSM demand and energy reductions in proportion to the projected load growth of the Big Stone II Members.

Table 3-3: CMMPA Existing DSM Programs

	DSM Program							
Big Stone II Member	Efficient Lighting Rebates & Promotions	Efficient Appliance Rebates & Promotions	Weatherization Rebates & Promotions	Energy Audits & Customer Education	HVAC Maintenance Service & Equipment Rebates	Low-Income Assistance	Load Management	Tree Program
Blue Earth	R,C	R		R	R,C		R	
Delano	C	R		R			R	
Fairfax	C					R		
Glencoe	C	R			R			
Granite Falls	C	R						
Janesville		R		R				
Kasson		R		R		R	R	
Kenyon	R,C	R	R	R,C	R.	R	R	
Mountain Lake	R,C	R	R		R		R	
Sleepy Eye		R						
Springfield	R					R	R	R
Willmar	C	R			R,C		R,C	
Windom	R	R		R			R	

R - Residential Program, C - Commerical / Municipal Program

NEEDS FOR ADDITIONAL CAPACITY AND ENERGY

According to the coincident peak load forecast presented in the preceding section, the Big Stone II Member resources are adequate to meet its peak demand and a 15% planning reserve requirement until the summer of 2008. Capacity deficiencies in 2008 are projected to be small (less than 2 MW), and capacity needs are projected to increase only slightly in 2009 as certain purchase power contracts are set to expire and as the Nebraska City 2 project is scheduled to come on line. However, by 2011,

without the addition of Big Stone Unit II, the reserve margin for the Big Stone II Members is projected to fall below 10 percent. Capacity needs are projected to grow by an average of 3.5 megawatts per year thereafter. By 2025, if no capacity other than currently planned amounts is added, the Big Stone II Members would need approximately 58 megawatts of capacity additions.

The following figures and tables illustrate the projected capacity needs for the Big Stone II Members. Tables 3-4 and 3-5 present the projected loads and capacity resources for the Big Stone II Members for the summer and winter seasons, respectively, over the period 2006 through 2025.

Figures 3-1 demonstrates the projected annual capacity shortfall for the Big Stone II Members during the summer season excluding capacity from Big Stone Unit II. Figure 3-2 shows the annual capacity shortfalls during the summer season including capacity from Big Stone Unit II.

Figures 3-3 and 3-4 provide graphical representations of the projected loads and capacity resources for the Big Stone II Members for the summer and winter seasons, respectively, over the period 2006 through 2025. These figures include the capacity from Big Stone Unit II.

Figure 3-5 shows the projected annual energy requirements for the Big Stone II Members for 2006 through 2025.

Table 3-4: Big Stone II Members Load and Capacity Summary, Summer

Line	Description	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Planning Requirements - MW																
1	Summer Peak Demand [1]	163	166	169	172	174	177	180	182	185	188	191	193	196	199	201	204
2	WAPA Purchases	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)	(21)
3	Full Requirements Purchases	(8)	(9)	(9)	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Total Peak Requirements	133	136	139	150	153	155	158	161	164	166	169	172	174	177	180	182
5	Reserve Requirement [2]	20	20	21	23	23	23	24	24	25	25	25	26	26	27	27	27
6	Total Capacity Requirements	153	156	160	173	176	179	182	185	188	191	194	198	201	204	207	210
	Existing Portfolio - MW																
7	Nebraska City 2 Coal Unit [3]	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12	12
8	Big Stone II Coal Unit	-	-	-	-	-	30	30	30	30	30	30	30	30	30	30	30
9	Internal Combustion Units	117	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
10	Combustion Turbine Units	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
11	Steam (Coal/NG)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
12	Hydro Units	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	Wind Units	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
14	Firm Purchases	6	6	5	5	5	5	5	5	5	5	5	5	5	-	-	-
15	Total Resources	160	159	158	170	170	200	200	200	200	200	200	200	200	195	195	194
16	Capacity Deficiency (MW)	-	-	(2)	(3)	(6)	-	-	-	-	-	-	-	(1)	(9)	(12)	(15)

[1] Sum of Big Stone II Member coincident peaks measured at the Member delivery point
[2] Planning reserve margin assumed to be 15%
[3] Capacity ratings adjusted down for an assumed 3% losses

3362

Table 3-5: Big Stone II Members Load and Capacity Summary, Winter

Line	Description	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Planning Requirements - MW																
1	Winter Peak Demand [1]	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150
2	WAPA Purchases	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)	(16)
3	Full Requirements Purchases	(9)	(9)	(9)	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Total Peak Requirements	95	97	99	110	112	114	116	118	120	122	124	126	128	130	132	134
5	Reserve Requirement [2]	14	15	15	17	17	17	17	18	18	18	19	19	19	19	20	20
6	Capacity Requirements	109	111	114	127	129	131	133	136	138	140	143	145	147	149	152	154
	Existing Portfolio - MW																
7	Nebraska City 2 Coal Unit [3]	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12
8	Big Stone II Coal Unit	-	-	-	-	-	-	30	30	30	30	30	30	30	30	30	30
9	Internal Combustion Units	117	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
10	Combustion Turbine Units	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
11	Steam (Coal/NG)	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
12	Hydro Units	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Wind Units	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
14	Firm Purchases	7	7	7	7	7	7	7	7	7	7	7	7	7	2	2	2
15	Total Resources	153	155	155	154	166	166	196	196	196	196	196	196	196	191	191	191
16	Capacity Deficiency (MW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

[1] Sum of Big Stone II Member coincident peaks measured at the Member delivery point
[2] Planning reserve margin assumed to be 15%
[3] Capacity ratings adjusted down for an assumed 3% losses

Figure 3-1: Big Stone II Members Capacity Deficit Without Big Stone Unit II

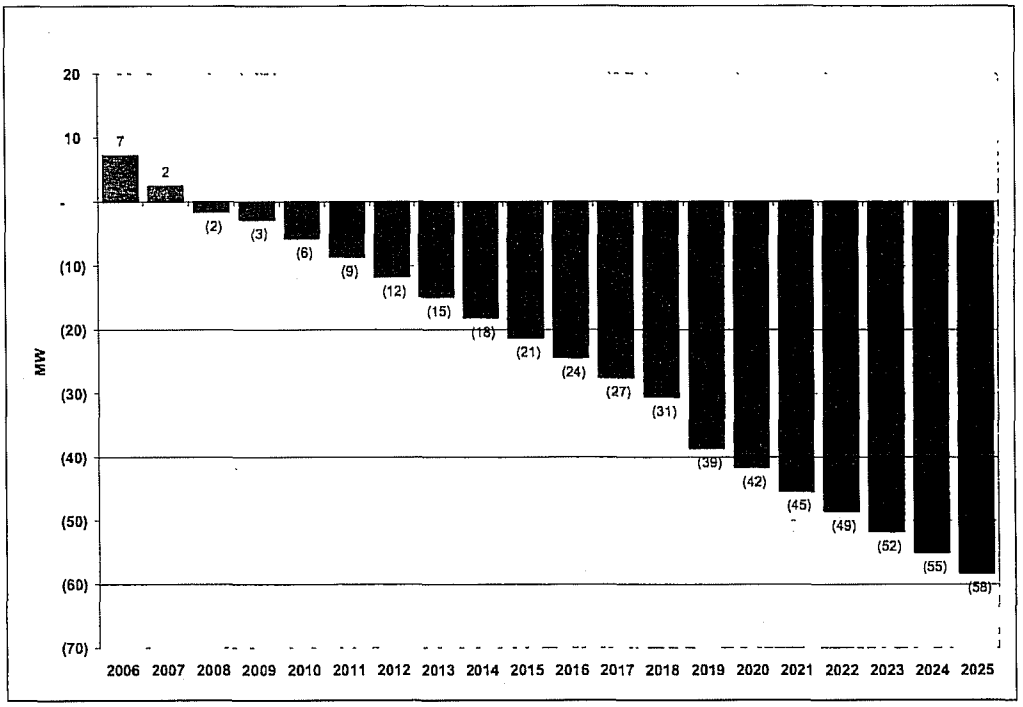


Figure 3-2: Big Stone II Members Capacity Deficit Including Big Stone Unit II

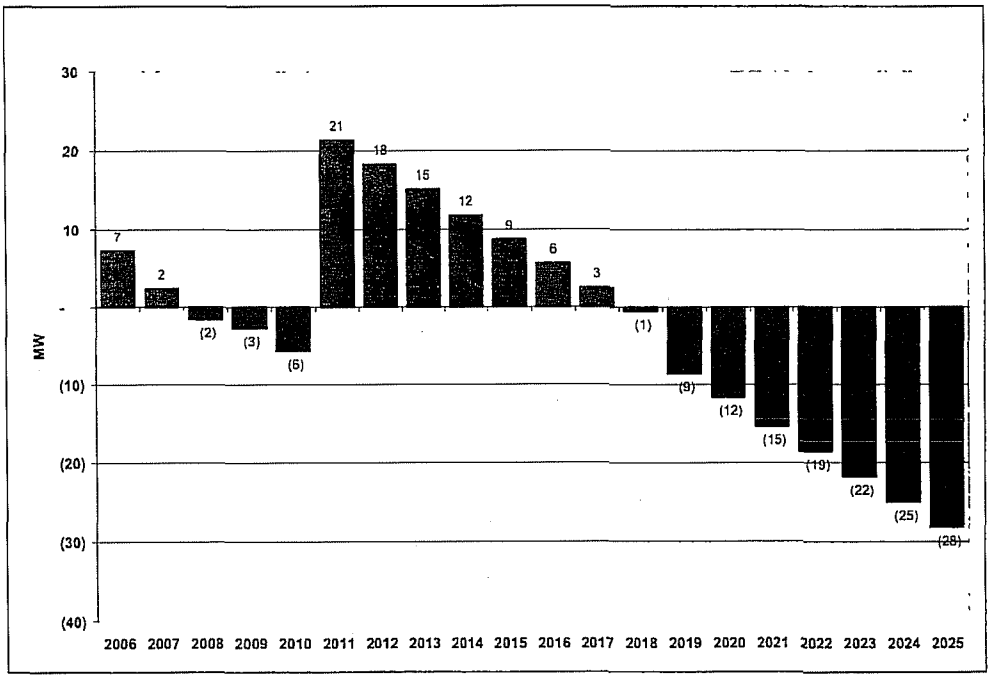


Figure 3-3: Big Stone II Members Load and Capacity Summary, Summer Includes Big Stone Unit II Capacity

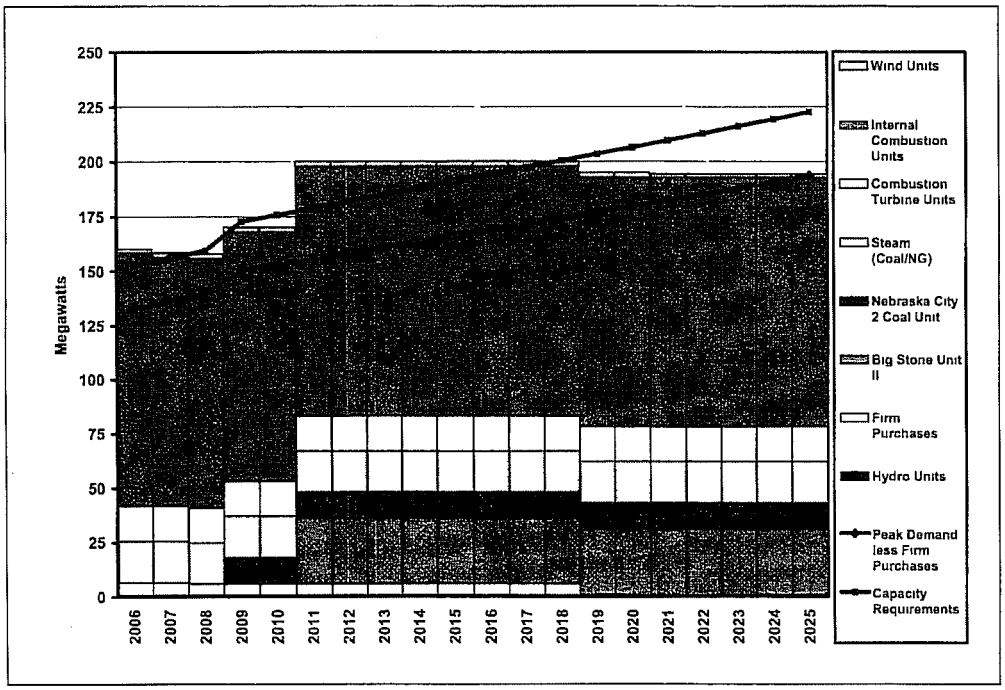


Figure 3-4: Big Stone II Members Load and Capacity Summary, Winter

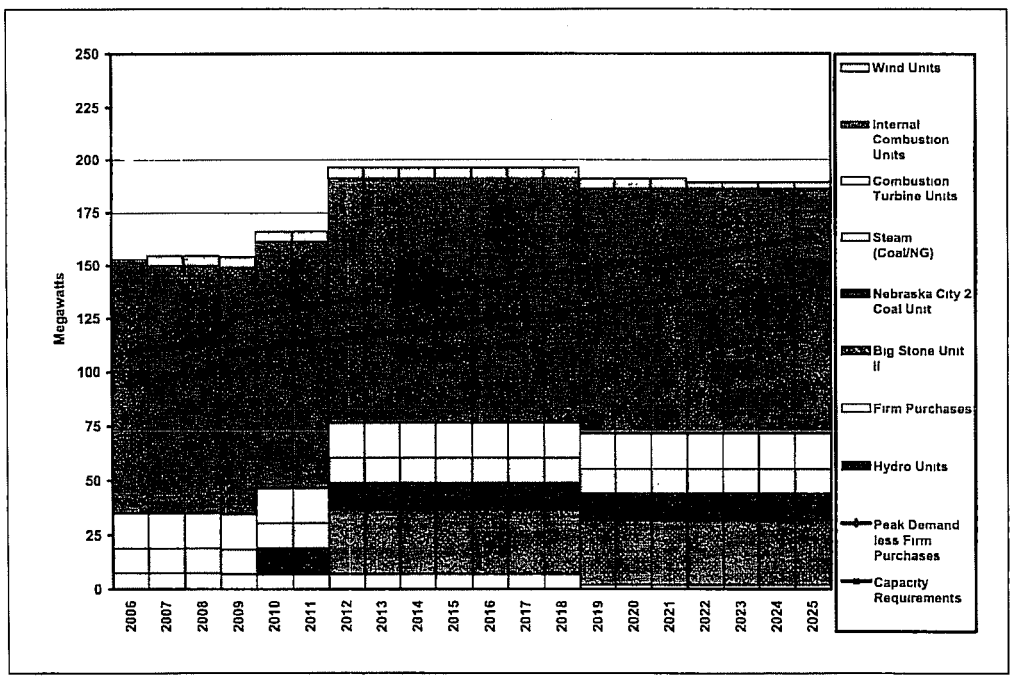
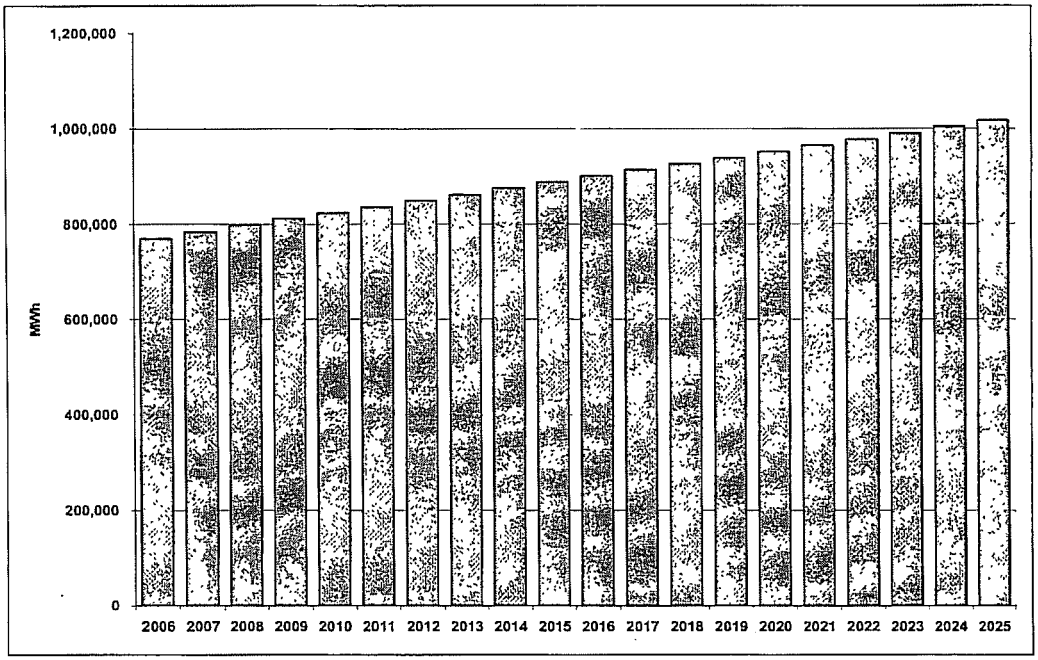


Figure 3-5: Big Stone II Members Energy Requirements Chart



Section 4
RESOURCE EXPANSION ANALYSIS

MODELING METHOD

R. W. Beck performed a Resource Expansion Analysis for the Big Stone II Members to determine the most cost-effective resource expansion plan alternatives that could satisfy the future energy and capacity needs of the Big Stone II Members. The analysis was performed using the Strategist® software package, licensed by New Energy Associates, a Siemens company. Strategist employs a dynamic programming optimization technique combined with a convolution generation dispatch process to approximate the operation of generating resources and power purchases and sales for electric utilities. Through the dynamic optimization process, Strategist explores all potential generation expansion plans that can be produced from a given set of resource alternatives and identifies the best candidate plans based on the planning objectives identified by the user.

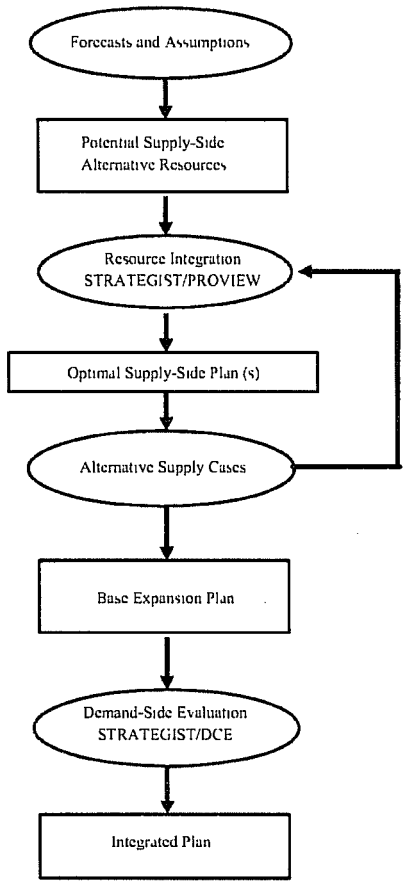
Figure 4-1, below, depicts an overview of the Resource Expansion Analysis process. The initial step in the Analysis involved the development of various forecasts and assumptions, including the demand and energy forecast discussed in Section 2, fuel prices, capital and operating characteristics for generic resources, and economic assumptions. Operating characteristics for the Big Stone II Member resources, including generating units and power purchase contracts, to be modeled in Strategist were developed from information provided by the members. Future potential power supply alternatives were developed to provide a broad range of generating resource alternatives, including coal and natural gas fired generating technologies and wind technologies.

The alternatives were analyzed in Strategist along with the existing resources of the Big Stone II Members to determine the most cost-effective plan(s) the Big Stone II Members could pursue over the 25-year Planning Period (2011 through 2035). For the Analysis, two primary objectives were modeled in Strategist. First, the Big Stone II Members must meet a minimum 15 percent reserve margin beginning in 2011, and, second, the optimum potential resource plans must provide the lowest projected utility costs of all possible alternatives over the Planning Period. Potential resource plans were ranked from lowest to highest cost based on a computation of total, present value costs, including generation production costs, operating and maintenance costs, and capital costs for the CMMPA Members over the 25-year Planning Period. The Analysis also includes a quantification of capital and escalating costs beyond the study period, commonly referred to as end effects.

Unless currently scheduled for retirement, the existing Big Stone II Member resources were assumed to remain available over the Planning Period. Generic resources, as described in more detail in this section, and the Big Stone II Member portion of the

Big Stone Unit II were modeled and made available for selection by Strategist when meeting future capacity and energy requirements.

Figure 4-1: Resource Expansion Analysis Process Overview



RESOURCE EXPANSION ALTERNATIVES

Several resource expansion alternatives were considered for the Big Stone II Members in the capacity expansion model. Table 4-1 summarizes the types of generating resource additions considered and their primary operating characteristics.

Operating characteristics for Big Stone Unit II were obtained from Otter Tail, and the capacity was based on the current allocation of the Big Stone II Members. In addition to the Big Stone Unit II, two generic, coal-fired resource technology options were modeled as expansion options in the analysis. These resource types – integrated gasification combined cycle ("IGCC") and super-critical pulverized coal ("supercritical coal") units – were made available as expansion alternatives beginning in 2011.

Table 4-1: Big Stone Unit II and Expansion Resource Alternatives Modeled Operating Characteristics

			Generic Resources				
		Big Stone II	F-Class GT	F-Class 2x1 CC	Super Critical	IGCC	Wind
Fuel Type		PRB Coal	NG	NG	PRB Coal	PRB Coal	N/A
Baseload Capacity Rating	MW	600	170	530	800	630	150
Construction Cost (2006$)							
Overnight Construction Cost	$/kW	1,640	480	580	1,750	1,980	1,560
Development & Construction Period	Months	48	30	48	72	66	20
Other Operating Characteristics							
Average Degraded Heat Rate	Btu/kWh	9,300	10,300	7,040	9,240	9,390	-
Annual Forced Outage Rate	%	4 0%	1 0%	2.0%	4.0%	6.0%	4 0%
Annual Scheduled Outage Factor	%	9 0%	3 0%	5 0%	9 0%	9.0%	9 0%
Fixed O&M (2006$) [1]	$/kW-yr	37 90	7 50	19 50	42 00	50 50	31.00
Variable O&M (2006$)	$/MWh	1 80	17 65	3 00	1 80	4.00	-
Emissions							
SO_2 Emissions Rate	lb/MMBtu	0 0500	0 0006	0 0006	0.1000	0 0100	0 0000
NO_X Emissions Rate	lb/MMBtu	0 05	0 01	0 01	0.07	0.02	0 00
PM_{10} Emissions Rate	lb/MMBtu	0 030	0 005	0.005	0.030	0 010	0 000
CO_2 Emissions Rate	lb/MMBtu	0	117	117	213	213	0
CO Emissions Rate	lb/MMBtu	0 10	0 01	0 01	0 15	0.00	0 00
Pb Emissions Rate	lb/GBtu	0 0079	0.0000	0 0000	0 0080	0.0000	0 0000
Hg Emissions Rate	lb/GBtu	0 0025	0.0000	0 0000	0.0025	0 0010	0 0000

[1] Includes property taxes, insurance, and non-plant corporate expenses

Generic intermediate and peaking resources were considered in the expansion optimization analysis in the form of natural-gas fired resources: a simple-cycle F-class gas turbine resource and a two-on-one, F-class combined cycle resource.

A generic wind turbine, an intermittent and renewable resource, was also modeled as a resource expansion option to assist the Big Stone II Members in fulfilling their renewable energy benchmark requirements under the Minnesota Renewable Energy Objective.

All of the generic resource technologies were modeled in 10 MW increments under an assumption that the Big Stone II Members could acquire capacity through a partial ownership arrangement.

EXISTING RESOURCES

Unless currently scheduled for retirement, the existing Big Stone II Member resources were assumed to remain available over the Planning Period. Tables 4-2 and 4-3 below provide the basic operating characteristics as modeled for the generating resources and purchase power resources, respectively, for the Big Stone II Members.

Table 4-2: Big Stone II Member Existing Generating Resources Modeled Operating Characteristics

Line No.	Owner	Generating Station / Unit	Unit Type	Primary Fuel Type	Generator Nameplate Rating (KW)	Net Capacity - KW Summer	Net Capacity - KW Winter	Commercial In Service Date	Expected Date for Retirement	Modeled Operating Characteristics Var O&M ($/MWh)	Modeled Operating Characteristics Full Load Heat Rate
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	Blue Earth	Unit No 1	IC	Diesel	1,500	1,500	1,500	1960		13 92	9,183
2	Blue Earth	Unit No 3	IC	Diesel	1,600	1,600	1,600	1993		13 92	9,500
3	Blue Earth	Unit No 4	IC	Diesel	1,600	1,600	1,600	1993		13 92	9,500
4	Blue Earth	Unit No 5	IC	Diesel	1,600	1,600	1,600	1993		13 92	9,500
5	Blue Earth	Unit No 6	IC	Diesel	1,825	1,825	1,825	1996		13 92	9,460
6	Delano	Unit No 1	IC	Diesel	840	830	830	1951		8 85	11,324
7	Delano	Unit No 2	IC	Diesel	3,125	2,880	2,880	1972		8 85	11,048
8	Delano	Unit No 3	IC	Diesel	1,136	1,170	1,170	1973		8 85	11,071
9	Delano	Unit No 4	IC	Diesel	1,140	1,170	1,170	1946		8 85	11,431
10	Delano	Unit No 5	IC	Diesel	1,365	1,350	1,350	1989		8 85	11,362
11	Delano	Unit No 6	IC	Diesel	1,250	1,050	1,050	1994		8 85	11,193
12	Delano	Unit No 7	IC	Diesel	3,000	3,750	3,750	1999		8 85	10,871
13	Delano	Unit No 8	CT	No 2 Oil	12,500	13,300	13,300	2002		13 30	16,802
14	Fairfax	Unit No 2a	IC	Diesel	1 800	1,800	1,800	2001		9 00	9,512
15	Glencoe	Unit No 5	IC	Diesel	1 000	1,000	1,000	1957		8 98	9,422
16	Glencoe	Unit No 6	IC	Diesel	1,000	1,000	1,000	1961		8 98	9,422
17	Glencoe	Unit No 7	IC	Diesel	3,500	3,500	3,500	1966		8 98	9,320
18	Glencoe	Unit No 8	IC	Diesel	5,500	5,600	5,600	1969		8 98	9,778
19	Glencoe	Unit No 9	IC	Diesel	6,400	6,400	6,400	1973		8 98	9,249
20	Glencoe	Unit No 10	IC	Diesel	7,000	7,000	7,000	1985		8 98	10,046
21	Glencoe	Unit No 11	IC	Diesel	4,860	4,800	4,800	1998		8 98	9,500
22	Glencoe	Unit No 12	IC	Diesel	4 860	4,800	4,800	1998		8 98	9,306
23	Granite Falls	Unit No 1	IC	Diesel	2,000	2,000	2,000	2003		9 00	9,512
24	Granite Falls	Unit No 2	IC	Diesel	2 010	2,010	2,010	2003		9 00	9,512
25	Granite Falls	Unit No 3	IC	Diesel	2,010	2,010	2,010	2003		9 00	9,512
26	Granite Falls	Unit No 1 (Hydro)	HY	Hydro	1 200	956	154	1986			
27	Janesville	Unit No 1	IC	Diesel	1,365	1,365	1,365	1965		18 82	9,500
28	Janesville	Unit No 2	IC	Diesel	1,136	1,135	1,135	1972		18 82	9,500
29	Janesville	Unit No 3	IC	Diesel	670	670	670	1955		18 82	9,500
30	Janesville	Unit No 4	IC	Diesel	1,825	1,825	1,825	1998		18 82	8,702
31	Kenyon	Unit No 2	IC	Diesel	1,823	1,823	1,823	1997		15 00	9,460
32	Kenyon	Unit No 3	IC	Diesel	1,806	1,806	1,806	1997		15 00	9,460
33	Kenyon	Unit No 4	IC	Diesel	1,822	1,822	1,822	1997		15 00	9,460
34	Mountain Lake	Unit No 1	IC	Diesel	1,830	1,875	1,875	1998		14 60	10,371
35	Mountain Lake	Unit No 2	IC	Diesel	1,130	1,125	1,125	1954		14 60	11,029
36	Mountain Lake	Unit No 3	IC	Diesel	1 800	1,900	1,900	1998		14 60	10,154
37	Mountain Lake	Unit No 4	IC	Diesel	1,900	1,900	1,900	1968		14 60	9,500
38	Mountain Lake	Unit No 5	IC	Diesel	1 360	1,380	1,380	1950		14 60	9,500
39	Sleepy Eye	Unit No 1	IC	Diesel	1 825	1,880	1,880	1999		33 75	9,326
40	Sleepy Eye	Unit No 2	IC	Diesel	1 825	1,830	1,830	2001		33 75	9,326
41	Sleepy Eye	Unit No 3	IC	Diesel	1 500	1,840	1,840	1961	1/2007	33 75	9,326
42	Sleepy Eye	Unit No 4	IC	Diesel	1,825	1,830	1,830	1995		33 75	9,326
43	Sleepy Eye	Unit No 5	IC	Diesel	1,825	1,200	1,200	1996		33 75	9,500
44	Springfield	Unit No 1	IC	Diesel	1,825	1,825	1,825	1994		17 81	9,459
45	Springfield	Unit No 2	IC	Diesel	1,825	1,825	1,825	1996		17 81	9,459
46	Springfield	Unit No 3	IC	Diesel	1,825	1,825	1,825	1998		17 81	9,459
47	Springfield	Unit No 4	IC	Diesel	1 825	1,825	1,825	1998		17 81	9,459
48	Springfield	Unit No 5	IC	Diesel	1 825	1,825	1,825	2001		17 81	9,459
49	Windom	Unit No 4	CT	No 2 Oil	2,500	2,800	2,800	1980		13 30	12,884
50	Windom	Unit No C1	IC	Diesel	1,830	2,000	2,000	2001		18 08	9,328
51	Windom	Unit No C2	IC	Diesel	1 830	2,000	2,000	2001		18 08	9,328
52	Windom	Unit No C3	IC	Diesel	1 830	2,000	2,000	2001		18 08	9,328
53	Willmar	Unit No ST2	ST	NG	6 500	6,500	0	1956		0 00	19,700
54	Willmar	Unit No ST3	ST	Coal	12,500	12,500	11,500	1970		0 00	18,200
55	Willmar	Unit No E04	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
56	Willmar	Unit No E05	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
57	Willmar	Unit No E06	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
58	Willmar	Unit No SW1	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
59	Willmar	Unit No SW2	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
60	Willmar	Unit No SW3	IC	Diesel	2,000	2,000	2,000	2000		15 00	9,500
61	CMMPA	Nebraska City 2	ST	Coal	12,500	12,500	12,500	5/2009		2 70	9,330
62	CMMPA	Big Stone II	ST	Coal	30,000	30,000	30,000	5/2011		1 80	9,300
63	TOTAL GENERATING RESOURCE (MW)					195,132	186,830				

Table 4-3: Big Stone II Member Purchase Power Resources Modeled Operating Characteristics

Line No	Purchases/Resources	Resource Type	Primary Fuel Type	Generator Nameplate Rating (KW)	Net Capacity - KW		Commercial In Service Date	Expected Date for Retirement	Modeled Operating Characteristics	
					Summer	Winter			Var O&M ($/MWh)	Full Load Heat Rate
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	System Firm Purchases									
	WAPA Purchase [1]									
1	Fairfax	Purchase	Hydro		1,775	1,685				
2	Granite Falls	Purchase	Hydro		1,260	1 767				
3	Mountain Lake	Purchase	Hydro		942	1,160				
4	Sleepy Eye	Purchase	Hydro		2,400	819				
5	Springfield	Purchase	Hydro		947	1,261				
6	Windom	Purchase	Hydro		7 757	5,624				
7	Willmar	Purchase	Hydro		6,371	5,761				
	NSP Full Requirements									
8	Fairfax				[2]	[2]		12/2008		
9	Kasson				[3]	[3]		12/2008		
	Firm Purchases									
10	Blue Earth - Alliant - Purchase	Purchase			5,000	5,000		12/2018		
11	Granite Falls - NSP Firm Purchase	Purchase			608	608		4/2008		
12	**Non-Firm Purchases**									
13	NSP 55 Energy Purchase									
14	Delano	Purchase			[4]	[4]		5/2011		
15	Glencoe	Purchase			[4]	[4]		5/2011		
16	Janesville	Purchase			[4]	[4]		5/2011		
17	Kenyon	Purchase			[4]	[4]		5/2011		
18	Mountain Lake	Purchase			[4]	[4]		5/2011		
19	Windom	Purchase			[4]	[4]		5/2011		
	Sleepy Eye NSP A-15 Non-Firm									
20	Purchase	Purchase			[5]	[5]		9/2007		
	Wind Resources									
21	Blue Earth									
22	Blue Breeze 1	Purchase	Wind	1,250	234	399	5/2006	4/2026	0 00	N/A
23	Blue Breeze 2	Purchase	Wind	1,250	234	399	5/2006	4/2026	0 00	N/A
	CMMPA									
24	Cedar Falls	Purchase	Wind	4,056	842	1,344	3/2005	12/2006	0 00	N/A
25	Wolf Wind Farm	Purchase	Wind	4,225	662	1,840	4/2006	3/2021	0 00	N/A
26	Jeffers Wind Energy Center	Purchase	Wind	6,760	1,008	2,299	1/2007	12/2031	0 00	N/A

[1] Summer/Winter ratings for WAPA reflect current July/January contract values
[2] Capacity under Fairfax NSP full requirements service is equal to projected peak demand less WAPA purchases
[3] Capacity under Kasson NSP full requirements service is equal to projected peak demand
[4] NSP-55 purchases provide non-firm energy with minimum must take provisions at 55% of Member load net of WAPA purchases
[5] Sleepy Eye A-15 purchase provides non-firm energy at 100% block purchase of 3 MW summer and 2 MW winter

EMISSION COSTING

Effluents were modeled in Strategist to capture economic impacts of various emissions. The emission costs reflected in the Analysis for PM10, CO, NOx, lead, and CO_2 were obtained from the externality costs published by the Minnesota Public Utilities Commission ("PUC") for *Within 200 miles of Minnesota* (or "MN200") and *Rural*. The *Within 200 miles of Minnesota* values were applied to the operation of Big Stone Unit II, which is located in South Dakota. All other new resources were assumed to be constructed in rural areas of Minnesota and were applied the *Rural* values for emissions. The environmental externality values were adjusted from the 2004 values published by the PUC to 2006 values using a 2.4% general inflation rate, and are depicted below in Table 4-4.

SO_2 emission allowance costs were estimated assuming a market price of $600 per ton in 2006 dollars, escalated over the Planning Period at 2.4%, and were applied to the amount of SO_2 emissions produced by thermal resources modeled in each potential expansion plan. Similarly, mercury emissions were assumed to be $70 million per ton, or $35,000 per pound, in 2006 dollars, escalated at 2.4%.

Table 4-4: Estimated Minnesota Environmental Externality Values [1]

	Rural	Within 200 Miles of Minnesota
PM_{10} $/ton	1,053	1,053
CO $/ton	0.5	0.5
NO_x $/ton	125.8	125.8
Pb $/ton	552	552
CO_2 $/ton	3.82	0
Mercury $/ton	70,000,000	70,000,000
SO_x $/ton	600	600

[1] Amounts shown are in 2006 dollars

RESOURCE PLANNING RESULTS

The Strategist model developed over 400 potential expansion plans. The three plans that ranked lowest in present value cost were identified as the optimum least-cost plans as shown in Table 4-5. The present value utility cost variance shown in the table represents the incremental cost increase for each plan from the lowest-cost plan. All three of the optimum least-cost expansion plans showed that the Big Stone II Members need to secure 30 MW of Big Stone Unit II capacity in 2011.

- Plan 1, consisting of the planned 30 megawatts of the Big Stone Unit II in 2011, plus an additional 10 megawatts of installed wind capacity in 2011, followed by 10 megawatts of supercritical pulverized coal capacity installed every two to three years beginning in 2019, was found to be the least-cost potential resource expansion plan. Based on the results of this plan, wind turbine capacity of approximately 10 MW is a viable resource option for the Big Stone II Members in 2011. This amount of wind capacity is approximately equal to the Renewable Energy Objective of the Big Stone II Members for 2012.
- Plan 2 delays the installation of the 10 MW wind unit 9 years until 2020 and moves the first 10 MW supercritical coal unit one year forward to 2018. The incremental cost increase from Plan 1 was less than $1 million.
- Plan 3 differs from Plan 1 by replacing the final 10 MW of supercritical coal capacity in 2035 with 10 MW of IGCC capacity. The incremental cost increase from Plan 1 was $3.4 million.

Out of the over 400 potential expansion plans, four sub-optimal plans were selected for comparison purposes to demonstrate the effect of installing different technology types. The four selected sub-optimal plans are described in more detail below.

- Plan 56 reduced the amount of Big Stone Unit 2 coal capacity to 20 MW in 2011 and also included 30 MW of wind capacity added by 2016 and 10 MW of IGCC capacity in 2033. This plan reduced the total amount of supercritical coal capacity added and would produce fewer emissions than Plan 1; however, the incremental cost increase from Plan 1 was $34 million, due to the addition of more capitally intensive technologies.
- Plan 66 has more additions in the first year of the Planning Period (50 MW, of which 30 MW is Big Stone Unit II capacity and the remaining 20 MW is wind capacity) than the lower cost expansion plans. It also includes 30 MW of total wind capacity added over the Planning Period. The incremental cost increase from Plan 1 was $38 million.
- Plan 73 contains an installation of a combined cycle unit, at 10 MW, and also adds 40 MW of IGCC resources in the later years of the Planning Period. The incremental cost increase from Plan 1 was $41 million.
- Plan 98 installed three technology types in 2011, including 20 MW of Big Stone Unit II capacity, 20 MW of wind capacity, and 10 MW of combined cycle capacity. The incremental cost increase from Plan 1 was $58 million.

Table 4-5: Expansion Plan Results

	Ranking of Potential Expansion Plans						
	Optimum Least-Cost Plans			Selective Sub-Optimal Plans			
Year of Installation	1	2	3	56	66	73	98
2011	BS II (30MW) Wind (10MW)	BS II (30MW)	BS II (30MW) Wind (10MW)	BS II (20MW) Wind (20MW)	BS II (30MW) Wind (20MW)	BS II (30MW)	BSII (20MW) Wind (20MW) CC (10MW)
2012	–	–	–	–	–	–	–
2013	–	–	–	–	–	–	–
2014	–	–	–	–	–	–	–
2015	–	–	–	–	–	–	–
2016	–	–	–	Wind (10MW)	–	–	–
2017	–	–	–	Coal (10MW)	–	–	–
2018	–	Coal (10MW)	–	–	–	CC (10MW)	–
2019	Coal (10MW))	–	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	Coal (10MW)
2020	–	Wind (10MW)	–	–	–	Wind (10MW)	–
2021	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	Wind (10MW)	Coal (10MW)	Wind (10MW)
2022	–	–	–	Coal (10MW)	Coal (10MW)	–	Coal (10MW)
2023	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	–	Coal (10MW)	–
2024	–	–	–	–	–	–	–
2025	–	–	–	Coal (10MW)	Coal (10MW)	–	Coal (10MW)
2026	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	–	IGCC (10MW)	–
2027	–	–	–	–	–	–	–
2028	–	–	–	Coal (10MW)	Coal (10MW)	–	Coal (10MW)
2029	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	–	IGCC (10MW)	–
2030	–	–	–	–	–	–	–
2031	–	–	–	Coal (10MW)	Coal (10MW)	–	Coal (10MW)
2032	Coal (10MW)	Coal (10MW)	Coal (10MW)	–	–	IGCC (10MW)	–
2033	–	–	–	IGCC (10MW)	Coal (10MW)	–	Coal (10MW)
2034	–	–	–	–	–	–	–
2035	Coal (10MW)	Coal (10MW)	IGCC (10MW)	–	–	IGCC (10MW)	–
PV Utility Cost Variance (2006 $000)	**-**	**954**	**3,400**	**34,373**	**38,459**	**40,862**	**58,339**

A sensitivity analysis was performed to investigate whether additional capacity from Big Stone Unit II would be beneficial for the Big Stone II Members. This analysis indicates that at least 30 additional megawatts of capacity from Big Stone Unit II could be cost-effectively added by the Big Stone II Members in 2011. This case is not currently contemplated as a resource expansion alternative because all of the proposed

Big Stone Unit II capacity is already allocated to the Big Stone II partners. However, should additional capacity from the Big Stone Unit II become available, the resource expansion analysis found that additional quantities of the Big Stone Unit II capacity would provide for lower total present value costs for the Big Stone II Members as compared with the lowest-cost base plan described previously. While the reserve margin for the Big Stone II Members would obviously far exceed the 15 percent target under this case, the lower-cost results of this case can be understood when compared to the existing resource alternatives of the Big Stone II Members. The Big Stone II Members rely heavily on market-priced non-firm and economy purchases, and generation from owned, lower-efficiency steam resources, and oil-fired diesel generation to serve their loads. In contrast, savings in energy costs the Big Stone II Members could receive through low-cost energy available from the proposed Big Stone Unit II are projected to offset the incremental fixed and capital costs associated with the additional Big Stone Unit II capacity, resulting in lower total costs for power than what is available from their existing resources.

DSM SCREENING

CMMPA is a project oriented, wholesale provider of power to its members, and as such, CMMPA does not have any direct control over its members regarding the development and implementation of demand-side management programs. In accordance with Minnesota law, the members of CMMPA file reports with the DOC regarding annual efforts made by the utility to implement conservation programs. CMMPA regularly encourages it members to engage in conservation programs and it is currently assisting its members with the development of an integrated SCADA and load management system.

The impacts of DSM programs of the Big Stone II Members are addressed in two ways in the Analysis. First, to the extent that historical levels of DSM (i.e., demand and energy reduction) have occurred and are reflected in the historical demand and energy data reported by the members, then the 2006 Load Forecast captures these effects in the econometric forecast equations presented herein. As such, the forecast load growth contained in this Analysis reflects continued growth in DSM demand and energy reductions in proportion to the projected load growth of the Big Stone II Members.

Even though the load forecast is already likely to contain the forecast effects of DSM load reductions, and, hence, lower levels of need for new capacity, it is still necessary to investigate whether additional amounts of DSM, beyond those already implemented by the members, are warranted. To conduct this evaluation, we relied upon the information provided by the Big Stone II Members in recent Conservation Improvement Program filings. This data, supplemented by additional data provided by the members, indicates that the average program expenditures and energy savings across all DSM programs results in an estimated average costs per kilowatt hour save in the range of $0.28.

This estimate of average program costs and savings for the Big Stone II Members was combined with other assumptions regarding DSM program costs and impacts, as

referenced in Table 4-6, below, to conduct a screening of the average costs and benefits of DSM in the Strategist model. Utilizing Strategist and incorporating the lowest-cost expansion plan described above, it is possible to investigate the existing DSM programs implemented by the Big Stone II Members and the cost-effectiveness of the programs with regard to their ability to avoid projected marginal energy costs and costs of incremental capacity additions that are consistent with the optimum resource expansion plan.

Table: 4-6: Average DSM Program Costs and Impacts for the Big Stone II Members

DSM Program Attributes	Value
Program Implementation Date	2011
Utility Program Cost	$0.28/kWh
DSM Program Load Factor	40%
DSM Measure Life	10 yrs
DSM Measure Persistence	100%
DSM Program Free-Ridership	50%

Utilizing the assumptions presented in Table 4-6 and the avoided utility costs developed from the lowest-cost expansion case, the Strategist model computed a cost to benefit ratio under a Utility Cost Test of 0.57, indicating that the average benefits received by the Big Stone II Members from avoided costs produced from the DSM programs are projected to be 57% of the DSM program costs incurred by the members. Because the existing DSM programs being undertaken by the Big Stone II Members are not shown to be cost effective, it is reasonable to assume that should the members decide or be required to implement additional DSM programs, that additional DSM implementations would likely cost more per unit of benefit received and, therefore, additional DSM implementation would show lower cost to benefit ratios that those computed for the existing programs.

CONCLUSIONS

The resource expansion modeling demonstrates that growth in member and changes in planned capacity results in the need for new capacity additions for the Big Stone II Members in the near future. To meet this need, the Big Stone II Members will need to acquire new capacity resources. Evaluations of available and possible resource alternatives indicate that Big Stone Unit II is a viable, low-cost means for the Big Stone II Members to meet this need. Furthermore, the beneficial results produced by acquiring 30 MW of Big Stone Unit II capacity above the current allocation of the Big Stone II Members underscores the need of the members to obtain low-cost, base-loaded capacity.

APPENDICES

The following appendices are included to provide supplemental information regarding portions of this Resource Expansion Analysis:

Appendix A: Load Forecast Statistical Output

Appendix B: Big Stone II Member Load Forecast Tables and Charts

Appendix C: Historical Weather Data

Appendix D: Big Stone II Member Economic Data

Appendix A
LOAD FORECAST STATISTICAL OUTPUT

Appendix A
Statistical Output

Member	County	Member Abbreviation	County Abbreviation
Blue Earth	Faribault	BE	FAR
Delano	Wright	DE	WRI
Fairfax	Renville	FA	RENV
Glencoe	McLeod	GL	MCLE
Granite Falls	Yellow Medicine	GR	YELL
Janesville	Waseca	JA	WAS
Kasson	Dodge	KA	DODG
Kenyon	Goodhue	KE	GOOD
Mountain Lake	Cottonwood	MO	COTT
Sleepy Eye	Brown	SL	BROW
Springfield	Brown	SP	BROW
Willmar	Kandiyohi	WI	KAND
Windom	Cottonwood	WN	COTT

Variable Key Codes	
CDD	Cooling Degree Days (Minneapolis - St. Paul Airport)
GDP	Gross Domestic Product
HDD	Heating Degree Days (Minneapolis - St. Paul Airport)
NEL	Net Energy Requirements
PY	Total Personal Income
RETSAL	Total Retail Sales

Statistical Output Syntax Guide
Variable: County Abbreviation (if applicable), then Variable Key Code. Example: FARGDP = Faribault County Gross Domestic Product

Statistical Output: Blue Earth

Dependent Variable: LOG(BE_NEL)				
Method: Least Squares				
Date: 05/19/06 Time: 15:22				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7.56	0.40	18.76	0.00
LOG(FARGDP)	0.52	0.05	9.62	0.00
CDD	8.57E-05	6.76E-05	1.27	0.23
HDD	2.60E-05	2.48E-05	1.05	0.32
R-squared	0.92	Mean dependent var		10.84
Adjusted R-squared	0.90	S.D. dependent var		0.14
S.E. of regression	0.04	Akaike info criterion		(3.22)
Sum squared resid	0.02	Schwarz criterion		(3.03)
Log likelihood	29.80	F-statistic		44.98
Durbin-Watson stat	1.57	Prob(F-statistic)		0.00

Statistical Output: Delano

Dependent Variable: LOG(DE_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 00:15				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.05	0.16	25.24	0.00
LOG(WRIRETSAL)	0.95	0.03	36.66	0.00
CDD	7.57E-05	3.81E-05	1.99	0.07
R-squared	0.99	Mean dependent var		10.43
Adjusted R-squared	0.99	S.D. dependent var		0.27
S.E. of regression	0.02	Akaike info criterion		(4.43)
Sum squared resid	0.01	Schwarz criterion		(4.29)
Log likelihood	38.48	F-statistic		947.62
Durbin-Watson stat	2.11	Prob(F-statistic)		0.00

Statistical Output: Fairfax

Dependent Variable: LOG(FA_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 00:35				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8.07	0.25	31.76	0.00
LOG(RENVGDP)	0.16	0.04	4.45	0.00
CDD	2.73E-05	3.33E-05	0.82	0.43
HDD	5.35E-05	1.28E-05	4.18	0.00
R-squared	0.72	Mean dependent var		9.42
Adjusted R-squared	0.65	S.D. dependent var		0.04
S.E. of regression	0.02	Akaike info criterion		(4.52)
Sum squared resid	0.01	Schwarz criterion		(4.32)
Log likelihood	40.14	F-statistic		10.41
Durbin-Watson stat	1.81	Prob(F-statistic)		0.00

Statistical Output: Glencoe

Dependent Variable: LOG(GL_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 00:57				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.23	0.62	5.17	0.00
LOG(MCLEPY)	1.15	0.09	12.88	0.00
CDD	1.07E-04	4.36E-05	2.46	0.03
HDD	3.05E-05	1.59E-05	1.92	0.08
YEAR>2003	(0.12)	0.02	(4.91)	0.00
R-squared	0.95	Mean dependent var		11.19
Adjusted R-squared	0.94	S.D. dependent var		0.12
S.E. of regression	0.03	Akaike info criterion		(3.97)
Sum squared resid	0.01	Schwarz criterion		(3.73)
Log likelihood	36.76	F-statistic		56.94
Durbin-Watson stat	2.28	Prob(F-statistic)		0.00

Statistical Output: Granite Falls

Dependent Variable: LOG(GR_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 01:10				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8.28	1.33	6.25	0.00
LOG(YELLPY)	0.34	0.23	1.47	0.17
CDD	8.99E-05	8.66E-05	1.04	0.32
HDD	1.68E-05	3.30E-05	0.51	0.62
R-squared	0.26	Mean dependent var		10.31
Adjusted R-squared	0.08	S.D. dependent var		0.06
S.E. of regression	0.06	Akaike info criterion		(2.56)
Sum squared resid	0.04	Schwarz criterion		(2.37)
Log likelihood	24.47	F-statistic		1.43
Durbin-Watson stat	1.37	Prob(F-statistic)		0.28

Statistical Output: Janesville

Dependent Variable: LOG(JA_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 09:47				
Sample: 1991 2005				
Included observations: 15				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.88	0.28	20.65	0.00
LOG(WASRETSAL)	0.70	0.06	11.13	0.00
CDD	1.56E-04	3.44E-05	4.53	0.00
R-squared	0.95	Mean dependent var		9.28
Adjusted R-squared	0.94	S.D. dependent var		0.10
S.E. of regression	0.02	Akaike info criterion		(4.54)
Sum squared resid	0.01	Schwarz criterion		(4.40)
Log likelihood	37.04	F-statistic		114.73
Durbin-Watson stat	1.72	Prob(F-statistic)		0.00

Statistical Output: Kasson

Dependent Variable: LOG(KA_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 10:43				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.37	0.54	4.34	0.00
LOG(DODGPY)	1.21	0.08	14.81	0.00
CDD	1.15E-04	7.61E-05	1.51	0.16
HDD	5.39E-05	2.60E-05	2.07	0.06
R-squared	0.97	Mean dependent var		10.05
Adjusted R-squared	0.96	S.D. dependent var		0.23
S.E. of regression	0.05	Akaike info criterion		(3.03)
Sum squared resid	0.03	Schwarz criterion		(2.84)
Log likelihood	28.23	F-statistic		111.31
Durbin-Watson stat	2.54	Prob(F-statistic)		0.00

Statistical Output: Kenyon

Dependent Variable: LOG(KE_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 16:07				
Sample(adjusted): 1991 2005				
Included observations: 15 after adjusting endpoints				
Convergence achieved after 18 iterations				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.52	1.28	1.18	0.26
LOG(GOODPY)	1.13	0.18	6.37	0.00
CDD	8.86E-05	3.19E-05	2.78	0.02
HDD	2.34E-05	1.50E-05	1.56	0.15
AR(1)	0.57	0.21	2.77	0.02
R-squared	0.97	Mean dependent var		9.60
Adjusted R-squared	0.96	S.D. dependent var		0.12
S.E. of regression	0.02	Akaike info criterion		(4.36)
Sum squared resid	0.01	Schwarz criterion		(4.12)
Log likelihood	37.68	F-statistic		84.64
Durbin-Watson stat	1.46	Prob(F-statistic)		0.00

Statistical Output: Mountain Lake

Dependent Variable: LOG(MO_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 11:35				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.88	0.65	7.52	0.00
LOG(COTTGDP)	0.84	0.12	6.95	0.00
CDD	3.40E-04	1.05E-04	3.23	0.01
R-squared	0.87	Mean dependent var		9.79
Adjusted R-squared	0.85	S.D. dependent var		0.19
S.E. of regression	0.07	Akaike info criterion		(2.24)
Sum squared resid	0.07	Schwarz criterion		(2.09)
Log likelihood	20.90	F-statistic		42.34
Durbin-Watson stat	2.43	Prob(F-statistic)		0.00

Statistical Output: Sleepy Eye

Dependent Variable: LOG(SL_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 11:47				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7.18	0.33	21.60	0.00
LOG(BROWGDP)	0.49	0.05	10.67	0.00
CDD	8.91E-05	4.08E-05	2.18	0.05
HDD	1.44E-05	1.44E-05	1.00	0.34
R-squared	0.93	Mean dependent var		10.62
Adjusted R-squared	0.92	S.D. dependent var		0.09
S.E. of regression	0.03	Akaike info criterion		(4.18)
Sum squared resid	0.01	Schwarz criterion		(3.98)
Log likelihood	37.41	F-statistic		56.55
Durbin-Watson stat	1.60	Prob(F-statistic)		0.00

Statistical Output: Springfield

Dependent Variable: LOG(SP_NEL)				
Method: Least Squares				
Date: 05/19/06 Time: 09:02				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6.69	0.39	17.00	0.00
LOG(BROWRETSAL)	0.60	0.07	8.09	0.00
CDD	1.39E-04	4.86E-05	2.87	0.01
YEAR>2003	0.06	0.03	2.32	0.04
R-squared	0.95	Mean dependent var		10.14
Adjusted R-squared	0.94	S.D. dependent var		0.12
S.E. of regression	0.03	Akaike info criterion		(3.96)
Sum squared resid	0.01	Schwarz criterion		(3.77)
Log likelihood	35.68	F-statistic		73.65
Durbin-Watson stat	1.34	Prob(F-statistic)		0.00

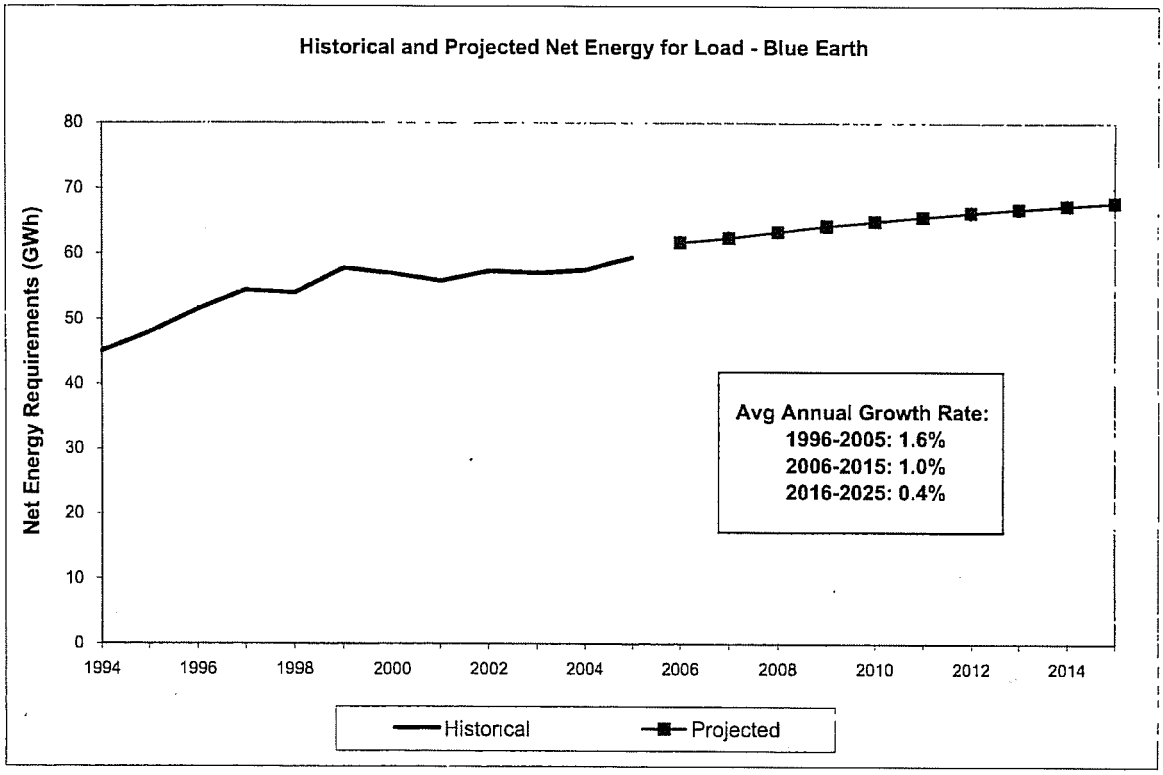
Statistical Output: Wilmar

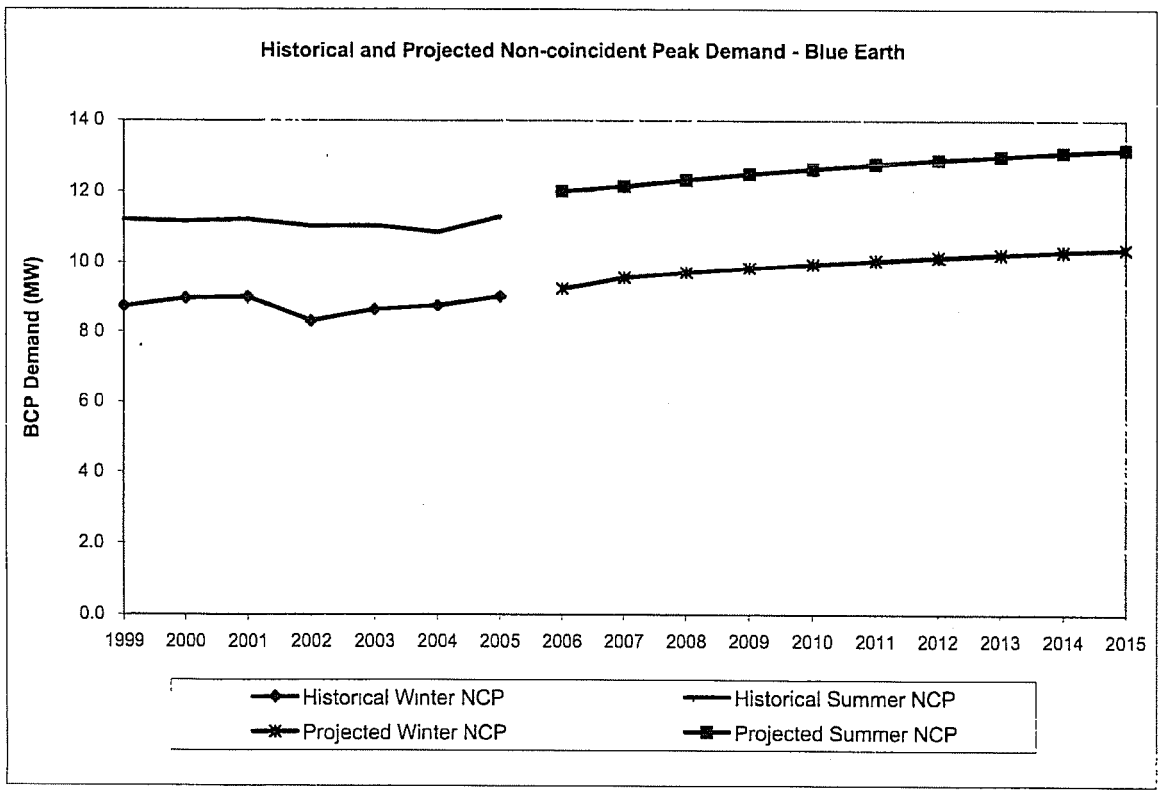
Dependent Variable: LOG(WI_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 12:10				
Sample: 1990 2005				
Included observations: 16				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.18	0.47	10.91	0.00
LOG(KANDPY)	1.01	0.07	15.37	0.00
CDD	6.59E-05	4.43E-05	1.49	0.16
HDD	3.52E-05	1.54E-05	2.29	0.04
R-squared	0.97	Mean dependent var		12.39
Adjusted R-squared	0.96	S.D. dependent var		0.14
S.E. of regression	0.03	Akaike info criterion		(4.06)
Sum squared resid	0.01	Schwarz criterion		(3.87)
Log likelihood	36.52	F-statistic		111.86
Durbin-Watson stat	1.39	Prob(F-statistic)		0.00

Statistical Output: Windom

Dependent Variable: LOG(WN_NEL)				
Method: Least Squares				
Date: 05/18/06 Time: 12:25				
Sample(adjusted): 1991 2005				
Included observations: 15 after adjusting endpoints				
Convergence achieved after 7 iterations				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	9.49	0.98	9.63	0.00
LOG(COTTGDP)	0.28	0.16	1.80	0.10
CDD	7.68E-05	3.78E-05	2.03	0.07
AR(1)	0.87	0.09	10.10	0.00
R-squared	0.97	Mean dependent var		11.00
Adjusted R-squared	0.96	S.D. dependent var		0.14
S.E. of regression	0.03	Akaike info criterion		(3.96)
Sum squared resid	0.01	Schwarz criterion		(3.77)
Log likelihood	33.66	F-statistic		104.85
Durbin-Watson stat	1.99	Prob(F-statistic)		0.00

Appendix B
BIG STONE II MEMBER LOAD FORECAST TABLES AND CHARTS


Historical and Projected Net Energy for Load - Blue Earth
Net Energy Requirements (GWh)
80
70
60
50
40
30
20
10
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 1.6%
2006-2015: 1.0%
2016-2025: 0.4%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Blue Earth
BCP Demand (MW)
14 0
12 0
10 0
8 0
6 0
4 0
2.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Blue Earth

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	51,547	-	51,105	-	-0 9%	8.2	-	71 8%	10.3	-	57.1%	#N/
	1997	54,409	5 6%	54,692	7 0%	0 5%	8.3	0 7%	75 2%	10.5	1 9%	59.2%	#N/
	1998	54,021	-0.7%	55,629	1 7%	3 0%	8 2	-1 1%	75.5%	10.6	1.4%	58 0%	#N/
	1999	57,811	7.0%	59,061	6 2%	2 2%	8 7	6 8%	75.6%	11.2	5 3%	58 9%	#N/
	2000	57,009	-1 4%	57,686	-2 3%	1 2%	9 0	2.7%	72.6%	11.2	-0 4%	58 3%	#N/
	2001	55,870	-2 0%	55,860	-3 2%	0 0%	9 0	0 4%	70.9%	11.2	0 5%	56 9%	#N/
	2002	57,374	2 7%	56,613	1 3%	-1 3%	8 3	-7.7%	78.8%	11.0	-1 7%	59 4%	#N/
	2003	57,103	-0 5%	56,744	0 2%	-0.6%	8 6	4 1%	75 4%	11 0	0 1%	59 1%	#N/
	2004	57,585	0 8%	59,116	4.2%	2 7%	8 7	1 2%	75 1%	10 9	-1 6%	60 6%	#N/
	2005	59,482	3 3%	59,290	0 3%	-0.3%	9 0	3 0%	75 3%	11 3	4 1%	60 1%	#N/
Projected	2006	61,767	3 8%	61,767	4.2%		9 2	2 5%	76.3%	12 0	6.4%	58.7%	8 9
	2007	62,457	1 1%	62,457	1 1%		9.6	3 4%	74 6%	12 1	1.1%	58.7%	9 0
	2008	63,404	1.5%	63,404	1.5%		9.7	1 5%	74.6%	12 3	1 5%	58.7%	9.1
	2009	64,292	1.4%	64,292	1.4%		9.8	1 4%	74 6%	12.5	1 4%	58.7%	9 2
	2010	65,002	1.1%	65,002	1 1%		10.0	1 1%	74 6%	12 6	1.1%	58.7%	9.3
	2011	65,692	1.1%	65,692	1.1%		10.1	1.1%	74.6%	12 8	1.1%	58.7%	9 4
	2012	66,332	1 0%	66,332	1 0%		10.2	1.0%	74 6%	12.9	1 0%	58.7%	9 5
	2013	66,860	0 8%	66,860	0 8%		10.2	0.8%	74 6%	13.0	0 8%	58 7%	9 6
	2014	67,359	0 7%	67,359	0 7%		10 3	0 7%	74.6%	13.1	0 7%	58 7%	9 7
	2015	67,811	0 7%	67,811	0 7%		10.4	0 7%	74 6%	13.2	0 7%	58 7%	9 7
	2016	68,230	0 6%	68,230	0.6%		10 4	0 6%	74.6%	13 3	0 6%	58.7%	9 8
	2017	68,695	0 7%	68,695	0.7%		10.5	0 7%	74.6%	13.4	0 7%	58 7%	9 9
	2018	69,066	0 5%	69,066	0.5%		10.6	0 5%	74 6%	13 4	0 5%	58 7%	9 9
	2019	69,315	0 4%	69,315	0.4%		10.6	0.4%	74 6%	13 5	0.4%	58.7%	10 0
	2020	69,545	0.3%	69,545	0 3%		10.6	0 3%	74 6%	13 5	0.3%	58.7%	10 0
	2021	69,731	0 3%	69,731	0.3%		10 7	0 3%	74 6%	13 6	0 3%	58.7%	10.0
	2022	69,960	0.3%	69,960	0 3%		10 7	0 3%	74.6%	13.6	0 3%	58 7%	10 1
	2023	70,217	0.4%	70,217	0 4%		10 7	0 4%	74 6%	13 7	0 4%	58 7%	10 1
	2024	70,409	0.3%	70,409	0 3%		10 8	0 3%	74 6%	13 7	0 3%	58.7%	10 1
	2025	70,605	0.3%	70,605	0.3%		10 8	0 3%	74 6%	13 7	0 3%	58 7%	10 1
AAGR	Thru 2005		1 6%		1 7%			1.1%	74 6%		1 0%	58.8%	
	2006-2015		1 0%		1.0%			1.3%	74 7%		1.0%	58.7%	
	2016-2025		0 4%		0 4%			0 4%	74.6%		0 4%	58.7%	

Blue Earth

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	4,644	4,075	4,538	4,350	4,273	5,390	6,291	5,614	5,031	4,378	4,223	4,567	57,374
	2003	4,896	4,327	4,527	4,184	4,195	4,881	5,949	5,961	4,880	4,417	4,185	4,701	57,103
	2004	5,003	4,542	4,588	4,181	4,331	5,026	5,769	5,240	5,146	4,543	4,410	4,803	57,585
	2005	4,892	4,206	4,539	4,244	4,432	5,469	6,330	6,077	5,357	4,619	4,325	4,993	59,482
Projected	2006	5,185	4,577	4,854	4,525	4,596	5,538	6,492	6,106	5,444	4,790	4,574	5,084	61,767
	2007	5,243	4,628	4,908	4,576	4,648	5,600	6,565	6,174	5,505	4,844	4,625	5,141	62,457
	2008	5,323	4,698	4,983	4,645	4,718	5,685	6,664	6,268	5,589	4,917	4,695	5,219	63,404
	2009	5,397	4,764	5,053	4,710	4,784	5,765	6,758	6,355	5,667	4,986	4,761	5,292	64,292
	2010	5,457	4,816	5,108	4,762	4,837	5,828	6,832	6,426	5,729	5,041	4,813	5,351	65,002
	2011	5,515	4,868	5,163	4,813	4,889	5,890	6,905	6,494	5,790	5,095	4,865	5,408	65,692
	2012	5,569	4,915	5,213	4,860	4,936	5,948	6,972	6,557	5,847	5,144	4,912	5,460	66,332
	2013	5,613	4,954	5,254	4,898	4,975	5,995	7,027	6,609	5,893	5,185	4,951	5,504	66,860
	2014	5,655	4,991	5,294	4,935	5,013	6,040	7,080	6,659	5,937	5,224	4,988	5,545	67,359
	2015	5,693	5,025	5,329	4,968	5,046	6,080	7,127	6,703	5,977	5,259	5,021	5,582	67,811
Projected	2016	5,728	5,056	5,362	4,999	5,077	6,118	7,171	6,745	6,014	5,291	5,052	5,616	68,230
	2017	5,767	5,090	5,399	5,033	5,112	6,159	7,220	6,791	6,055	5,328	5,087	5,655	68,695
	2018	5,798	5,118	5,428	5,060	5,140	6,193	7,259	6,827	6,088	5,356	5,114	5,685	69,066
	2019	5,819	5,136	5,447	5,078	5,158	6,215	7,286	6,852	6,110	5,376	5,133	5,706	69,315
	2020	5,838	5,153	5,465	5,095	5,175	6,236	7,310	6,875	6,130	5,393	5,150	5,725	69,545
	2021	5,854	5,167	5,480	5,109	5,189	6,252	7,329	6,893	6,146	5,408	5,164	5,740	69,731
	2022	5,873	5,184	5,498	5,126	5,206	6,273	7,353	6,916	6,166	5,426	5,181	5,759	69,960
	2023	5,895	5,203	5,518	5,144	5,225	6,296	7,380	6,941	6,189	5,446	5,200	5,780	70,217
	2024	5,911	5,217	5,533	5,158	5,240	6,313	7,400	6,960	6,206	5,460	5,214	5,796	70,409
	2025	5,927	5,232	5,549	5,173	5,254	6,331	7,421	6,979	6,223	5,476	5,228	5,812	70,605

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	8.1%	7.1%	7.9%	7.6%	7.4%	9.4%	11.0%	9.8%	8.8%	7.6%	7.4%	8.0%	100.0%
	2003	8.6%	7.6%	7.9%	7.3%	7.3%	8.5%	10.4%	10.4%	8.5%	7.7%	7.3%	8.2%	100.0%
	2004	8.7%	7.9%	8.0%	7.3%	7.5%	8.7%	10.0%	9.1%	8.9%	7.9%	7.7%	8.3%	100.0%
	2005	8.2%	7.1%	7.6%	7.1%	7.5%	9.2%	10.6%	10.2%	9.0%	7.8%	7.3%	8.4%	100.0%
Projected	2006	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2007	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2008	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2009	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2010	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2011	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2012	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2013	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2014	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
	2015	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2006-2015	8.4%	7.4%	7.9%	7.3%	7.4%	9.0%	10.5%	9.9%	8.8%	7.8%	7.4%	8.2%	100.0%

Blue Earth

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	78	112	112	112	106	83	83	83	#N/A
	2002	83	83	83	92	98	110	110	108	110	79	81	83	83
	2003	86	85	82	84	83	107	110	109	104	84	77	87	86
	2004	86	84	82	80	83	107	109	106	108	85	81	90	87
	2005	85	81	79	79	82	113	111	108	107	101	79	91	90
Projected	2006	92	90	87	87	93	119	120	117	117	100	90	96	92
	2007	93	91	88	88	94	120	121	119	119	101	92	97	96
	2008	95	93	89	90	95	122	123	120	120	103	93	98	97
	2009	96	94	91	91	97	124	125	122	122	104	94	100	98
	2010	97	95	92	92	98	125	126	123	123	105	95	101	100
	2011	98	96	93	93	99	126	128	125	125	107	96	102	101
	2012	99	97	93	94	100	128	129	126	126	108	97	102	102
	2013	100	98	94	95	100	129	130	127	127	108	97	103	102
	2014	101	98	95	95	101	130	131	128	128	109	98	104	103
	2015	101	99	96	96	102	131	132	129	129	110	99	104	104
Projected	2016	102	100	96	97	102	131	133	130	130	111	99	105	104
	2017	103	100	97	97	103	132	134	131	131	111	100	106	105
	2018	103	101	97	98	104	133	134	131	131	112	100	106	106
	2019	104	101	98	98	104	133	135	132	132	112	101	106	106
	2020	104	102	98	98	104	134	135	132	132	113	101	107	106
	2021	104	102	98	99	105	134	136	132	132	113	101	107	107
	2022	105	102	99	99	105	135	136	133	133	113	102	107	107
	2023	105	103	99	99	105	135	137	133	133	114	102	108	107
	2024	105	103	99	100	106	136	137	134	134	114	102	108	108
	2025	106	103	100	100	106	136	137	134	134	115	102	108	108

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002	75 6%	73 4%	73 8%	65 5%	58 3%	68 1%	76 7%	69 7%	63 8%	74 2%	72 9%	73 7%	78 8%
	2003	76 1%	75 6%	73 9%	69 3%	67 6%	63 4%	72 5%	73 6%	65 4%	70 4%	75 1%	72 2%	75 4%
	2004	78 3%	78 0%	75 2%	72 7%	70 4%	65 1%	71 5%	66 2%	66 1%	71 9%	75 7%	71 6%	75 1%
	2005	77 2%	77 0%	77 5%	74 6%	72 4%	67 3%	76 9%	75 5%	69 5%	61 4%	76 4%	74 0%	75 3%
Projected	2006	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 3%	71 5%	76 3%
	2007	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 0%	71 2%	74 6%
	2008	75 4%	72 9%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 1%	71 3%	74 6%
	2009	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 3%	71 5%	74 6%
	2010	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 3%	71 5%	74 6%
	2011	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 4%	71 6%	74 6%
	2012	75 4%	72 9%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 5%	71 7%	74 6%
	2013	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 5%	71 7%	74 6%
	2014	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 6%	71 8%	74 6%
	2015	75 4%	75 5%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 6%	71 8%	74 6%
Avg.	1996-2005	76 8%	76 0%	75 1%	70 5%	67 2%	66 0%	74 4%	71 2%	66 2%	69 5%	75 0%	72 9%	76 2%
	2006-2015	75 4%	75 0%	74 9%	71 9%	66 6%	64 7%	72 7%	69 9%	64 4%	64 3%	70 4%	71 6%	74 7%

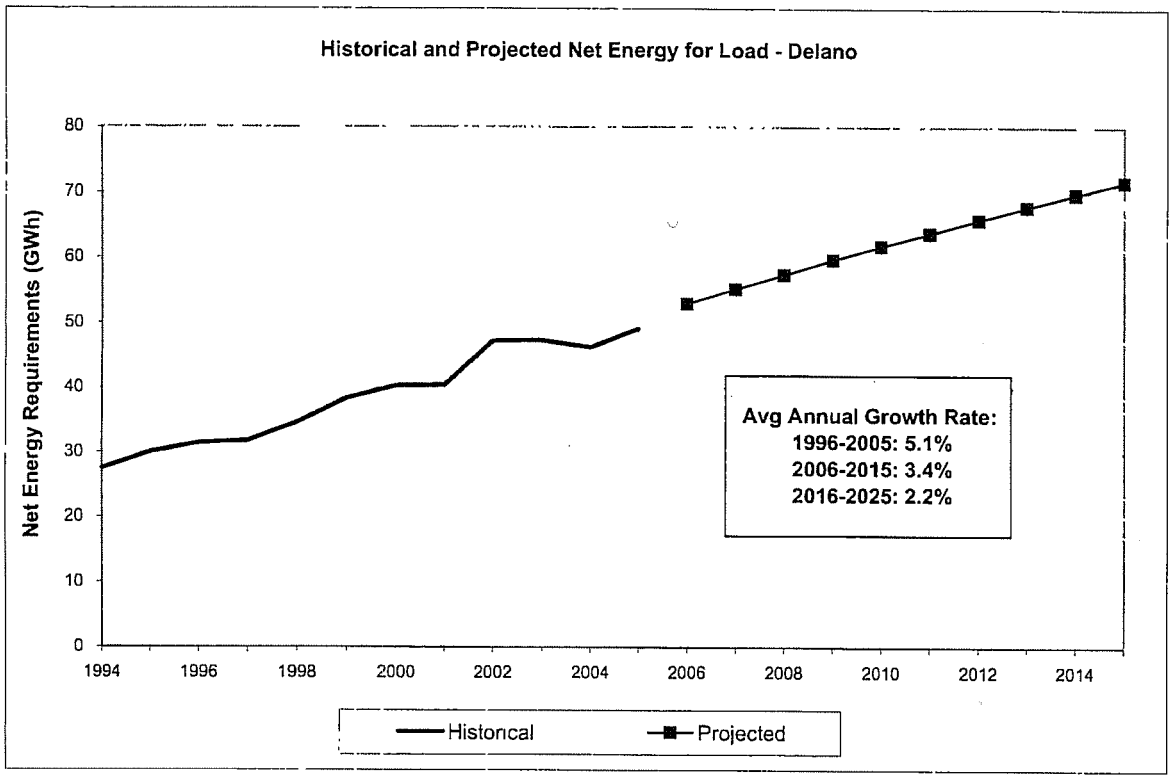
Blue Earth

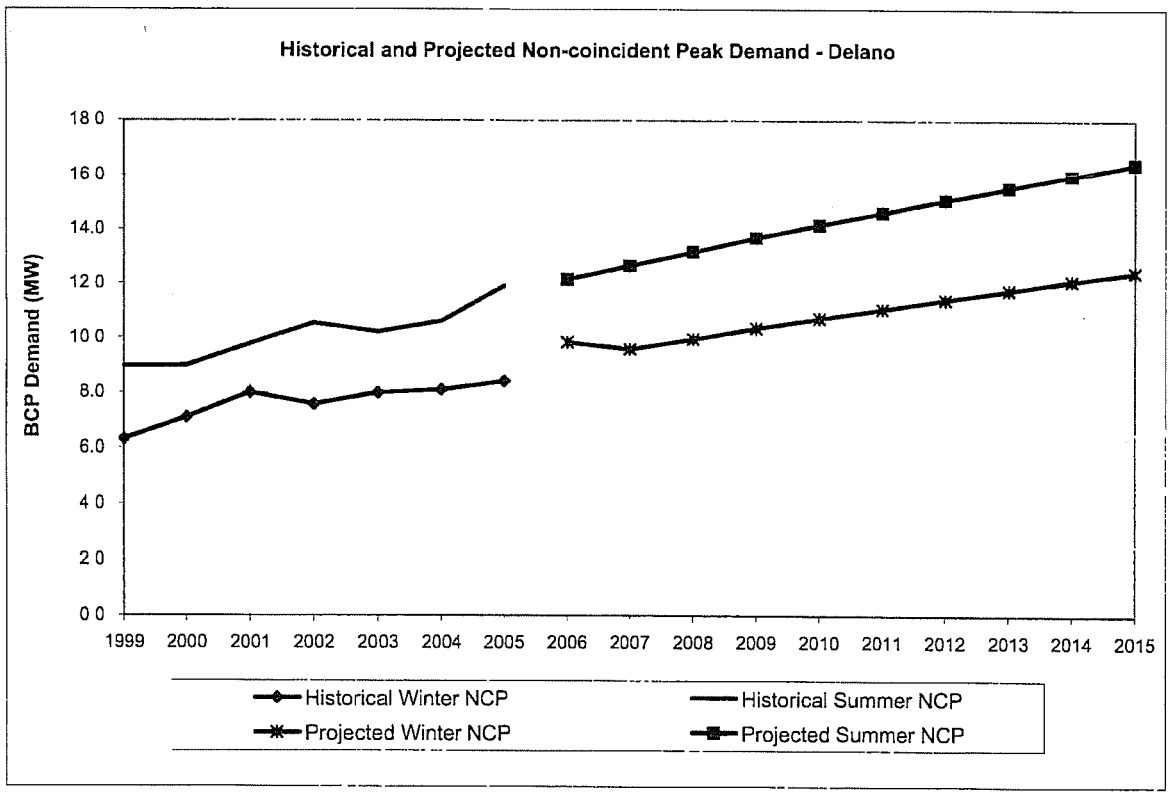
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
	2006	89	87	82	85	89	113	117	111	114	97	88	94	89	
	2007	90	88	83	86	90	114	119	113	115	98	89	96	90	
	2008	91	89	84	87	91	116	120	114	117	99	90	97	91	
Projected	2009	92	91	85	89	93	117	122	116	119	101	91	98	92	
	2010	93	92	86	90	94	119	123	117	120	102	92	99	93	
	2011	94	93	87	90	95	120	125	119	121	103	93	100	94	
	2012	95	94	88	91	96	121	126	120	122	104	94	101	95	
	2013	96	94	89	92	96	122	127	121	123	105	95	102	96	
	2014	97	95	89	93	97	123	128	122	124	105	95	102	97	
	2015	97	96	90	93	98	124	129	122	125	106	96	103	97	
	2016	98	96	91	94	98	125	130	123	126	107	96	104	98	
	2017	99	97	91	95	99	125	130	124	127	107	97	104	99	
	2018	99	97	92	95	100	126	131	125	127	108	97	105	99	
Projected	2019	100	98	92	95	100	126	132	125	128	108	98	105	100	
	2020	100	98	92	96	100	127	132	125	128	109	98	105	100	
	2021	100	98	93	96	101	127	132	126	129	109	98	106	100	
	2022	101	99	93	96	101	128	133	126	129	109	99	106	101	
	2023	101	99	93	97	101	128	133	127	129	110	99	106	101	
	2024	101	99	93	97	101	128	134	127	130	110	99	107	101	
	2025	101	100	94	97	102	129	134	127	130	110	99	107	101	

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
	2006	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	96 0%	
	2007	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2008	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
Projected	2009	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2010	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2011	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2012	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2013	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2014	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2015	96 0%	96 6%	94 1%	97 3%	96 0%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	93 9%	
	2006-2015	96 0%	96 6%	94 1%	97 3%	96 6%	94 8%	97 7%	95 0%	97 1%	96 4%	97 0%	98 6%	94 1%	


Historical and Projected Net Energy for Load - Delano
Net Energy Requirements (GWh)
80
70
60
50
40
30
20
10
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 5.1%
2006-2015: 3.4%
2016-2025: 2.2%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Delano
BCP Demand (MW)
18 0
16 0
14.0
12 0
10 0
8.0
6.0
4 0
2 0
0 0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Delano

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						Coi
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	31,428	-	31,660	-	0 7%	5.7	-	63.4%	7 0	-	51 0%	#N/A
	1997	31,818	1.2%	32,033	1 2%	0.7%	5 8	2 9%	62.4%	7 3	3.4%	49 9%	#N/A
	1998	34,634	8.9%	34,480	7 6%	-0 4%	5 9	2 1%	66.6%	8 1	11 1%	48 9%	#N/A
	1999	38,396	10 9%	38,202	10.8%	-0 5%	6 3	6 4%	69 4%	9.0	10.9%	48.9%	#N/A
	2000	40,311	5 0%	40,296	5 5%	0 0%	7.1	12 5%	64.7%	9 0	0 2%	51 2%	#N/A
	2001	40,459	0 4%	39,782	-1 3%	-1 7%	8.0	12 5%	57 7%	9.8	8 9%	47 2%	#N/A
	2002	47,242	16.8%	46,224	16 2%	-2 2%	7 6	-5 4%	71 3%	10.5	7.8%	51.1%	#N/A
	2003	47,366	0 3%	46,725	1 1%	-1 4%	8 0	5 5%	67.7%	10.2	-3 1%	52 9%	#N/A
	2004	46,262	-2.3%	46,687	-0 1%	0 9%	8 1	1 5%	65.2%	10.6	3.8%	49 8%	#N/A
	2005	49,162	6 3%	48,051	2 9%	-2 3%	8 4	3.9%	66 7%	11 9	12 3%	47 1%	#N/A
Projected	2006	52,972	7 7%	52,972	10 2%		9 8	17 0%	61 4%	12.1	1 9%	49.8%	8 7
	2007	55,223	4 2%	55,223	4.2%		9 6	-2.7%	65 8%	12 7	4 2%	49.8%	9 1
	2008	57,414	4 0%	57,414	4.0%		10 0	4.0%	65 8%	13 2	4 0%	49.8%	9 4
	2009	59,741	4 1%	59,741	4 1%		10 4	4.1%	65 8%	13 7	4.1%	49.8%	9 8
	2010	61,804	3 5%	61,804	3.5%		10 7	3.5%	65 8%	14 2	3 5%	49.8%	10.1
	2011	63,757	3 2%	63,757	3.2%		11 1	3.2%	65 8%	14 6	3.2%	49.8%	10 5
	2012	65,822	3 2%	65,822	3 2%		11 4	3.2%	65 8%	15.1	3.2%	49 8%	10 8
	2013	67,795	3 0%	67,795	3 0%		11.8	3 0%	65.8%	15 5	3.0%	49 8%	11 1
	2014	69,745	2 9%	69,745	2 9%		12 1	2 9%	65.8%	16 0	2.9%	49 8%	11 4
	2015	71,628	2 7%	71,628	2 7%		12.4	2 7%	65.8%	16 4	2 7%	49 8%	11 7
	2016	73,383	2.5%	73,383	2 5%		12 7	2 5%	65.8%	16 8	2 5%	49 8%	12.0
	2017	75,193	2.5%	75,193	2 5%		13 0	2 5%	65 8%	17 2	2 5%	49 8%	12.3
	2018	76,944	2 3%	76,944	2 3%		13 4	2 3%	65 8%	17.6	2 3%	49 8%	12.6
	2019	78,702	2.3%	78,702	2 3%		13.7	2.3%	65 8%	18.0	2 3%	49 8%	12 9
	2020	80,458	2 2%	80,458	2 2%		14 0	2.2%	65 8%	18.5	2 2%	49 8%	13 2
	2021	82,226	2.2%	82,226	2 2%		14 3	2.2%	65 8%	18.9	2.2%	49.8%	13 5
	2022	83,989	2 1%	83,989	2 1%		14 6	2.1%	65 8%	19 3	2 1%	49.8%	13 8
	2023	85,784	2 1%	85,784	2 1%		14 9	2 1%	65 8%	19 7	2.1%	49 8%	14 1
	2024	87,536	2.0%	87,536	2 0%		15 2	2 0%	65 8%	20 1	2.0%	49 8%	14 4
	2025	89,326	2 0%	89,326	2 0%		15 5	2 0%	65.8%	20 5	2.0%	49 8%	14 6
AAGR	Thru 2005		5 1%		4 7%			4 5%	65.5%		6 0%	49 8%	
	2006-2015		3.4%		3 4%			2 6%	65.3%		3 4%	49 8%	
	2016-2025		2.2%		2 2%			2 2%	65 8%		2 2%	49.8%	

Delano

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	3,985	3,489	3,730	3,600	3,577	4,062	4,927	4,195	3,982	3,956	3,710	4,028	47,24
	2003	4,183	3,747	3,836	3,562	3,564	3,824	4,536	4,622	3,830	3,779	3,726	4,156	47,36
	2004	4,309	3,878	3,879	3,473	3,394	3,651	4,302	3,917	3,912	3,640	3,711	4,195	46,26
	2005	4,330	3,784	3 980	3 470	3 617	4,356	4,917	4,564	4,068	3 827	3,811	4,438	49,16
Projected	2006	4,687	4,155	4,301	3,934	3,945	4,426	5,206	4,819	4,403	4,238	4,171	4,687	52,97
	2007	4,886	4,332	4,483	4,101	4,113	4,615	5,427	5,024	4,590	4,418	4,348	4,886	55,22
	2008	5,080	4,504	4,661	4,264	4,276	4,798	5,642	5,223	4,772	4,594	4,520	5,080	57,41
	2009	5,285	4,686	4,850	4,437	4,449	4,992	5,871	5,435	4,965	4,780	4,704	5,286	59,74
	2010	5,468	4,848	5,018	4,590	4,603	5,164	6,074	5,623	5,137	4,945	4,866	5,469	61,80
	2011	5,641	5,001	5,176	4,735	4,748	5,328	6,265	5,800	5,299	5,101	5,020	5,642	63,75
	2012	5,823	5,163	5,344	4,889	4,902	5,500	6,468	5,988	5,471	5,266	5,182	5,824	65,82
	2013	5 998	5 318	5 504	5 035	5 049	5 665	6 662	6,168	5,635	5,424	5,338	5,999	67,79
	2014	6,171	5,471	5,663	5,180	5,194	5,828	6,854	6,345	5,797	5,580	5,491	6,172	69,74
	2015	6,337	5,619	5,815	5,320	5,334	5,985	7,039	6,516	5,953	5,731	5,639	6,338	71,62
Projected	2016	6,492	5,756	5,958	5,450	5,465	6,132	7,211	6,676	6,099	5,871	5,778	6,493	73,38
	2017	6,653	5,898	6,105	5,585	5,600	6,283	7,389	6,841	6,250	6,016	5,920	6,654	75,19
	2018	6,807	6,036	6,247	5,715	5,730	6,430	7,561	7,000	6,395	6,156	6,058	6,808	76,94
	2019	6,963	6,174	6,390	5,845	5,861	6,577	7,734	7,160	6,541	6,297	6,196	6,964	78,70
	2020	7,118	6,311	6,532	5,976	5,992	6,723	7,907	7,319	6,687	6,437	6,335	7,119	80,45
	2021	7,275	6,450	6,676	6,107	6,124	6,871	8,080	7,480	6,834	6,579	6,474	7,276	82,22
	2022	7,431	6,588	6,819	6,238	6,255	7,018	8,254	7,641	6,981	6,720	6,613	7,432	83,98
	2023	7,589	6,729	6,965	6,371	6,389	7,168	8,430	7,804	7,130	6,864	6,754	7,591	85,78
	2024	7,745	6,867	7 107	6 501	6 519	7,315	8,602	7,963	7,276	7,004	6,892	7,746	87,53
	2025	7,903	7,007	7,252	6,634	6,652	7,464	8,778	8,126	7,424	7,147	7,033	7,904	89,32

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	8 4%	7 4%	7 9%	7 6%	7 6%	8 6%	10 4%	8 9%	8 4%	8 4%	7 9%	8 5%	100 0%
	2003	8 8%	7 9%	8 1%	7 5%	7 5%	8 1%	9 6%	9 8%	8 1%	8 0%	7 9%	8 8%	100 0%
	2004	9 3%	8 4%	8 4%	7 5%	7 3%	7 9%	9 3%	8 5%	8 5%	7 9%	8 0%	9 1%	100 0%
	2005	8 8%	7 7%	8 1%	7 1%	7 4%	8 9%	10 0%	9 3%	8 3%	7 8%	7 8%	9 0%	100 0%
Projected	2006	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2007	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2008	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2009	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2010	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2011	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2012	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2013	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2014	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
	2015	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2006-2015	8 8%	7 8%	8 1%	7 4%	7 4%	8 4%	9 8%	9 1%	8 3%	8 0%	7 9%	8 8%	100 0%

Delano

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	61	90	96	98	75	65	71	74	#N/A
	2002	76	70	70	73	80	97	105	90	102	74	74	80	76
	2003	76	73	72	71	71	89	94	102	90	73	73	77	80
	2004	81	77	74	72	76	94	106	93	99	73	76	82	81
	2005	84	79	77	75	78	112	116	119	103	92	83	98	84
Projected	2006	92	86	84	82	90	105	121	115	110	83	89	94	98
	2007	96	90	87	85	94	110	127	120	115	87	92	98	96
	2008	100	94	91	89	98	114	132	125	119	90	96	101	100
	2009	104	97	94	92	102	119	137	130	124	94	99	105	104
	2010	107	101	98	96	105	123	142	134	129	97	103	108	107
	2011	111	104	101	99	109	127	146	138	133	100	106	112	111
	2012	114	107	104	102	112	131	151	143	137	103	109	115	114
	2013	118	111	107	105	115	135	155	147	141	106	112	118	118
	2014	121	114	110	108	119	139	160	151	145	110	115	122	121
	2015	124	117	113	111	122	143	164	156	149	112	118	125	124
Projected	2016	127	120	116	114	125	146	168	159	153	115	121	128	127
	2017	130	123	119	116	128	150	172	163	156	118	124	131	130
	2018	134	125	122	119	131	153	176	167	160	121	127	134	134
	2019	137	128	124	122	134	157	180	171	164	124	129	137	137
	2020	140	131	127	125	137	160	185	175	167	126	132	140	140
	2021	143	134	130	127	140	164	189	179	171	129	135	143	143
	2022	146	137	133	130	143	167	193	182	175	132	138	146	146
	2023	149	140	136	133	146	171	197	186	179	135	141	149	149
	2024	152	143	138	136	149	174	201	190	182	137	144	152	152
	2025	155	146	141	138	152	178	205	194	186	140	147	155	155

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002	70 8%	74 2%	71 9%	68 1%	60 0%	58 2%	62 8%	62 4%	54 3%	71 8%	70 0%	67 8%	71 3%
	2003	73 7%	76 1%	71 2%	70 1%	67 4%	59 5%	65 2%	60 8%	58 8%	69 3%	70 8%	72 6%	67 7%
	2004	71 5%	71 9%	70 6%	66 8%	59 8%	53 7%	54 5%	56 7%	54 8%	66 9%	67 9%	68 8%	65 2%
	2005	69 2%	71 2%	69 8%	64 0%	62 6%	54 1%	57 0%	51 5%	54 6%	55 7%	63 7%	60 6%	66 7%
Projected	2006	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 2%	67 2%	61 4%
	2007	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 4%	67 3%	65 8%
	2008	68 5%	69 1%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 3%	67 3%	65 8%
	2009	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 7%	67 7%	65 8%
	2010	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 9%	67 9%	65 8%
	2011	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 9%	67 8%	65 8%
	2012	68 5%	69 1%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	66 0%	68 0%	65 8%
	2013	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	66 1%	68 1%	65 8%
	2014	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	66 2%	68 2%	65 8%
	2015	68 5%	71 6%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	66 4%	68 3%	65 8%
Avg.	1996-2005	71 3%	73 3%	70 9%	67 2%	62 4%	56 4%	59 9%	57 8%	55 7%	65 9%	68 1%	67 5%	67 7%
	2006-2015	68 5%	71 1%	69 0%	66 6%	58 8%	58 3%	57 6%	56 3%	55 5%	68 5%	65 8%	67 8%	65 3%

3402

Delano

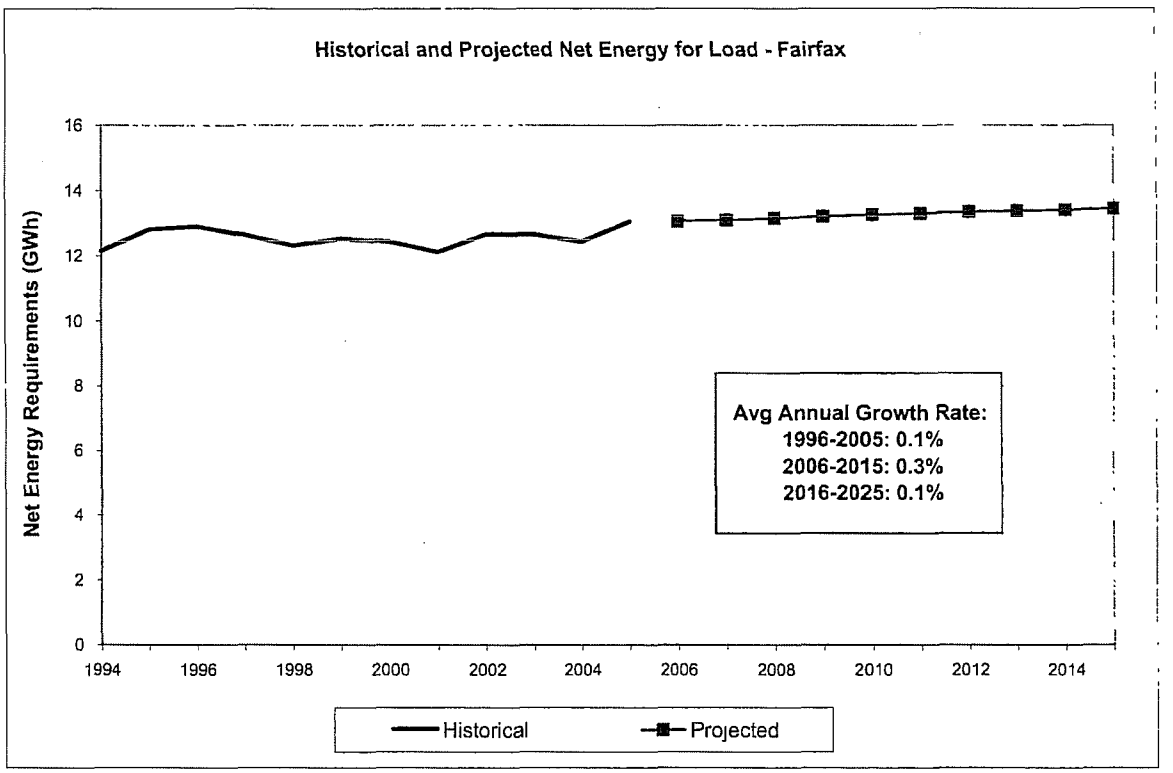
Monthly Coincident-Peak Demand (MW)

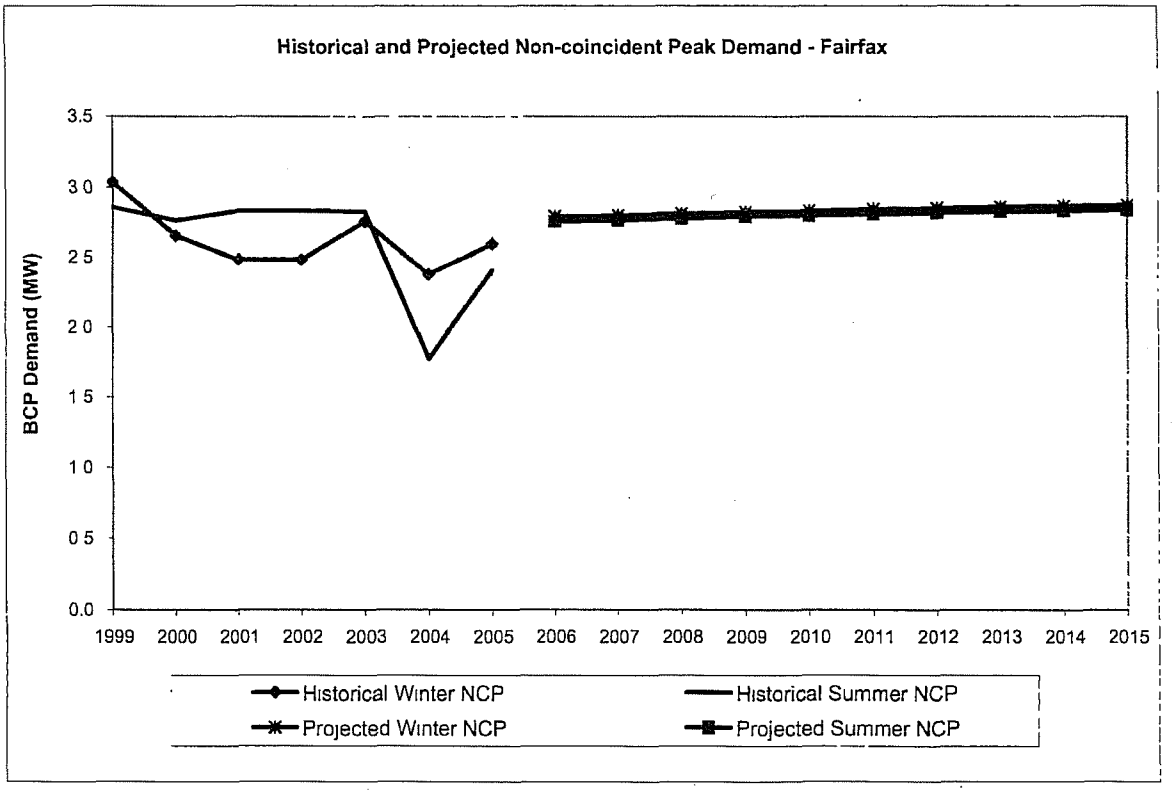
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	87	83	83	79	89	104	115	114	107	81	87	91	87
	2007	91	86	87	83	93	108	120	119	111	84	91	95	91
	2008	94	90	90	86	97	112	125	123	116	88	95	99	94
	2009	98	93	94	90	101	117	130	128	120	91	98	102	98
	2010	101	97	97	93	104	121	134	133	125	94	101	106	101
	2011	105	100	100	96	107	125	139	137	128	97	104	109	105
	2012	108	103	103	99	111	129	143	142	133	101	107	112	108
	2013	111	106	106	102	114	133	147	146	137	104	110	115	111
	2014	114	109	109	105	117	136	152	150	141	107	113	119	114
	2015	117	112	112	107	121	140	156	154	144	109	116	121	117
Projected	2016	120	115	115	110	124	144	159	158	148	112	119	124	120
	2017	123	117	118	113	127	147	163	162	151	115	122	127	123
	2018	126	120	121	115	130	151	167	165	155	118	125	130	126
	2019	129	123	123	118	133	154	171	169	159	120	127	133	129
	2020	132	126	126	121	135	157	175	173	162	123	130	136	132
	2021	135	128	129	123	138	161	179	177	166	126	133	139	135
	2022	138	131	132	126	141	164	182	181	169	128	136	142	138
	2023	141	134	135	129	144	168	186	184	173	131	139	145	141
	2024	144	137	137	131	147	171	190	188	176	134	141	148	144
	2025	146	139	140	134	150	175	194	192	180	136	144	151	146

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	88 2%
	2007	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2008	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2009	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2010	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2011	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2012	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2013	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2014	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2015	94 5%	95 8%	99 2%	96 8%	98 9%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	94 5%
	2006-2015	94 5%	95 8%	99 2%	96 8%	95 8%	98 2%	94 7%	99 1%	96 8%	97 3%	98 4%	97 4%	93 9%

3403


Historical and Projected Net Energy for Load - Fairfax
Net Energy Requirements (GWh)
16
14
12
10
8
6
4
2
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 0.1%
2006-2015: 0.3%
2016-2025: 0.1%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Fairfax
BCP Demand (MW)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Fairfax

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	12,906	-	12,496	-	-3 2%	2.8	-	52 8%	2 3	-	64.1%	#N/
	1997	12,649	-2 0%	12,616	1 0%	-0 3%	2 7	-3.7%	53.8%	2 3	0 1%	62.7%	#N/
	1998	12,328	-2 5%	13,212	4.7%	7 2%	2 9	8.9%	48 1%	2 8	21.3%	50.4%	#N/
	1999	12,543	1 7%	13,241	0.2%	5 6%	3 0	3 8%	47.2%	2.9	2.3%	50 1%	#N/
	2000	12,445	-0.8%	12,761	-3.6%	2.5%	2.7	-12 5%	53.5%	2.8	-3.3%	51.4%	#N/
	2001	12,126	-2 6%	12,532	-1 8%	3.3%	2 5	-6.4%	55.7%	2.8	2.6%	48 8%	#N/
	2002	12,674	4 5%	12,872	2 7%	1.6%	2.5	0.0%	58.2%	2 8	0 0%	51 1%	#N/
	2003	12,671	0.0%	12,848	-0 2%	1 4%	2.8	10.9%	52 5%	2 8	-0 2%	51.2%	#N/
	2004	12,452	-1.7%	12,909	0 5%	3 7%	2 4	-13 8%	59.8%	1 8	-37.2%	80 1%	#N/
	2005	13,063	4.9%	13,575	5 2%	3 9%	2 6	9 3%	57.4%	2 4	35.5%	62.0%	#N/
Projected	2006	13,068	0.0%	13,068	-3 7%		2 8	7.5%	53 4%	2 8	14 7%	54 1%	2.7
	2007	13,104	0.3%	13,104	0 3%		2.8	0 3%	53 4%	2 8	0 3%	54.1%	2 7
	2008	13,164	0.5%	13,164	0.5%		2 8	0.5%	53 4%	2 8	0 5%	54.1%	2.7
	2009	13,221	0 4%	13,221	0 4%		2 8	0 4%	53 4%	2 8	0 4%	54 1%	2.7
	2010	13,266	0 3%	13,266	0.3%		2 8	0 3%	53 4%	2 8	0 3%	54.1%	2.7
	2011	13,311	0 3%	13,311	0.3%		2.8	0 3%	53.4%	2.8	0 3%	54.1%	2 7
	2012	13,353	0 3%	13,353	0.3%		2.9	0 3%	53 4%	2 8	0 3%	54.1%	2 7
	2013	13,389	0 3%	13,389	0 3%		2.9	0 3%	53.4%	2.8	0 3%	54 1%	2 7
	2014	13,421	0.2%	13,421	0 2%		2 9	0 2%	53 4%	2 8	0.2%	54 1%	2.7
	2015	13,451	0 2%	13,451	0 2%		2 9	0.2%	53 4%	2 8	0 2%	54 1%	2 7
	2016	13,479	0.2%	13,479	0 2%		2 9	0.2%	53 4%	2.8	0 2%	54.1%	2 7
	2017	13,509	0.2%	13,509	0.2%		2.9	0 2%	53 4%	2 9	0 2%	54.1%	2 8
	2018	13,532	0 2%	13,532	0.2%		2 9	0.2%	53.4%	2.9	0.2%	54 1%	2 8
	2019	13,548	0 1%	13,548	0 1%		2.9	0 1%	53.4%	2 9	0 1%	54 1%	2 8
	2020	13,564	0 1%	13,564	0.1%		2.9	0 1%	53 4%	2 9	0 1%	54 1%	2 8
	2021	13,577	0.1%	13,577	0.1%		2 9	0 1%	53 4%	2.9	0 1%	54.1%	2 8
	2022	13,593	0 1%	13,593	0 1%		2.9	0.1%	53 4%	2 9	0 1%	54.1%	2 8
	2023	13,610	0 1%	13,610	0 1%		2 9	0 1%	53 4%	2 9	0 1%	54.1%	2.8
	2024	13,624	0 1%	13,624	0 1%		2.9	0 1%	53.4%	2 9	0.1%	54.1%	2 8
	2025	13,638	0 1%	13,638	0.1%		2 9	0 1%	53 4%	2 9	0 1%	54 1%	2 8
AAGR	Thru 2005		0.1%		0.9%			-0 8%	53 9%		0 5%	57.2%	
	2006-2015		0.3%		0 3%			0.3%	53 4%		0 3%	54.1%	
	2016-2025		0.1%		0 1%			0.1%	53 4%		0 1%	54.1%	

Fairfax

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	1,183	1,151	1,066	886	788	898	1,088	1,011	890	983	1,047	1,135	12,12
	2002	1,154	1,051	1,123	939	844	905	1,219	1,055	1,029	1,124	1,089	1,141	12,67
	2003	1,288	1,213	1,134	920	821	878	1,067	1,126	972	1,056	1,022	1,165	12,67
	2004	1,241	1,133	1,075	927	915	937	1,090	956	933	967	999	1,278	12,45
	2005	1,361	1,087	1,121	873	869	1,010	1,143	1,014	932	1,065	1,232	1,354	13,06
Projected	2006	1,291	1,170	1,145	944	879	960	1,163	1,071	987	1,080	1,117	1,259	13,06
	2007	1,295	1,174	1,148	946	882	963	1,167	1,074	990	1,083	1,120	1,263	13,10
	2008	1,301	1,179	1,154	950	886	967	1,172	1,079	994	1,088	1,126	1,269	13,16
	2009	1,307	1,184	1,159	955	890	971	1,177	1,084	998	1,092	1,130	1,274	13,22
	2010	1,311	1,188	1,163	958	893	975	1,181	1,088	1,002	1,096	1,134	1,279	13,26
	2011	1,315	1,192	1,167	961	896	978	1,185	1,091	1,005	1,100	1,138	1,283	13,31
	2012	1,320	1,196	1,170	964	898	981	1,189	1,095	1,008	1,103	1,142	1,287	13,35
	2013	1,323	1,199	1,173	967	901	984	1,192	1,098	1,011	1,106	1,145	1,290	13,38
	2014	1,326	1,202	1,176	969	903	986	1,195	1,100	1,014	1,109	1,148	1,294	13,42
	2015	1,329	1,205	1,179	971	905	988	1,197	1,103	1,016	1,111	1,150	1,296	13,45
Projected	2016	1,332	1,207	1,181	973	907	990	1,200	1,105	1,018	1,113	1,152	1,299	13,47
	2017	1,335	1,210	1,184	975	909	992	1,203	1,108	1,020	1,116	1,155	1,302	13,50
	2018	1,337	1,212	1,186	977	911	994	1,205	1,109	1,022	1,118	1,157	1,304	13,53
	2019	1,339	1,213	1,187	978	912	995	1,206	1,111	1,023	1,119	1,158	1,306	13,54
	2020	1,340	1,215	1,189	979	913	997	1,207	1,112	1,024	1,121	1,160	1,307	13,56
	2021	1,342	1,216	1,190	980	914	998	1,209	1,113	1,025	1,122	1,161	1,308	13,57
	2022	1,343	1,217	1,191	981	915	999	1,210	1,114	1,026	1,123	1,162	1,310	13,59
	2023	1,345	1,219	1,193	983	916	1,000	1,212	1,116	1,028	1,124	1,164	1,312	13,61
	2024	1,346	1,220	1,194	984	917	1,001	1,213	1,117	1,029	1,125	1,165	1,313	13,62
	2025	1,348	1,221	1,195	985	918	1,002	1,214	1,118	1,030	1,127	1,166	1,314	13,63

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	9 8%	9 5%	8 8%	7 3%	6 5%	7 4%	9 0%	8 3%	7 3%	8 1%	8 6%	9 4%	100 0
	2002	9 1%	8 3%	8 9%	7 4%	6 7%	7 1%	9 6%	8 3%	8 1%	8 9%	8 6%	9 0%	100 0
	2003	10 2%	9 6%	8 9%	7 3%	6 5%	6 9%	8 4%	8 9%	7 7%	8 4%	8 1%	9 2%	100 0
	2004	10 0%	9 1%	8 6%	7 4%	7 3%	7 5%	8 8%	7 7%	7 5%	7 8%	8 0%	10 3%	100 0
	2005	10 4%	8 3%	8 6%	6 7%	6 7%	7 7%	8 7%	7 8%	7 1%	8 2%	9 4%	10 4%	100 0
Projected	2006	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2007	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2008	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2009	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2010	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2011	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2012	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2013	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2014	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
	2015	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2006-2015	9 9%	9 0%	8 8%	7 2%	6 7%	7 3%	8 9%	8 2%	7 6%	8 3%	8 6%	9 6%	100 0

3406

Fairfax

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	23	25	21	18	19	24	27	28	22	22	25	23	#N/A
	2002	24	24	22	22	20	25	28	25	26	22	23	25	25
	2003	28	27	25	22	19	25	27	28	22	22	23	24	28
	2004	17	17	15	13	15	18	18	18	17	14	16	17	24
	2005	26	22	21	17	18	24	24	24	21	19	25	24	26
Projected	2006	28	26	20	19	21	25	28	27	23	22	24	24	28
	2007	28	26	21	19	21	25	28	27	24	22	24	24	28
	2008	28	26	21	19	21	26	28	27	24	22	24	24	28
	2009	28	26	21	19	21	26	28	27	24	22	24	24	28
	2010	28	27	21	19	21	26	28	27	24	22	24	24	28
	2011	28	27	21	20	21	26	28	27	24	22	24	24	28
	2012	29	27	21	20	21	26	28	27	24	23	24	24	29
	2013	29	27	21	20	21	26	28	27	24	23	24	24	29
	2014	29	27	21	20	21	26	28	27	24	23	24	24	29
	2015	29	27	21	20	21	26	28	27	24	23	24	24	29
Projected	2016	29	27	21	20	21	26	28	27	24	23	25	25	29
	2017	29	27	21	20	21	26	29	28	24	23	25	25	29
	2018	29	27	21	20	21	26	29	28	24	23	25	25	29
	2019	29	27	21	20	21	26	29	28	24	23	25	25	29
	2020	29	27	21	20	21	26	29	28	24	23	25	25	29
	2021	29	27	21	20	21	26	29	28	24	23	25	25	29
	2022	29	27	21	20	21	26	29	28	24	23	25	25	29
	2023	29	27	21	20	21	26	29	28	24	23	25	25	29
	2024	29	27	21	20	21	26	29	28	24	23	25	25	29
	2025	29	27	21	20	21	26	29	28	25	23	25	25	29

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001	68 7%	68 9%	68 0%	67 1%	56 5%	51 2%	53 6%	47 9%	56 8%	60 2%	58 5%	67 8%	
	2002	64 3%	64 5%	68 3%	58 2%	56 1%	51 2%	57 8%	57 8%	54 5%	69 0%	65 2%	62 5%	58 2%
	2003	62 8%	67 8%	61 4%	58 2%	59 5%	49 2%	53 9%	53 5%	60 8%	63 9%	62 8%	65 9%	52 5%
	2004	99 0%	96 6%	95 2%	98 3%	81 5%	73 3%	02 6%	72 7%	77 6%	93 9%	87 7%	101 9%	59 8%
	2005	70 4%	73 3%	70 5%	70 2%	66 0%	58 3%	64 2%	56 8%	60 9%	74 2%	69 3%	74 7%	57 4%
Projected	2006	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 2%	71 1%	53 4%
	2007	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 0%	70 9%	53 4%
	2008	62 2%	64 4%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 1%	71 0%	53 4%
	2009	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 1%	71 0%	53 4%
	2010	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	64 1%	58 4%	65 8%	65 1%	71 0%	53 4%
	2011	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 1%	71 0%	53 4%
	2012	62 2%	64 4%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 2%	71 1%	53 4%
	2013	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 2%	71 1%	53 4%
	2014	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 2%	71 1%	53 4%
	2015	62 2%	66 7%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 2%	71 1%	53 4%
Avg.	1996-2005	73 0%	74 2%	72 7%	70 4%	63 9%	56 6%	62 4%	57 7%	62 1%	72 2%	68 7%	74 6%	57 0%
	2006-2015	62 2%	66 2%	75 2%	68 4%	57 5%	52 6%	56 7%	54 1%	58 4%	65 8%	65 1%	71 1%	53 4%

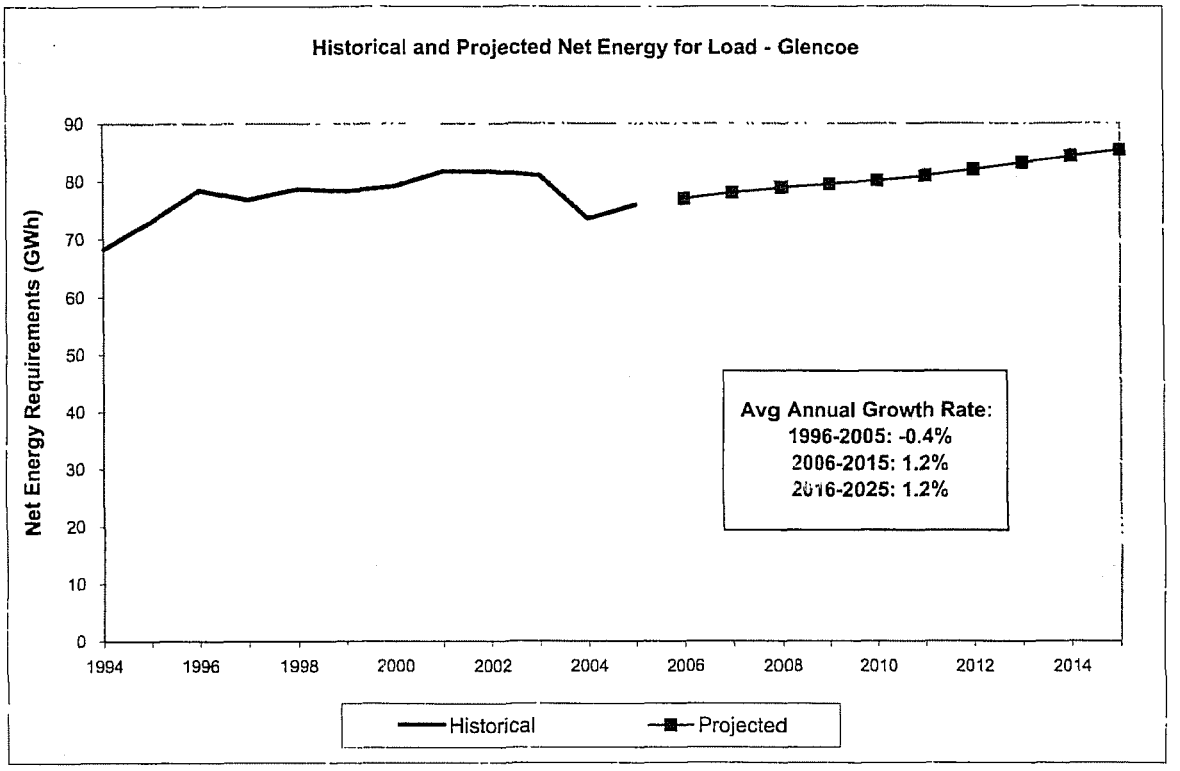
Fairfax

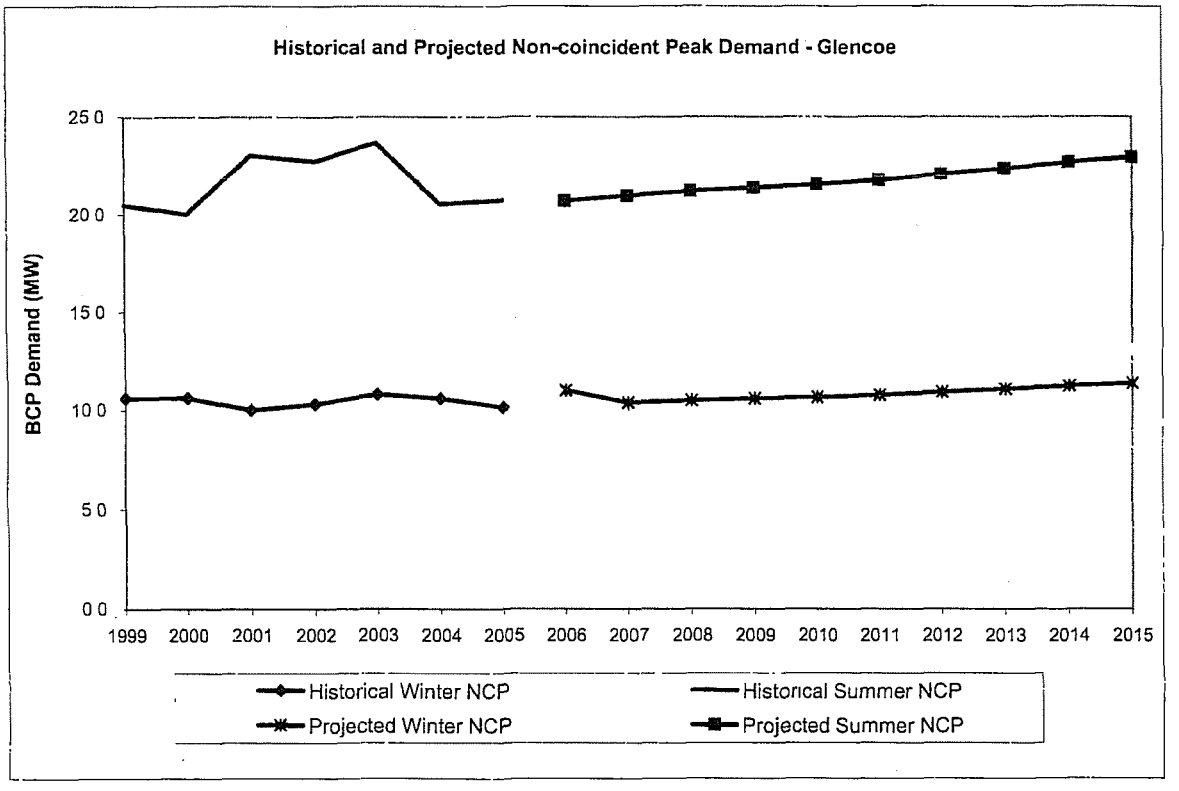
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	27	25	19	18	20	24	26	26	23	20	23	23	27
	2007	27	25	19	18	20	24	26	26	23	21	23	23	27
	2008	27	25	20	18	20	24	26	26	23	21	23	23	27
	2009	27	25	20	18	20	24	26	26	23	21	23	23	27
	2010	27	25	20	19	20	24	26	26	23	21	23	23	27
	2011	27	25	20	19	20	24	26	26	23	21	23	23	27
	2012	27	25	20	19	20	24	27	26	23	21	23	24	27
	2013	27	25	20	19	20	24	27	26	23	21	23	24	27
	2014	27	25	20	19	20	24	27	26	23	21	23	24	27
	2015	27	25	20	19	20	24	27	26	23	21	24	24	27
Projected	2016	27	25	20	19	20	24	27	26	23	21	24	24	27
	2017	28	25	20	19	20	24	27	26	23	21	24	24	28
	2018	28	26	20	19	20	25	27	27	23	21	24	24	28
	2019	28	26	20	19	21	25	27	27	23	21	24	24	28
	2020	28	26	20	19	21	25	27	27	23	21	24	24	28
	2021	28	26	20	19	21	25	27	27	24	21	24	24	28
	2022	28	26	20	19	21	25	27	27	24	21	24	24	28
	2023	28	26	20	19	21	25	27	27	24	21	24	24	28
	2024	28	26	20	19	21	25	27	27	24	21	24	24	28
	2025	28	26	20	19	21	25	27	27	24	21	24	24	28

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2007	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2008	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2009	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2010	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2011	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2012	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2013	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2014	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2015	95 4%	94 4%	94 8%	95 4%	96 3%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%
	2006-2015	95 4%	94 4%	94 8%	95 4%	94 4%	93 4%	94 2%	96 3%	96 4%	93 0%	96 1%	96 8%	95 4%


Historical and Projected Net Energy for Load - Glencoe
Net Energy Requirements (GWh)
90
80
70
60
50
40
30
20
10
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: -0.4%
2006-2015: 1.2%
2016-2025: 1.2%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Glencoe
BCP Demand (MW)
25 0
20 0
15 0
10 0
5 0
0 0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Glencoe

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	78,461	-	77,720	-	-0.9%	10 1	-	88.3%	20.2	-	44.4%	#N/A
	1997	76,879	-2.0%	77,395	-0 4%	0.7%	10 6	4 5%	82.8%	19 3	-4.4%	45.5%	#N/A
	1998	78,725	2 4%	81,454	5 2%	3.5%	10 6	0.0%	84.8%	20.9	8.3%	43 0%	#N/A
	1999	78,364	-0 5%	80,324	-1 4%	2.5%	10 6	0.0%	84.4%	20.5	-1.9%	43 6%	#N/A
	2000	79,143	1 0%	80,246	-0 1%	1 4%	10 6	0.1%	85 1%	20.0	-2 3%	45.1%	#N/A
	2001	81,751	3 3%	81,613	1 7%	-0 2%	10 0	-5.8%	93 3%	23.1	15.1%	40.5%	#N/A
	2002	81,781	0 0%	80,353	-1 5%	-1.7%	10 3	3 0%	90 7%	22.7	-1 4%	41.1%	#N/A
	2003	81,066	-0 9%	80,371	0 0%	-0.9%	10 8	4 8%	85 7%	23 7	4 2%	39.1%	#N/A
	2004	73,561	-9 3%	75,926	-5 5%	3 2%	10.6	-1 9%	79 3%	20.5	-13 3%	40.9%	#N/A
	2005	75,995	3 3%	75,555	-0 5%	-0 6%	10 1	-4 3%	85 6%	20 7	1 0%	41.8%	#N/A
Projected	2006	77,016	1 3%	77,016	1 9%		11.0	8 3%	80 1%	20 7	-0 2%	42.5%	9 8
	2007	78,047	1.3%	78,047	1.3%		10 4	-5 6%	85.9%	21 0	1 3%	42 5%	9 9
	2008	78,863	1 0%	78,863	1 0%		10.5	1.0%	85 9%	21 2	1 0%	42 5%	10.0
	2009	79,523	0.8%	79,523	0 8%		10 6	0.8%	85.9%	21 4	0.8%	42 5%	10.1
	2010	80,154	0.8%	80,154	0 8%		10 6	0.8%	85.9%	21 6	0.8%	42 5%	10.2
	2011	80,944	1.0%	80,944	1 0%		10 8	1.0%	85.9%	21.8	1 0%	42.5%	10 3
	2012	82,081	1 4%	82,081	1 4%		10 9	1.4%	85 9%	22.1	1.4%	42 5%	10 4
	2013	83,230	1 4%	83,230	1 4%		11.1	1.4%	85 9%	22.4	1.4%	42 5%	10 6
	2014	84,361	1 4%	84,361	1 4%		11 2	1.4%	85 9%	22.7	1 4%	42 5%	10 7
	2015	85,404	1 2%	85,404	1.2%		11 3	1 2%	85 9%	23.0	1 2%	42.5%	10 8
	2016	86,439	1 2%	86,439	1 2%		11.5	1 2%	85 9%	23 2	1 2%	42.5%	11 0
	2017	87,426	1 1%	87,426	1.1%		11 6	1.1%	85 9%	23 5	1 1%	42.5%	11 1
	2018	88,405	1 1%	88,405	1 1%		11.7	1 1%	85 9%	23.8	1 1%	42 5%	11.2
	2019	89,425	1.2%	89,425	1 2%		11.9	1 2%	85 9%	24.0	1 2%	42 5%	11.4
	2020	90,456	1 2%	90,456	1 2%		12 0	1 2%	85 9%	24 3	1.2%	42 5%	11.5
	2021	91,519	1.2%	91,519	1 2%		12 2	1 2%	85 9%	24 6	1 2%	42 5%	11.6
	2022	92,614	1 2%	92,614	1 2%		12 3	1 2%	85 9%	24 9	1 2%	42 5%	11 8
	2023	93,701	1.2%	93,701	1 2%		12 4	1.2%	85 9%	25.2	1.2%	42 5%	11 9
	2024	94,779	1.2%	94,779	1 2%		12.6	1 2%	85.9%	25.5	1.2%	42 5%	12 0
	2025	95,848	1.1%	95,848	1 1%		12.7	1 1%	85 9%	25 8	1.1%	42 5%	12 2
AAGR	Thru 2005		-0 4%		-0 3%			0.0%	86 0%		0 3%	42 5%	
	2006-2015		1.2%		1 2%			0.4%	85 3%		1 2%	42 5%	
	2016-2025		1 2%		1.2%			1 2%	85 9%		1 2%	42.5%	

Glencoe

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Tota
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2002	5,812	5,189	5,692	5,309	5,335	7,115	9,327	11,077	10,154	5,450	5,411	5,909	81,7
	2003	6,038	5,385	5,564	5,140	5,276	6,882	9,664	11,662	8,873	5,778	5,124	5,681	81,0
	2004	5,857	5,276	5,442	5,066	5,104	5,809	7,787	7,846	9,071	5,849	4,940	5,513	73,5
	2005	5,603	4,819	5,150	4,692	4,839	6,596	8,227	10,519	9,765	5,062	5,016	5,705	75,9
Projected	2006	5,755	5,103	5,391	4,986	5,071	6,501	8,614	10,097	9,346	5,469	5,055	5,629	77,0
	2007	5,832	5,171	5,463	5,052	5,139	6,588	8,729	10,232	9,472	5,542	5,122	5,704	78,0
	2008	5,893	5,225	5,520	5,105	5,193	6,657	8,820	10,339	9,571	5,600	5,176	5,764	78,8
	2009	5,943	5,269	5,566	5,148	5,236	6,713	8,894	10,425	9,651	5,647	5,219	5,812	79,5
	2010	5,990	5,311	5,611	5,189	5,278	6,766	8,965	10,508	9,727	5,692	5,261	5,858	80,1
	2011	6,049	5,363	5,666	5,240	5,330	6,833	9,053	10,611	9,823	5,748	5,313	5,916	80,9
	2012	6,134	5,436	5,745	5,313	5,405	6,929	9,180	10,761	9,961	5,829	5,387	5,999	82,0
	2013	6,220	5,514	5,826	5,388	5,480	7,026	9,309	10,911	10,100	5,910	5,463	6,083	83,2
	2014	6,304	5,589	5,905	5,461	5,555	7,121	9,435	11,059	10,238	5,990	5,537	6,166	84,3
	2015	6,382	5,659	5,978	5,529	5,624	7,209	9,552	11,196	10,364	6,065	5,605	6,242	85,4
Projected	2016	6,460	5,727	6,050	5,596	5,692	7,296	9,668	11,332	10,490	6,138	5,673	6,318	86,4
	2017	6,533	5,792	6,120	5,659	5,757	7,380	9,778	11,461	10,610	6,208	5,738	6,390	87,4
	2018	6,606	5,857	6,188	5,723	5,821	7,462	9,888	11,590	10,729	6,278	5,802	6,461	88,4
	2019	6,683	5,925	6,259	5,789	5,888	7,548	10,002	11,723	10,852	6,350	5,869	6,536	89,4
	2020	6,760	5,993	6,332	5,856	5,956	7,636	10,117	11,859	10,977	6,423	5,937	6,611	90,4
	2021	6,839	6,064	6,406	5,924	6,026	7,725	10,236	11,998	11,106	6,499	6,007	6,689	91,5
	2022	6,921	6,136	6,483	5,995	6,098	7,818	10,358	12,141	11,239	6,577	6,078	6,769	92,6
	2023	7,002	6,208	6,559	6,066	6,170	7,909	10,480	12,284	11,371	6,654	6,150	6,848	93,7
	2024	7,083	6,280	6,634	6,135	6,241	8,000	10,600	12,425	11,502	6,730	6,221	6,927	94,7
	2025	7,163	6,350	6,709	6,205	6,311	8,091	10,720	12,565	11,632	6,806	6,291	7,005	95,8

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2002	7 1%	6 3%	7 0%	6 5%	6 5%	8 7%	11 4%	13 5%	12 4%	6 7%	6 6%	7 2%	100 0
	2003	7 4%	6 6%	6 9%	6 3%	6 5%	8 5%	11 9%	14 4%	10 9%	7 1%	6 3%	7 0%	100 0
	2004	8 0%	7 2%	7 4%	6 9%	6 9%	7 9%	10 6%	10 7%	12 3%	8 0%	6 7%	7 5%	100 0
	2005	7 4%	6 3%	6 8%	6 2%	6 4%	8 7%	10 8%	13 8%	12 8%	6 7%	6 6%	7 5%	100 0
Projected	2006	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2007	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2008	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2009	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2010	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2011	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2012	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2013	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2014	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
	2015	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2006-2015	7 5%	6 6%	7 0%	6 5%	6 6%	8 4%	11 2%	13 1%	12 1%	7 1%	6 6%	7 3%	100 0

3411

Glencoe

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	15 8	20 2	23 1	19 5	9 7	10 2	10 3	#N/A	
	2002	10 1	9 8	9 8	10 5	11 4	18 7	22 7	20 8	22 3	9 9	10 3	10 6	10 3	
	2003	10 4	10 3	10 0	9 8	10 1	17 3	19 6	23 7	20 2	13 8	9 8	10 6	10 8	
	2004	10 5	10 1	9 5	9 4	9 6	14 3	20 5	17 9	19 8	14 7	9 6	10 1	10 6	
	2005	10 1	9 9	9 0	8 8	8 8	16 2	18 2	20 7	19 3	10 7	9 8	11 0	10 1	
Projected	2006	10 1	9 9	9 4	8 9	9 2	15 8	20 7	19 3	18 1	11 9	9 8	10 4	11 0	
	2007	10 2	10 0	9 5	9 1	9 4	16 0	21 0	19 6	18 3	12 0	9 9	10 5	10 4	
	2008	10 3	10 1	9 6	9 2	9 5	16 2	21 2	19 8	18 5	12 2	10 0	10 6	10 5	
	2009	10 4	10 2	9 7	9 2	9 5	16 3	21 4	19 9	18 7	12 3	10 0	10 6	10 6	
	2010	10 5	10 3	9 8	9 3	9 6	16 4	21 6	20 1	18 8	12 4	10 1	10 8	10 6	
	2011	10 6	10 4	9 9	9 4	9 7	16 6	21 8	20 3	19 0	12 5	10 3	10 9	10 8	
	2012	10 7	10 5	10 0	9 5	9 8	16 8	22 1	20 6	19 3	12 6	10 4	11 1	10 9	
	2013	10 9	10 7	10 1	9 7	10 0	17 1	22 4	20 9	19 5	12 8	10 6	11 2	11 1	
	2014	11 0	10 8	10 3	9 8	10 1	17 3	22 7	21 2	19 8	13 0	10 7	11 3	11 2	
	2015	11 2	11 0	10 4	9 9	10 2	17 5	23 0	21 4	20 0	13 2	10 8	11 5	11 3	
Projected	2016	11 3	11 1	10 5	10 0	10 4	17 7	23 2	21 7	20 3	13 3	11 0	11 6	11 5	
	2017	11 4	11 2	10 6	10 1	10 5	17 9	23 5	21 9	20 5	13 5	11 1	11 7	11 6	
	2018	11 6	11 3	10 8	10 3	10 6	18 1	23 8	22 2	20 7	13 6	11 2	11 9	11 7	
	2019	11 7	11 5	10 9	10 4	10 7	18 3	24 0	22 4	21 0	13 8	11 3	12 0	11 9	
	2020	11 8	11 6	11 0	10 5	10 8	18 6	24 3	22 7	21 2	13 9	11 5	12 2	12 0	
	2021	12 0	11 7	11 1	10 6	11 0	18 8	24 6	22 9	21 5	14 1	11 6	12 3	12 2	
	2022	12 1	11 9	11 3	10 7	11 1	19 0	24 9	23 2	21 7	14 3	11 7	12 4	12 3	
	2023	12 3	12 0	11 4	10 9	11 2	19 2	25 2	23 5	22 0	14 4	11 9	12 6	12 4	
	2024	12 4	12 2	11 5	11 0	11 4	19 4	25 5	23 8	22 2	14 6	12 0	12 7	12 6	
	2025	12 5	12 3	11 7	11 1	11 5	19 7	25 8	24 0	22 5	14 8	12 2	12 9	12 7	

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
	1996														
	1997														
	1998														

2173

Glencoe

Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	98	96	90	87	90	157	201	190	180	112	95	102	98
	2007	99	97	92	88	91	159	204	192	182	113	96	103	99
	2008	100	98	93	89	92	160	206	194	184	114	97	104	100
	2009	101	99	93	90	93	162	207	196	186	115	98	105	101
	2010	102	100	94	91	94	163	209	197	187	116	99	106	102
	2011	103	101	95	92	95	165	211	199	189	117	100	107	103
	2012	104	102	96	93	96	167	214	202	192	119	101	109	104
	2013	106	104	98	94	97	169	217	205	194	121	103	110	106
	2014	107	105	99	95	99	172	220	208	197	122	104	112	107
	2015	108	106	100	97	100	174	223	210	200	124	105	113	108
Projected	2016	110	108	101	98	101	176	225	213	202	125	106	114	110
	2017	111	109	103	99	102	178	228	215	204	127	108	116	111
	2018	112	110	104	100	104	180	231	218	207	128	109	117	112
	2019	114	111	105	101	105	182	233	220	209	130	110	118	114
	2020	115	113	106	102	106	184	236	223	211	131	111	120	115
	2021	116	114	107	104	107	186	239	225	214	133	113	121	116
	2022	118	115	109	105	108	188	242	228	216	134	114	122	118
	2023	119	117	110	106	110	191	244	231	219	136	115	124	119
	2024	120	118	111	107	111	193	247	233	221	137	117	125	120
	2025	122	119	112	108	112	195	250	236	224	139	118	127	122

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	89 1%
	2007	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2008	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2009	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2010	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2011	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2012	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2013	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2014	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2015	97 1%	97 0%	96 4%	97 5%	97 7%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	95 6%
	2006-2015	97 1%	97 0%	96 4%	97 5%	97 0%	99 1%	97 0%	98 1%	99 6%	94 0%	97 1%	98 4%	94 9%

Historical and Projected Net Energy for Load - Granite Falls
Net Energy Requirements (GWh)
40
35
30
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 0.6%
2006-2015: 0.1%
2016-2025: 0.2%
Historical
Projected

Historical and Projected Non-coincident Peak Demand - Granite Falls
BCP Demand (MW)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Granite Falls

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	30,883	-	30,814	-	-0 2%	5.7	-	61.9%	6.4	-	55 3%	#N/
	1997	31,169	0 9%	31,370	1 8%	0 6%	5 6	-2 0%	63.7%	6.8	6 2%	52 6%	#N/
	1998	34,448	10.5%	35,038	11.7%	1.7%	7 4	31.8%	53 4%	7 8	14 7%	50 7%	#N/
	1999	30,582	-11 2%	30,937	-11.7%	1.2%	7.4	0 0%	47 4%	7 0	-9 3%	49 6%	#N/
	2000	29,868	-2 3%	30,092	-2 7%	0 8%	5.5	-25.7%	62 3%	6 8	-3.6%	50.3%	#N/
	2001	28,741	-3.8%	28,518	-5 2%	-0 8%	6.0	9 6%	54.7%	7 0	3.2%	46 9%	#N/
	2002	28,294	-1.6%	27,774	-2.6%	-1 8%	5 0	-16 7%	64 6%	7 0	0.0%	46 1%	#N/
	2003	30,162	6.6%	29,854	7.5%	-1 0%	6.5	30 0%	53 0%	7 8	11 0%	44 3%	#N/
	2004	28,107	-6 8%	28,708	-3 8%	2 1%	5 8	-11.1%	55.5%	7 2	-7 2%	44 5%	#N/
	2005	32,560	15 8%	32,156	12 0%	-1 2%	5.0	-13 5%	74 3%	7 8	8 6%	47.5%	#N/
Projected	2006	30,579	-6 1%	30,579	-4 9%		5.9	18.3%	59 0%	7.3	-6 5%	47.7%	5 8
	2007	30,560	-0.1%	30,560	-0 1%		5.9	-0.1%	59.0%	7 3	-0.1%	47 7%	5 7
	2008	30,597	0.1%	30,597	0.1%		5 9	0.1%	59 0%	7 3	0 1%	47 7%	5 8
	2009	30,601	0 0%	30,601	0.0%		5 9	0.0%	59.0%	7.3	0 0%	47 7%	5 8
	2010	30,624	0 1%	30,624	0 1%		5.9	0.1%	59 0%	7 3	0 1%	47 7%	5.8
	2011	30,628	0 0%	30,628	0 0%		5.9	0 0%	59 0%	7 3	0.0%	47.7%	5.8
	2012	30,674	0.1%	30,674	0 1%		5 9	0 1%	59.0%	7 3	0 1%	47 7%	5 8
	2013	30,741	0.2%	30,741	0 2%		5 9	0 2%	59 0%	7 4	0 2%	47.7%	5.8
	2014	30,804	0.2%	30,804	0.2%		6 0	0.2%	59.0%	7.4	0 2%	47 7%	5 8
	2015	30,849	0 1%	30,849	0.1%		6 0	0.1%	59.0%	7 4	0 1%	47.7%	5.8
	2016	30,893	0.1%	30,893	0 1%		6.0	0 1%	59.0%	7 4	0 1%	47 7%	5 8
	2017	30,938	0.1%	30,938	0 1%		6 0	0.1%	59.0%	7 4	0 1%	47 7%	5 8
	2018	30,987	0.2%	30,987	0.2%		6.0	0 2%	59.0%	7.4	0 2%	47 7%	5 8
	2019	31,044	0 2%	31,044	0 2%		6 0	0.2%	59 0%	7 4	0.2%	47.7%	5 8
	2020	31,110	0.2%	31,110	0 2%		6 0	0 2%	59 0%	7 4	0.2%	47.7%	5 9
	2021	31,181	0 2%	31,181	0 2%		6 0	0.2%	59 0%	7 5	0.2%	47 7%	5 9
	2022	31,255	0 2%	31,255	0.2%		6 0	0.2%	59 0%	7.5	0 2%	47.7%	5.9
	2023	31,333	0.3%	31,333	0 3%		6.1	0.3%	59 0%	7 5	0 3%	47 7%	5 9
	2024	31,411	0.2%	31,411	0.2%		6 1	0 2%	59 0%	7 5	0 2%	47.7%	5 9
	2025	31,493	0 3%	31,493	0 3%		6.1	0 3%	59.0%	7.5	0 3%	47 7%	5 9
AAGR	Thru 2005		0 6%		0.5%			-1.4%	59 1%		2.3%	48 8%	
	2006-2015		0.1%		0 1%			0 1%	59 0%		0 1%	47.7%	
	2016-2025		0.2%		0 2%			0 2%	59.0%		0.2%	47.7%	

3415

Granite Falls

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2003	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2004	2,672	2,403	2,357	1,195	1,923	2,339	2,324	2,143	1,848	3,172	3,248	2,483	28,107
	2005	2,335	1,757	3,085	2,531	2,761	2,982	3,468	3,029	2,645	2,415	2,457	3,095	32,560
Projected	2006	2,550	2,132	2,731	1,838	2,343	2,673	2,893	2,588	2,247	2,859	2,921	2,804	30,579
	2007	2,548	2,131	2,729	1,837	2,341	2,671	2,891	2,587	2,246	2,858	2,919	2,803	30,560
	2008	2,551	2,133	2,732	1,839	2,344	2,674	2,894	2,590	2,249	2,861	2,922	2,806	30,597
	2009	2,552	2,134	2,733	1,840	2,344	2,674	2,895	2,590	2,249	2,862	2,923	2,806	30,601
	2010	2,554	2,135	2,735	1,841	2,346	2,676	2,897	2,592	2,251	2,864	2,925	2,808	30,624
	2011	2,554	2,136	2,735	1,841	2,346	2,677	2,897	2,592	2,251	2,864	2,925	2,809	30,628
	2012	2,558	2,139	2,739	1,844	2,350	2,681	2,902	2,596	2,254	2,868	2,930	2,813	30,674
	2013	2,564	2,144	2,745	1,848	2,355	2,687	2,908	2,602	2,259	2,875	2,936	2,819	30,741
	2014	2,569	2,148	2,751	1,852	2,360	2,692	2,914	2,607	2,264	2,881	2,942	2,825	30,804
	2015	2,573	2,151	2,755	1,855	2,363	2,696	2,918	2,611	2,267	2,885	2,946	2,829	30,849
Projected	2016	2,576	2,154	2,759	1,857	2,367	2,700	2,922	2,615	2,270	2,889	2,951	2,833	30,893
	2017	2,580	2,157	2,763	1,860	2,370	2,704	2,927	2,619	2,274	2,893	2,955	2,837	30,936
	2018	2,584	2,161	2,767	1,863	2,374	2,708	2,931	2,623	2,277	2,898	2,960	2,842	30,987
	2019	2,589	2,165	2,772	1,866	2,378	2,713	2,937	2,628	2,281	2,903	2,965	2,847	31,044
	2020	2,594	2,169	2,778	1,870	2,383	2,719	2,943	2,633	2,286	2,909	2,971	2,853	31,110
	2021	2,600	2,174	2,784	1,874	2,389	2,725	2,949	2,639	2,291	2,916	2,978	2,859	31,181
	2022	2,606	2,179	2,791	1,879	2,394	2,732	2,956	2,645	2,297	2,923	2,985	2,866	31,255
	2023	2,613	2,185	2,798	1,884	2,400	2,738	2,964	2,652	2,303	2,930	2,993	2,873	31,333
	2024	2,619	2,190	2,805	1,888	2,406	2,745	2,971	2,659	2,308	2,937	3,000	2,881	31,411
	2025	2,626	2,196	2,812	1,893	2,413	2,752	2,979	2,665	2,314	2,945	3,008	2,888	31,493

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2003	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2004	9 5%	8 5%	8 4%	4 2%	6 8%	8 3%	8 3%	7 6%	6 6%	11 3%	11 6%	8 8%	100 0%
	2005	7 2%	5 4%	9 5%	7 8%	8 5%	9 2%	10 7%	9 3%	8 1%	7 4%	7 5%	9 5%	100 0%
Projected	2006	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2007	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2008	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2009	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2010	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2011	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2012	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2013	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2014	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
	2015	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2006-2015	8 3%	7 0%	8 9%	6 0%	7 7%	8 7%	9 5%	8 5%	7 3%	9 4%	9 6%	9 2%	100 0%

3416

Granite Falls

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2003	51	65	49	52	49	49	61	78	63	67	58	50	65
	2004	45	54	48	77	52	67	67	63	72	67	50	50	58
	2005	45	50	48	45	46	78	78	76	60	46	53	56	50
Projected	2006	59	57	53	46	52	68	73	64	59	49	50	55	59
	2007	59	57	53	46	52	68	73	64	59	49	50	55	59
	2008	59	57	53	46	52	68	73	64	59	49	50	55	59
	2009	59	57	53	46	52	68	73	64	59	49	50	55	59
	2010	59	57	53	46	52	68	73	64	59	50	50	55	59
	2011	59	57	53	46	52	68	73	64	59	50	50	55	59
	2012	59	57	53	46	52	68	73	65	59	50	50	55	59
	2013	59	57	53	46	52	68	74	65	59	50	50	56	59
	2014	60	57	53	46	52	69	74	65	59	50	50	56	60
	2015	60	58	53	46	52	69	74	65	59	50	50	56	60
Projected	2016	60	58	53	46	52	69	74	65	59	50	50	56	60
	2017	60	58	54	46	52	69	74	65	59	50	50	56	60
	2018	60	58	54	46	52	69	74	65	60	50	50	56	60
	2019	60	58	54	46	53	69	74	65	60	50	50	56	60
	2020	60	58	54	46	53	69	74	65	60	50	51	56	60
	2021	60	58	54	47	53	69	75	66	60	50	51	56	60
	2022	60	58	54	47	53	70	75	66	60	51	51	56	60
	2023	61	58	54	47	53	70	75	66	60	51	51	57	61
	2024	61	59	54	47	53	70	75	66	60	51	51	57	61
	2025	61	59	55	47	53	70	75	66	60	51	51	57	61

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002													
	2003													
	2004	79 8%	64 3%	65 6%	21 4%	49 6%	48 5%	46 6%	45 5%	35 6%	64 0%	90 2%	66 8%	55 5%
	2005	69 7%	52 3%	86 8%	78 2%	80 5%	53 1%	59 5%	53 9%	61 7%	70 9%	64 9%	74 1%	74 3%
Projected	2006	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 8%	68 4%	59 0%
	2007	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 3%	59 0%
	2008	58 0%	53 7%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 7%	68 3%	59 0%
	2009	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 7%	68 3%	59 0%
	2010	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 7%	68 3%	59 0%
	2011	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 3%	59 0%
	2012	58 0%	53 7%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 2%	59 0%
	2013	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 2%	59 0%
	2014	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 3%	59 0%
	2015	58 0%	55 6%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 6%	68 3%	59 0%
Avg	1996-2005	74 8%	58 3%	76 2%	49 8%	65 0%	50 8%	53 1%	49 7%	48 7%	67 5%	77 6%	70 4%	64 9%
	2006-2015	58 0%	55 3%	69 3%	55 9%	60 9%	54 6%	53 1%	54 0%	53 1%	77 7%	81 7%	68 3%	59 0%

3217

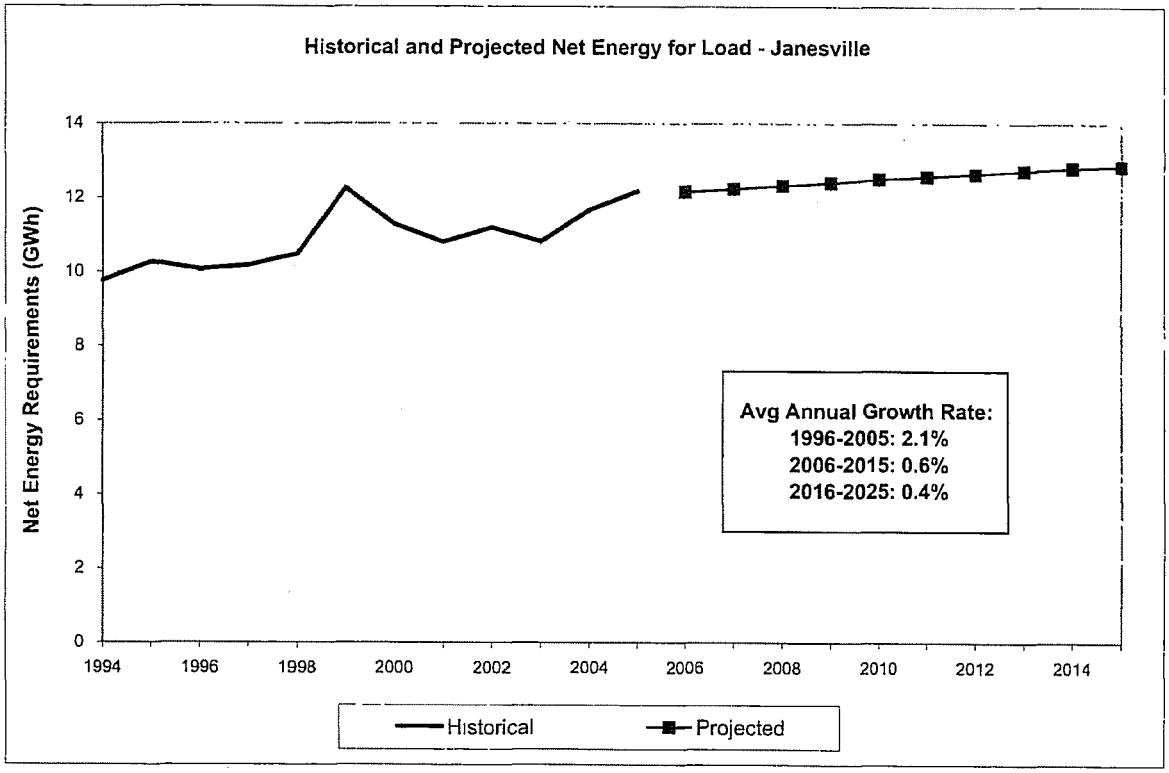
Granite Falls

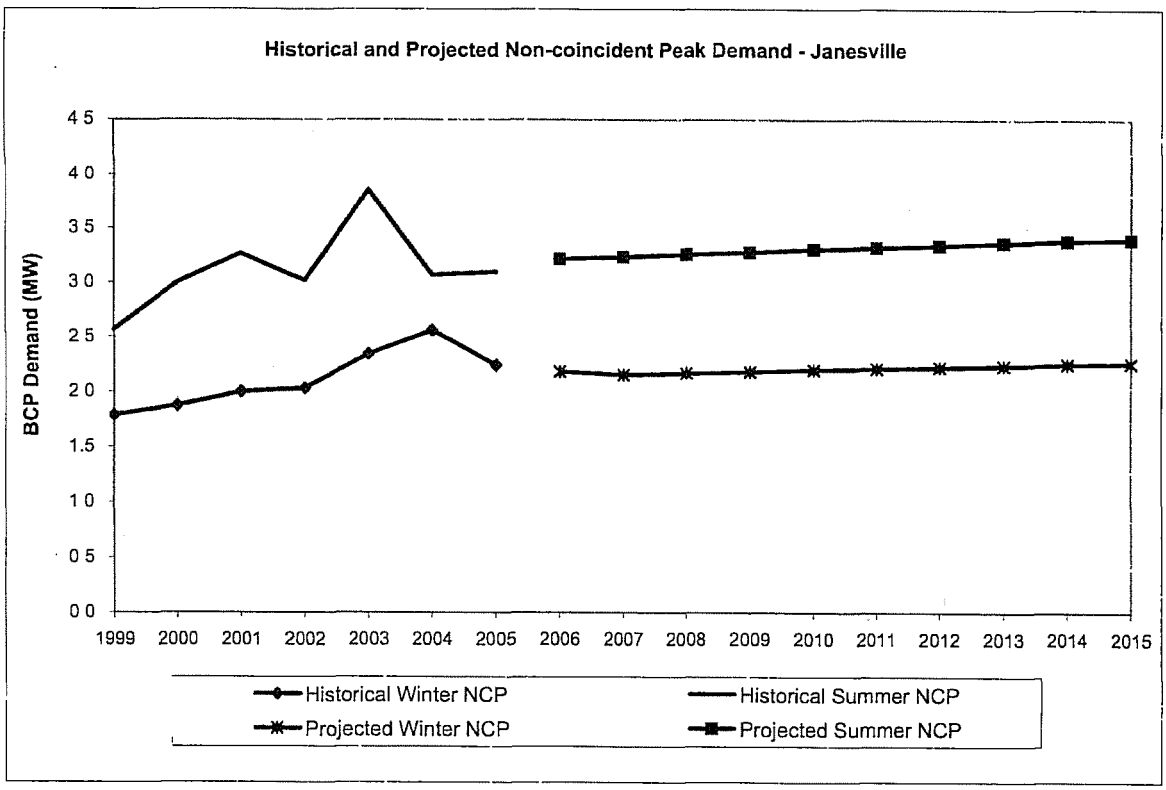
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	58	56	51	45	51	68	70	63	59	49	49	55	58
	2007	57	56	51	45	51	68	70	63	59	49	49	55	57
	2008	58	56	51	45	51	68	70	64	59	49	49	55	58
	2009	58	56	51	45	51	68	70	64	59	49	49	55	58
	2010	58	56	51	45	51	68	70	64	59	50	49	55	58
	2011	58	56	51	45	51	68	70	64	59	50	49	55	58
	2012	58	56	51	45	52	68	70	64	59	50	49	55	58
	2013	58	57	51	45	52	68	70	64	59	50	49	55	58
	2014	58	57	52	45	52	69	70	64	59	50	50	55	58
	2015	58	57	52	45	52	69	71	64	59	50	50	55	58
Projected	2016	58	57	52	45	52	69	71	64	59	50	50	56	58
	2017	58	57	52	45	52	69	71	64	59	50	50	56	58
	2018	58	57	52	45	52	69	71	64	60	50	50	56	58
	2019	58	57	52	45	52	69	71	64	60	50	50	56	58
	2020	59	57	52	45	52	69	71	65	60	50	50	56	59
	2021	59	57	52	45	52	69	71	65	60	50	50	56	59
	2022	59	58	52	46	52	70	72	65	60	51	50	56	59
	2023	59	58	52	46	53	70	72	65	60	51	50	56	59
	2024	59	58	53	46	53	70	72	65	60	51	51	57	59
	2025	59	58	53	46	53	70	72	65	60	51	51	57	59

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2007	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2008	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2009	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2010	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2011	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2012	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2013	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2014	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2015	97.3%	98.7%	96.6%	97.6%	99.2%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%
	2006-2015	97.3%	98.7%	96.6%	97.6%	98.7%	100.0%	95.6%	98.6%	100.0%	100.0%	99.0%	99.5%	97.3%


Historical and Projected Net Energy for Load - Janesville
Net Energy Requirements (GWh)
0
2
4
6
8
10
12
14
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 2.1%
2006-2015: 0.6%
2016-2025: 0.4%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Janesville
BCP Demand (MW)
0 0
0 5
1 0
1.5
2 0
2 5
3 0
3 5
4 0
4 5
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Janesville

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						Co
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	10,073	-	10,227	-	1.5%	1.8	-	63.5%	2.6	-	44.5%	#N/A
	1997	10,177	1 0%	10,319	0 9%	1.4%	1.7	-4 6%	67.2%	2.6	-0.8%	45.4%	#N/A
	1998	10,482	3 0%	10,386	0 6%	-0 9%	2 0	15 7%	59.8%	2 7	5.4%	44 3%	#N/A
	1999	12,260	17.0%	12,133	16 8%	-1 0%	1 8	-10.8%	78.4%	2 6	-4.9%	54 5%	#N/A
	2000	11,302	-7 8%	11,293	-6 9%	-0 1%	1 9	4.9%	68 9%	3 0	16.8%	43.0%	#N/A
	2001	10,811	-4 3%	10,441	-7 5%	-3 4%	2 0	6.8%	61 7%	3 3	8 9%	37.8%	#N/A
	2002	11,208	3 7%	10,716	2.6%	-4 4%	2.0	1 4%	63 1%	3 0	-7 7%	42 4%	#N/A
	2003	10,832	-3 4%	10,532	-1 7%	-2.8%	2.3	15 7%	52 7%	3.9	27 8%	32 1%	#N/A
	2004	11,675	7.8%	11,897	13 0%	1.9%	2 6	9.1%	52 1%	3 1	-20 3%	43 4%	#N/A
	2005	12,184	4.4%	11,624	-2 3%	-4 6%	2.2	-12 4%	62.0%	3.1	0 8%	44 9%	#N/A
Projected	2006	12,167	-0 1%	12,167	4.7%		2.2	-2 7%	63.7%	3.2	3.8%	43 2%	1 8
	2007	12,237	0 6%	12,237	0 6%		2.2	-1.4%	64.9%	3 2	0.6%	43.2%	1 8
	2008	12,326	0 7%	12,326	0 7%		2 2	0.7%	64 9%	3 3	0 7%	43.2%	1 8
	2009	12,409	0 7%	12,409	0 7%		2 2	0.7%	64.9%	3 3	0.7%	43.2%	1.9
	2010	12,506	0 8%	12,506	0 8%		2 2	0.8%	64.9%	3 3	0.8%	43 2%	1.9
	2011	12,575	0 6%	12,575	0 6%		2 2	0 6%	64.9%	3 3	0 6%	43 2%	1 9
	2012	12,644	0.5%	12,644	0 5%		2 2	0 5%	64 9%	3 3	0 5%	43.2%	1 9
	2013	12,731	0.7%	12,731	0 7%		2.2	0.7%	64 9%	3.4	0 7%	43.2%	1 9
	2014	12,809	0.6%	12,809	0 6%		2.3	0 6%	64 9%	3 4	0 6%	43 2%	1 9
	2015	12,855	0.4%	12,855	0 4%		2.3	0 4%	64.9%	3.4	0.4%	43 2%	1.9
	2016	12,889	0.3%	12,889	0 3%		2.3	0 3%	64.9%	3.4	0.3%	43.2%	1 9
	2017	12,928	0.3%	12,928	0 3%		2 3	0.3%	64.9%	3 4	0.3%	43 2%	1 9
	2018	12,965	0 3%	12,965	0 3%		2 3	0.3%	64.9%	3 4	0 3%	43.2%	1.9
	2019	13,017	0 4%	13,017	0.4%		2.3	0.4%	64.9%	3 4	0 4%	43.2%	2.0
	2020	13,074	0 4%	13,074	0.4%		2 3	0.4%	64.9%	3 5	0 4%	43 2%	2.0
	2021	13,131	0 4%	13,131	0 4%		2 3	0 4%	64.9%	3 5	0 4%	43 2%	2 0
	2022	13,187	0 4%	13,187	0 4%		2.3	0 4%	64 9%	3 5	0.4%	43 2%	2 0
	2023	13,245	0 4%	13,245	0 4%		2.3	0 4%	64 9%	3.5	0 4%	43 2%	2 0
	2024	13,300	0 4%	13,300	0 4%		2.3	0 4%	64 9%	3.5	0 4%	43 2%	2 0
	2025	13,351	0.4%	13,351	0 4%		2 3	0.4%	64 9%	3 5	0.4%	43 2%	2 0
AAGR	Thru 2005		2 1%		1 4%			2 4%	62.9%		2.0%	43 2%	
	2006-2015		0.6%		0 6%			0 4%	64 8%		0 6%	43.2%	
	2016-2025		0 4%		0 4%			0 4%	64 9%		0 4%	43.2%	

3420

Janesville

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2002	900	787	864	775	789	1,035	1,334	1,051	949	891	864	970	11,20
	2003	926	818	834	762	780	907	1,132	1,152	863	849	845	962	10,83
	2004	1,030	906	898	810	854	948	1,200	1,009	1,036	955	945	1,084	11,67
	2005	1,050	861	922	825	873	1,149	1,372	1,161	997	955	949	1,070	12,18
Projected	2006	1,035	894	933	841	874	1,069	1,335	1,162	1,019	967	955	1,083	12,16
	2007	1,040	899	938	846	879	1,076	1,343	1,169	1,025	973	961	1,089	12,23
	2008	1,048	906	945	852	885	1,083	1,353	1,177	1,032	980	967	1,097	12,32
	2009	1,055	912	951	858	891	1,091	1,362	1,185	1,039	986	974	1,104	12,40
	2010	1,063	919	959	865	898	1,099	1,372	1,194	1,047	994	982	1,113	12,50
	2011	1,069	924	964	870	903	1,105	1,380	1,201	1,053	1,000	987	1,119	12,57
	2012	1,075	929	969	874	908	1,111	1,386	1,207	1,059	1,005	992	1,125	12,64
	2013	1,083	936	976	881	914	1,119	1,397	1,215	1,066	1,012	999	1,133	12,73
	2014	1,089	941	982	886	920	1,126	1,406	1,223	1,073	1,018	1,005	1,140	12,80
	2015	1,093	945	986	889	923	1,130	1,411	1,227	1,076	1,022	1,009	1,144	12,85
Projected	2016	1,096	947	988	891	926	1,133	1,414	1,230	1,079	1,025	1,012	1,147	12,88
	2017	1,099	950	991	894	928	1,136	1,419	1,234	1,082	1,028	1,015	1,151	12,92
	2018	1,102	953	994	897	931	1,140	1,423	1,238	1,086	1,031	1,018	1,154	12,96
	2019	1,107	957	998	900	935	1,144	1,429	1,243	1,090	1,035	1,022	1,159	13,01
	2020	1,112	961	1,002	904	939	1,149	1,435	1,248	1,095	1,039	1,026	1,164	13,07
	2021	1,117	965	1,007	908	943	1,154	1,441	1,254	1,099	1,044	1,031	1,169	13,13
	2022	1,121	969	1,011	912	947	1,159	1,447	1,259	1,104	1,048	1,035	1,174	13,18
	2023	1,126	973	1,015	916	951	1,164	1,454	1,264	1,109	1,053	1,040	1,179	13,24
	2024	1 131	977	1,020	920	955	1,169	1,460	1,270	1,114	1,057	1,044	1,184	13,30
	2025	1,135	981	1,024	923	959	1,173	1,465	1,275	1,118	1,061	1,048	1,188	13,35

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2002	8 0%	7 0%	7 7%	6 9%	7 0%	9 2%	11 9%	9 4%	8 5%	7 9%	7 7%	8 7%	100 0
	2003	8 5%	7 6%	7 7%	7 0%	7 2%	8 4%	10 5%	10 6%	8 0%	7 8%	7 8%	8 9%	100 0
	2004	8 8%	7 8%	7 7%	6 9%	7 3%	8 1%	10 3%	8 6%	8 9%	8 2%	8 1%	9 3%	100 0
	2005	8 6%	7 1%	7 6%	6 8%	7 2%	9 4%	11 3%	9 5%	8 2%	7 8%	7 8%	8 8%	100 0
Projected	2006	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2007	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2008	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2009	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2010	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2011	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2012	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2013	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2014	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
	2015	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N
	2006-2015	8 5%	7 3%	7 7%	6 9%	7 2%	8 8%	11 0%	9 5%	8 4%	7 9%	7 8%	8 9%	100 0

Janesville
Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	28	31	33	19	17	19	20	#N/A
	2002	19	17	17	17	20	30	30	26	29	18	18	21	20
	2003	23	23	21	20	20	35	35	39	29	23	23	26	23
	2004	20	18	17	16	16	26	31	26	25	18	20	22	26
	2005	20	18	17	16	16	30	31	31	25	22	21	22	22
Projected	2006	20	18	17	17	17	30	32	30	26	21	20	22	22
	2007	20	18	18	17	17	30	32	30	26	21	20	22	22
	2008	20	19	18	17	18	30	33	31	26	21	20	22	22
	2009	20	19	18	17	18	30	33	31	26	21	20	22	22
	2010	21	19	18	17	18	30	33	31	27	21	20	22	22
	2011	21	19	18	17	18	31	33	31	27	21	20	22	22
	2012	21	19	18	17	18	31	33	31	27	21	20	22	22
	2013	21	19	18	17	18	31	34	32	27	22	21	23	22
	2014	21	19	18	18	18	31	34	32	27	22	21	23	23
	2015	21	19	18	18	18	31	34	32	27	22	21	23	23
Projected	2016	21	19	19	18	18	31	34	32	27	22	21	23	23
	2017	21	19	19	18	18	31	34	32	27	22	21	23	23
	2018	21	20	19	18	19	31	34	32	28	22	21	23	23
	2019	21	20	19	18	19	32	34	32	28	22	21	23	23
	2020	22	20	19	18	19	32	35	32	28	22	21	23	23
	2021	22	20	19	18	19	32	35	33	28	22	21	23	23
	2022	22	20	19	18	19	32	35	33	28	22	21	23	23
	2023	22	20	19	18	19	32	35	33	28	23	21	23	23
	2024	22	20	19	18	19	32	35	33	28	23	21	23	23
	2025	22	20	19	18	19	32	35	33	28	23	21	24	23

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002	62.4%	68.1%	67.9%	63.9%	52.1%	48.2%	59.5%	54.3%	45.6%	67.6%	66.3%	63.3%	63.1%
	2003	53.0%	53.1%	53.3%	52.6%	53.6%	36.0%	43.0%	40.2%	41.4%	49.1%	50.9%	50.5%	52.7%
	2004	69.5%	71.6%	70.9%	72.5%	70.3%	50.5%	52.5%	52.1%	57.7%	71.5%	65.5%	64.9%	52.1%
	2005	69.3%	69.9%	71.4%	73.8%	72.8%	53.6%	59.7%	50.4%	56.5%	58.4%	63.0%	65.9%	62.0%
Projected	2006	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.6%	67.6%	63.7%
	2007	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.5%	67.5%	64.9%
	2008	69.3%	70.0%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.5%	67.6%	64.9%
	2009	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.5%	67.5%	64.9%
	2010	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.6%	67.6%	64.9%
	2011	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.6%	67.6%	64.9%
	2012	69.3%	70.0%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.5%	67.5%	64.9%
	2013	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.6%	67.6%	64.9%
	2014	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.7%	67.8%	64.9%
	2015	69.3%	72.5%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.8%	67.8%	64.9%
Avg.	1996-2005	63.5%	65.7%	65.9%	65.7%	62.2%	47.1%	53.7%	49.2%	50.3%	61.6%	61.4%	61.2%	57.5%
	2006-2015	69.3%	72.0%	71.8%	70.1%	67.6%	50.3%	55.8%	51.7%	54.7%	62.9%	67.6%	67.6%	64.8%

3422

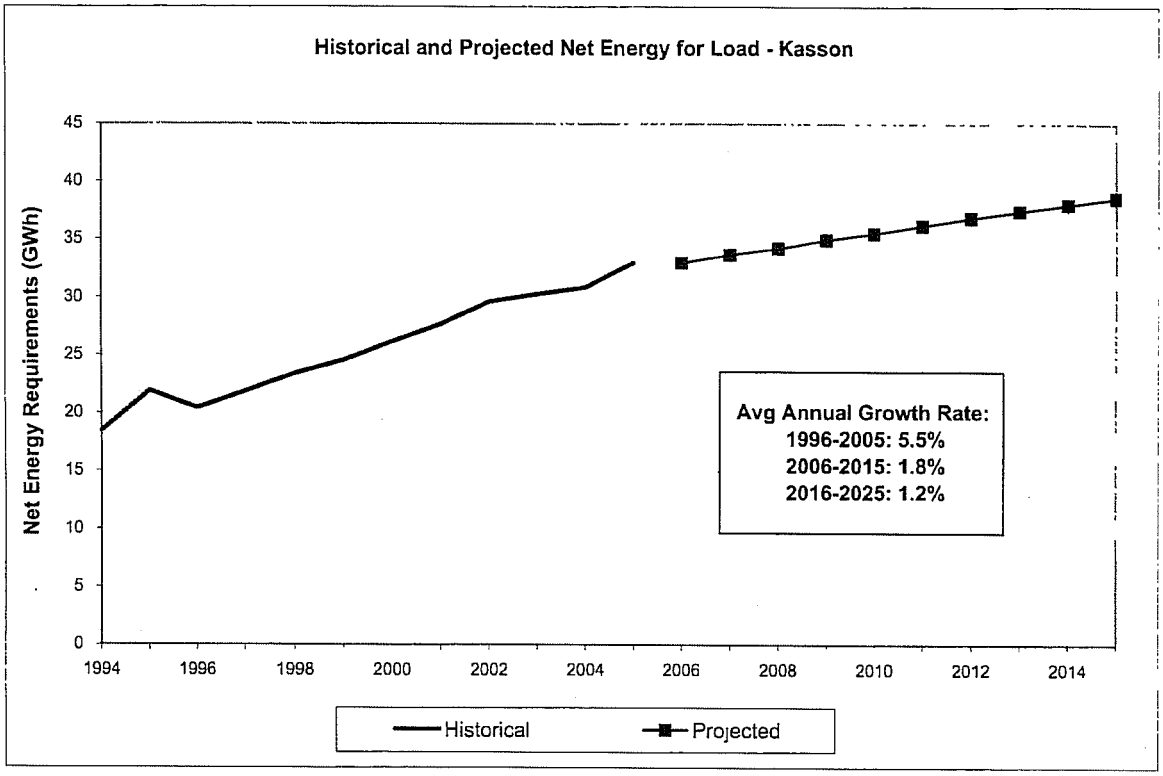
Janesville

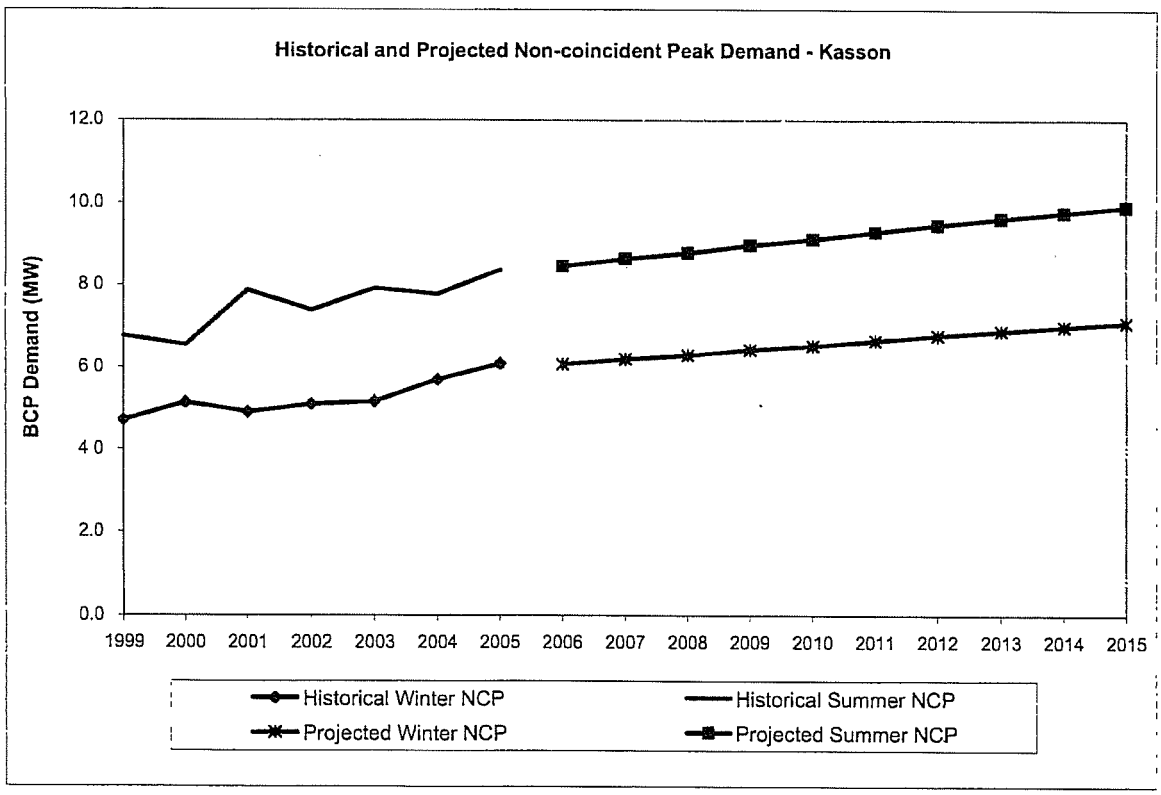
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	18	15	15	14	16	28	29	28	24	17	19	21	18
	2007	18	15	15	14	16	28	29	28	24	17	19	21	18
	2008	18	15	15	15	16	28	30	29	24	17	19	21	18
	2009	19	15	15	15	16	28	30	29	24	17	20	21	19
	2010	19	16	15	15	16	29	30	29	24	17	20	21	19
	2011	19	16	15	15	16	29	30	29	25	17	20	21	19
	2012	19	16	15	15	17	29	30	29	25	18	20	22	19
	2013	19	16	15	15	17	29	31	30	25	18	20	22	19
	2014	19	16	15	15	17	29	31	30	25	18	20	22	19
	2015	19	16	15	15	17	29	31	30	25	18	20	22	19
Projected	2016	19	16	15	15	17	30	31	30	25	18	20	22	19
	2017	19	16	16	15	17	30	31	30	25	18	20	22	19
	2018	19	16	16	15	17	30	31	30	25	18	20	22	19
	2019	20	16	16	15	17	30	31	30	25	18	21	22	20
	2020	20	16	16	15	17	30	31	30	26	18	21	22	20
	2021	20	16	16	16	17	30	32	31	26	18	21	22	20
	2022	20	16	16	16	17	30	32	31	26	18	21	22	20
	2023	20	17	16	16	17	30	32	31	26	18	21	23	20
	2024	20	17	16	16	17	30	32	31	26	19	21	23	20
	2025	20	17	16	16	17	31	32	31	26	19	21	23	20

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	83 6%
	2007	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2008	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2009	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2010	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2011	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2012	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2013	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2014	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2015	90 8%	82 8%	83 7%	86 3%	91 6%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 2%
	2006-2015	90 8%	82 8%	83 7%	86 3%	82 8%	94 3%	91 1%	93 8%	91 8%	81 9%	97 9%	96 6%	85 0%


Historical and Projected Net Energy for Load - Kasson
Net Energy Requirements (GWh)
45
40
35
30
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 5.5%
2006-2015: 1.8%
2016-2025: 1.2%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Kasson
BCP Demand (MW)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Kasson

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	20,427	-	19,943	-	-2 4%	3.9	-	59.9%	5 1	-	45 8%	#N/A
	1997	21,847	7.0%	21,960	10 1%	0 5%	4 0	2.2%	62.6%	5 4	5.7%	46.3%	#N/A
	1998	23,409	7.1%	24,970	13 7%	6.7%	4 5	11.9%	60.0%	5 8	8 2%	45 8%	#N/A
	1999	24,565	4.9%	25,788	3.3%	5 0%	4 7	5.7%	59.5%	6 8	16.0%	41 5%	#N/A
	2000	26,146	6 4%	26,802	3 9%	2.5%	5.1	9.2%	58.1%	6.5	-3 2%	45.6%	#N/A
	2001	27,672	5.8%	28,053	4 7%	1 4%	4.9	-4 6%	64 4%	7 9	20 3%	40.1%	#N/A
	2002	29,607	7.0%	29,325	4 5%	-1 0%	5 1	3 9%	66 3%	7 4	-6 2%	45.8%	#N/A
	2003	30,286	2.3%	30,233	3.1%	-0 2%	5 2	1.2%	67 0%	7 9	7 3%	43.7%	#N/A
	2004	30,877	2.0%	32,356	7 0%	4 8%	5 7	10 4%	61 9%	7 8	-1.8%	45.3%	#N/A
	2005	32,992	6.8%	33,401	3 2%	1 2%	6 1	7 0%	61 8%	8 4	7.6%	45 0%	#N/A
Projected	2006	33,001	0 0%	33,001	-1 2%		6.1	-0.3%	62 0%	8 5	1 3%	44 5%	5 7
	2007	33,705	2 1%	33,705	2 1%		6 2	2.0%	62 1%	8 7	2 1%	44.5%	5 8
	2008	34,240	1 6%	34,240	1 6%		6 3	1.6%	62 1%	8.8	1 6%	44 5%	5 9
	2009	34,956	2.1%	34,956	2 1%		6 4	2 1%	62 1%	9.0	2 1%	44.5%	6 0
	2010	35,526	1.6%	35,526	1.6%		6 5	1 6%	62 1%	9 1	1 6%	44.5%	6 1
	2011	36,184	1.9%	36,184	1.9%		6.7	1 9%	62.1%	9 3	1.9%	44.5%	6 2
	2012	36,867	1.9%	36,867	1 9%		6 8	1.9%	62 1%	9 5	1 9%	44 5%	6.3
	2013	37,466	1 6%	37,466	1 6%		6 9	1 6%	62.1%	9 6	1 6%	44 5%	6.4
	2014	38,035	1 5%	38,035	1 5%		7 0	1.5%	62 1%	9.8	1 5%	44.5%	6.5
	2015	38,581	1 4%	38,581	1 4%		7.1	1 4%	62.1%	9.9	1 4%	44.5%	6 6
	2016	39,113	1.4%	39,113	1 4%		7.2	1 4%	62 1%	10 0	1 4%	44 5%	6.7
	2017	39,638	1 3%	39,638	1 3%		7 3	1 3%	62 1%	10 2	1.3%	44 5%	6 8
	2018	40,148	1.3%	40,148	1.3%		7 4	1 3%	62 1%	10 3	1.3%	44 5%	6.9
	2019	40,636	1 2%	40,636	1 2%		7.5	1.2%	62.1%	10.4	1 2%	44.5%	7 0
	2020	41,124	1.2%	41,124	1.2%		7 6	1 2%	62 1%	10 6	1 2%	44.5%	7 1
	2021	41,614	1 2%	41,614	1 2%		7.6	1 2%	62 1%	10.7	1 2%	44 5%	7 1
	2022	42,096	1 2%	42,096	1 2%		7 7	1.2%	62 1%	10 8	1 2%	44 5%	7.2
	2023	42,563	1 1%	42,563	1 1%		7 8	1.1%	62 1%	10.9	1.1%	44 5%	7.3
	2024	43,015	1 1%	43,015	1 1%		7 9	1 1%	62.1%	11 0	1 1%	44.5%	7.4
	2025	43,492	1 1%	43,492	1 1%		8 0	1 1%	62 1%	11 2	1 1%	44 5%	7 5
AAGR	Thru 2005		5 5%		5 9%			5 1%	62 2%		5 7%	44 5%	
	2006-2015		1.8%		1 8%			1 7%	62 1%		1.8%	44 5%	
	2016-2025		1.2%		1 2%			1.2%	62.1%		1.2%	44 5%	

Kasson

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	2,294	2,087	2,120	1,964	2,081	2,447	2,997	2,839	2,079	2,145	2,166	2,453	27,67
	2002	2,388	2,111	2,303	2,067	2,135	2,684	3,277	2,779	2,502	2,369	2,387	2,605	29,60
	2003	2,660	2,328	2,382	2,147	2,161	2,477	3,053	3,175	2,430	2,347	2,407	2,720	30,28
	2004	2,800	2,442	2,433	2,161	2,284	2,538	3,024	2,635	2,647	2,468	2,548	2,897	30,87
	2005	2,789	2,332	2,471	2,187	2,269	2,944	3,438	3,054	2,628	2,555	2,468	3,857	32,99
Projected	2006	2,815	2,464	2,553	2,296	2,386	2,853	3,445	3,163	2,675	2,590	2,612	3,149	33,00
	2007	2,876	2,517	2,607	2,345	2,437	2,914	3,518	3,230	2,732	2,645	2,667	3,217	33,70
	2008	2,921	2,557	2,649	2,383	2,475	2,960	3,574	3,282	2,775	2,687	2,710	3,268	34,24
	2009	2,983	2,610	2,704	2,433	2,527	3,022	3,649	3,350	2,833	2,743	2,766	3,336	34,95
	2010	3,031	2,653	2,748	2,472	2,568	3,072	3,708	3,405	2,879	2,788	2,811	3,390	35,52
	2011	3,087	2,702	2,799	2,518	2,616	3,128	3,777	3,468	2,933	2,839	2,863	3,453	36,18
	2012	3,146	2,753	2,852	2,566	2,665	3,188	3,848	3,533	2,988	2,893	2,918	3,518	36,86
	2013	3,197	2,797	2,898	2,607	2,708	3,239	3,911	3,591	3,037	2,940	2,965	3,576	37,46
	2014	3,245	2,840	2,942	2,647	2,750	3,289	3,970	3,645	3,083	2,985	3,010	3,630	38,03
	2015	3,292	2,881	2,984	2,685	2,789	3,336	4,027	3,698	3,127	3,028	3,053	3,682	38,58
Projected	2016	3,337	2,920	3,025	2,722	2,827	3,382	4,083	3,749	3,170	3,069	3,095	3,733	39,11
	2017	3,382	2,960	3,066	2,758	2,865	3,427	4,138	3,799	3,213	3,111	3,137	3,783	39,63
	2018	3,426	2,998	3,106	2,794	2,902	3,471	4,191	3,848	3,254	3,151	3,177	3,832	40,14
	2019	3,467	3,034	3,143	2,828	2,938	3,513	4,242	3,895	3,293	3,189	3,216	3,878	40,63
	2020	3,509	3,071	3,181	2,862	2,973	3,556	4,293	3,941	3,333	3,227	3,254	3,925	41,12
	2021	3,551	3,107	3,219	2,896	3,008	3,598	4,344	3,988	3,373	3,266	3,293	3,971	41,61
	2022	3,592	3,143	3,256	2,929	3,043	3,640	4,394	4,035	3,412	3,303	3,331	4,017	42,09
	2023	3,632	3,178	3,292	2,962	3,077	3,680	4,443	4,079	3,450	3,340	3,368	4,062	42,56
	2024	3,670	3,212	3,327	2,993	3,110	3,719	4,490	4,123	3,486	3,376	3,404	4,105	43,01
	2025	3,711	3,247	3,364	3,027	3,144	3,760	4,540	4,168	3,525	3,413	3,442	4,151	43,49

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	8 3%	7 5%	7 7%	7 1%	7 5%	8 8%	10 8%	10 3%	7 5%	7 8%	7 8%	8 9%	100 0%
	2002	8 1%	7 1%	7 8%	7 0%	7 2%	9 1%	11 1%	9 4%	8 5%	8 0%	8 1%	8 8%	100 0%
	2003	8 8%	7 7%	7 9%	7 1%	7 1%	8 2%	10 1%	10 5%	8 0%	7 7%	7 9%	9 0%	100 0%
	2004	9 1%	7 9%	7 9%	7 0%	7 4%	8 2%	9 8%	8 5%	8 6%	8 0%	8 3%	9 4%	100 0%
	2005	8 5%	7 1%	7 5%	6 6%	6 9%	8 9%	10 4%	9 3%	8 0%	7 7%	7 5%	11 7%	100 0%
Projected	2006	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2007	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2008	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2009	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2010	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2011	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2012	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2013	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2014	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
	2015	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2006-2015	8 5%	7 5%	7 7%	7 0%	7 2%	8 6%	10 4%	9 6%	8 1%	7 8%	7 9%	9 5%	100 0%

Kasson

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	49	44	41	39	52	64	74	79	47	47	50	51	#N/A
	2002	48	47	46	45	54	71	74	65	70	47	49	52	51
	2003	51	50	47	45	43	72	69	79	68	48	51	55	52
	2004	57	51	49	46	48	70	78	69	70	48	55	61	57
	2005	56	52	50	45	45	81	84	82	70	66	56	61	61
Projected	2006	58	55	53	47	50	76	85	80	70	57	58	62	61
	2007	60	56	54	48	51	78	87	81	72	58	59	63	62
	2008	61	57	55	49	52	79	88	83	73	59	60	64	63
	2009	62	58	56	50	53	81	90	84	74	60	61	65	64
	2010	63	59	57	50	54	82	91	86	75	61	62	67	65
	2011	64	60	58	51	55	84	93	87	77	62	63	68	67
	2012	65	61	59	52	56	85	95	89	78	63	64	69	68
	2013	66	62	60	53	57	87	96	90	80	64	65	70	69
	2014	67	63	61	54	58	88	98	92	81	65	66	71	70
	2015	68	64	62	55	58	89	99	93	82	66	67	72	71
Projected	2016	69	65	63	56	59	90	100	94	83	67	68	73	72
	2017	70	66	64	56	60	92	102	96	84	68	69	74	73
	2018	71	67	65	57	61	93	103	97	85	69	69	75	74
	2019	72	67	65	58	61	94	104	98	86	70	70	76	75
	2020	73	68	66	58	62	95	106	99	87	70	71	76	76
	2021	74	69	67	59	63	96	107	100	88	71	72	77	76
	2022	75	70	68	60	64	97	108	102	89	72	73	78	77
	2023	75	71	69	60	64	98	109	103	90	73	74	79	78
	2024	76	71	69	61	65	99	110	104	91	74	74	80	79
	2025	77	72	70	62	66	101	112	105	92	74	75	81	80

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001	62.9%	70.1%	68.7%	69.7%	53.5%	53.1%	54.3%	48.5%	62.0%	61.8%	60.5%	64.7%	
	2002	67.1%	67.2%	66.6%	64.0%	53.5%	52.5%	59.7%	57.3%	49.5%	67.5%	68.0%	67.9%	66.3%
	2003	69.7%	68.6%	67.7%	66.8%	68.2%	47.7%	59.3%	53.9%	49.5%	65.6%	65.2%	66.3%	67.0%
	2004	66.1%	68.1%	67.1%	65.7%	64.6%	50.7%	52.2%	51.3%	52.4%	68.7%	64.8%	63.9%	61.9%
	2005	67.1%	67.3%	66.6%	67.1%	68.0%	50.3%	55.2%	50.1%	52.3%	52.2%	61.6%	65.4%	61.8%
Projected	2006	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.0%	68.3%	62.0%
	2007	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.3%	68.7%	62.1%
	2008	64.7%	64.7%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.0%	68.4%	62.1%
	2009	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.3%	68.7%	62.1%
	2010	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.1%	68.5%	62.1%
	2011	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.1%	68.5%	62.1%
	2012	64.7%	64.7%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.3%	68.7%	62.1%
	2013	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.3%	68.7%	62.1%
	2014	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.4%	68.8%	62.1%
	2015	64.7%	67.0%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.4%	68.8%	62.1%
Avg	1996-2005	66.8%	68.2%	67.3%	66.6%	61.6%	50.9%	56.1%	52.2%	53.1%	63.2%	64.0%	69.7%	64.3%
	2006-2015	64.7%	66.5%	64.6%	68.0%	64.2%	51.9%	54.6%	53.4%	53.0%	61.6%	63.2%	68.6%	62.1%

Kissson

MMonthlyCCoincidentPPeakDDemand(MMW)

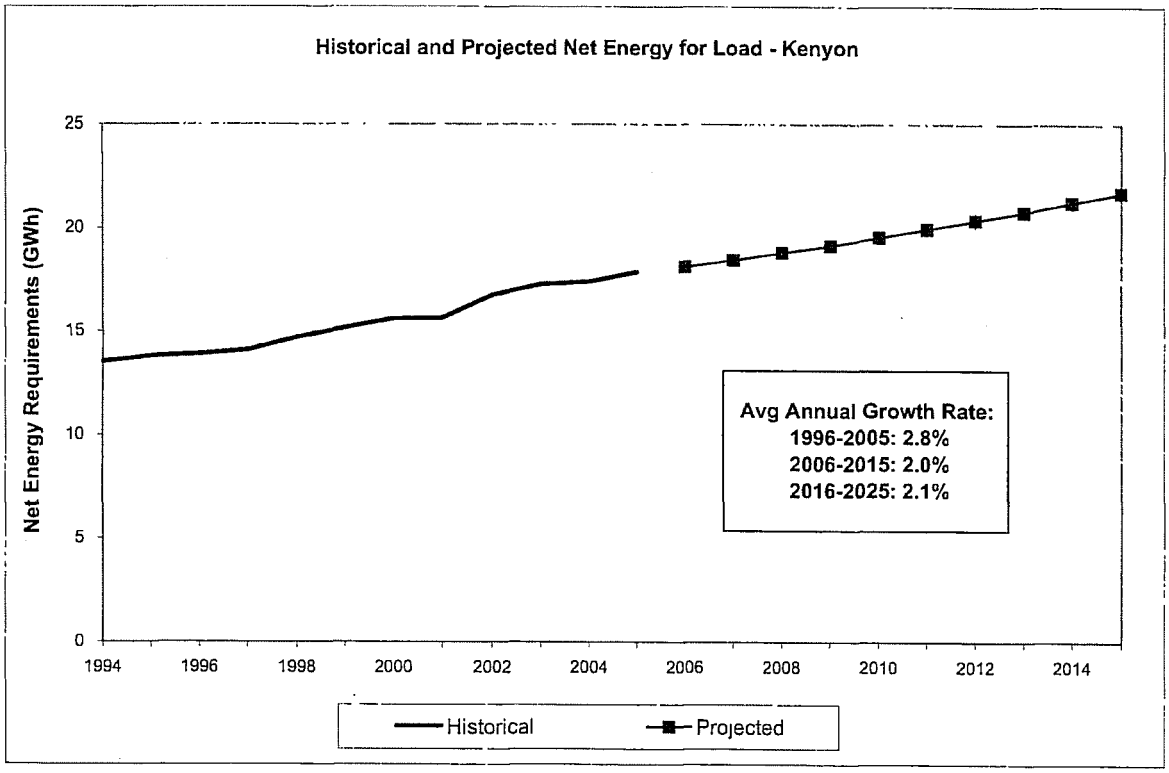
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WntrPk
	2006	557	444	448	443	447	44[illegible]	783	756	660	422	555	661	557
	2007	588	455	449	441	449	44[illegible]	774	777	662	443	566	662	588
	2008	599	466	550	46[illegible]	449	44[illegible]	765	789	663	443	557	663	599
Projected	2009	660	477	551	46[illegible]	550	44[illegible]	777	880	684	444	558	665	660
	2010	661	477	551	44[illegible]	551	44[illegible]	788	882	665	465	559	666	661
	2011	662	488	522	443	522	44[illegible]	880	883	666	466	660	687	662
	2012	663	499	553	443	553	45[illegible]	881	885	687	477	661	688	663
	2013	684	560	584	443	584	46[illegible]	883	886	688	477	662	689	684
	2014	665	511	555	50[illegible]	655	46[illegible]	884	887	689	448	663	700	665
	2015	666	511	566	551	556	47[illegible]	885	889	700	409	684	771	666
	2016	687	522	557	52[illegible]	556	44[illegible]	866	990	771	449	684	722	687
	2017	668	533	557	52[illegible]	557	44[illegible]	887	991	722	550	665	783	688
	2018	669	533	588	553	558	44[illegible]	889	992	783	551	666	774	669
Projected	2019	700	544	599	581	598	44[illegible]	990	993	774	551	667	765	700
	2020	771	555	660	581	599	55[illegible]	991	994	765	522	688	766	771
	2021	771	555	660	55[illegible]	680	55[illegible]	922	956	766	553	688	766	771
	2022	722	566	661	55[illegible]	661	55[illegible]	993	997	777	553	689	777	722
	2023	783	577	662	563	661	52[illegible]	994	998	788	584	700	788	783
	2024	774	577	662	57[illegible]	662	52[illegible]	955	999	789	584	771	789	774
	2025	765	588	663	57[illegible]	683	55[illegible]	966	1000	789	555	722	880	765

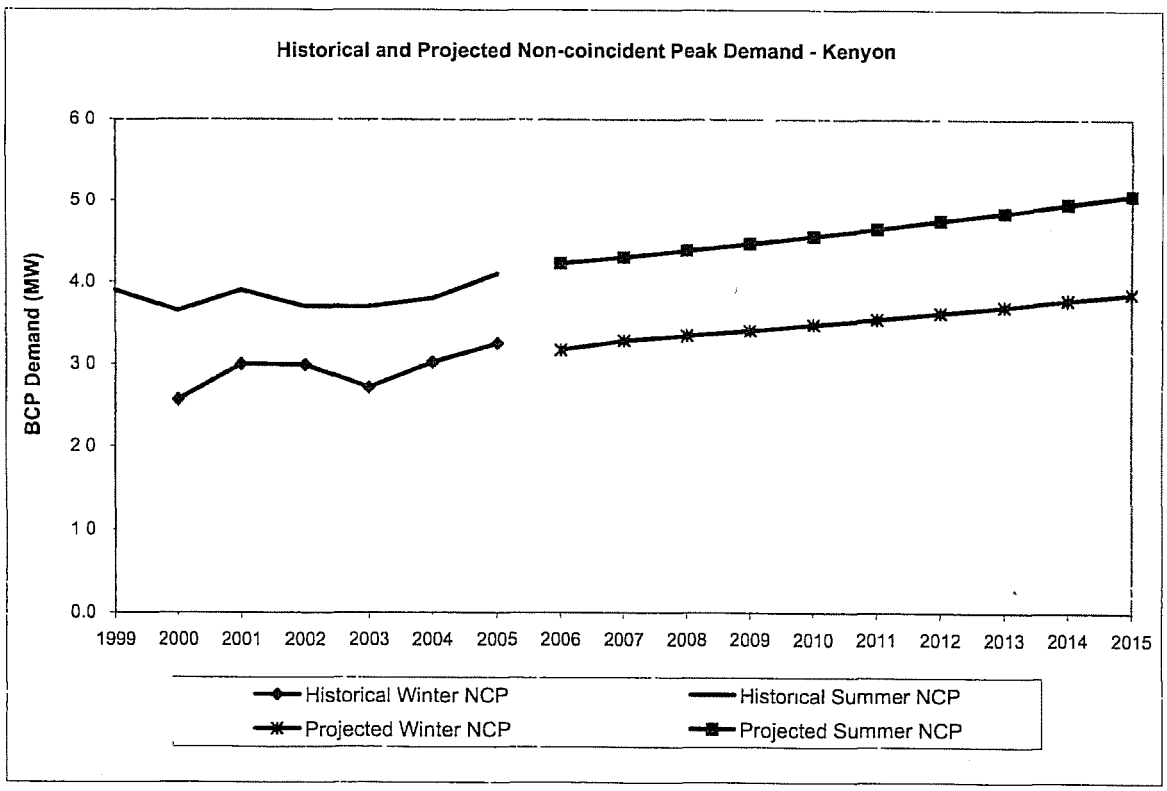
MMonthly CCoincidence FFactorss

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	WntrPk
	2006	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	932%
	2007	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2008	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
Projected	2009	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2010	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2011	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2012	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2013	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2014	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2015	966%	883%	990%	927%	993%	556%	859%	993%	860%	737%	993%	988%	933%
	2006-2015	966%	883%	990%	927%	880%	556%	859%	993%	860%	737%	993%	988%	933%

N:\[illegible]MMR\[illegible]Summary_[illegible]Precasts

3428


Historical and Projected Net Energy for Load - Kenyon
Net Energy Requirements (GWh)
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 2.8%
2006-2015: 2.0%
2016-2025: 2.1%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Kenyon
BCP Demand (MW)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Kenyon

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	13,905	-	13,813	-	-0 7%	2 4	-	65 2%	3.2	-	49 1%	#N/A
	1997	14,084	1 3%	14,164	2 5%	0 6%	2 6	7 1%	61 6%	3 3	1 9%	48.8%	#N/A
	1998	14,697	4 4%	15,080	6 5%	2 6%	2 8	5 5%	60 9%	3 7	12.3%	45 3%	#N/A
	1999	15,175	3 3%	15,458	2.5%	1 9%	#N/A	#N/A	#N/A	3 9	5.4%	44 4%	#N/A
	2000	15,599	2 8%	15,765	2 0%	1 1%	2.6	#N/A	69 6%	3 7	-6.4%	48 8%	#N/A
	2001	15,644	0 3%	15,602	-1 0%	-0 3%	3 0	17.2%	59 5%	3.9	6 8%	45 8%	#N/A
	2002	16,765	7 2%	16,510	5 8%	-1 5%	3 0	-0.4%	64.0%	3.7	-5 1%	51.7%	#N/A
	2003	17,292	3 1%	17,159	3 9%	-0.8%	2 7	-9.3%	72.8%	3.7	0 0%	53.4%	#N/A
	2004	17,424	0 8%	17,865	4 1%	2 5%	3 0	11.3%	65.9%	3.8	2 7%	52 3%	#N/A
	2005	17,874	2 6%	17,761	-0 6%	-0.6%	3.2	7 6%	62.8%	4.1	7 9%	49 8%	#N/A
Projected	2006	18,115	1.3%	18,115	2 0%		3.2	-2 4%	65.2%	4.2	3 1%	48 9%	2.9
	2007	18,445	1.8%	18,445	1 8%		3 3	3 5%	64 1%	4 3	1 8%	48.9%	2 9
	2008	18,812	2 0%	18,812	2 0%		3 3	2 0%	64 1%	4 4	2 0%	48.9%	3 0
	2009	19,156	1 8%	19,156	1 8%		3 4	1.8%	64 1%	4.5	1 8%	48.9%	3 0
	2010	19,548	2 0%	19,548	2.0%		3 5	2 0%	64 1%	4 6	2 0%	48.9%	3 1
	2011	19,948	2 0%	19,948	2 0%		3 6	2 0%	64 1%	4 7	2 0%	48 9%	3 2
	2012	20,363	2.1%	20,363	2 1%		3 6	2.1%	64 1%	4 8	2.1%	48 9%	3 2
	2013	20,780	2 1%	20,780	2 1%		3 7	2 1%	64 1%	4 9	2 1%	48.9%	3 3
	2014	21,238	2 2%	21,238	2 2%		3 8	2.2%	64 1%	5 0	2.2%	48 9%	3 4
	2015	21,698	2 2%	21,698	2 2%		3 9	2.2%	64 1%	5 1	2 2%	48.9%	3 4
	2016	22,163	2 1%	22,163	2 1%		3 9	2.1%	64.1%	5 2	2.1%	48.9%	3.5
	2017	22,622	2 1%	22,622	2 1%		4 0	2 1%	64 1%	5 3	2 1%	48 9%	3.6
	2018	23,086	2 1%	23,086	2 1%		4.1	2 1%	64 1%	5.4	2 1%	48 9%	3.7
	2019	23,561	2 1%	23,561	2 1%		4.2	2 1%	64 1%	5 5	2 1%	48 9%	3.7
	2020	24,047	2 1%	24,047	2 1%		4.3	2.1%	64 1%	5.6	2 1%	48 9%	3 8
	2021	24,551	2 1%	24,551	2 1%		4 4	2 1%	64.1%	5.7	2 1%	48 9%	3.9
	2022	25,066	2 1%	25,066	2 1%		4 5	2 1%	64 1%	5.9	2 1%	48 9%	4.0
	2023	25,591	2.1%	25,591	2.1%		4 6	2 1%	64.1%	6.0	2 1%	48.9%	4 1
	2024	26,125	2 1%	26,125	2 1%		4 7	2 1%	64.1%	6.1	2 1%	48 9%	4 1
	2025	26,670	2 1%	26,670	2 1%		4 7	2 1%	64 1%	6 2	2 1%	48 9%	4 2
AAGR	Thru 2005		2 8%		2 8%			3 2%	#N/A		2 7%	48.9%	
	2006-2015		2 0%		2 0%			2 2%	64 2%		2.0%	48.9%	
	2016-2025		2 1%		2 1%			2 1%	64 1%		2 1%	48 9%	

3430

Kenyon

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Tot
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2001	1,374	1,234	1,249	1,173	1,200	1,347	1,411	1,477	1,174	1,286	1,325	1,392	15,(
	2002	1,383	1,199	1,330	1,245	1,230	1,425	1,716	1,510	1,386	1,392	1,491	1,458	16,'
	2003	1,499	1,346	1,380	1,303	1,334	1,427	1,622	1,561	1,401	1,454	1,403	1,561	17,'
	2004	1,509	1,354	1,405	1,284	1,318	1,411	1,576	1,479	1,467	1,449	1,563	1,609	17,(
	2005	1,540	1,336	1,467	1,319	1,354	1,582	1,668	1,601	1,463	1,503	1,509	1,532	17,3
Projected	2006	1,557	1,379	1,465	1,348	1,372	1,533	1,703	1,627	1,467	1,509	1,554	1,610	18,'
	2007	1,585	1,405	1,482	1,373	1,397	1,561	1,734	1,657	1,493	1,537	1,582	1,639	18,(
	2008	1,617	1,432	1,511	1,400	1,424	1,592	1,769	1,690	1,523	1,567	1,614	1,672	18,(
	2009	1,647	1,459	1,539	1,425	1,450	1,621	1,801	1,721	1,551	1,596	1,643	1,702	19,'
	2010	1,680	1,489	1,571	1,455	1,480	1,654	1,838	1,756	1,583	1,629	1,677	1,737	19,(
	2011	1,715	1 519	1,603	1,484	1,510	1,688	1,876	1,792	1,615	1,662	1,711	1,772	19,(
	2012	1,750	1,551	1,636	1,515	1,542	1,723	1,915	1,829	1,649	1,697	1,747	1,809	20,'
	2013	1 786	1 582	1 670	1 546	1,573	1,759	1,954	1,867	1,682	1,731	1,783	1,846	20,(
	2014	1,826	1,617	1,706	1,580	1,608	1,797	1,997	1,908	1,719	1,770	1,822	1,887	21,(
	2015	1,865	1,652	1,743	1,615	1,643	1,836	2,040	1,949	1,757	1,808	1,861	1,928	21,(
Projected	2016	1,905	1,688	1,781	1,649	1,678	1,876	2,084	1,991	1,794	1,847	1,901	1,969	22,(
	2017	1,944	1,723	1,818	1,683	1,713	1,914	2,127	2,032	1,831	1,885	1,941	2,010	22,(
	2018	1,984	1,758	1,855	1,718	1,748	1,954	2,171	2,074	1,869	1,923	1,981	2,051	23,(
	2019	2,025	1,794	1,893	1,753	1,784	1,994	2,215	2,117	1,907	1,963	2,021	2,094	23,(
	2020	2,067	1,831	1,932	1,789	1,821	2,035	2,261	2,160	1,947	2,004	2,063	2,137	24,(
	2021	2,110	1,869	1,973	1,827	1,859	2,078	2,309	2,206	1,988	2,046	2,106	2,182	24,(
	2022	2,155	1,909	2,014	1,865	1,898	2,121	2,357	2,252	2,029	2,088	2,150	2,227	25,(
	2023	2,200	1,949	2,056	1,904	1,938	2,166	2,406	2,299	2,072	2,132	2,195	2,274	25,(
	2024	2,246	1,989	2,099	1 944	1,978	2,211	2,457	2,347	2,115	2,177	2,241	2,321	26,'
	2025	2,292	2,031	2,143	1,985	2,019	2,257	2,508	2,396	2,159	2,222	2,288	2,370	26,(

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2001	8 8%	7 9%	8 0%	7 5%	7 7%	8 6%	9 0%	9 4%	7 5%	8 2%	8 5%	8 9%	100
	2002	8 3%	7 2%	7 9%	7 4%	7 3%	8 5%	10 2%	9 0%	8 3%	8 3%	8 9%	8 7%	100
	2003	8 7%	7 8%	8 0%	7 5%	7 7%	8 3%	9 4%	9 0%	8 1%	8 4%	8 1%	9 0%	100
	2004	8 7%	7 8%	8 1%	7 4%	7 6%	8 1%	9 0%	8 5%	8 4%	8 3%	9 0%	9 2%	100
	2005	8 6%	7 5%	8 2%	7 4%	7 6%	8 9%	9 3%	9 0%	8 2%	8 4%	8 4%	8 6%	100
Projected	2006	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2007	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2008	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2009	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2010	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2011	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2012	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2013	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2014	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
	2015	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2006-2015	8 6%	7 6%	8 0%	7 4%	7 6%	8 5%	9 4%	9 0%	8 1%	8 3%	8 6%	8 9%	100

Kenyon

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	39	37	31	31	30	30	#N/A
	2002	26	24	25	25	28	34	37	31	34	27	27	26	30
	2003	26	26	25	25	25	32	35	37	31	28	27	27	27
	2004	30	28	28	27	29	37	38	37	34	31	32	32	30
	2005	30	28	28	28	29	36	37	41	37	31	30	30	32
Projected	2006	32	30	30	29	30	38	42	39	38	33	33	32	32
	2007	32	31	30	29	31	39	43	40	39	33	33	33	33
	2008	33	32	31	30	32	40	44	41	40	34	34	33	33
	2009	34	32	32	30	32	40	45	42	40	34	35	34	34
	2010	34	33	32	31	33	41	46	43	41	35	36	35	35
	2011	35	33	33	32	34	42	47	43	42	36	36	35	36
	2012	36	34	34	32	34	43	48	44	43	37	37	36	36
	2013	36	35	34	33	35	44	49	45	44	37	38	37	37
	2014	37	36	35	34	36	45	50	46	45	38	39	38	38
	2015	38	36	36	35	36	46	51	47	46	39	39	38	39
Projected	2016	39	37	37	35	37	47	52	48	47	40	40	39	39
	2017	40	38	37	36	38	48	53	49	48	41	41	40	40
	2018	40	39	38	37	39	49	54	50	49	42	42	41	41
	2019	41	39	39	38	40	50	55	51	50	42	43	42	42
	2020	42	40	40	38	40	51	56	52	51	43	44	42	43
	2021	43	41	40	39	41	52	57	53	52	44	45	43	44
	2022	44	42	41	40	42	53	59	55	53	45	46	44	45
	2023	45	43	42	41	43	54	60	56	54	46	47	45	46
	2024	46	44	43	42	44	55	61	57	55	47	47	46	47
	2025	47	45	44	42	45	56	62	58	56	48	48	47	47

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001							48 6%	54 3%	53 2%	56 4%	61 6%	63 1%	
	2002	72 0%	72 9%	70 5%	69 3%	59 0%	58 8%	62 3%	66 2%	56 0%	69 8%	76 4%	74 8%	64 0%
	2003	78 1%	78 5%	72 9%	73 6%	71 0%	62 7%	62 6%	56 7%	61 9%	70 3%	71 8%	78 1%	72 8%
	2004	67 2%	68 8%	67 8%	66 4%	60 6%	53 5%	55 7%	54 1%	59 1%	63 2%	68 6%	66 6%	65 9%
	2005	68 8%	71 0%	69 6%	65 5%	63 1%	61 7%	60 9%	52 5%	55 4%	64 6%	71 0%	68 6%	62 8%
Projected	2006	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 7%	67 8%	65 2%
	2007	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 7%	64 1%
	2008	66 0%	65 3%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 7%	67 8%	64 1%
	2009	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 6%	64 1%
	2010	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 6%	64 1%
	2011	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 8%	64 1%
	2012	66 0%	65 3%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 6%	64 1%
	2013	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 5%	67 5%	64 1%
	2014	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 5%	67 6%	64 1%
	2015	66 0%	67 6%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 5%	67 6%	64 1%
Avg.	1996-2005	71 5%	72 8%	70 2%	68 7%	63 4%	59 2%	58 1%	56 8%	57 1%	64 9%	69 9%	70 2%	66 4%
	2006-2015	66 0%	67 1%	65 5%	64 9%	60 6%	55 6%	54 1%	55 4%	53 2%	62 3%	65 6%	67 6%	64 2%

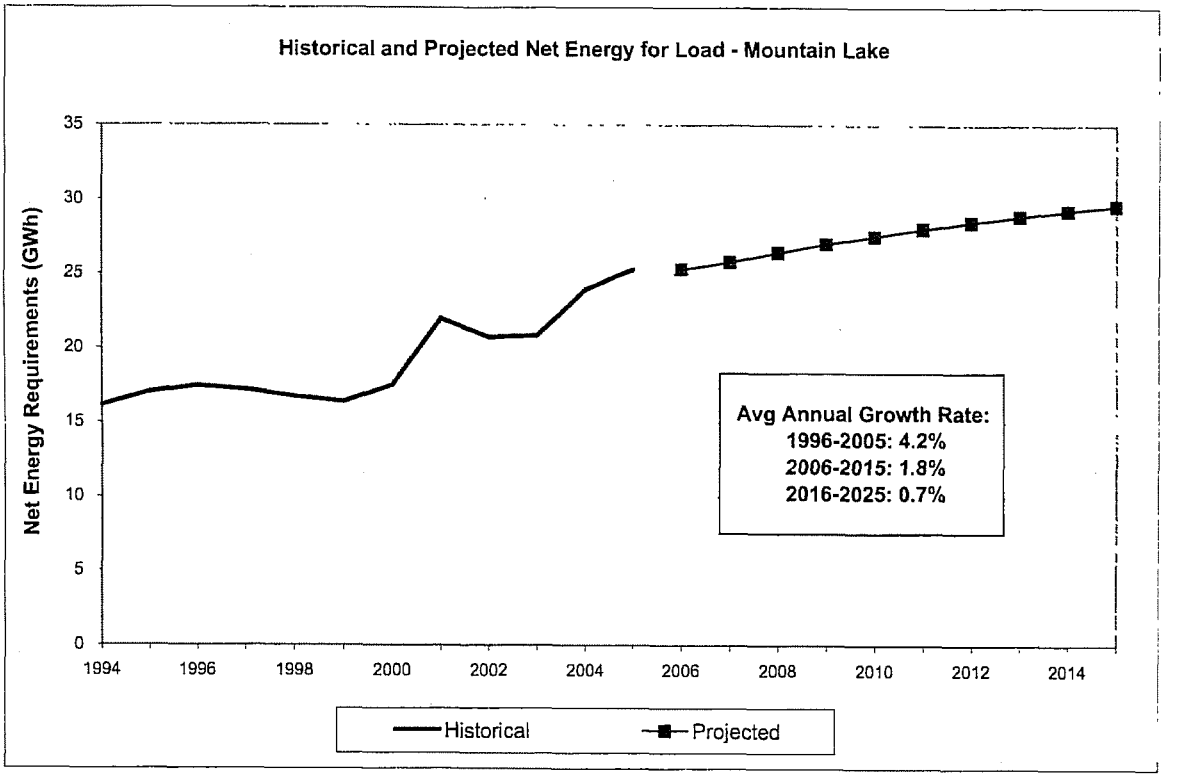
Kenyon

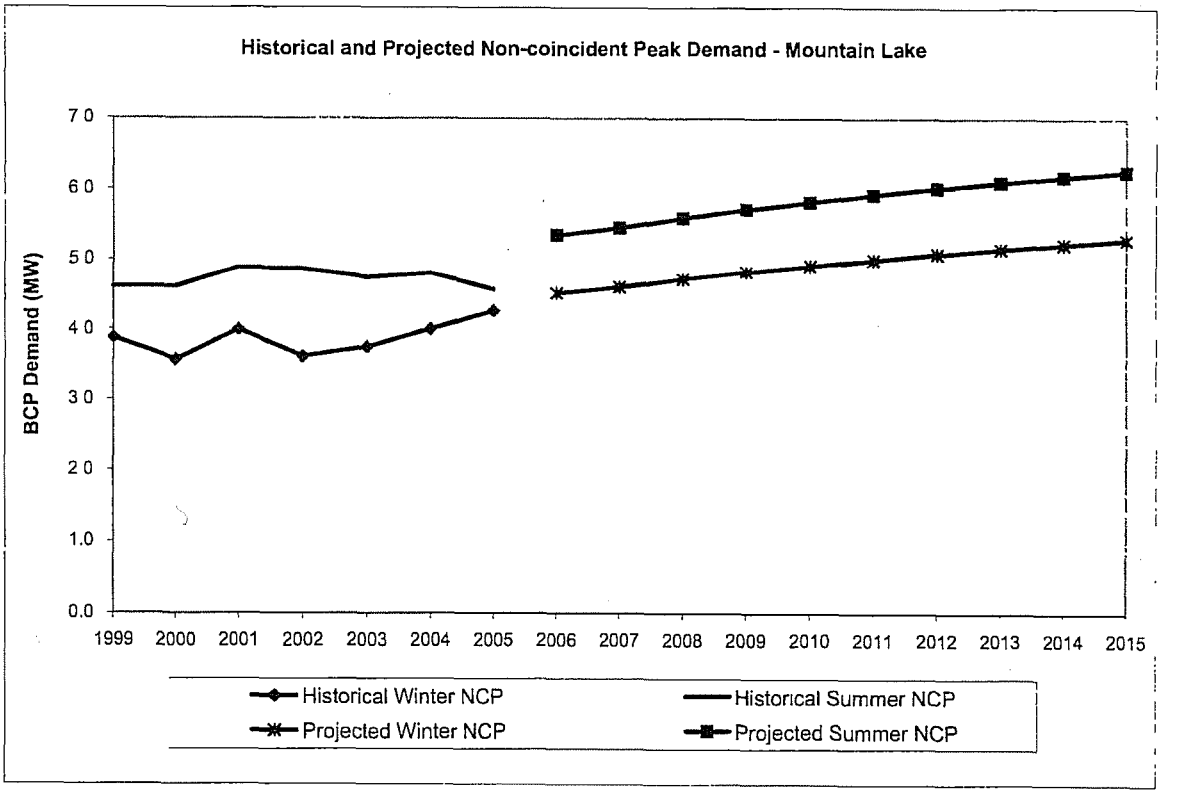
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	29	28	29	28	28	36	38	38	36	29	29	29	29
	2007	29	29	29	28	29	37	39	39	37	30	29	29	29
	2008	30	29	30	29	30	38	40	40	38	30	30	30	30
	2009	30	30	30	30	30	38	40	40	38	31	30	30	30
	2010	31	30	31	30	31	39	41	41	39	32	31	31	31
	2011	32	31	32	31	31	40	42	42	40	32	31	32	32
	2012	32	32	32	31	32	41	43	43	41	33	32	32	32
	2013	33	32	33	32	33	41	44	44	42	33	33	33	33
	2014	34	33	34	33	33	42	45	45	43	34	34	34	34
	2015	34	34	34	33	34	43	46	46	44	35	34	34	34
Projected	2016	35	35	35	34	35	44	47	47	44	36	35	35	35
	2017	36	35	36	35	36	45	48	48	45	36	36	36	36
	2018	37	36	37	36	36	46	48	49	46	37	36	37	37
	2019	37	37	37	36	37	47	49	50	47	38	37	37	37
	2020	38	37	38	37	38	48	51	51	48	39	38	38	38
	2021	39	38	39	38	39	49	52	52	49	40	39	39	39
	2022	40	39	40	39	39	50	53	53	50	40	40	40	40
	2023	41	40	41	39	40	51	54	54	51	41	40	41	41
	2024	41	41	41	40	41	52	55	55	52	42	41	41	41
	2025	42	42	42	41	42	53	56	56	53	43	42	42	42

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	90 5%
	2007	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2008	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2009	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2010	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2011	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2012	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2013	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2014	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2015	90 5%	93 0%	96 0%	96 9%	93 5%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 0%
	2006-2015	90 5%	93 0%	96 0%	96 9%	93 0%	94 5%	90 0%	96 8%	94 9%	89 6%	86 9%	89 8%	89 2%


Historical and Projected Net Energy for Load - Mountain Lake
Net Energy Requirements (GWh)
35
30
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 4.2%
2006-2015: 1.8%
2016-2025: 0.7%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Mountain Lake
BCP Demand (MW)
70
60
50
40
30
20
1.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Mountain Lake

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	17,458	-	17,516	-	0.3%	3.2	-	61.6%	3.8	-	51 8%	#N/
	1997	17,191	-1 5%	17,243	-1.6%	0 3%	3 4	5.1%	57.7%	3 2	-16 8%	61 3%	#N/
	1998	16,734	-2.7%	16,700	-3.1%	-0 2%	3.6	5.6%	53 2%	4 3	33.3%	44 8%	#N/
	1999	16,393	-2.0%	16,356	-2.1%	-0 2%	3.9	8 0%	48 3%	4 6	8.0%	40 6%	#N/
	2000	17,517	6.9%	17,514	7.1%	0 0%	3 6	-8 0%	56.1%	4.6	0.0%	43 4%	#N/
	2001	21,991	25 5%	21,825	24 6%	-0 8%	4.0	12 2%	62 8%	4 9	6 0%	51.4%	#N/
	2002	20,752	-5 6%	20,550	-5.8%	-1 0%	3 6	-9 8%	65 6%	4.9	-0.4%	48 7%	#N/
	2003	20,866	0 5%	20,739	0 9%	-0.6%	3 7	3 8%	63.6%	4.7	-2 5%	50.3%	#N/
	2004	23,939	14.7%	24,038	15 9%	0 4%	4 0	7 0%	68.2%	4.8	1 3%	56 9%	#N/
	2005	25,312	5.7%	25,053	4.2%	-1 0%	4.3	6.5%	67 7%	4 6	-4.7%	63 1%	#N/
Projected	2006	25,312	0 0%	25,312	1 0%		4.5	5 9%	63 9%	5.3	16.8%	54 1%	4 3
	2007	25,806	2 0%	25,806	2.0%		4.6	2 0%	63 9%	5 5	2 0%	54 1%	4 4
	2008	26,455	2.5%	26,455	2.5%		4.7	2 5%	63.9%	5 6	2.5%	54 1%	4 5
	2009	27,055	2.3%	27,055	2 3%		4 8	2 3%	63.9%	5 7	2 3%	54 1%	4 6
	2010	27,550	1 8%	27,550	1.8%		4 9	1 8%	63 9%	5.8	1 8%	54 1%	4.7
	2011	28,042	1 8%	28,042	1 8%		5 0	1.8%	63 9%	5.9	1 8%	54 1%	4 7
	2012	28,499	1 6%	28,499	1 6%		5 1	1.6%	63.9%	6.0	1 6%	54.1%	4 8
	2013	28,903	1.4%	28,903	1 4%		5.2	1 4%	63.9%	6 1	1.4%	54 1%	4 9
	2014	29,272	1.3%	29,272	1.3%		5 2	1.3%	63 9%	6 2	1 3%	54 1%	4 9
	2015	29,611	1 2%	29,611	1 2%		5 3	1 2%	63 9%	6 3	1 2%	54 1%	5 0
	2016	29,922	1.0%	29,922	1 0%		5 3	1 0%	63 9%	6.3	1 0%	54.1%	5 1
	2017	30,266	1.1%	30,266	1 1%		5 4	1.1%	63.9%	6.4	1 1%	54 1%	5 1
	2018	30,553	0.9%	30,553	0.9%		5.5	0 9%	63 9%	6 5	0 9%	54 1%	5 2
	2019	30,756	0 7%	30,756	0.7%		5 5	0 7%	63 9%	6 5	0 7%	54 1%	5 2
	2020	30,935	0.6%	30,935	0.6%		5 5	0 6%	63 9%	6.5	0 6%	54.1%	5 2
	2021	31,081	0 5%	31,081	0.5%		5 5	0 5%	63 9%	6 6	0 5%	54.1%	5.2
	2022	31,255	0 6%	31,255	0 6%		5 6	0.6%	63 9%	6 6	0 6%	54.1%	5 3
	2023	31,450	0 6%	31,450	0 6%		5 6	0.6%	63.9%	6.6	0 6%	54 1%	5 3
	2024	31,607	0.5%	31,607	0 5%		5.6	0 5%	63 9%	6 7	0 5%	54.1%	5 3
	2025	31,763	0 5%	31,763	0.5%		5.7	0 5%	63.9%	6 7	0.5%	54 1%	5 4
AAGR	Thru 2005		4 2%		4 1%			3 1%	60 5%		2 0%	51.2%	
	2006-2015		1 8%		1 8%			1 8%	63.9%		1 8%	54 1%	
	2016-2025		0.7%		0 7%			0.7%	63.9%		0 7%	54 1%	

N \013508 CMMPA\037268\CMMPA Summary_Fcst06_NCP Pres xls

Mountain Lake

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	1,718	1,493	1,699	1,577	1,606	1,832	2,190	1,864	1,648	1,693	1,694	1,738	20,75
	2003	1,849	1,645	1,668	1,563	1,562	1,686	2,006	2,023	1,646	1,709	1,680	1,828	20,86
	2004	2,182	1,942	1,946	1,804	1,855	1,902	2,210	2,021	1,928	1,965	1,923	2,262	23,93
	2005	2,393	1,967	2,113	1,872	1,925	2,174	2,421	2,234	1,979	2,000	2,003	2,231	25,31
Projected	2006	2,260	1,959	2,067	1,900	1,935	2,116	2,465	2,275	2,006	2,054	2,035	2,240	25,31
	2007	2,304	1,997	2,107	1,937	1,973	2,157	2,513	2,319	2,046	2,094	2,075	2,284	25,80
	2008	2,362	2,047	2,160	1,986	2,022	2,212	2,577	2,377	2,097	2,147	2,127	2,341	26,45
	2009	2,415	2,094	2,209	2,031	2,068	2,262	2,635	2,431	2,145	2,195	2,175	2,394	27,05
	2010	2,459	2,132	2,249	2,068	2,106	2,303	2,683	2,476	2,184	2,235	2,215	2,438	27,55
	2011	2,503	2,170	2,290	2,105	2,144	2,344	2,731	2,520	2,223	2,275	2,255	2,482	28,04
	2012	2,544	2,206	2,327	2,139	2,178	2,383	2,776	2,561	2,259	2,312	2,292	2,522	28,49
	2013	2,580	2,237	2,360	2,169	2,209	2,416	2,815	2,597	2,291	2,345	2,324	2,558	28,90
	2014	2,613	2,265	2,390	2,197	2,238	2,447	2,851	2,631	2,320	2,375	2,354	2,591	29,27
	2015	2,643	2,292	2,418	2,223	2,264	2,476	2,884	2,661	2,347	2,403	2,381	2,621	29,61
Projected	2016	2,671	2,316	2,443	2,246	2,287	2,502	2,914	2,689	2,372	2,428	2,406	2,648	29,92
	2017	2,702	2,342	2,471	2,272	2,314	2,530	2,948	2,720	2,399	2,456	2,434	2,679	30,26
	2018	2,727	2,365	2,495	2,293	2,336	2,554	2,976	2,746	2,422	2,479	2,457	2,704	30,55
	2019	2,746	2,380	2,511	2,308	2,351	2,571	2,996	2,764	2,438	2,496	2,473	2,722	30,75
	2020	2,762	2,394	2,526	2,322	2,365	2,586	3,013	2,780	2,452	2,510	2,487	2,738	30,93
	2021	2,775	2,405	2,538	2,333	2,376	2,598	3,027	2,793	2,464	2,522	2,499	2,751	31,08
	2022	2,790	2,419	2,552	2,346	2,389	2,613	3,044	2,809	2,477	2,536	2,513	2,766	31,25
	2023	2,808	2,434	2,568	2,361	2,404	2,629	3,063	2,826	2,493	2,552	2,529	2,783	31,45
	2024	2,822	2,446	2,581	2,372	2,416	2,642	3,078	2,840	2,505	2,565	2,541	2,797	31,60
	2025	2,835	2,458	2,593	2,384	2,428	2,656	3,094	2,854	2,518	2,577	2,554	2,811	31,76

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	8 3%	7 2%	8 2%	7 6%	7 7%	8 8%	10 6%	9 0%	7 9%	8 2%	8 2%	8 4%	100 0
	2003	8 9%	7 9%	8 0%	7 5%	7 5%	8 1%	9 6%	9 7%	7 9%	8 2%	8 1%	8 8%	100 0
	2004	9 1%	8 1%	8 1%	7 5%	7 7%	7 9%	9 2%	8 4%	8 1%	8 2%	8 0%	9 4%	100 0
	2005	9 5%	7 8%	8 3%	7 4%	7 6%	8 6%	9 6%	8 8%	7 8%	7 9%	7 9%	8 8%	100 0
Projected	2006	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2007	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2008	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2009	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2010	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2011	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2012	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2013	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2014	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
	2015	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2006-2015	8 9%	7 7%	8 2%	7 5%	7 6%	8 4%	9 7%	9 0%	7 9%	8 1%	8 0%	8 9%	100 0

3436

Mountain Lake

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	46	47	49	39	32	35	36	#N/A
	2002	35	34	34	33	37	48	49	44	42	34	34	36	36
	2003	37	37	35	34	32	42	45	47	39	34	35	36	37
	2004	40	37	35	33	33	42	48	44	43	35	36	43	40
	2005	40	38	37	33	34	46	46	46	39	36	37	39	43
Projected	2006	45	42	40	37	38	49	53	51	45	40	42	44	45
	2007	46	43	41	38	39	50	55	52	46	41	43	45	46
	2008	47	44	42	39	40	51	56	54	47	42	44	46	47
	2009	48	45	43	39	41	52	57	55	49	43	44	47	48
	2010	49	46	44	40	42	53	58	56	49	44	45	48	49
	2011	50	46	45	41	42	54	59	57	50	44	46	49	50
	2012	51	47	45	42	43	55	60	58	51	45	47	49	51
	2013	52	48	46	42	44	56	61	59	52	46	47	50	52
	2014	52	48	47	43	44	57	62	59	53	46	48	51	52
	2015	53	49	47	43	45	57	63	60	53	47	48	51	53
Projected	2016	53	50	48	44	45	58	63	61	54	47	49	52	53
	2017	54	50	48	44	46	59	64	61	54	48	49	52	54
	2018	55	51	49	45	46	59	65	62	55	48	50	53	55
	2019	55	51	49	45	46	60	65	62	55	49	50	53	55
	2020	55	51	49	45	47	60	65	63	56	49	50	53	55
	2021	55	51	49	45	47	60	66	63	56	49	50	53	55
	2022	56	52	50	46	47	61	66	63	56	49	51	54	56
	2023	56	52	50	46	47	61	66	64	56	50	51	54	56
	2024	56	52	50	46	48	61	67	64	57	50	51	54	56
	2025	57	53	50	46	48	62	67	64	57	50	51	55	57

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002	65 4%	65 0%	66 3%	65 5%	58 0%	53 5%	60 5%	56 5%	54 5%	66 0%	69 0%	65 1%	65 6%
	2003	66 4%	65 8%	64 1%	64 4%	66 2%	56 4%	59 6%	57 4%	59 3%	67 7%	66 5%	67 4%	63 6%
	2004	73 2%	74 5%	75 2%	77 0%	75 9%	62 9%	61 8%	62 1%	62 8%	75 4%	73 8%	71 2%	68 2%
	2005	79 5%	76 7%	77 4%	78 0%	75 4%	66 3%	71 1%	65 6%	70 8%	74 8%	74 3%	76 9%	67 7%
Projected	2006	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	67 9%	68 3%	63 9%
	2007	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	67 6%	67 9%	63 9%
	2008	67 2%	67 2%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	67 7%	68 1%	63 9%
	2009	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 0%	68 4%	63 9%
	2010	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 1%	68 4%	63 9%
	2011	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 2%	68 5%	63 9%
	2012	67 2%	67 2%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 3%	68 7%	63 9%
	2013	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 4%	68 8%	63 9%
	2014	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 5%	68 8%	63 9%
	2015	67 2%	69 6%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 6%	68 9%	63 9%
Avg.	1996-2005	71 1%	70 5%	70 7%	71 2%	68 9%	59 8%	63 3%	60 4%	61 8%	71 0%	70 9%	70 2%	66 3%
	2006-2015	67 2%	69 1%	69 0%	71 5%	68 2%	59 9%	62 0%	59 5%	61 3%	69 0%	68 1%	68 5%	63 9%

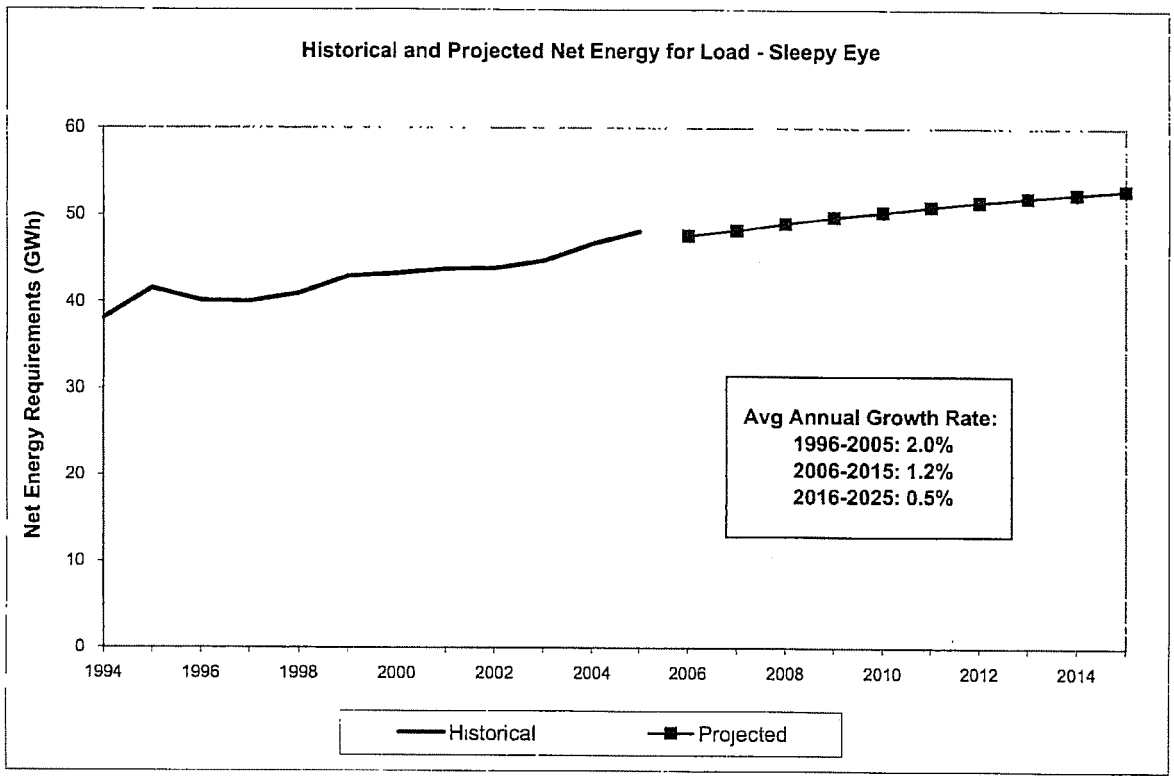
Mountain Lake

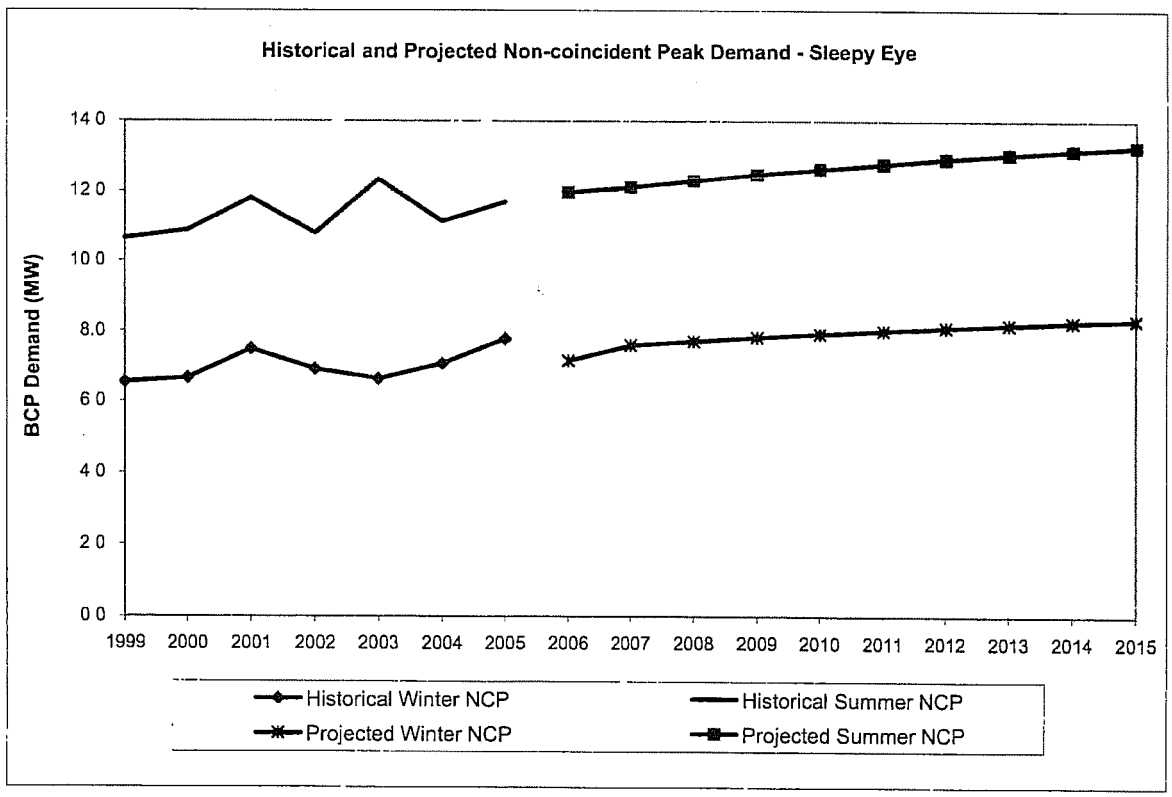
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
Projected	2006	43	40	38	35	37	47	51	50	44	38	40	43	43	
	2007	44	41	38	36	37	48	52	51	45	39	41	44	44	
	2008	45	42	39	37	38	49	54	52	46	40	42	45	45	
	2009	46	43	40	38	39	50	55	53	47	41	42	46	46	
	2010	47	44	41	39	40	51	56	54	48	42	43	47	47	
	2011	47	45	42	39	41	52	57	55	49	42	44	47	47	
	2012	48	45	42	40	41	53	58	56	50	43	44	48	48	
	2013	49	46	43	41	42	54	59	57	50	44	45	49	49	
	2014	49	47	43	41	42	55	60	57	51	44	45	49	49	
	2015	50	47	44	42	43	55	60	58	52	45	46	50	50	
Projected	2016	51	48	44	42	43	56	61	59	52	45	47	50	51	
	2017	51	48	45	42	44	56	62	59	53	46	47	51	51	
	2018	52	49	45	43	44	57	62	60	53	46	47	51	52	
	2019	52	49	46	43	45	57	63	60	54	47	48	52	52	
	2020	52	49	46	43	45	58	63	61	54	47	48	52	52	
	2021	52	49	46	44	45	58	63	61	54	47	48	52	52	
	2022	53	50	46	44	45	58	64	61	54	47	48	52	53	
	2023	53	50	47	44	46	59	64	62	55	48	49	53	53	
	2024	53	50	47	44	46	59	64	62	55	48	49	53	53	
	2025	54	51	47	45	46	59	65	62	55	48	49	53	54	

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
Projected	2006	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2007	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2008	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2009	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2010	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2011	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2012	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2013	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2014	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2015	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	
	2006-2015	94 6%	96 1%	93 4%	96 2%	96 1%	96 3%	96 3%	96 6%	97 0%	95 8%	95 3%	97 5%	94 6%	


Historical and Projected Net Energy for Load - Sleepy Eye
Net Energy Requirements (GWh)
60
50
40
30
20
10
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 2.0%
2006-2015: 1.2%
2016-2025: 0.5%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Sleepy Eye
BCP Demand (MW)
14 0
12 0
10 0
8.0
6 0
4 0
2 0
0 0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Sleepy Eye

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	40,162	-	40,132	-	-0 1%	7.3	-	62 8%	9.7	-	47 3%	#N/A
	1997	40,051	-0.3%	40,315	0.5%	0.7%	6 3	-13.2%	72 2%	10.0	2 9%	45 8%	#N/A
	1998	40,988	2 3%	41,558	3 1%	1 4%	6 8	7 2%	68 9%	10.3	3 0%	45 5%	#N/A
	1999	42,949	4 8%	43,341	4.3%	0 9%	6 5	-3 6%	74 9%	10.6	3 5%	46 1%	#N/A
	2000	43,274	0.8%	43,549	0 5%	0.6%	6.7	1.8%	74 2%	10 9	2 1%	45 5%	#N/A
	2001	43,807	1.2%	43,398	-0 3%	-0.9%	7.5	12.5%	66.7%	11.8	8 6%	42 4%	#N/A
	2002	43,876	0.2%	43,034	-0.8%	-1 9%	6 9	-7 8%	72 5%	10.8	-8 6%	46 4%	#N/A
	2003	44,750	2.0%	44,261	2 9%	-1.1%	6 6	-4 0%	77 0%	12.3	14 4%	41 4%	#N/A
	2004	46,712	4.4%	47,636	7 6%	2 0%	7.1	6.7%	75.4%	11 1	-9.8%	47 9%	#N/A
	2005	48,119	3 0%	47,433	-0 4%	-1 4%	7 8	10 0%	70 6%	11 7	5.0%	47 0%	#N/A
Projected	2006	47,653	-1.0%	47,653	0 5%		7 2	-8.1%	76 0%	12 0	2 3%	45 5%	6 6
	2007	48,266	1 3%	48,266	1 3%		7.6	6.2%	72.5%	12 1	1.3%	45 5%	6 7
	2008	49,040	1 6%	49,040	1.6%		7 7	1 6%	72.5%	12 3	1 6%	45 5%	6 8
	2009	49,763	1.5%	49,763	1 5%		7 8	1 5%	72 5%	12 5	1.5%	45.5%	6 9
	2010	50,365	1.2%	50,365	1 2%		7 9	1 2%	72 5%	12.6	1.2%	45.5%	7 0
	2011	50,959	1 2%	50,959	1 2%		8.0	1 2%	72 5%	12 8	1 2%	45 5%	7 0
	2012	51,509	1.1%	51,509	1 1%		8 1	1.1%	72.5%	12 9	1 1%	45 5%	7 1
	2013	51,996	0 9%	51,996	0 9%		8 2	0.9%	72.5%	13.0	0.9%	45 5%	7 2
	2014	52,458	0.9%	52,458	0.9%		8 3	0 9%	72 5%	13 2	0.9%	45.5%	7 3
	2015	52,891	0 8%	52,891	0 8%		8 3	0 8%	72 5%	13 3	0.8%	45 5%	7 3
	2016	53,299	0.8%	53,299	0 8%		8 4	0 8%	72.5%	13.4	0 8%	45 5%	7 4
	2017	53,733	0.8%	53,733	0 8%		8 5	0 8%	72.5%	13 5	0 8%	45 5%	7 4
	2018	54,095	0 7%	54,095	0 7%		8 5	0 7%	72.5%	13 6	0.7%	45.5%	7 5
	2019	54,370	0.5%	54,370	0 5%		8 6	0 5%	72.5%	13.6	0.5%	45.5%	7 5
	2020	54,625	0 5%	54,625	0.5%		8 6	0 5%	72.5%	13 7	0 5%	45.5%	7 6
	2021	54,850	0 4%	54,850	0.4%		8.6	0 4%	72 5%	13 8	0.4%	45 5%	7 6
	2022	55,108	0 5%	55,108	0.5%		8.7	0 5%	72.5%	13 8	0.5%	45 5%	7 6
	2023	55,384	0.5%	55,384	0.5%		8 7	0 5%	72 5%	13.9	0.5%	45.5%	7 7
	2024	55,613	0 4%	55,613	0.4%		8 8	0 4%	72.5%	14 0	0 4%	45 5%	7 7
	2025	55,842	0 4%	55,842	0.4%		8 8	0 4%	72 5%	14 0	0 4%	45 5%	7 7
AAGR	Thru 2005		2 0%		1.9%			0 7%	71 5%		2.1%	45 5%	
	2006-2015		1 2%		1 2%			1 7%	72 9%		1.2%	45.5%	
	2016-2025		0 5%		0 5%			0 5%	72 5%		0 5%	45.5%	

3440

Sleepy Eye
Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Tot
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2002	3,094	2,741	3,022	2,843	3,081	3,984	5,088	4,983	4,518	3,685	3,442	3,394	43,8
	2003	3,423	3,063	3,242	2,825	2,738	3,660	4,892	5,406	4,514	3,822	3,538	3,627	44,7
	2004	3,525	3,019	2,560	2,944	3,383	3,865	4,999	4,714	5,220	4,547	3,804	4,132	46,7
	2005	3,514	2,986	3,226	3,100	3,261	4,441	5,332	5,555	5,091	4,177	3,788	3,648	48,3
Projected	2006	3,520	3,069	3,136	3,042	3,236	4,141	5,279	5,370	5,020	4,212	3,784	3,844	47,8
	2007	3,565	3,108	3,176	3,082	3,277	4,195	5,347	5,439	5,085	4,266	3,833	3,893	48,2
	2008	3,623	3,158	3,227	3,131	3,330	4,262	5,433	5,526	5,166	4,334	3,895	3,956	49,0
	2009	3,676	3,205	3,274	3,177	3,379	4,325	5,513	5,607	5,243	4,398	3,952	4,014	49,7
	2010	3,721	3,243	3,314	3,216	3,420	4,377	5,579	5,675	5,306	4,451	4,000	4,063	50,3
	2011	3,764	3,282	3,353	3,254	3,460	4,429	5,645	5,742	5,369	4,504	4,047	4,111	50,9
	2012	3,805	3,317	3,389	3,289	3,497	4,477	5,706	5,804	5,427	4,552	4,091	4,155	51,5
	2013	3,841	3,348	3,421	3,320	3,530	4,519	5,760	5,859	5,478	4,595	4,129	4,194	51,9
	2014	3,875	3,378	3,452	3,349	3,562	4,559	5,811	5,911	5,527	4,636	4,166	4,232	52,4
	2015	3,907	3,406	3,480	3,377	3,591	4,597	5,859	5,960	5,572	4,675	4,200	4,267	52,8
Projected	2016	3,937	3,432	3,507	3,403	3,619	4,632	5,904	6,006	5,615	4,711	4,233	4,300	53,2
	2017	3,969	3,460	3,536	3,431	3,648	4,670	5,952	6,055	5,661	4,749	4,267	4,334	53,7
	2018	3,996	3,484	3,559	3,454	3,673	4,701	5,993	6,096	5,699	4,781	4,296	4,364	54,0
	2019	4,016	3,501	3,577	3,471	3,692	4,725	6,023	6,126	5,728	4,805	4,318	4,386	54,3
	2020	4,035	3,518	3,594	3,488	3,709	4,747	6,051	6,155	5,755	4,828	4,338	4,406	54,6
	2021	4,052	3,532	3,609	3,502	3,724	4,767	6,076	6,181	5,779	4,848	4,356	4,425	54,8
	2022	4,071	3,549	3,626	3,518	3,742	4,789	6,105	6,210	5,806	4,871	4,376	4,445	55,1
	2023	4,091	3,567	3,644	3,536	3,761	4,813	6,135	6,241	5,835	4,895	4,398	4,468	55,3
	2024	4,108	3,581	3,659	3,551	3,776	4,833	6,161	6,267	5,859	4,915	4,417	4,486	55,6
	2025	4,125	3,596	3,674	3,565	3,792	4,853	6,186	6,292	5,883	4,935	4,435	4,505	55,8

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2002	7 1%	6 2%	6 9%	6 5%	7 0%	9 1%	11 6%	11 4%	10 3%	8 4%	7 8%	7 7%	100
	2003	7 6%	6 8%	7 2%	6 3%	6 1%	8 2%	10 9%	12 1%	10 1%	8 5%	7 9%	8 1%	100
	2004	7 5%	6 5%	5 5%	6 3%	7 2%	8 3%	10 7%	10 1%	11 2%	9 7%	8 1%	8 8%	100
	2005	7 3%	6 2%	6 7%	6 4%	6 8%	9 2%	11 1%	11 5%	10 6%	8 7%	7 9%	7 6%	100
Projected	2006	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2007	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2008	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2009	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2010	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2011	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2012	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2013	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2014	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
	2015	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#I
	2006-2015	7 4%	6 4%	6 6%	6 4%	6 8%	8 7%	11 1%	11 3%	10 5%	8 8%	7 9%	8 1%	100

3441

Sleepy Eye

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	99	106	118	90	68	69	67	#N/A
	2002	59	59	59	64	74	99	102	106	108	67	65	65	69
	2003	66	64	61	60	66	90	100	123	102	76	69	71	66
	2004	69	67	63	68	73	99	111	101	111	88	76	78	71
	2005	68	63	62	63	65	110	112	117	105	80	70	72	78
Projected	2006	70	67	65	67	71	103	108	120	112	83	76	76	72
	2007	71	68	66	67	72	104	109	121	114	84	77	77	76
	2008	72	69	67	69	73	106	111	123	116	85	78	78	77
	2009	73	70	68	70	74	107	113	125	117	87	79	79	78
	2010	74	71	69	70	75	108	114	126	119	88	80	80	79
	2011	75	72	70	71	76	110	115	128	120	89	81	81	80
	2012	75	73	70	72	77	111	117	129	121	90	82	82	81
	2013	76	73	71	73	77	112	118	130	123	91	83	83	82
	2014	77	74	72	73	78	113	119	132	124	91	83	83	83
	2015	77	75	72	74	79	114	120	133	125	92	84	84	83
Projected	2016	78	75	73	75	79	115	121	134	126	93	85	85	84
	2017	79	76	73	75	80	116	122	135	127	94	85	85	85
	2018	79	76	74	76	80	117	123	136	128	94	86	86	85
	2019	80	77	74	76	81	117	123	136	128	95	86	86	86
	2020	80	77	75	76	81	118	124	137	129	95	86	86	86
	2021	80	77	75	77	81	118	124	138	129	96	87	87	86
	2022	81	78	75	77	82	119	125	138	130	96	87	87	87
	2023	81	78	76	77	82	119	125	139	131	96	88	88	87
	2024	81	78	76	78	83	120	126	140	131	97	88	88	88
	2025	82	79	76	78	83	120	126	140	132	97	88	88	88

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002	70 9%	69 1%	68 4%	62 2%	56 0%	55 8%	66 9%	63 2%	58 2%	74 4%	73 1%	69 8%	72 5%
	2003	69 4%	71 7%	71 6%	65 0%	56 0%	56 2%	65 7%	58 9%	61 7%	67 4%	71 0%	68 9%	77 0%
	2004	68 8%	65 1%	54 8%	60 5%	61 9%	54 5%	60 7%	62 5%	65 1%	69 7%	69 9%	71 3%	75 4%
	2005	69 9%	70 2%	69 4%	67 8%	67 2%	56 1%	64 1%	63 9%	67 5%	70 1%	75 0%	68 5%	70 6%
Projected	2006	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 2%	68 0%	76 0%
	2007	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 0%	67 8%	72 5%
	2008	67 8%	65 6%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 1%	67 9%	72 5%
	2009	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 3%	68 1%	72 5%
	2010	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 3%	68 1%	72 5%
	2011	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 4%	68 2%	72 5%
	2012	67 8%	65 6%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 4%	68 3%	72 5%
	2013	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 5%	68 3%	72 5%
	2014	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 5%	68 3%	72 5%
	2015	67 8%	67 9%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 6%	68 4%	72 5%
Avg.	1996-2005	69 8%	69 0%	66 1%	63 9%	60 3%	55 7%	64 3%	62 1%	63 1%	70 4%	72 2%	69 7%	73 9%
	2006-2015	67 8%	67 4%	64 7%	63 4%	61 4%	56 0%	65 7%	60 3%	62 1%	68 2%	69 3%	68 1%	72 9%

3442

Sleepy Eye

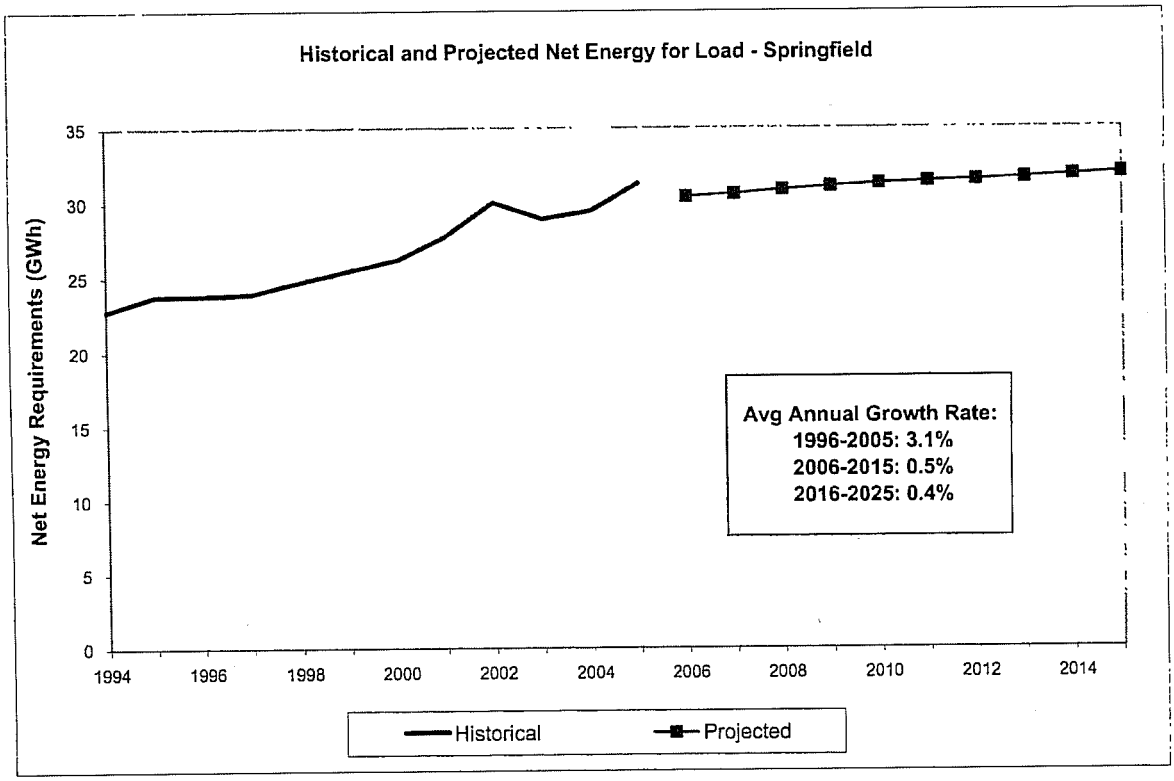
Monthly Coincident-Peak Demand (MW)

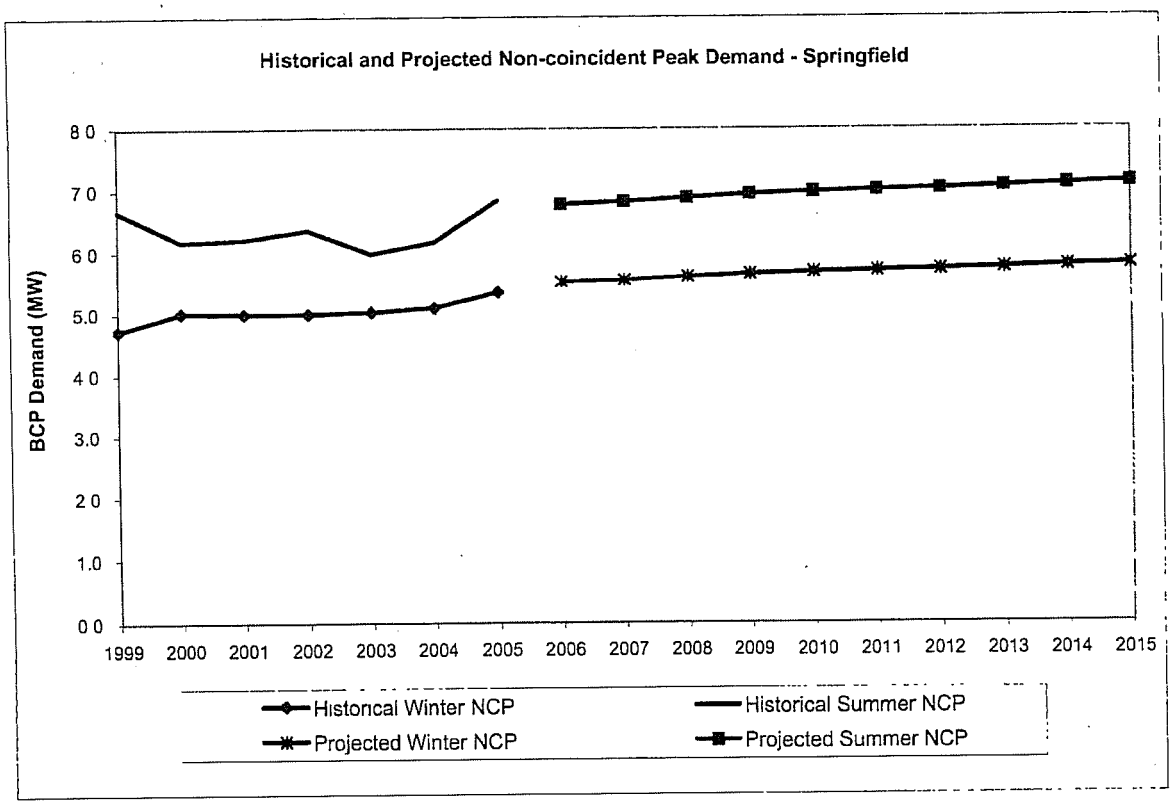
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	66	65	61	63	69	101	104	119	110	79	74	73	66
	2007	67	66	62	64	70	102	105	121	111	80	75	75	67
	2008	68	67	63	65	71	104	107	123	113	81	76	76	68
	2009	69	68	64	66	72	105	108	125	115	82	77	77	69
	2010	70	69	65	66	73	106	110	126	116	83	78	77	70
	2011	70	70	65	67	74	108	111	128	118	84	79	78	70
	2012	71	70	66	68	74	109	112	129	119	85	79	79	71
	2013	72	71	67	69	75	110	113	130	120	86	80	80	72
	2014	73	72	67	69	76	111	114	131	121	86	81	80	73
	2015	73	72	68	70	76	112	115	132	122	87	81	81	73
Projected	2016	74	73	68	70	77	113	116	133	123	88	82	82	74
	2017	74	73	69	71	78	113	117	135	124	89	83	82	74
	2018	75	74	69	71	78	114	118	135	125	89	83	83	75
	2019	75	74	70	72	78	115	119	136	126	90	83	83	75
	2020	76	75	70	72	79	115	119	137	126	90	84	83	76
	2021	76	75	70	72	79	116	120	137	127	90	84	84	76
	2022	76	75	71	73	80	116	120	138	127	91	84	84	76
	2023	77	76	71	73	80	117	121	139	128	91	85	85	77
	2024	77	76	71	73	80	117	121	139	128	92	85	85	77
	2025	77	76	72	74	81	118	122	140	129	92	86	85	77

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	92 1%
	2007	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2008	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2009	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2010	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2011	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2012	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2013	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2014	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2015	94 5%	96 8%	93 8%	94 4%	97 2%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	87 9%
	2006-2015	94 5%	96 8%	93 8%	94 4%	96 8%	98 0%	96 2%	99 8%	97 9%	94 6%	97 0%	96 6%	88 3%

3443


Historical and Projected Net Energy for Load - Springfield
Net Energy Requirements (GWh)
35
30
25
20
15
10
5
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 3.1%
2006-2015: 0.5%
2016-2025: 0.4%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Springfield
BCP Demand (MW)
8 0
7 0
6 0
5.0
4 0
3.0
2 0
1.0
0 0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Springfield

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	23,810	-	24,134	-	1.4%	4.5	-	59.8%	5.9	-	46 0%	#N
	1997	23,921	0 5%	24,219	0.4%	1.2%	4.6	1.0%	59.5%	6.0	1 8%	45 4%	#N
	1998	24,723	3 4%	24,521	1.2%	-0 8%	4.8	3.7%	59.3%	6.3	4 6%	44.8%	#N
	1999	25,478	3 1%	25,241	2.9%	-0 9%	4 7	-0.9%	61.6%	6.7	5 9%	43.6%	#N
	2000	26,187	2 8%	26,169	3.7%	-0 1%	5.0	6.2%	59.6%	6.2	-7 3%	48 4%	#N
	2001	27,723	5 9%	26,876	2.7%	-3 1%	5 0	-0 3%	63.3%	6.2	0.6%	50 9%	#N
	2002	30,012	8 3%	28,832	7 3%	-3 9%	5 0	0 0%	68 5%	6.4	2 4%	53 8%	#N
	2003	28,920	-3 6%	28,204	-2 2%	-2 5%	5 0	0 6%	65 6%	6 0	-6.0%	55.1%	#N
	2004	29,445	1 8%	29,945	6 2%	1.7%	5 1	1 5%	65.8%	6.2	3 1%	54.5%	#N
	2005	31,270	6 2%	29,982	0 1%	-4 1%	5 4	5 0%	66.6%	6.8	10 8%	52.2%	#N
Projected	2006	30,397	-2 8%	30,397	1 4%		5 5	3 2%	62.8%	6 8	-0.9%	51.2%	5.
	2007	30,571	0 6%	30,571	0 6%		5 6	0 6%	62 8%	6 8	0.6%	51.2%	5
	2008	30,840	0 9%	30,840	0 9%		5 6	0 9%	62.8%	6 9	0.9%	51 2%	5.
	2009	31,084	0 8%	31,084	0 8%		5 7	0 8%	62 8%	6 9	0.8%	51.2%	5
	2010	31,261	0 6%	31,261	0.6%		5 7	0.6%	62.8%	7 0	0.6%	51 2%	5.
	2011	31,372	0.4%	31,372	0 4%		5 7	0 4%	62 8%	7.0	0.4%	51.2%	5.
	2012	31,468	0 3%	31,468	0 3%		5.7	0 3%	62 8%	7 0	0.3%	51 2%	5.
	2013	31,626	0 5%	31,626	0 5%		5 8	0.5%	62 8%	7 1	0 5%	51 2%	5
	2014	31,791	0.5%	31,791	0 5%		5.8	0 5%	62 8%	7.1	0 5%	51 2%	5
	2015	31,934	0.4%	31,934	0 4%		5 8	0 4%	62.8%	7 1	0 4%	51 2%	5
	2016	32,056	0.4%	32,056	0.4%		5.8	0.4%	62.8%	7.2	0 4%	51 2%	5
	2017	32,185	0.4%	32,185	0.4%		5 9	0 4%	62.8%	7.2	0 4%	51 2%	5
	2018	32,314	0.4%	32,314	0.4%		5.9	0.4%	62.8%	7.2	0 4%	51 2%	5
	2019	32,463	0.5%	32,463	0 5%		5 9	0 5%	62.8%	7 2	0.5%	51.2%	5
	2020	32,602	0 4%	32,602	0 4%		5.9	0 4%	62 8%	7 3	0.4%	51.2%	5
	2021	32,745	0 4%	32,745	0 4%		6.0	0 4%	62 8%	7 3	0.4%	51.2%	5.
	2022	32,887	0 4%	32,887	0 4%		6 0	0 4%	62 8%	7 3	0.4%	51 2%	5
	2023	33,037	0.5%	33,037	0 5%		6.0	0.5%	62 8%	7.4	0 5%	51 2%	5
	2024	33,184	0.4%	33,184	0 4%		6.0	0 4%	62 8%	7 4	0 4%	51 2%	5.
	2025	33,326	0 4%	33,326	0.4%		6 1	0.4%	62 8%	7 4	0 4%	51 2%	5.
AAGR	Thru 2005		3.1%		2.4%			1 8%	63 0%		1.6%	49.5%	
	2006-2015		0 5%		0 5%			0 5%	62.8%		0 5%	51.2%	
	2016-2025		0 4%		0 4%			0 4%	62 8%		0 4%	51.2%	

Springfield

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2003	2,518	2,198	2,375	2,212	2,249	2,394	2,815	2,817	2,098	2,298	2,326	2,619	28,92
	2004	2,658	2,442	2,459	2,243	2,242	2,387	2,757	2,503	2,471	2,283	2,326	2,675	29,44
	2005	2,630	2,255	2,499	2,326	2,321	2,700	3,112	2,956	2,661	2,525	2,548	2,736	31,27
Projected	2006	2,849	2,341	2,488	2,301	2,311	2,535	2,943	2,806	2,448	2,409	2,441	2,725	30,39
	2007	2,664	2,354	2,503	2,314	2,325	2,550	2,960	2,822	2,462	2,423	2,455	2,740	30,57
	2008	2,688	2,375	2,525	2,334	2,345	2,572	2,986	2,847	2,483	2,444	2,477	2,764	30,84
	2009	2,709	2,394	2,545	2,353	2,364	2,592	3,010	2,870	2,503	2,463	2,496	2,786	31,08
	2010	2,724	2,408	2,559	2,366	2,377	2,607	3,027	2,886	2,517	2,477	2,510	2,802	31,26
	2011	2,734	2,416	2,568	2,375	2,386	2,616	3,038	2,896	2,526	2,486	2,519	2,812	31,37
	2012	2,742	2,423	2,576	2,382	2,393	2,624	3,047	2,905	2,534	2,494	2,527	2,821	31,46
	2013	2,756	2,436	2,589	2,394	2,405	2,638	3,062	2,920	2,547	2,506	2,540	2,835	31,62
	2014	2,771	2,448	2,602	2,406	2,417	2,651	3,078	2,935	2,560	2,519	2,553	2,850	31,79
	2015	2,783	2,459	2,614	2,417	2,428	2,663	3,092	2,948	2,571	2,531	2,565	2,862	31,93
Projected	2016	2,794	2,469	2,624	2,426	2,438	2,673	3,104	2,959	2,581	2,540	2,574	2,873	32,05
	2017	2,805	2,479	2,635	2,436	2,447	2,684	3,116	2,971	2,591	2,551	2,585	2,885	32,18
	2018	2,816	2,489	2,645	2,446	2,457	2,695	3,129	2,983	2,602	2,561	2,595	2,896	32,31
	2019	2,829	2,500	2,657	2,457	2,468	2,707	3,143	2,997	2,614	2,573	2,607	2,910	32,46
	2020	2,841	2,511	2,669	2,468	2,479	2,719	3,157	3,010	2,625	2,584	2,618	2,922	32,60
	2021	2,854	2,522	2,680	2,478	2,490	2,731	3,171	3,023	2,637	2,595	2,630	2,935	32,74
	2022	2,866	2,533	2,692	2,489	2,501	2,743	3,184	3,036	2,648	2,606	2,641	2,948	32,88
	2023	2,879	2,544	2,704	2,500	2,512	2,755	3,199	3,050	2,660	2,618	2,653	2,961	33,03
	2024	2,892	2,556	2,716	2,512	2,523	2,768	3,213	3,063	2,672	2,630	2,665	2,974	33,18
	2025	2,904	2,567	2,728	2,522	2,534	2,779	3,227	3,077	2,683	2,641	2,676	2,987	33,32

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2003	8 7%	7 6%	8 2%	7 6%	7 8%	8 3%	9 7%	9 7%	7 3%	7 9%	8 0%	9 1%	100 0%
	2004	9 0%	8 3%	8 4%	7 6%	7 6%	8 1%	9 4%	8 5%	8 4%	7 8%	7 9%	9 1%	100 0%
	2005	8 4%	7 2%	8 0%	7 4%	7 4%	8 6%	10 0%	9 5%	8 5%	8 1%	8 1%	8 7%	100 0%
Projected	2006	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2007	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2008	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2009	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2010	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2011	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2012	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2013	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2014	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
	2015	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/
	2006-2015	8 7%	7 7%	8 2%	7 6%	7 6%	8 3%	9 7%	9 2%	8 1%	7 9%	8 0%	9 0%	100 0%

Springfield

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2003	49	50	50	47	47	58	58	60	56	47	47	49	50
	2004	51	50	50	46	47	60	62	62	59	46	49	54	51
	2005	51	48	48	47	47	64	68	63	57	50	49	53	54
Projected	2006	55	52	52	52	50	65	68	66	62	50	52	54	55
	2007	56	53	52	52	51	65	68	66	62	50	53	55	56
	2008	56	53	53	52	51	66	69	67	63	51	53	55	56
	2009	57	53	53	53	51	66	69	67	63	51	53	56	57
	2010	57	54	53	53	52	67	70	67	63	51	54	56	57
	2011	57	54	54	53	52	67	70	68	64	52	54	56	57
	2012	57	54	54	53	52	67	70	68	64	52	54	56	57
	2013	58	54	54	54	52	67	71	68	64	52	54	57	58
	2014	58	55	54	54	53	68	71	69	64	52	55	57	58
	2015	58	55	55	54	53	68	71	69	65	53	55	57	58
Projected	2016	58	55	55	54	53	68	72	69	65	53	55	57	58
	2017	59	55	55	55	53	69	72	69	65	53	55	58	59
	2018	59	56	55	55	53	69	72	70	66	53	56	58	59
	2019	59	56	56	55	54	69	72	70	66	53	56	58	59
	2020	59	56	56	55	54	69	73	70	66	54	56	58	59
	2021	60	56	56	56	54	70	73	71	66	54	56	59	60
	2022	60	57	56	56	54	70	73	71	67	54	56	59	60
	2023	60	57	56	56	55	70	74	71	67	54	57	59	60
	2024	60	57	57	56	55	71	74	72	67	55	57	59	60
	2025	61	57	57	57	55	71	74	72	68	55	57	60	61

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001													
	2002													
	2003	69 4%	65 0%	63 8%	64 8%	64 0%	57 4%	64 8%	63 2%	52 4%	65 8%	69 0%	71 5%	65 6%
	2004	70 0%	70 1%	66 6%	67 2%	64 3%	55 3%	60 0%	54 6%	57 8%	66 8%	66 4%	67 1%	65 8%
	2005	68 7%	69 8%	70 3%	69 1%	66 8%	58 9%	61 2%	62 7%	64 6%	67 8%	71 9%	69 3%	66 6%
Projected	2006	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 3%	62 8%
	2007	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 7%	67 1%	62 8%
	2008	64 4%	64 4%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 7%	67 2%	62 8%
	2009	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 3%	62 8%
	2010	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	65 0%	67 4%	62 8%
	2011	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	65 0%	67 5%	62 8%
	2012	64 4%	64 4%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 4%	62 8%
	2013	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 3%	62 8%
	2014	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 4%	62 8%
	2015	64 4%	66 7%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	65 0%	67 4%	62 8%
Avg.	1996-2005	69 3%	68 3%	66 9%	67 1%	65 0%	57 2%	62 0%	60 2%	58 3%	66 8%	69 1%	69 3%	66 0%
	2006-2015	64 4%	66 2%	64 4%	61 9%	61 8%	54 4%	58 3%	57 5%	55 2%	64 8%	64 9%	67 3%	62 8%

Springfield

Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	54	51	50	49	48	62	62	59	60	48	48	50	54
	2007	54	52	51	49	48	62	63	59	60	48	49	50	54
	2008	55	52	51	50	48	63	63	60	61	49	49	51	55
	2009	55	53	52	50	49	63	64	60	61	49	49	51	55
	2010	55	53	52	50	49	63	64	60	62	49	49	51	55
	2011	55	53	52	51	49	64	64	61	62	49	50	51	55
	2012	56	53	52	51	49	64	64	61	62	50	50	52	56
	2013	56	54	52	51	50	64	65	61	62	50	50	52	56
	2014	56	54	53	51	50	65	65	61	63	50	50	52	56
	2015	56	54	53	52	50	65	65	62	63	50	50	52	56
Projected	2016	57	54	53	52	50	65	66	62	63	51	51	53	57
	2017	57	54	53	52	50	65	66	62	64	51	51	53	57
	2018	57	55	54	52	51	66	66	62	64	51	51	53	57
	2019	57	55	54	52	51	66	66	63	64	51	51	53	57
	2020	58	55	54	53	51	66	67	63	64	51	52	53	58
	2021	58	55	54	53	51	67	67	63	65	52	52	54	58
	2022	58	56	55	53	51	67	67	64	65	52	52	54	58
	2023	58	56	55	53	52	67	68	64	65	52	52	54	58
	2024	59	56	55	54	52	67	68	64	66	52	52	54	59
	2025	59	56	55	54	52	68	68	64	66	53	53	55	59

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2007	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2008	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2009	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2010	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2011	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2012	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2013	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2014	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2015	97 3%	98 4%	97 0%	95 0%	94 7%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%
	2006-2015	97 3%	98 4%	97 0%	95 0%	98 4%	95 3%	91 7%	89 5%	97 4%	95 9%	92 1%	91 7%	97 3%

3448

Historical and Projected Net Energy for Load - Willmar
Net Energy Requirements (GWh)
400
350
300
250
200
150
100
50
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 2.6%
2006-2015: 2.0%
2016-2025: 2.0%
Historical
Projected

Historical and Projected Non-coincident Peak Demand - Willmar
BCP Demand (MW)
80.0
70.0
60.0
50 0
40 0
30.0
20 0
10 0
0 0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Willmar

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	235,605	-	231,736	-	-1.6%	39 9	-	67 4%	50 8	-	52 9%	#N/A
	1997	239,082	1 5%	239,694	3.4%	0.3%	38 7	-3.0%	70 5%	51 4	1 2%	53 1%	#N/A
	1998	250,318	4.7%	261,241	9 0%	4.4%	39.2	1 3%	72.9%	54 1	5 3%	52 8%	#N/A
	1999	258,923	3 4%	267,440	2 4%	3.3%	40.9	4.3%	72 3%	57.2	5 7%	51 7%	#N/A
	2000	260,979	0.8%	265,254	-0.8%	1.6%	42 8	4 6%	69 6%	53 0	-7 3%	56 2%	#N/A
	2001	262,782	0.7%	265,680	0.2%	1.1%	41 0	-4.2%	73.2%	57.4	8.3%	52 3%	#N/A
	2002	270,242	2 8%	269,263	1 3%	-0.4%	39 3	-4 1%	78 5%	54 7	-4.7%	56 4%	#N/A
	2003	273,645	1.3%	273,781	1.7%	0 0%	41 6	5 9%	75.1%	55 8	2 0%	56 0%	#N/A
	2004	277,749	1.5%	286,058	4 5%	3.0%	42 8	2 9%	74 1%	55 9	0 2%	56 7%	#N/A
	2005	297,981	7 3%	301,215	5 3%	1.1%	44 4	3 7%	76.6%	57.4	2.7%	59.3%	#N/A
Projected	2006	296,090	-0 6%	296,090	-1 7%		46.2	4 0%	73 2%	60.3	5.0%	56.1%	46 2
	2007	302,782	2.3%	302,782	2.3%		47 2	2 3%	73 2%	61 6	2.3%	56 1%	47 2
	2008	309,881	2 3%	309,881	2.3%		48 3	2 3%	73 2%	63.1	2.3%	56 1%	48 3
	2009	315,712	1 9%	315,712	1.9%		49.2	1 9%	73 2%	64 3	1.9%	56 1%	49 2
	2010	321,518	1 8%	321,518	1 8%		50 1	1 8%	73 2%	65 4	1.8%	56 1%	50 1
	2011	327,244	1 8%	327,244	1.8%		51 0	1 8%	73 2%	66 6	1.8%	56 1%	51 0
	2012	333,295	1 8%	333,295	1.8%		52.0	1.8%	73.2%	67.8	1 8%	56.1%	52.0
	2013	339,699	1 9%	339,699	1.9%		53.0	1 9%	73 2%	69 1	1.9%	56.1%	53 0
	2014	347,051	2.2%	347,051	2 2%		54 1	2 2%	73 2%	70.6	2.2%	56.1%	54 1
	2015	354,188	2 1%	354,188	2 1%		55 2	2 1%	73 2%	72.1	2 1%	56.1%	55.2
	2016	361,408	2 0%	361,408	2 0%		56 3	2 0%	73 2%	73 6	2 0%	56 1%	56.3
	2017	368,630	2 0%	368,630	2 0%		57 5	2 0%	73 2%	75 0	2 0%	56 1%	57 5
	2018	376,151	2.0%	376,151	2 0%		58 6	2 0%	73 2%	76 6	2.0%	56 1%	58 6
	2019	383,647	2.0%	383,647	2 0%		59 8	2.0%	73 2%	78 1	2 0%	56 1%	59 8
	2020	391,362	2.0%	391,362	2 0%		61 0	2 0%	73 2%	79 7	2 0%	56 1%	61 0
	2021	399,322	2 0%	399,322	2.0%		62.2	2.0%	73.2%	81.3	2.0%	56 1%	62.2
	2022	407,473	2 0%	407,473	2 0%		63 5	2.0%	73.2%	82 9	2.0%	56 1%	63.5
	2023	415,789	2 0%	415,789	2 0%		64 8	2 0%	73 2%	84 6	2 0%	56 1%	64.8
	2024	424,242	2 0%	424,242	2 0%		66 1	2.0%	73 2%	86 3	2 0%	56.1%	66 1
	2025	432,779	2 0%	432,779	2 0%		67 5	2 0%	73 2%	88 1	2.0%	56 1%	67.5
AAGR	Thru 2005		2 6%		3 0%			1 2%	73 0%		1 4%	54 7%	
	2006-2015		2 0%		2 0%			2 0%	73.2%		2 0%	56 1%	
	2016-2025		2.0%		2 0%			2 0%	73.2%		2 0%	56 1%	

34/50

Willmar

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY To
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2001	22,528	20,643	21,364	19,881	20,725	22,059	26,023	26,252	20,390	20,815	20,056	22,044	262
	2002	22,551	19,716	21,600	20,400	20,385	23,320	27,905	24,499	22,750	21,797	21,978	23,341	270
	2003	23,712	21,449	22,068	20,320	20,531	22,750	26,591	26,903	21,911	21,926	21,678	23,807	273
	2004	24,206	22,545	22,741	20,522	20,786	22,568	26,070	24,182	24,076	22,708	22,598	24,747	277
	2005	25,585	21,931	23,880	21,799	22,542	26,671	29,039	27,850	24,910	23,610	23,873	26,291	297
Projected	2006	25,395	22,779	23,917	22,055	22,492	25,116	29,063	27,797	24,405	23,745	23,589	25,735	296
	2007	25,969	23,294	24,458	22 554	23,000	25,684	29,720	28,425	24,957	24,282	24,122	26,317	302
	2008	26,578	23,840	25,031	23,083	23,540	26,286	30,417	29,091	25,542	24,851	24,688	26,934	309
	2009	27,078	24,289	25,502	23,517	23,983	26,781	30,989	29,639	26,023	25,319	25,153	27,441	315
	2010	27,576	24,735	25,971	23,949	24,424	27,273	31,559	30,184	26,501	25,785	25,616	27,945	321
	2011	28,067	25,176	26,434	24,376	24,859	27,759	32,121	30,721	26,973	26,244	26,071	28,443	327
	2012	28,586	25,641	26,923	24,827	25,318	28,272	32,715	31,289	27,472	26,729	26,553	28,969	333
	2013	29,135	26,134	27,440	25,304	25,805	28,815	33,343	31,891	28,000	27,243	27,064	29,526	339
	2014	29,766	26,700	28,034	25,851	26,363	29,439	34,065	32,581	28,606	27,832	27,649	30,165	347
	2015	30,378	27,249	28,610	26,383	26,905	30,044	34,766	33,251	29,194	28,405	28,218	30,785	354
Projected	2016	30,997	27,804	29,194	26,921	27,454	30,657	35,474	33,929	29,789	28,984	28,793	31,412	361
	2017	31,617	28,360	29,777	27,459	28,003	31,269	36,183	34,607	30,384	29,563	29,368	32,040	368
	2018	32,262	28,938	30,385	28,019	28,574	31,907	36,921	35,313	31,004	30,166	29,966	32,694	376
	2019	32,905	29,515	30,990	28,577	29,143	32,543	37,657	36,016	31,622	30,767	30,565	33,345	383
	2020	33,567	30,109	31,613	29,152	29,729	33,198	38,414	36,741	32,258	31,386	31,179	34,016	391
	2021	34,249	30,721	32,256	29,745	30,334	33,873	39,196	37,488	32,914	32,024	31,814	34,708	399
	2022	34,948	31,348	32,915	30,352	30,953	34,564	39,996	38,253	33,586	32,678	32,463	35,416	407
	2023	35,662	31,988	33,586	30,972	31,585	35,270	40,812	39,034	34,271	33,345	33,126	36,139	415
	2024	36,387	32,638	34,269	31,601	32,227	35,987	41,642	39,827	34,968	34,023	33,799	36,874	424
	2025	37,119	33,295	34,959	32,237	32,876	36,711	42,480	40,629	35,672	34,707	34,479	37,616	432

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2001	8 6%	7 9%	8 1%	7 6%	7 9%	8 4%	9 9%	10 0%	7 8%	7 9%	7 6%	8 4%	100
	2002	8 3%	7 3%	8 0%	7 5%	7 5%	8 6%	10 3%	9 1%	8 4%	8 1%	8 1%	8 6%	100
	2003	8 7%	7 8%	8 1%	7 4%	7 5%	8 3%	9 7%	9 8%	8 0%	8 0%	7 9%	8 7%	100
	2004	8 7%	8 1%	8 2%	7 4%	7 5%	8 1%	9 4%	8 7%	8 7%	8 2%	8 1%	8 9%	100
	2005	8 6%	7 4%	8 0%	7 3%	7 6%	9 0%	9 7%	9 3%	8 4%	7 9%	8 0%	8 8%	100
Projected	2006	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2007	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2008	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2009	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2010	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2011	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2012	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2013	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2014	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
	2015	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#
	2006-2015	8 6%	7 7%	8 1%	7 4%	7 6%	8 5%	9 8%	9 4%	8 2%	8 0%	8 0%	8 7%	100

3451

Willmar

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	40 7	41 2	37 9	38 6	46 6	54 6	57 0	57 4	49 1	39 1	38 4	38 6	#N/A
	2002	39 3	38 6	38 3	40 7	43 7	52 1	54 7	51 0	51 9	38 0	39 6	40 5	39 3
	2003	41 1	41 6	40 8	40 5	39 2	49 6	52 9	55 8	49 2	41 2	40 2	42 4	41 6
	2004	42 8	41 7	39 5	40 2	40 3	52 0	55 9	52 3	53 3	41 2	40 2	44 1	42 8
	2005	44 4	42 7	40 1	40 5	39 8	57 4	56 6	57 1	49 0	42 8	42 7	45 6	44 4
Projected	2006	46 2	45 6	43 3	42 0	43 1	56 8	60 3	58 4	53 7	46 2	44 8	46 0	46 2
	2007	47 2	46 7	44 3	42 9	44 1	58 1	61 6	59 7	54 9	47 2	45 8	47 1	47 2
	2008	48 3	47 7	45 3	43 9	45 1	59 4	63 1	61 1	56 2	48 3	46 7	48 0	48 3
	2009	49 2	48 6	46 2	44 8	46 0	60 5	64 3	62 2	57 2	49 2	47 6	48 9	49 2
	2010	50 1	49 5	47 0	45 6	46 8	61 7	65 4	63 4	58 3	50 1	48 4	49 7	50 1
	2011	51 0	50 4	47 9	46 4	47 7	62 7	66 6	64 5	59 3	51 0	49 3	50 6	51 0
	2012	52 0	51 4	48 7	47 2	48 5	63 9	67 8	65 7	60 4	52 0	50 2	51 6	52 0
	2013	53 0	52 3	49 7	48 2	49 5	65 1	69 1	67 0	61 6	53 0	51 3	52 7	53 0
	2014	54 1	53 5	50 8	49 2	50 5	66 5	70 6	68 4	62 9	54 1	52 4	53 8	54 1
	2015	55 2	54 6	51 8	50 2	51 6	67 9	72 1	69 8	64 2	55 2	53 5	54 9	55 2
Projected	2016	56 3	55 7	52 9	51 2	52 6	69 3	73 6	71 2	65 5	56 4	54 5	56 0	56 3
	2017	57 5	56 8	53 9	52 3	53 7	70 7	75 0	72 7	66 8	57 5	55 6	57 2	57 5
	2018	58 6	58 0	55 0	53 3	54 8	72 1	76 6	74 1	68 2	58 7	56 7	58 3	58 6
	2019	59 8	59 1	56 1	54 4	55 9	73 6	78 1	75 6	69 5	59 8	57 9	59 5	59 8
	2020	61 0	60 3	57 2	55 5	57 0	75 0	79 7	77 1	70 9	61 0	59 1	60 7	61 0
	2021	62 2	61 5	58 4	56 6	58 2	76 6	81 3	78 7	72 4	62 3	60 3	61 9	62 2
	2022	63 5	62 8	59 6	57 8	59 3	78 1	82 9	80 3	73 9	63 6	61 5	63 2	63 5
	2023	64 8	64 1	60 8	58 9	60 6	79 7	84 6	81 9	75 4	64 9	62 7	64 5	64 8
	2024	66 1	65 4	62 0	60 1	61 8	81 3	86 3	83 6	76 9	66 2	64 0	65 8	66 1
	2025	67 5	66 7	63 3	61 3	63 0	83 0	88 1	85 3	78 5	67 5	65 3	67 1	67 5

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001	74 4%	74 6%	75 8%	71 5%	59 8%	56 1%	61 4%	61 5%	57 7%	71 6%	72 5%	76 8%	
	2002	77 1%	76 0%	75 8%	69 6%	62 7%	62 2%	68 6%	64 6%	60 9%	77 1%	77 1%	77 5%	78 5%
	2003	77 5%	76 7%	72 7%	69 7%	70 4%	63 7%	67 6%	64 8%	61 9%	71 5%	74 9%	75 5%	75 1%
	2004	76 0%	77 7%	77 4%	70 9%	69 3%	60 3%	62 7%	62 1%	62 7%	74 1%	78 1%	75 4%	74 1%
	2005	77 5%	76 4%	80 0%	74 8%	76 1%	64 5%	69 0%	65 6%	70 6%	74 1%	77 7%	77 5%	76 6%
Projected	2006	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 2%	75 2%	73 2%
	2007	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 1%	75 1%	73 2%
	2008	74 0%	71 7%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 4%	75 5%	73 2%
	2009	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 5%	75 5%	73 2%
	2010	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 5%	75 5%	73 2%
	2011	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 5%	75 5%	73 2%
	2012	74 0%	71 7%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 4%	75 4%	73 2%
	2013	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 2%	75 3%	73 2%
	2014	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 3%	75 3%	73 2%
	2015	74 0%	74 3%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 3%	75 4%	73 2%
Avg	1996-2005	76 5%	76 3%	76 3%	71 3%	67 7%	61 4%	65 8%	63 7%	62 8%	73 7%	76 0%	76 5%	76 1%
	2006-2015	74 0%	73 8%	74 2%	73 0%	70 1%	61 4%	64 8%	64 0%	63 2%	69 1%	73 3%	75 4%	73 2%

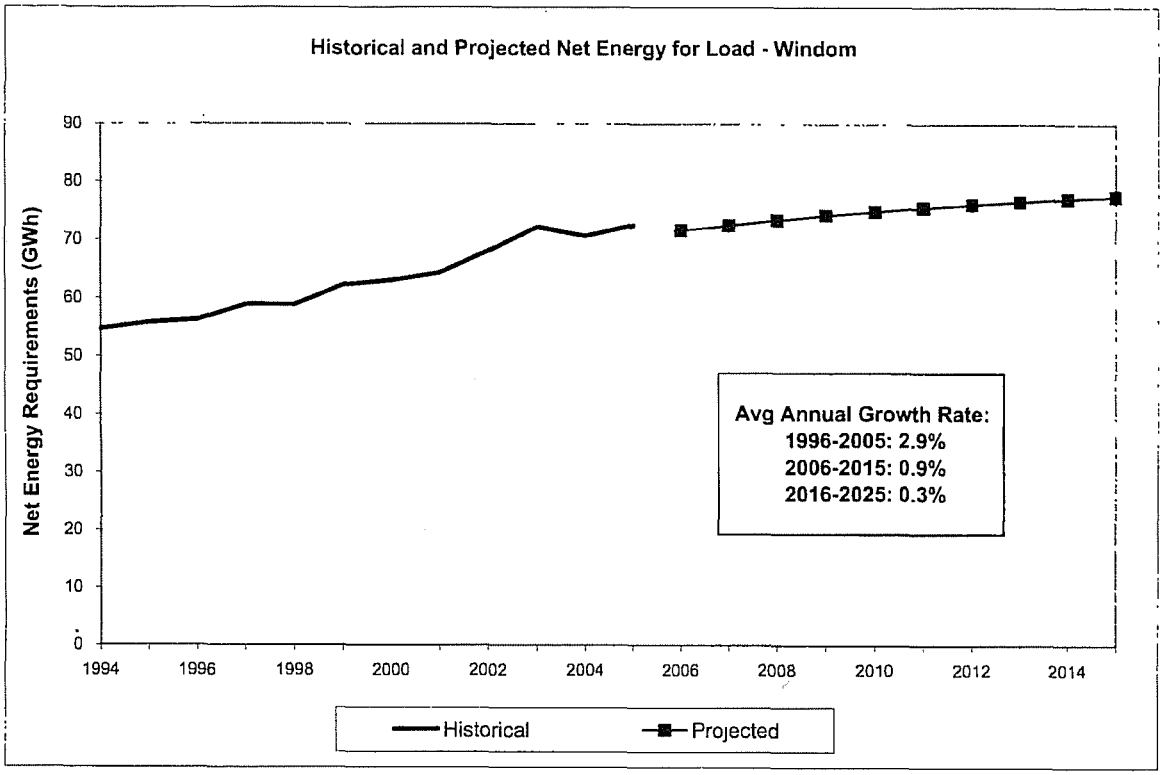
Willmar

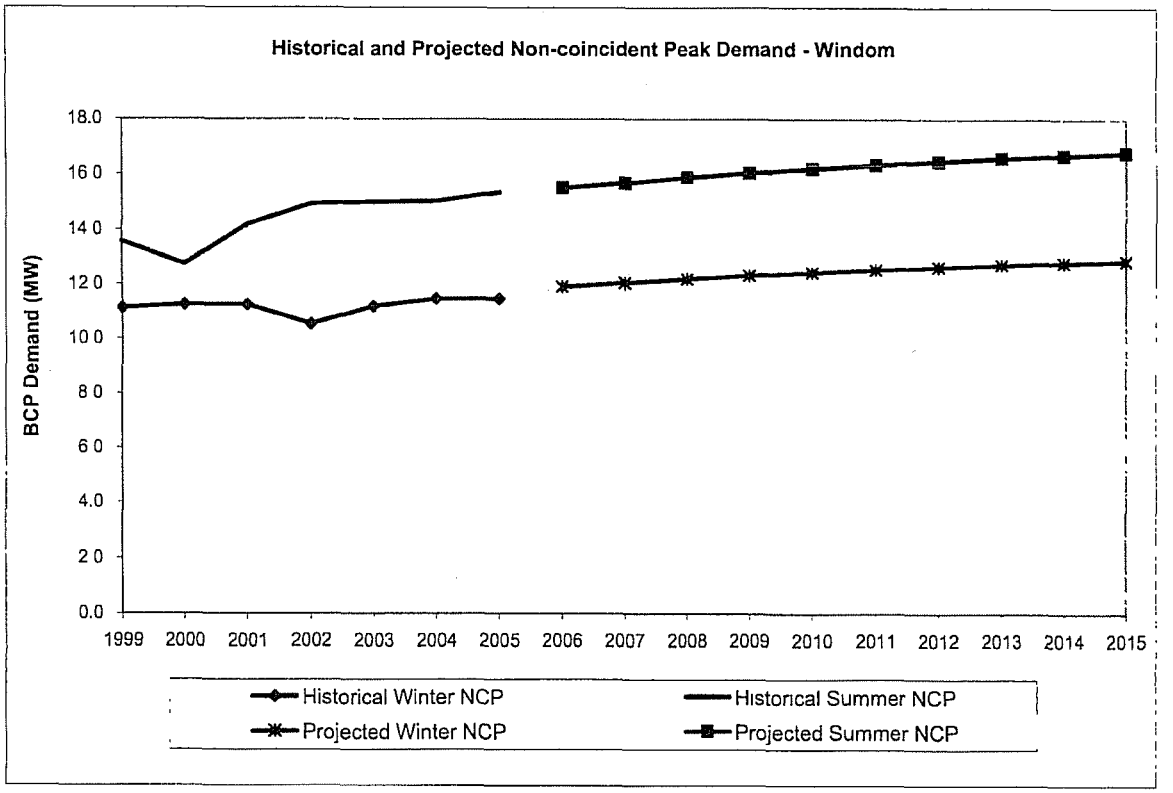
Monthly Coincident-Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	46 2	45 6	43 3	41 6	43 1	56 4	59 5	56 7	53 1	46 2	44 5	46 0	46 2
	2007	47 2	46 7	44 3	42 5	44 1	57 7	60 9	58 0	54 3	47 2	45 5	47 1	47 2
	2008	48 3	47 7	45 3	43 5	45 1	59 0	62 3	59 4	55 6	48 3	46 4	48 0	48 3
	2009	49 2	48 6	46 2	44 3	46 0	60 1	63 5	60 5	56 7	49 2	47 2	48 9	49 2
	2010	50 1	49 5	47 0	45 1	46 8	61 2	64 6	61 6	57 7	50 1	48 1	49 7	50 1
	2011	51 0	50 4	47 9	45 9	47 7	62 3	65 8	62 7	58 7	51 0	49 0	50 6	51 0
	2012	52 0	51 4	48 7	46 8	48 5	63 5	67 0	63 9	59 8	52 0	49 9	51 6	52 0
	2013	53 0	52 3	49 7	47 7	49 5	64 7	68 3	65 1	61 0	53 0	51 0	52 7	53 0
	2014	54 1	53 5	50 8	48 7	50 5	66 1	69 8	66 5	62 3	54 1	52 0	53 8	54 1
	2015	55 2	54 6	51 8	49 7	51 6	67 5	71 2	67 9	63 6	55 2	53 1	54 9	55 2
Projected	2016	56 3	55 7	52 9	50 7	52 6	68 8	72 7	69 3	64 9	56 4	54 1	56 0	56 3
	2017	57 5	56 8	53 9	51 7	53 7	70 2	74 1	70 7	66 2	57 5	55 2	57 2	57 5
	2018	58 6	58 0	55 0	52 8	54 8	71 6	75 6	72 1	67 5	58 7	56 4	58 3	58 6
	2019	59 8	59 1	56 1	53 9	55 9	73 1	77 1	73 5	68 9	59 8	57 5	59 5	59 8
	2020	61 0	60 3	57 2	54 9	57 0	74 5	78 7	75 0	70 2	61 0	58 7	60 7	61 0
	2021	62 2	61 5	58 4	56 1	58 2	76 0	80 3	76 5	71 7	62 3	59 9	61 9	62 2
	2022	63 5	62 8	59 6	57 2	59 3	77 6	81 9	78 1	73 1	63 6	61 1	63 2	63 5
	2023	64 8	64 1	60 8	58 4	60 6	79 2	83 6	79 7	74 6	64 9	62 3	64 5	64 8
	2024	66 1	65 4	62 0	59 6	61 8	80 8	85 3	81 3	76 1	66 2	63 6	65 8	66 1
	2025	67 5	66 7	63 3	60 7	63 0	82 4	87 0	82 9	77 7	67 5	64 8	67 1	67 5

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Projected	2006	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2007	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2008	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2009	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2010	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2011	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2012	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2013	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2014	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
	2015	100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%
2006-2015		100 0%	100 0%	100 0%	99 0%	100 0%	99 3%	98 8%	97 2%	99 0%	100 0%	99 3%	100 0%	100 0%


Historical and Projected Net Energy for Load - Windom
Net Energy Requirements (GWh)
90
80
70
60
50
40
30
20
10
0
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
Avg Annual Growth Rate:
1996-2005: 2.9%
2006-2015: 0.9%
2016-2025: 0.3%
Historical
Projected


Historical and Projected Non-coincident Peak Demand - Windom
BCP Demand (MW)
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Historical Winter NCP
Historical Summer NCP
Projected Winter NCP
Projected Summer NCP

Windom

Historical and Projected Net Energy Requirements and Peak Demand

		Net Energy Requirements (CY)					Non-Coincident Peak Demand						C
	Year	Actual (MWh)	Percent Change	Normalized (MWh)	Percent Change	Percent Diff.	Winter (MW)	Percent Change	Load Factor	Summer (MW)	Percent Change	Load Factor	Winter (MW)
Historical	1996	56,281	-	56,702	-	0.7%	10 3	-	62 3%	12 4	-	51.7%	#N
	1997	58,846	4 6%	59,249	4.5%	0 7%	9.6	-7 1%	70 2%	14.0	12 3%	48.1%	#N
	1998	58,775	-0.1%	58,509	-1.2%	-0 5%	10.3	7.7%	65 1%	12.6	-9.4%	53 1%	#N
	1999	62,233	5.9%	61,914	5 8%	-0 5%	11 1	7 9%	63.8%	13.6	7 3%	52.3%	#N
	2000	63,061	1 3%	63,037	1.8%	0.0%	11 3	1 1%	64.0%	12 8	-6.0%	56.4%	#N
	2001	64,334	2.0%	63,242	0 3%	-1 7%	11 3	0 0%	65.3%	14 2	11.2%	51.8%	#N
	2002	68,102	5 9%	66,613	5 3%	-2 2%	10 5	-6 3%	73.7%	14 9	5 2%	52.1%	#N
	2003	72,214	6 0%	71,223	6 9%	-1 4%	11 2	6.0%	73.7%	15 0	0.5%	55 0%	#N
	2004	70,730	-2 1%	71,390	0 2%	0.9%	11 5	2 5%	70.4%	15 0	0 2%	53.7%	#N
	2005	72,488	2 5%	70,827	-0 8%	-2 3%	11 5	0 0%	72.2%	15 4	2 1%	53 9%	#N
Projected	2006	71,674	-1 1%	71,674	1 2%		11 9	3 9%	68 7%	15 5	1 0%	52 8%	11
	2007	72,486	1 1%	72,486	1 1%		12 1	1 1%	68 7%	15 7	1 1%	52 8%	11
	2008	73,398	1.3%	73,398	1 3%		12 2	1.3%	68 7%	15 9	1 3%	52 8%	11
	2009	74,222	1.1%	74,222	1 1%		12.3	1 1%	68 7%	16.1	1 1%	52 8%	11.
	2010	74,910	0.9%	74,910	0.9%		12.5	0 9%	68 7%	16 2	0 9%	52 8%	11
	2011	75,564	0.9%	75,564	0 9%		12.6	0.9%	68 7%	16.4	0 9%	52 8%	12.
	2012	76,157	0 8%	76,157	0 8%		12.7	0.8%	68 7%	16.5	0.8%	52 8%	12.
	2013	76,677	0 7%	76,677	0.7%		12 7	0 7%	68 7%	16 6	0 7%	52.8%	12
	2014	77,144	0 6%	77,144	0 6%		12 8	0 6%	68 7%	16 7	0 6%	52 8%	12
	2015	77,565	0 5%	77,565	0 5%		12.9	0 5%	68.7%	16.8	0 5%	52 8%	12
	2016	77,945	0.5%	77,945	0 5%		13 0	0 5%	68.7%	16.9	0 5%	52 8%	12.
	2017	78,338	0.5%	78,338	0 5%		13 0	0 5%	68.7%	17 0	0.5%	52 8%	12
	2018	78,669	0.4%	78,669	0 4%		13 1	0 4%	68 7%	17 0	0 4%	52.8%	12.
	2019	78,915	0.3%	78,915	0 3%		13.1	0 3%	68 7%	17 1	0.3%	52 8%	12.
	2020	79,131	0 3%	79,131	0 3%		13 2	0.3%	68 7%	17 1	0 3%	52 8%	12.
	2021	79,310	0 2%	79,310	0 2%		13 2	0.2%	68 7%	17 2	0 2%	52 8%	12.
	2022	79,506	0.2%	79,506	0 2%		13 2	0 2%	68.7%	17 2	0 2%	52 8%	12.
	2023	79,715	0.3%	79,715	0.3%		13 3	0.3%	68 7%	17.2	0 3%	52.8%	12
	2024	79,884	0 2%	79,884	0 2%		13 3	0 2%	68.7%	17 3	0 2%	52.8%	12
	2025	80,048	0 2%	80,048	0 2%		13 3	0.2%	68 7%	17 3	0.2%	52 8%	12
AAGR	Thru 2005		2 9%		2 5%			1 2%	68 1%		2.4%	52.8%	
	2006-2015		0.9%		0 9%			0 9%	68 7%		0 9%	52 8%	
	2016-2025		0 3%		0.3%			0.3%	68 7%		0 3%	52 8%	

N \013508 CMMPA\037268\CMMPA Summary_Fcst06_NCP Pres xls

Windom

Monthly Net Energy Requirements (MWh)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	5,661	5,169	5,440	4,977	5,067	5,183	6,376	6,045	4,884	5,237	4,938	5,358	64,334
	2002	5,682	4,958	5,404	5,026	5,085	5,935	7,195	6,184	5,551	5,697	5,612	5,774	68,102
	2003	6,158	5,647	6,038	5,487	5,652	5,976	6,932	7,026	5,718	5,805	5,608	6,167	72,214
	2004	6,200	5,704	5,887	5,337	5,619	5,995	6,598	5,981	6,119	5,731	5,605	5,952	70,730
	2005	6,250	5,507	5,958	5,500	5,607	6,688	7,127	6,353	6,049	5,762	5,626	6,062	72,488
Projected	2006	6,172	5,561	5,920	5,425	5,569	6,128	7,058	6,512	5,828	5,819	5,643	6,036	71,674
	2007	6,242	5,624	5,987	5,487	5,632	6,197	7,138	6,586	5,894	5,885	5,707	6,107	72,486
	2008	6,321	5,695	6,062	5,556	5,703	6,275	7,228	6,669	5,968	5,959	5,779	6,184	73,398
	2009	6,392	5,759	6,130	5,618	5,767	6,346	7,309	6,743	6,035	6,026	5,844	6,253	74,222
	2010	6,451	5,812	6,187	5,670	5,820	6,404	7,376	6,806	6,091	6,082	5,898	6,311	74,910
	2011	6,507	5,863	6,241	5,720	5,871	6,460	7,441	6,865	6,144	6,135	5,949	6,366	75,564
	2012	6,558	5,909	6,290	5,765	5,917	6,511	7,499	6,919	6,192	6,183	5,996	6,416	76,157
	2013	6,603	5,950	6,333	5,804	5,957	6,556	7,551	6,966	6,235	6,226	6,037	6,460	76,677
	2014	6,643	5,986	6,372	5,839	5,994	6,595	7,596	7,009	6,273	6,263	6,074	6,499	77,144
	2015	6,680	6,019	6,408	5,871	6,026	6,631	7,638	7,047	6,307	6,298	6,107	6,535	77,565
Projected	2016	6,712	6,048	6,438	5,900	6,056	6,664	7,675	7,082	6,338	6,328	6,137	6,567	77,945
	2017	6,746	6,079	6,470	5,930	6,086	6,698	7,714	7,117	6,370	6,360	6,168	6,600	78,338
	2018	6,775	6,104	6,498	5,955	6,112	6,726	7,747	7,147	6,397	6,387	6,194	6,628	78,669
	2019	6,796	6,123	6,518	5,973	6,131	6,747	7,771	7,170	6,417	6,407	6,213	6,649	78,915
	2020	6,815	6,140	6,536	5,990	6,148	6,765	7,792	7,189	6,434	6,425	6,230	6,667	79,131
	2021	6,830	6,154	6,550	6,003	6,162	6,781	7,810	7,206	6,449	6,439	6,244	6,682	79,310
	2022	6,847	6,169	6,567	6,018	6,177	6,797	7,829	7,223	6,465	6,455	6,260	6,698	79,506
	2023	6,865	6,185	6,584	6,034	6,193	6,815	7,850	7,242	6,482	6,472	6,276	6,716	79,715
	2024	6,879	6,198	6,598	6,047	6,207	6,830	7,866	7,258	6,495	6,486	6,290	6,730	79,884
	2025	6,893	6,211	6,611	6,059	6,219	6,844	7,882	7,273	6,509	6,499	6,302	6,744	80,048

Monthly Energy Allocation Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	8 8%	8 0%	8 5%	7 7%	7 9%	8 1%	9 9%	9 4%	7 6%	8 1%	7 7%	8 3%	100 0%
	2002	8 3%	7 3%	7 9%	7 4%	7 5%	8 7%	10 6%	9 1%	8 2%	8 4%	8 2%	8 5%	100 0%
	2003	8 5%	7 8%	8 4%	7 6%	7 8%	8 3%	9 6%	9 7%	7 9%	8 0%	7 8%	8 5%	100 0%
	2004	8 8%	8 1%	8 3%	7 5%	7 9%	8 5%	9 3%	8 5%	8 7%	8 1%	7 9%	8 4%	100 0%
	2005	8 6%	7 6%	8 2%	7 6%	7 7%	9 2%	9 8%	8 8%	8 3%	7 9%	7 8%	8 4%	100 0%
Projected	2006	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2007	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2008	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2009	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2010	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2011	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2012	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2013	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2014	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
	2015	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%
Avg.	1996-2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2006-2015	8 6%	7 8%	8 3%	7 6%	7 8%	8 5%	9 8%	9 1%	8 1%	8 1%	7 9%	8 4%	100 0%

Windom

Monthly Non-Coincident Peak Demand (MW)

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1997	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1998	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	1999	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2000	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	2001	10 7	10 4	10 0	9 9	11 2	12 2	14 2	14 2	11 9	10 4	10 1	10 2	#N/A
	2002	10 5	10 2	10 1	10 0	11 9	13 9	14 9	12 3	13 0	10 6	10 7	11 0	10 5
	2003	11 1	11 2	11 0	10 7	11 0	14 0	14 3	15 0	12 3	11 2	11 0	11 2	11 2
	2004	11 5	10 8	10 7	10 7	11 3	14 1	15 0	13 8	14 3	10 8	10 8	11 5	11 5
	2005	11 2	10 7	10 6	10 8	10 7	15 4	14 8	14 9	13 6	12 3	11 0	11 4	11 5
Projected	2006	11 9	11 5	11 3	10 9	12 1	14 9	15 5	14 2	13 3	11 1	11 5	11 8	11 9
	2007	12 1	11 6	11 4	11 0	12 2	15 1	15 7	14 3	13 4	11 3	11 7	12 0	12 1
	2008	12 2	11 8	11 5	11 1	12 4	15 3	15 9	14 5	13 6	11 4	11 8	12 1	12 2
	2009	12 3	11 9	11 7	11 2	12 5	15 5	16 1	14 7	13 8	11 5	11 9	12 2	12 3
	2010	12 5	12 0	11 8	11 3	12 6	15 6	16 2	14 8	13 9	11 6	12 0	12 3	12 5
	2011	12 6	12 1	11 9	11 4	12 7	15 7	16 4	14 9	14 0	11 7	12 1	12 4	12 6
	2012	12 7	12 2	12 0	11 5	12 8	15 9	16 5	15 0	14 1	11 8	12 2	12 5	12 7
	2013	12 7	12 3	12 0	11 6	12 9	16 0	16 6	15 1	14 2	11 9	12 2	12 6	12 7
	2014	12 8	12 4	12 1	11 7	13 0	16 1	16 7	15 2	14 3	12 0	12 3	12 6	12 8
	2015	12 9	12 4	12 2	11 7	13 1	16 2	16 8	15 3	14 4	12 0	12 4	12 7	12 9
Projected	2016	13 0	12 5	12 2	11 8	13 1	16 2	16 9	15 4	14 5	12 1	12 4	12 8	13 0
	2017	13 0	12 5	12 3	11 9	13 2	16 3	17 0	15 5	14 5	12 2	12 5	12 8	13 0
	2018	13 1	12 6	12 3	11 9	13 2	16 4	17 0	15 5	14 6	12 2	12 5	12 9	13 1
	2019	13 1	12 6	12 4	11 9	13 3	16 4	17 1	15 6	14 6	12 3	12 6	12 9	13 1
	2020	13 2	12 7	12 4	12 0	13 3	16 5	17 1	15 6	14 7	12 3	12 6	12 9	13 2
	2021	13 2	12 7	12 4	12 0	13 4	16 5	17 2	15 7	14 7	12 3	12 6	13 0	13 2
	2022	13 2	12 7	12 5	12 0	13 4	16 6	17 2	15 7	14 7	12 4	12 7	13 0	13 2
	2023	13 3	12 8	12 5	12 1	13 4	16 6	17 2	15 7	14 8	12 4	12 7	13 0	13 3
	2024	13 3	12 8	12 5	12 1	13 5	16 6	17 3	15 8	14 8	12 4	12 7	13 0	13 3
	2025	13 3	12 8	12 6	12 1	13 5	16 7	17 3	15 8	14 8	12 4	12 7	13 1	13 3

Monthly Load Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk
Historical	1996													
	1997													
	1998													
	1999													
	2000													
	2001	70 9%	73 8%	72 9%	69 5%	60 9%	58 9%	60 4%	57 3%	56 9%	67 9%	67 7%	70 3%	
	2002	72 4%	72 7%	72 0%	69 5%	57 2%	59 1%	64 8%	67 8%	59 5%	72 5%	72 7%	70 8%	73 7%
	2003	74 8%	75 2%	74 0%	71 2%	68 9%	59 1%	65 2%	63 0%	64 5%	69 5%	70 5%	73 9%	73 7%
	2004	72 7%	75 6%	74 1%	69 3%	66 8%	59 1%	59 0%	58 2%	59 3%	71 6%	71 9%	69 8%	70 4%
	2005	74 7%	76 8%	75 2%	70 9%	70 2%	60 5%	64 9%	67 2%	61 9%	62 9%	70 8%	71 5%	72 2%
Projected	2006	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 1%	68 7%	68 7%
	2007	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 0%	68 6%	68 7%
	2008	69 6%	69 6%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 1%	68 7%	68 7%
	2009	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 3%	68 8%	68 7%
	2010	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 3%	68 9%	68 7%
	2011	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 4%	68 9%	68 7%
	2012	69 6%	69 6%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 4%	69 0%	68 7%
	2013	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 5%	69 0%	68 7%
	2014	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 5%	69 1%	68 7%
	2015	69 6%	72 1%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 6%	69 1%	68 7%
Avg	1996-2005	73 1%	74 8%	73 6%	70 1%	64 8%	59 3%	62 9%	60 7%	60 4%	68 9%	70 7%	71 3%	72 5%
	2006-2015	69 6%	71 6%	70 7%	69 4%	62 0%	57 0%	61 2%	61 8%	60 9%	70 2%	68 3%	68 9%	68 7%

3457

Windom

Monthly Coincident-Peak Demand (MW)

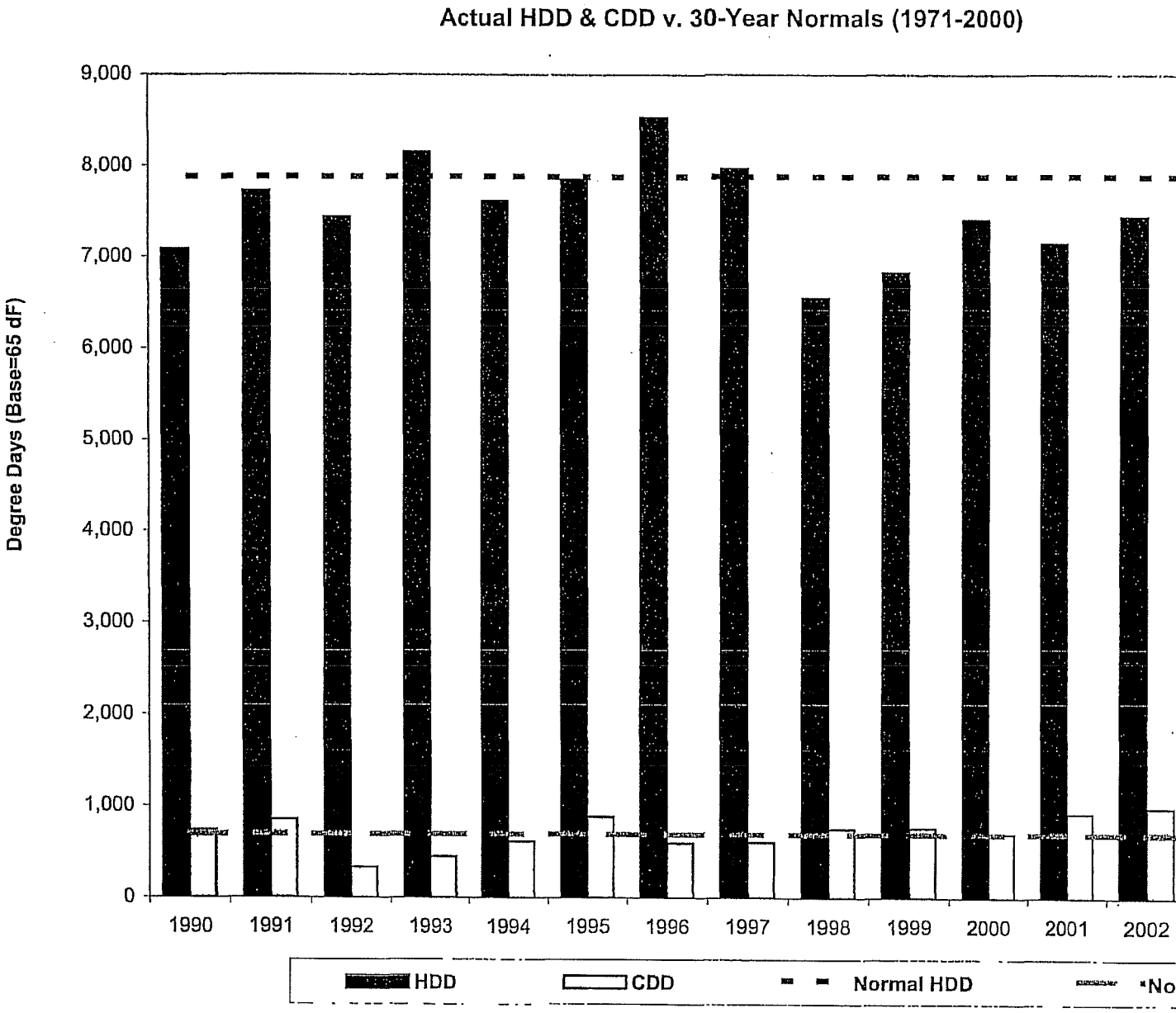
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
Projected	2006	114	112	110	104	115	147	147	136	131	107	112	114	114	
	2007	115	113	111	105	116	148	149	137	133	108	114	116	115	
	2008	117	114	113	106	118	150	151	139	134	110	115	117	117	
	2009	118	116	114	107	119	152	152	140	136	111	116	118	118	
	2010	119	117	115	108	120	153	154	142	137	112	117	119	119	
	2011	120	118	116	109	121	155	155	143	138	113	118	120	120	
	2012	121	119	117	110	122	156	156	144	139	114	119	121	121	
	2013	122	120	118	111	123	157	157	145	140	115	119	122	122	
	2014	123	120	119	112	124	158	158	146	141	115	120	122	123	
	2015	123	121	119	112	125	159	159	147	142	116	121	123	123	
Projected	2016	124	122	120	113	125	159	160	147	143	116	121	124	124	
	2017	124	122	120	113	126	160	161	148	143	117	122	124	124	
	2018	125	123	121	114	126	161	162	149	144	118	122	124	125	
	2019	125	123	121	114	127	161	162	149	144	118	122	125	125	
	2020	126	123	122	114	127	162	163	150	145	118	123	125	126	
	2021	126	124	122	115	127	162	163	150	145	119	123	125	126	
	2022	126	124	122	115	128	163	163	150	146	119	123	126	126	
	2023	127	124	123	115	128	163	164	151	146	119	124	126	127	
	2024	127	125	123	116	128	163	164	151	146	119	124	126	127	
	2025	127	125	123	116	129	164	164	151	147	120	124	127	127	

Monthly Coincidence Factors

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Wntr Pk	S
Projected	2006	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2007	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2008	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2009	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2010	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2011	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2012	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2013	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2014	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2015	95 5%	97 4%	98 0%	95 6%	95 3%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	
	2006-2015	95 5%	97 4%	98 0%	95 6%	97 4%	98 2%	94 9%	95 7%	98 7%	96 2%	97 5%	96 8%	95 5%	

Appendix C
HISTORICAL WEATHER DATA

R·W·BECK



N \013508 CMMPA\037268\MN-Monthly DD_Reformat xls

3460

Monthly Heating and Cooling Degree Days - Minneapolis/St. Paul Airport Weather Sta

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Heating Degree Days											
1990	1,194	1,151	899	569	274	37	2	5	136	516	820
1991	1,621	1,129	945	481	197	3	7	8	228	548	1,206
1992	1,332	1,067	981	636	190	72	32	52	182	542	1,003
1993	1,557	1,335	1,096	617	243	70	3	18	302	566	1,025
1994	1,873	1,444	932	569	180	27	2	45	99	390	802
1995	1,433	1,273	924	678	247	47	6	0	201	511	1,123
1996	1,693	1,356	1,222	699	304	62	3	2	167	500	943
1997	1,688	1,255	1,100	653	351	6	27	26	113	483	1,101
1998	1,414	917	1,019	423	104	107	0	0	74	422	829
1999	1,625	1,034	958	422	171	76	0	2	174	471	690
2000	1,515	1,070	734	542	176	72	12	1	146	364	1,008
2001	1,386	1,483	1,155	497	197	54	8	2	162	505	552
2002	1,243	1,021	1,234	588	348	30	0	4	119	711	951
2003	1,532	1,372	1,037	505	228	30	0	0	175	441	979
2004	1,661	1,250	892	456	260	60	8	50	59	457	810
2005	1,525	1,073	1,022	394	268	0	0	3	61	416	845
Normal	1,616	1,279	1,034	560	222	44	7	20	178	516	978
Cooling Degree Days											
1990	0	0	0	28	11	178	206	191	125	1	0
1991	0	0	0	8	109	246	238	205	51	0	0
1992	0	0	0	3	56	96	64	88	28	2	0
1993	0	0	0	0	12	60	176	195	8	0	0
1994	0	0	0	3	52	183	167	126	86	0	0
1995	0	0	0	0	3	240	264	308	63	9	0
1996	0	0	0	0	20	142	168	181	87	4	0
1997	0	0	0	0	1	163	222	150	41	33	0
1998	0	0	0	0	62	111	243	212	130	0	0
1999	0	0	0	0	28	151	357	166	64	0	0
2000	0	0	0	0	55	111	249	228	53	8	0
2001	0	0	0	8	38	184	351	293	46	2	0
2002	0	0	0	18	33	221	379	195	141	0	0
2003	0	0	0	13	8	130	278	326	108	16	0
2004	0	0	0	10	8	81	239	98	140	2	0
2005	0	0	0	7	6	263	372	217	106	30	0
Normal	0	0	0	4	41	146	259	190	56	3	0

N \013508 CMMPA\037268\MN-Monthly DD_Reformat xls

3461

Appendix D
BIG STONE II MEMBER ECONOMIC DATA

R·W·BECK

Table D - 1

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Blue Earth (Faribalt County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incom Household ($1	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	16 6	-	6.7	-	4 6	-	1.48	-	251	-	318	-	47,592	
1993	16 6	-0 3%	6.7	-0 1%	4.5	-2.3%	1.35	-8 4%	242	-3.5%	278	-12 7%	41,561	-1
1994	16.6	-0.2%	6.7	0 1%	5 5	22.2%	1 41	4 1%	302	24 8%	328	17 8%	48,925	1
1995	16.5	-0.2%	6.7	0 1%	5.6	1 4%	1.48	5.3%	310	2.5%	313	-4 4%	46,732	
1996	16 4	-0.7%	6 7	-0.4%	4.8	-14 5%	1 65	11.3%	291	-6 0%	349	11 6%	52,341	
1997	16.5	0 3%	6.7	0 6%	5.8	22 0%	1.64	-0 8%	374	28 4%	349	-0 1%	51,944	
1998	16.3	-0 9%	6.7	-0 7%	5 8	-0.8%	1 59	-3 0%	383	2 5%	354	1.6%	53,119	
1999	16.3	-0 2%	6 7	0.1%	5 9	1.7%	1 63	2 7%	381	-0.6%	342	-3.6%	51,153	
2000	16.1	-0 9%	6.6	-0.6%	5 9	-0.1%	1 67	2 4%	394	3 5%	347	1.5%	52,221	
2001	16.0	-1 1%	6.6	-1 1%	5 6	-4.0%	1 57	-6.1%	377	-4 3%	334	-3 5%	50,938	
2002	15 9	-0 5%	6.5	-0 4%	6.0	6.4%	1.58	1.1%	421	11 6%	343	2 5%	52,393	
2003	15 7	-0.9%	6 5	-0 9%	5 8	-3 8%	1.51	-4 9%	430	2.2%	358	4.3%	55,129	
2004	15.7	-0.5%	6 5	-0 4%	5.9	1 8%	1 44	-4 4%	445	3.4%	368	2 8%	56,933	
2005	15.5	-1.0%	6 4	-0.9%	5.9	0.2%	1 44	0 1%	456	2 4%	371	0 8%	57,946	
2006	15.4	-0.6%	6 4	-0 3%	6.0	1.5%	1 46	1.2%	477	4 6%	377	1 8%	59,181	
2007	15.3	-0 5%	6 4	-0 2%	6 0	0 4%	1.45	-0 6%	487	2 2%	380	0.8%	59,806	
2008	15.2	-0 6%	6.3	-0 2%	6 0	-0 1%	1 43	-1.1%	501	2 9%	384	1.0%	60,541	
2009	15.2	-0 6%	6.3	-0 2%	6 0	0.0%	1 42	-0 7%	515	2 7%	388	1 0%	61,257	
2010	15 1	-0 6%	6.3	-0 2%	6 0	-0 4%	1.41	-1 2%	526	2.2%	394	1 5%	62,278	
2011	15.0	-0 6%	6.3	-0 2%	6 0	-0 3%	1 39	-1 2%	537	2 0%	399	1 3%	63,228	
2012	14.9	-0.6%	6 3	-0 2%	6.0	-0 1%	1 37	-1 2%	547	1 9%	406	1 7%	64,422	
2013	14.8	-0.6%	6 3	-0.2%	5 9	-0 3%	1 36	-1.3%	555	1 5%	413	1.7%	65,651	
2014	14 7	-0 6%	6 3	-0 2%	5 9	-0 4%	1 34	-1.3%	563	1.4%	419	1.5%	66,747	
2015	14.6	-0 6%	6.3	-0 3%	5 9	-0.6%	1 32	-1.4%	570	1 3%	424	1 3%	67,813	
2016	14.5	-0 6%	6.2	-0 3%	5.8	-0.9%	1.30	-1 6%	577	1.2%	430	1 4%	68,943	
2017	14.5	-0 5%	6.2	-0.3%	5 8	-1 0%	1.28	-1 6%	585	1 3%	436	1 4%	70,084	
2018	14.4	-0 5%	6 2	-0 3%	5.7	-0 9%	1.26	-1 7%	591	1 0%	442	1 4%	71,300	
2019	14.3	-0.5%	6.2	-0 3%	5.7	-0 9%	1 23	-1 8%	595	0 7%	448	1 5%	72,578	
2020	14 3	-0.5%	6.2	-0 3%	5.6	-0.9%	1 21	-1.8%	599	0.6%	455	1.5%	73,938	
2021	14 2	-0.5%	6 1	-0 3%	5 6	-1.0%	1 19	-1 9%	602	0 5%	463	1 6%	75,355	
2022	14 1	-0 4%	6.1	-0 4%	5.5	-1 1%	1 17	-1 9%	606	0.6%	470	1 6%	76,851	
2023	14 1	-0 4%	6 1	-0 4%	5 4	-1 0%	1.14	-1 9%	610	0.7%	477	1 6%	78,396	
2024	14.0	-0 4%	6 1	-0 4%	5 4	-0 9%	1 12	-1 9%	613	0.5%	485	1 6%	79,978	
2025	14 0	-0 4%	6 0	-0 4%	5.3	-1 0%	1 10	-2.0%	616	0 5%	493	1 6%	81,609	
Average Percent Change														
1995-2005		-0 6%		-0 5%		0 5%		-0 3%		3 9%		1 7%		
2006-2015		-0 6%		-0 2%		-0.2%		-1 1%		2 0%		1 3%		
2016-2025		-0 5%		-0 4%		-1 0%		-1 8%		0 7%		1 5%		

N \013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ

3 4/63

Table D - 2

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Delano (Wright County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inc Household
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	72.4	-	24 5	-	19 2	-	2.58	-	1,006	-	1,477	-	60,357
1993	74.3	2.6%	25.2	3 1%	20 4	6.3%	2 96	14.7%	1,059	5 2%	1,509	2.2%	59,821
1994	76.3	2.6%	26 0	3 1%	21 8	7.0%	3 31	11.9%	1,160	9 6%	1,615	7.0%	62,137
1995	78 4	2 8%	26 8	3 3%	22 7	4.3%	3 59	8 7%	1,215	4 7%	1,677	3.8%	62,449
1996	80.9	3 2%	27 8	3 6%	23.9	5.0%	3 81	6.1%	1,340	10 2%	1,777	6 0%	63,894
1997	83.1	2 7%	28 7	3.1%	24 7	3.5%	3 99	4.6%	1,481	10.6%	1,883	5.9%	65,613
1998	85.1	2 4%	29.5	2 8%	26 3	6.4%	4 45	11.6%	1,661	12 2%	2,026	7 6%	68,682
1999	87 9	3 3%	30 6	3.7%	27.9	6.1%	4 78	7 4%	1,768	6.4%	2,148	6 0%	70,199
2000	90.8	3 3%	31 7	3 8%	29 6	5 9%	5 02	5 2%	1,897	7.3%	2,285	6 4%	71,977
2001	93 9	3 5%	32 9	3 5%	30 8	4 4%	4 96	-1 2%	1,961	3 4%	2,350	2 8%	71,489
2002	98 4	4 8%	34 5	4 9%	32.5	5.3%	4 82	-2.8%	2,120	8.1%	2,458	4 6%	71,317
2003	102 9	4 5%	36 0	4 6%	33.5	3.2%	4.69	-2.8%	2,247	6.0%	2,549	3.7%	70,707
2004	107.1	4 1%	37 5	4 1%	34.9	4.2%	5.06	8.0%	2,400	6.8%	2,737	7.4%	72,914
2005	110 7	3 4%	38 8	3 5%	36.1	3.3%	5.21	2.8%	2,520	5.0%	2,847	4 0%	73,277
2006	114 4	3 3%	40.3	3.9%	37.3	3 5%	5 38	3 4%	2,643	4.9%	2,957	3 9%	73,289
2007	118 0	3.2%	41.8	3 6%	38.6	3 3%	5.51	2 3%	2,763	4.5%	3,094	4 6%	73,990
2008	121.9	3 2%	43 4	3 7%	39.8	3 2%	5.62	2.1%	2,893	4 7%	3,221	4 1%	74,286
2009	125.7	3 1%	44.9	3.6%	41.2	3 7%	5 78	2 7%	3,030	4.7%	3,359	4.3%	74,752
2010	129.3	2.9%	46 5	3 4%	42.7	3 6%	5.92	2.5%	3,168	4.6%	3,497	4 1%	75,274
2011	132 8	2.7%	48 0	3.2%	44.1	3 4%	6.05	2.1%	3,305	4.3%	3,640	4 1%	75,901
2012	136 3	2 7%	49 5	3 2%	45.7	3.4%	6.17	2 0%	3,447	4.3%	3,788	4 1%	76,491
2013	139.8	2 6%	51 1	3 1%	47.2	3 3%	6.29	1 9%	3,587	4.1%	3,929	3.7%	76,928
2014	143.3	2 5%	52 6	3 0%	48.7	3 2%	6 42	2.0%	3,729	4.0%	4,068	3 5%	77,327
2015	146 8	2 4%	54 1	2 9%	50.2	3.1%	6.54	2 0%	3,876	3.9%	4,208	3 4%	77,750
2016	150.0	2 2%	55.5	2 6%	51.6	2.9%	6.68	2 1%	4,028	3.9%	4,345	3.3%	78,229
2017	153.3	2 2%	56 9	2 5%	53.1	2 8%	6.82	2 0%	4,186	3.9%	4,480	3 1%	78,693
2018	156.5	2 1%	58 3	2 4%	54 6	2 9%	6 94	1 8%	4,349	3.9%	4,616	3 0%	79,151
2019	159.8	2 1%	59 7	2.4%	56.2	2 9%	7.06	1 7%	4,517	3.9%	4,751	2 9%	79,564
2020	163.1	2 1%	61 1	2 3%	57.9	2.9%	7 17	1 6%	4,694	3.9%	4,889	2.9%	80,014
2021	166.4	2 0%	62 4	2 2%	59.5	2.8%	7.29	1.6%	4,877	3.9%	5,028	2 9%	80,523
2022	169.6	1 9%	63 7	2 1%	61.1	2 6%	7.40	1.6%	5,068	3 9%	5,168	2 8%	81,077
2023	172.9	1 9%	65 0	2 0%	62.7	2 6%	7.50	1.4%	5,266	3.9%	5,307	2 7%	81,651
2024	176.0	1 8%	66 2	1 9%	64.3	2 6%	7.59	1.2%	5,470	3.9%	5,448	2 7%	82,273
2025	179.3	1 8%	67 4	1 8%	65.9	2 5%	7 68	1 2%	5,686	3.9%	5,592	2 6%	82,926
Average Percent Change													
1995-2005		3 5%		3 8%		4 7%		3 8%		7.6%		5 4%	
2006-2015		2 8%		3.3%		3 3%		2 2%		4.3%		4 0%	
2016-2025		2 0%		2 2%		2 7%		1 6%		3.9%		2 8%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

34164

Table D - 3

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Fairfax (Renville County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incom Household ($1	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	17.5	-	6 8	-	5.7	-	1 09	-	255	-	352	-	52,008	
1993	17.5	0.1%	6.8	0 3%	5.4	-4 5%	1 07	-1 6%	240	-6.0%	292	-16 9%	43,050	-
1994	17.4	-0.7%	6 8	-0 4%	5 6	3.5%	1 06	-0.6%	280	16 7%	369	26 2%	54,554	
1995	17.4	-0.3%	6 8	0.0%	5.7	1.4%	1 06	-0 2%	283	1 1%	330	-10.6%	48,742	-
1996	17 3	-0.3%	6.8	0.0%	4 8	-15.7%	1 19	12.0%	250	-11 5%	378	14 8%	55,928	
1997	17.3	-0.1%	6 8	0 2%	6.0	24.1%	1 23	2 9%	332	32 9%	365	-3 6%	53,852	
1998	17 2	-0 5%	6.8	-0.2%	6 1	1 6%	1 20	-1 8%	350	5 3%	382	4 6%	56,463	
1999	17 2	-0 2%	6 8	0.0%	6 0	-1 6%	1.13	-5.8%	352	0.5%	374	-2 0%	55,308	
2000	17 1	-0.1%	6 8	0 2%	6 1	1.7%	1.22	7 9%	369	4.7%	367	-1.9%	54,124	
2001	16 9	-1 2%	6 7	-1 1%	6 0	-1 2%	1.10	-9.7%	357	-3 1%	361	-1.4%	53,947	
2002	17.0	0 2%	6 7	0 2%	4.8	-20 3%	1 05	-4.8%	316	-11.5%	364	0.7%	54,202	
2003	16.9	-0 7%	6 7	-0.6%	4 8	0 2%	1 04	-0 8%	330	4 3%	352	-3 3%	52,717	
2004	16 7	-0.8%	6 6	-0 8%	5 4	13.7%	1 05	0 4%	382	15.8%	359	1 9%	54,149	
2005	16 8	0 3%	6 6	0 4%	5 5	0 4%	1 05	0.4%	374	-2 1%	361	0 6%	54,292	
2006	16.7	-0 3%	6 6	-0 1%	5.5	1.7%	1 06	1 2%	381	1.8%	364	1 0%	54,876	
2007	16 6	-0.4%	6 6	0 0%	5 6	0 5%	1 06	-0.6%	387	1 7%	363	-0 4%	54,667	
2008	16.6	-0.3%	6.6	0 0%	5.6	0 0%	1.05	-1 1%	398	2 8%	363	-0 1%	54,636	
2009	16.5	-0.4%	6 6	0 0%	5.6	0 1%	1 04	-0 7%	409	2.7%	361	-0 5%	54,371	
2010	16.5	-0.3%	6 6	0 1%	5.6	-0 3%	1 03	-1 1%	417	2 1%	360	-0.3%	54,189	
2011	16.4	-0 3%	6.6	0.1%	5.6	-0.2%	1.02	-1 2%	426	2.1%	359	-0 2%	54,054	
2012	16.4	-0 3%	6 7	0.1%	5.6	0.0%	1 00	-1 1%	434	1 9%	359	-0.2%	53,906	
2013	16 3	-0 3%	6.7	0.1%	5 6	-0.2%	0 99	-1 3%	442	1 7%	358	-0 1%	53,779	
2014	16 3	-0 3%	6 7	0.1%	5 5	-0.3%	0 98	-1 3%	448	1 5%	359	0 2%	53,837	
2015	16 2	-0 3%	6.7	0 0%	5 5	-0.4%	0.97	-1 4%	455	1.4%	359	0 0%	53,802	
2016	16 2	-0 3%	6 7	0 0%	5 5	-0.8%	0.95	-1 6%	460	1 2%	359	-0 1%	53,798	
2017	16 1	-0.3%	6 7	0 0%	5 4	-0.8%	0.93	-1 6%	467	1 4%	358	-0 1%	53,755	
2018	16 1	-0 3%	6 7	-0 1%	5.4	-0.8%	0.92	-1.7%	472	1 1%	358	-0 1%	53,740	
2019	16 0	-0 3%	6 7	-0 1%	5 3	-0 8%	0.90	-1 8%	475	0.7%	357	-0 1%	53,730	
2020	16 0	-0 2%	6 6	-0 1%	5.3	-0.8%	0.88	-1.9%	478	0.7%	357	0 0%	53,756	
2021	15 9	-0 3%	6.6	-0 1%	5 3	-0 9%	0 87	-1.9%	481	0.6%	357	0.0%	53,815	
2022	15 9	-0 3%	6 6	-0 2%	5 2	-1 0%	0.85	-2.0%	485	0.7%	357	0.0%	53,909	
2023	15 8	-0 3%	6.6	-0 2%	5 2	-0 9%	0 83	-1.9%	488	0 8%	357	0.0%	54,037	
2024	15 8	-0.2%	6 6	-0 3%	5 1	-0 8%	0 82	-2 0%	492	0 6%	357	0 0%	54,188	
2025	15 8	-0.2%	6 6	-0 3%	5 1	-0 9%	0 80	-2 0%	495	0 6%	357	0 0%	54,342	
Average Percent Change														
1995-2005		-0 3%		-0 2%		-0 4%		-0 1%		2 8%		0 9%		
2006-2015		-0 3%		0 0%		-0 1%		-1 1%		2 0%		-0 2%		
2016-2025		-0 3%		-0 2%		-0 9%		-1 9%		0 8%		0 0%		

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

34165

Table D - 4

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Glencoe (McLeod County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inco Household ($
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	32 6	-	12 1	-	16.4	-	7 39	-	718	-	698	-	57,503
1993	32 9	1 0%	12 3	1 5%	17.0	3 7%	7 85	6.2%	718	0 0%	687	-1.6%	55,774
1994	33 2	0 8%	12 5	1.2%	17 0	0 3%	7.86	0 2%	755	5.1%	730	6.2%	58,554
1995	33 4	0 6%	12 6	1.1%	17.4	2.4%	8 01	1.9%	778	3 0%	755	3.4%	59,913
1996	33 9	1 5%	12 8	2.0%	18 8	8.0%	8.94	11 6%	883	13 5%	798	5 7%	62,123
1997	34.1	0 6%	13 0	1 0%	19 1	1 3%	9.20	3.0%	986	11 7%	826	3.5%	63,636
1998	34.6	1 3%	13 2	1 7%	19 1	0.2%	9 22	0.2%	1,063	7.8%	858	3 9%	64,974
1999	34.9	1.1%	13.4	1.6%	18.5	-2 9%	8 36	-9 3%	1,055	-0.7%	873	1 8%	65,116
2000	34.9	-0 2%	13 4	0.3%	17.7	-4.8%	7 33	-12 3%	1,070	1.4%	847	-2 9%	63,040
2001	35.3	1 1%	13 6	1 2%	17.4	-1 7%	6 68	-8 9%	1,049	-2 0%	820	-3.2%	60,276
2002	35.6	1 0%	13 8	1 1%	17.2	-0.9%	6 15	-7 9%	1,111	6.0%	840	2 5%	61,111
2003	35 8	0 4%	13 8	0.5%	17.0	-1 0%	5 99	-2.6%	1,213	9 2%	849	1 0%	61,433
2004	36 2	1 1%	14.0	1 2%	17 8	4 7%	6 29	5.0%	1,324	9 1%	871	2 5%	62,239
2005	36 6	1 2%	14 2	1 3%	18 1	1 7%	6 39	1.6%	1,392	5 2%	889	2.2%	62,788
2006	36 9	0.8%	14 3	1 1%	18 6	2.9%	6.56	2.6%	1,457	4.6%	903	1 5%	63,059
2007	37 2	0.8%	14 5	1 2%	19 0	1.8%	6.61	0.8%	1,526	4.8%	914	1.2%	63,061
2008	37 6	0.8%	14 7	1 2%	19.2	1 2%	6 63	0.3%	1,615	5.8%	922	0 9%	62,896
2009	37.9	0.8%	14 8	1 2%	19.5	1 4%	6 68	0 7%	1,704	5.5%	929	0 7%	62,608
2010	38.2	0 8%	15 0	1.2%	19.6	0 9%	6 69	0 2%	1,789	5.0%	935	0 7%	62,268
2011	38.5	0 8%	15.2	1.3%	19.8	1 0%	6 71	0.2%	1,877	4 9%	943	0 9%	62,026
2012	38 8	0 8%	15 4	1 2%	20 1	1.2%	6 72	0.2%	1,965	4 7%	955	1.2%	62,013
2013	39 1	0 8%	15.6	1.3%	20.3	1 0%	6 73	0.1%	2,050	4 3%	966	1.2%	61,984
2014	39.4	0 8%	15.8	1 2%	20 5	0 9%	6.73	0 0%	2,135	4 1%	978	1.2%	61,979
2015	39 7	0.8%	15.9	1.1%	20.6	0.7%	6 73	-0 1%	2,218	3.9%	988	1.1%	61,949
2016	40.0	0 8%	16 1	1 1%	20.7	0.4%	6 71	-0 2%	2,301	3.8%	999	1 1%	61,918
2017	40 4	0 8%	16.3	1 1%	20.7	0.3%	6 69	-0.3%	2,390	3.8%	1,008	1 0%	61,880
2018	40 7	0 8%	16 5	1.0%	20 8	0 3%	6 67	-0.4%	2,473	3 5%	1,018	1 0%	61,852
2019	41 0	0 8%	16 6	1.0%	20 9	0 3%	6.63	-0 5%	2,548	3.0%	1,028	1.0%	61,842
2020	41 3	0 8%	16.8	1 0%	20.9	0.2%	6.59	-0.6%	2,622	2 9%	1,039	1.0%	61,871
2021	41.6	0 8%	16.9	0 9%	20.9	0.2%	6.55	-0 7%	2,692	2.7%	1,049	1 0%	61,952
2022	41.9	0 8%	17 1	0 8%	20.9	0.0%	6 50	-0 7%	2,766	2.7%	1,060	1 0%	62,084
2023	42 3	0 7%	17 2	0 8%	21 0	0 1%	6 45	-0 7%	2,842	2.7%	1,071	1 0%	62,241
2024	42 6	0.7%	17 3	0 7%	21 0	0 1%	6 40	-0.8%	2,912	2 5%	1,082	1 0%	62,414
2025	42 9	0.7%	17 4	0.7%	21 0	0 1%	6 35	-0.8%	2,982	2 4%	1,092	1 0%	62,599
Average Percent Change													
1995-2005		0.9%		1.2%		0.4%		-2 2%		6 0%		1 7%	
2006-2015		0 8%		1.2%		1.1%		0.3%		4.8%		1 0%	
2016-2025		0 8%		0 9%		0 2%		-0.6%		2.9%		1 0%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

34166

Table D - 5

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Granite Falls (Yellow Medicine County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incor Household ($	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	11 6	-	4.6	-	3 9	-	0 52	-	200	-	204	-	44,397	
1993	11 6	0 1%	4.6	0 3%	4 3	9 9%	0 54	2.7%	216	7 9%	176	-13 4%	38,326	
1994	11.6	-0 1%	4.6	0 1%	3 9	-10 1%	0 50	-7.5%	195	-9 7%	219	24 2%	47,562	
1995	11.5	-0 5%	4.6	-0 3%	4.0	1 7%	0 56	13 2%	196	0.6%	205	-6 2%	44,759	
1996	11 5	-0 5%	4.6	-0 4%	4.1	3.5%	0.58	3 4%	211	7 8%	238	16 0%	52,108	
1997	11.5	0 1%	4.6	0 3%	4.1	0.6%	0 59	1 7%	225	6 7%	227	-4 8%	49,499	
1998	11 3	-1 7%	4.5	-1 5%	4 2	2.9%	0.66	11 7%	236	4 8%	233	2.7%	51,633	
1999	11 2	-1.0%	4 5	-0.8%	4.2	-0.6%	0.63	-4 0%	232	-1 8%	229	-1 8%	51,115	
2000	11.0	-1 3%	4.4	-1 2%	4 3	1 3%	0.66	4.6%	242	4 4%	230	0.5%	51,989	
2001	11.0	-0 8%	4 4	-0.8%	4.1	-3.1%	0.48	-28 2%	231	-4 8%	220	-4.4%	50,070	
2002	10.8	-1 3%	4 3	-1 3%	4.2	0.2%	0.52	9 8%	240	4 1%	216	-1 7%	49,834	
2003	10.7	-1.0%	4 3	-0 9%	4 2	-0.1%	0 32	-38 4%	242	0 8%	221	2.2%	51,413	
2004	10.6	-1 3%	4 2	-1.3%	4 3	3 3%	0.34	5 6%	243	0 5%	226	2.2%	53,202	
2005	10.4	-1 0%	4 2	-1 0%	4.3	0 0%	0 34	-0 2%	259	6 5%	227	0.4%	53,936	
2006	10.4	-0.8%	4 2	-0 5%	4 3	1 3%	0 34	1 1%	263	1.6%	230	1 3%	54,929	
2007	10.3	-0.8%	4 2	-0 5%	4.4	0.2%	0 34	-0 9%	267	1.6%	229	-0.2%	55,096	
2008	10.2	-0 8%	4.1	-0 5%	4 3	-0.4%	0 33	-1.5%	273	2 2%	230	0 3%	55,558	
2009	10 1	-0.9%	4.1	-0 5%	4 3	-0 3%	0 33	-1.1%	279	2 0%	230	0 1%	55,872	
2010	10.0	-0 9%	4.1	-0 5%	4 3	-0 7%	0 33	-1 5%	283	1 5%	231	0.2%	56,279	
2011	9.9	-0 9%	4.1	-0 5%	4 3	-0 6%	0.32	-1.6%	287	1 4%	231	0.0%	56,585	
2012	9 8	-0 9%	4.1	-0 5%	4.3	-0.5%	0 32	-1.6%	290	1 2%	232	0 4%	57,114	
2013	9 7	-1 0%	4 0	-0 5%	4.2	-0.6%	0.31	-1 8%	293	0 9%	233	0 7%	57,792	
2014	9 7	-0 9%	4.0	-0 5%	4.2	-0 7%	0 30	-1 7%	295	0 9%	235	0 6%	58,419	
2015	9 6	-0 9%	4 0	-0.5%	4 2	-0 8%	0.30	-1 7%	298	0 8%	235	0 4%	58,964	
2016	9 5	-0 8%	4.0	-0.5%	4.1	-1 1%	0.29	-1 8%	300	0 8%	237	0 5%	59,541	
2017	9.4	-0 8%	4 0	-0.5%	4.1	-1.2%	0 29	-1 8%	303	1.0%	237	0.4%	60,093	
2018	9.4	-0 7%	3 9	-0.5%	4.0	-1 1%	0 28	-1 9%	305	0.7%	239	0 5%	60,701	
2019	9.3	-0 7%	3 9	-0.5%	4 0	-1 1%	0 28	-2 0%	306	0.4%	240	0 5%	61,330	
2020	9.2	-0 7%	3.9	-0.5%	3.9	-1.1%	0 27	-2 0%	307	0.4%	241	0.6%	62,006	
2021	9.2	-0 6%	3 9	-0 5%	3 9	-1 1%	0 27	-2.1%	308	0.3%	243	0.7%	62,727	
2022	9 1	-0 6%	3 9	-0 5%	3 8	-1 2%	0.26	-2 1%	310	0.4%	245	0.7%	63,514	
2023	9 1	-0 6%	3 8	-0.6%	3.8	-1 1%	0 26	-2 1%	311	0.5%	247	0 7%	64,342	
2024	9 0	-0 6%	3 8	-0.6%	3.8	-1.1%	0 25	-2.1%	312	0.3%	248	0 7%	65,185	
2025	9 0	-0 5%	3 8	-0 6%	3 7	-1 1%	0 24	-2.2%	313	0 3%	250	0.7%	66,046	
Average Percent Change														
1995-2005		-1 0%		-0 9%		0 8%		-4 9%		2 8%		1 0%		
2006-2015		-0 9%		-0 5%		-0 5%		-1 5%		1 4%		0 3%		
2016-2025		-0 6%		-0 5%		-1 1%		-2 0%		0 5%		0 6%		

Table D - 6

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Janesville (Waseca County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inc Household
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	18.2	-	6 7	-	6 2	-	1 55	-	314	-	343	-	51,305
1993	18 0	-1 3%	6 6	-1 5%	6 1	-1 8%	1.48	-4.5%	302	-3.9%	315	-8 0%	47,918
1994	18.0	-0.1%	6 6	-0 3%	7.1	16 6%	1.46	-1.4%	359	18 7%	363	15 0%	55,281
1995	18.2	1 1%	6 6	0 9%	7 6	7 2%	1.67	14 3%	381	6 1%	358	-1 2%	54,120
1996	18 3	0 7%	6.7	0.5%	6.8	-10 3%	1.63	-2.1%	357	-6.3%	391	9 1%	58,727
1997	18.7	2 5%	6 8	2.3%	6.9	2.1%	1 57	-3 5%	396	11 2%	404	3 3%	59,286
1998	18 8	0 3%	6 8	0 1%	6 9	-0.4%	1 49	-5.7%	417	5 2%	423	4 7%	62,004
1999	19 5	3 6%	7 1	3 4%	6 9	0 5%	1.43	-3.7%	430	3 2%	411	-2 7%	58,319
2000	19 5	0 3%	7 1	0 1%	7 0	0 7%	1.53	7 0%	428	-0.4%	416	1 2%	58,945
2001	19.5	-0.2%	7 1	-0 1%	7 1	1 9%	1.42	-7.0%	444	3 7%	413	-0 8%	58,560
2002	19 5	0 2%	7 1	0 3%	7 0	-1 0%	1.35	-5.3%	474	6 8%	413	0.1%	58,436
2003	19 4	-0.5%	7 0	-0.4%	7.1	0.5%	1.33	-1.3%	508	7.0%	423	2 4%	60,078
2004	19.3	-0 8%	7 0	-0 7%	8 5	20 5%	1.41	6.0%	627	23 6%	430	1.6%	61,465
2005	19.3	0 2%	7 0	0 2%	8 7	1 3%	1.43	1.5%	640	2 1%	435	1 2%	62,085
2006	19.4	0 4%	7 1	0.7%	8.9	2.5%	1.46	2.1%	669	4.5%	443	1 8%	62,739
2007	19 5	0 4%	7 1	0 7%	9 0	1.3%	1.46	0.0%	697	4.2%	448	1.0%	62,908
2008	19.6	0 4%	7 2	0 8%	9 1	0 9%	1.45	-0.5%	730	4 7%	452	1 0%	63,060
2009	19 7	0.5%	7 2	0 9%	9.2	1 1%	1 45	0 1%	764	4 7%	456	0 9%	63,005
2010	19.8	0 6%	7.3	1 0%	9 2	0 7%	1 45	-0.2%	796	4 1%	463	1 6%	63,343
2011	19 9	0.6%	7.4	1.0%	9.3	0 8%	1 45	-0.3%	827	4 0%	470	1 4%	63,618
2012	20 0	0 5%	7 5	1.0%	9.4	0.9%	1.44	-0.3%	859	3.8%	477	1 5%	63,943
2013	20 1	0 4%	7.5	0.9%	9.5	0 7%	1 43	-0 5%	887	3 3%	485	1 6%	64,390
2014	20 2	0 4%	7 6	0.9%	9.5	0.6%	1 43	-0.6%	916	3.2%	492	1 5%	64,771
2015	20.2	0 2%	7.6	0.6%	9.5	0 2%	1.41	-0 9%	941	2.8%	497	1.1%	65,106
2016	20 3	0 2%	7 7	0.5%	9.5	-0 1%	1 40	-1 1%	965	2 6%	503	1 1%	65,476
2017	20 3	0 3%	7 7	0.5%	9.5	-0.2%	1.38	-1 2%	991	2.7%	508	1.1%	65,842
2018	20 4	0 3%	7.8	0 5%	9 5	-0 1%	1 36	-1 2%	1,015	2.4%	514	1 1%	66,244
2019	20 4	0 3%	7 8	0 5%	9 5	-0 1%	1 35	-1 2%	1,037	2 1%	520	1.2%	66,678
2020	20 5	0 4%	7 8	0 6%	9 5	-0.1%	1 33	-1 3%	1,058	2 0%	527	1 3%	67,179
2021	20.6	0 4%	7 9	0 5%	9 5	-0.2%	1 31	-1 4%	1,078	1 9%	534	1 3%	67,715
2022	20.7	0 4%	7.9	0 5%	9 4	-0 3%	1.29	-1.5%	1,098	1 9%	541	1 3%	68,302
2023	20.8	0.4%	8 0	0 4%	9 4	-0 2%	1.28	-1.4%	1,120	2 0%	548	1 3%	68,931
2024	20 8	0.4%	8.0	0 4%	9.4	-0.2%	1.26	-1.5%	1,139	1 8%	556	1 3%	69,577
2025	20 9	0.4%	8.0	0 3%	9 4	-0.2%	1.24	-1.5%	1,159	1 7%	563	1.3%	70,244
Average Percent Change													
1995-2005		0 6%		0.6%		1 3%		-1 5%		5 3%		2 0%	
2006-2015		0 5%		0.9%		0 8%		-0 3%		3 9%		1 3%	
2016-2025		0.3%		0 5%		-0.2%		-1 3%		2.0%		1 3%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

34168

Table D - 6

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Janesville (Waseca County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incor Household ($	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	18 2	-	6.7	-	6 2	-	1 55	-	314	-	343	-	51,305	
1993	18.0	-1 3%	6 6	-1 5%	6 1	-1 8%	1 48	-4 5%	302	-3.9%	315	-8.0%	47,918	
1994	18.0	-0.1%	6.6	-0.3%	7 1	16 6%	1 46	-1 4%	359	18 7%	363	15.0%	55,281	
1995	18.2	1 1%	6.6	0 9%	7 6	7 2%	1 67	14 3%	381	6 1%	368	-1 2%	54,120	
1996	18 3	0 7%	6 7	0 5%	6.8	-10.3%	1 63	-2.1%	357	-6 3%	391	9 1%	58,727	
1997	18 7	2 5%	6 8	2 3%	6.9	2 1%	1.57	-3.5%	396	11 2%	404	3 3%	59,286	
1998	18.8	0.3%	6 8	0 1%	6 9	-0.4%	1 49	-5.7%	417	5.2%	423	4 7%	62,004	
1999	19.5	3.6%	7.1	3 4%	6 9	0.5%	1 43	-3.7%	430	3.2%	411	-2 7%	58,319	
2000	19 5	0.3%	7 1	0 1%	7 0	0.7%	1 53	7.0%	428	-0 4%	416	1.2%	58,945	
2001	19 5	-0 2%	7.1	-0 1%	7 1	1.9%	1 42	-7 0%	444	3 7%	413	-0.8%	58,560	
2002	19 5	0.2%	7 1	0.3%	7.0	-1.0%	1 35	-5 3%	474	6 8%	413	0 1%	58,436	
2003	19 4	-0 5%	7 0	-0.4%	7.1	0.5%	1 33	-1 3%	508	7 0%	423	2 4%	60,078	
2004	19 3	-0 8%	7 0	-0.7%	8 5	20.5%	1 41	6.0%	627	23 6%	430	1 6%	61,465	
2005	19 3	0.2%	7 0	0.2%	8.7	1 3%	1 43	1 5%	640	2 1%	435	1 2%	62,085	
2006	19 4	0.4%	7 1	0 7%	8.9	2.5%	1.46	2 1%	669	4.5%	443	1 8%	62,739	
2007	19 5	0.4%	7 1	0.7%	9.0	1.3%	1 46	0 0%	697	4 2%	448	1 0%	62,908	
2008	19 6	0.4%	7 2	0 8%	9 1	0.9%	1 45	-0.5%	730	4 7%	452	1 0%	63,060	
2009	19.7	0 5%	7 2	0.9%	9.2	1 1%	1 45	0 1%	764	4 7%	456	0 9%	63,005	
2010	19 8	0.6%	7 3	1.0%	9 2	0.7%	1 45	-0.2%	796	4.1%	463	1 6%	63,343	
2011	19.9	0.6%	7.4	1.0%	9 3	0.8%	1 45	-0.3%	827	4.0%	470	1 4%	63,618	
2012	20 0	0.5%	7 5	1.0%	9.4	0.9%	1 44	-0.3%	859	3.8%	477	1 5%	63,943	
2013	20.1	0.4%	7 5	0.9%	9.5	0.7%	1 43	-0.5%	887	3 3%	485	1 6%	64,390	
2014	20 2	0.4%	7 6	0.9%	9.5	0.6%	1 43	-0.6%	916	3 2%	492	1 5%	64,771	
2015	20 2	0.2%	7 6	0.6%	9.5	0.2%	1 41	-0.9%	941	2 8%	497	1.1%	65,106	
2016	20.3	0.2%	7.7	0.5%	9.5	-0.1%	1 40	-1.1%	965	2 6%	503	1 1%	65,476	
2017	20 3	0 3%	7 7	0.5%	9 5	-0.2%	1 38	-1.2%	991	2.7%	508	1 1%	65,842	
2018	20.4	0.3%	7 8	0.5%	9.5	-0.1%	1 36	-1.2%	1,015	2 4%	514	1 1%	66,244	
2019	20 4	0.3%	7 8	0.5%	9 5	-0.1%	1 35	-1 2%	1,037	2 1%	520	1 2%	66,678	
2020	20 5	0.4%	7 8	0.6%	9.5	-0.1%	1 33	-1.3%	1,058	2 0%	527	1 3%	67,179	
2021	20 6	0.4%	7.9	0.5%	9.5	-0.2%	1 31	-1.4%	1,078	1.9%	534	1.3%	67,715	
2022	20 7	0.4%	7 9	0.5%	9.4	-0.3%	1 29	-1 5%	1,098	1 9%	541	1 3%	68,302	
2023	20 8	0.4%	8 0	0.4%	9.4	-0 2%	1.28	-1.4%	1,120	2 0%	548	1 3%	68,931	
2024	20 8	0.4%	8 0	0.4%	9 4	-0.2%	1 26	-1 5%	1,139	1 8%	556	1 3%	69,577	
2025	20 9	0.4%	8 0	0.3%	9.4	-0.2%	1 24	-1.5%	1,159	1 7%	563	1.3%	70,244	
Average Percent Change														
1995-2005		0 6%		0.6%		1 3%		-1 5%		5 3%		2 0%		
2006-2015		0 5%		0.9%		0.8%		-0 3%		3 9%		1 3%		
2016-2025		0 3%		0.5%		-0 2%		-1 3%		2 0%		1 3%		

N \013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ

34169

Table D - 7

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Kasson (Dodge County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incor Household ($	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	16.2	-	5 7	-	2 8	-	0 68	-	152	-	317	-	55,287	
1993	16.4	1 4%	5.8	1 7%	2.9	4 5%	0 82	20 4%	151	-0 8%	302	-4 8%	51,751	
1994	16.5	0 6%	5 9	0 9%	4.2	42.0%	0 94	13 9%	212	40.1%	336	11 1%	56,991	
1995	16 7	0 8%	6.0	1 1%	4.2	1.7%	0.93	-0 4%	216	1.8%	331	-1.3%	55,608	
1996	16 8	0 7%	6 0	1 0%	3 2	-24.3%	0.94	0 3%	181	-15.9%	356	7 4%	59,102	
1997	17 0	1 5%	6 1	1 7%	4 4	35 9%	0.90	-4 0%	255	40.5%	373	4 8%	60,858	
1998	17 1	0.6%	6 2	0 8%	4 5	2.8%	0.99	10.5%	273	7.2%	406	8 9%	65,716	
1999	17 4	1 4%	6.3	1.7%	4 8	6.1%	1.09	9.9%	282	3.2%	416	2 6%	66,327	
2000	17.9	2.7%	6 5	3.0%	5 0	4 4%	1.15	5.5%	306	8 5%	430	3 2%	66,453	
2001	18 2	1 7%	6 6	1 8%	5 1	1 9%	1 04	-9.8%	304	-0 7%	445	3.6%	67,637	
2002	18 6	2.4%	6.7	2 5%	5 1	0.8%	1 04	-0 2%	319	4 9%	471	5.9%	69,893	
2003	18 9	1 9%	6.9	1 9%	5 0	-2.3%	1 05	1 2%	331	3 9%	478	-1.3%	69,467	
2004	19.4	2 2%	7.0	2 2%	5 3	6 1%	1 26	19 7%	368	11 2%	501	5 0%	71,334	
2005	19.6	1 2%	7 1	1 3%	5 4	1 5%	1 28	1.6%	389	5.6%	509	1 5%	71,458	
2006	20.0	2 0%	7 3	2 4%	5.5	1 8%	1.30	2.1%	397	2.1%	516	1 4%	70,760	
2007	20 3	1 8%	7.4	2 2%	5 6	2.1%	1.32	1 5%	409	3.1%	525	1.8%	70,500	
2008	20.7	1.6%	7 6	2.0%	5 7	1.5%	1.34	1 0%	418	2.1%	532	1 3%	70,031	
2009	21 0	1.5%	7 7	1.9%	5 8	2 0%	1.36	1.6%	427	2 2%	541	1 7%	69,877	
2010	21 3	1.4%	7 9	1 8%	5 9	1 9%	1.38	1.5%	436	2 0%	548	1.4%	69,564	
2011	21.6	1 3%	8 0	1 8%	6.0	1 8%	1 40	1.2%	444	1 9%	556	1 5%	69,399	
2012	21.8	1 3%	8.2	1 8%	6 1	2.0%	1 41	1 2%	453	2 1%	565	1.6%	69,255	
2013	22 1	1 2%	8 3	1 7%	6 2	1 9%	1 43	1.1%	462	1.9%	573	1 4%	69,004	
2014	22.4	1.2%	8.4	1 6%	6 3	1.8%	1.45	1.2%	471	2.0%	580	1 2%	68,759	
2015	22 6	1.1%	8 6	1 5%	6 4	1.8%	1.47	1.3%	481	2.1%	587	1.2%	68,558	
2016	22.9	1 0%	8 7	1 3%	6.6	1 7%	1.49	1.5%	492	2 2%	594	1 1%	68,431	
2017	23.1	1 0%	8 8	1 3%	6.7	1 7%	1 51	1.5%	503	2 3%	600	1.1%	68,308	
2018	23.3	1 0%	8.9	1 3%	6 8	1.8%	1 53	1.4%	515	2 4%	607	1.1%	68,168	
2019	23 6	1 0%	9 0	1 3%	6 9	1.8%	1 55	1 3%	528	2 4%	613	1 0%	67,989	
2020	23 8	1 0%	9 1	1.2%	7 0	1 8%	1 57	1 2%	540	2 4%	619	1 0%	67,838	
2021	24 0	1.0%	9 2	1.2%	7 2	1 8%	1.59	1.2%	554	2.5%	625	1 0%	67,727	
2022	24.3	1.0%	9 3	1.1%	7 3	1.6%	1 61	1 2%	568	2.6%	631	0 9%	67,653	
2023	24.5	1 0%	9 4	1.0%	7 4	1 6%	1.62	1 0%	583	2.6%	637	0 9%	67,595	
2024	24.8	1 0%	9.5	0 9%	7.5	1 6%	1.64	0 9%	598	2 7%	642	0.9%	67,563	
2025	25.0	1 0%	9.6	0 9%	7 6	1 5%	1 65	0 8%	614	2 7%	648	0.9%	67,555	
Average Percent Change														
1995-2005		1.6%		1 8%		2 4%		3 2%		6.1%		4 4%		
2006-2015		1 4%		1.8%		1.9%		1 3%		2.2%		1 5%		
2016-2025		1.0%		1 1%		1.7%		1.2%		2 5%		1 0%		

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

3470

Table D - 8

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Kenyon (Goodhue County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inco Household ($
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	41 4	-	15 6	-	19 1	-	4 19	-	988	-	918	-	58,993
1993	42.0	1 5%	15 8	1 9%	19.9	4.0%	4.43	5 7%	978	-1 0%	909	-1 0%	57,352
1994	42.3	0.6%	16 0	0 9%	19 8	-0 7%	4 51	1 7%	995	1.7%	955	5 1%	59,767
1995	42.6	0.7%	16.1	1 0%	20 1	1 7%	4 65	3 1%	1,027	3 2%	961	0 6%	59,545
1996	42.8	0 6%	16 3	0 9%	20 7	3 1%	4 79	3 0%	1,099	6.9%	1,018	5 9%	62,500
1997	43 3	1 2%	16 5	1.5%	20.9	0.7%	5 20	8 7%	1,177	7.1%	1,046	2 7%	63,276
1998	43.8	1 0%	16 8	1 3%	21 6	3 6%	5 11	-1 8%	1,252	6.4%	1,098	4.9%	65,534
1999	44.0	0.4%	16 9	0 7%	21 1	-2.5%	4 82	-5.7%	1,214	-3 0%	1,102	0.4%	65,313
2000	44 2	0 4%	17 0	0 7%	21 5	1 9%	4 83	0.2%	1,245	2 5%	1,112	0 9%	65,425
2001	44 6	1.1%	17 2	1 1%	21 7	1.0%	4 63	-4 1%	1,264	1.6%	1,132	1.8%	65,842
2002	45.0	0.8%	17.3	0.8%	21 2	-2.3%	4 43	-4.2%	1,319	4 3%	1,164	2.8%	67,151
2003	45 2	0 5%	17 4	0.5%	20 9	-1.5%	4 14	-6 6%	1,337	1.3%	1,168	0.4%	67,050
2004	45 5	0 7%	17 6	0 8%	22 1	6.1%	4.05	-2 1%	1,417	6 0%	1,198	2.6%	68,255
2005	45 6	0.2%	17.6	0.3%	22 5	1.6%	4 11.	1 5%	1,513	6 8%	1,220	1.8%	69,286
2006	45.9	0.7%	17.8	1 0%	23 1	2.8%	4 21	2 5%	1,559	3.0%	1,249	2.4%	70,259
2007	46 2	0 7%	18 0	1.0%	23 5	1.7%	4 24	0 5%	1,597	2.5%	1,274	2.0%	70,933
2008	46 5	0 7%	18 1	1.0%	23.8	1.1%	4 23	0 0%	1,649	3 2%	1,299	2 0%	71,588
2009	46.8	0.6%	18 3	1 0%	24 1	1.3%	4 25	0 4%	1,697	3 0%	1,321	1.7%	72,100
2010	47 1	0 6%	18 5	1 1%	24 3	0.8%	4.25	0.0%	1,738	2 4%	1,346	1.9%	72,687
2011	47.4	0.6%	18 7	1.1%	24 5	0.9%	4 24	-0 1%	1,779	2 4%	1,371	1.9%	73,255
2012	47 8	0 6%	18 9	1.1%	24 8	1.1%	4.24	-0.1%	1,819	2.2%	1,397	1 9%	73,813
2013	48 1	0 6%	19 1	1 1%	25 0	0.9%	4 23	-0.2%	1,854	1.9%	1,422	1 8%	74,371
2014	48 3	0 6%	19 3	1.0%	25.2	0.8%	4 22	-0 3%	1,888	1 8%	1,450	2.0%	75,072
2015	48 6	0 6%	19 5	1 0%	25 3	0.7%	4 21	-0 3%	1,920	1 7%	1,478	1.9%	75,785
2016	48.9	0.6%	19 7	0 9%	25 4	0.3%	4 19	-0 5%	1,950	1 6%	1,506	1 9%	76,533
2017	49 2	0 6%	19 8	0 8%	25 5	0.2%	4 16	-0.6%	1,984	1.7%	1,534	1.8%	77,284
2018	49 5	0 6%	20 0	0 8%	25.5	0.2%	4 13	-0 7%	2,012	1 4%	1,562	1 8%	78,062
2019	49 8	0 6%	20 2	0.8%	25 6	0.2%	4 10	-0 8%	2,035	1 1%	1,590	1.8%	78,859
2020	50 1	0.6%	20 3	0 8%	25.6	0.2%	4 06	-0 9%	2,057	1 1%	1,619	1.8%	79,705
2021	50 4	0 6%	20 5	0 7%	25 6	0.1%	4.03	-1.0%	2,077	1.0%	1,650	1.9%	80,599
2022	50.7	0 6%	20.6	0 7%	25.6	-0.1%	3 98	-1 0%	2,100	1 1%	1,680	1.9%	81,556
2023	51 0	0 6%	20 7	0 6%	25 6	0.0%	3 94	-1.0%	2,126	1 2%	1,711	1.9%	82,574
2024	51 3	0 6%	20 8	.0 6%	25 6	0 1%	3 90	-1 1%	2,149	1.1%	1,743	1.9%	83,640
2025	51 5	0 6%	20 9	0 5%	25.6	0.0%	3 86	-1 1%	2,173	1.1%	1,775	1.8%	84,739
Average Percent Change													
1995-2005		0 7%		0 9%		1 1%		-1 2%		4 0%		2.4%	
2006-2015		0 6%		1 0%		1 0%		0 0%		2 3%		1.9%	
2016-2025		0 6%		0 7%		0 1%		-0 9%		1 2%		1 8%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ

3471

Table D - 9

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Mountain Lake (Cottonwood County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inco Household ($
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	12.6	-	5 0	-	4 8	-	0 75	-	227	-	237	-	47,211
1993	12 6	0.1%	5 0	0 3%	5 1	6 9%	1.01	35 4%	235	3.3%	202	-15 0%	40,000
1994	12 6	0 1%	5 1	0 2%	4 8	-5.1%	1 05	4.3%	235	0.3%	253	25 5%	50,076
1995	12.6	-0.3%	5 0	-0 2%	4.7	-3.1%	0 75	-28.5%	232	-1 4%	233	-8 0%	46,159
1996	12.5	-0.7%	5 0	-0 6%	4.7	1.4%	0.69	-8.5%	249	7.2%	264	13 4%	52,638
1997	12.4	-1.0%	5.0	-0 8%	4.9	2 9%	0.75	9.5%	278	11 6%	262	-1 0%	52,567
1998	12 3	-0.5%	5.0	-0.4%	4 4	-9 5%	0.65	-14 3%	254	-8 7%	271	3 4%	54,606
1999	12 3	-0 3%	4 9	-0 2%	4.6	3 5%	0.80	23.2%	254	0.1%	257	-5.0%	51,955
2000	12 1	-0 9%	4 9	-0.8%	4 6	0 4%	0 71	-10.6%	260	2 4%	257	0 0%	52,390
2001	12 1	-0 7%	4.9	-0.6%	4 8	4 6%	0 93	30.6%	278	6 7%	250	-2 8%	51,229
2002	12 0	-0 4%	4 9	-0.3%	4 8	0 6%	0 86	-7.9%	291	4 6%	253	1.3%	52,036
2003	11 9	-0.5%	4 8	-0 4%	5 1	5 8%	1 37	59 3%	336	15 4%	266	5 2%	55,000
2004	12 0	0 0%	4 8	0 1%	5 1	0 2%	1 40	2.6%	339	0 9%	276	3.8%	57,042
2005	11 8	-1.0%	4 8	-0 9%	5 1	0.3%	1 40	0 2%	356	4.9%	278	0.6%	57,916
2006	11.8	-0.5%	4 8	-0 2%	5.2	1.6%	1 42	1.3%	364	2.3%	283	2 0%	59,192
2007	11.7	-0.4%	4 8	-0.1%	5.3	0 6%	1.42	-0 4%	372	2 4%	286	0 9%	59,753
2008	11 7	-0 5%	4 8	-0 1%	5.3	0 0%	1.40	-1 1%	383	3 0%	289	0 9%	60,387
2009	11 6	-0 5%	4 8	-0.1%	5 3	0.1%	1 39	-0.7%	394	2 7%	291	0 7%	60,901
2010	11 6	-0 5%	4 8	-0.1%	5 2	-0 4%	1 38	-1.1%	402	2 2%	294	1.3%	61,774
2011	11 5	-0.5%	4 8	-0 1%	5 2	-0 2%	1.36	-1.1%	411	2 1%	298	1 3%	62,644
2012	11 4	-0.5%	4 8	-0 1%	5 2	-0 1%	1 35	-1.1%	419	2.0%	303	1 7%	63,731
2013	11.4	-0.5%	4 8	0 0%	5 2	-0 1%	1 33	-1 2%	426	1.7%	309	1 8%	64,921
2014	11 3	-0.5%	4.7	-0 1%	5.2	-0.3%	1 32	-1 2%	433	1 5%	313	1 5%	65,947
2015	11 3	-0 5%	4 7	-0 1%	5.2	-0 4%	1.30	-1 3%	439	1 4%	317	1.3%	66,906
2016	11 2	-0.4%	4 7	-0 1%	5 2	-0 7%	1 28	-1.5%	444	1 2%	322	1 4%	67,934
2017	11 2	-0.4%	4 7	-0 1%	5 1	-0 8%	1 26	-1.5%	450	1 4%	326	1 4%	68,956
2018	11 2	-0.4%	4 7	-0.2%	5 1	-0 7%	1.24	-1.5%	455	1.1%	331	1 4%	70,047
2019	11 1	-0.4%	4 7	-0 2%	5 0	-0 7%	1 22	-1 6%	459	0.8%	336	1 5%	71,197
2020	11 1	-0.4%	4.7	-0 2%	5.0	-0.8%	1 20	-1.7%	462	0.7%	341	1 5%	72,436
2021	11 0	-0 3%	4 7	-0.2%	5 0	-0.9%	1 18	-1.8%	465	0 6%	346	1 6%	73,735
2022	11 0	-0 3%	4.7	-0 3%	4.9	-1 0%	1 16	-1 9%	468	0 7%	352	1.6%	75,107
2023	11 0	-0 3%	4.7	-0 3%	4.9	-0.9%	1 14	-1.8%	471	0 7%	357	1 6%	76,528
2024	10 9	-0.3%	4 7	-0.3%	4 8	-0 8%	1 11	-1.8%	474	0.6%	363	1 5%	77,973
2025	10 9	-0 3%	4 6	-0 4%	4 8	-0 9%	1 09	-1 9%	477	0 6%	368	1 6%	79,461
Average Percent Change													
1995-2005		-0 6%		-0 5%		0.9%		6 4%		4 3%		1.8%	
2006-2015		-0 5%		-0.1%		-0 1%		-1.0%		2 1%		1.3%	
2016-2025		-0 4%		-0.2%		-0 8%		-1.7%		0 8%		1 5%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ

3472

Table D - 10

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Sleepy Eye (Brown County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incom Household ($1	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	27 1	-	10 4	-	12 6	-	3 71	-	671	-	554	-	53,104	
1993	27 2	0.5%	10 5	0.8%	12 9	2.6%	3.90	5 2%	659	-1 7%	514	-7 1%	48,908	
1994	27 2	-0.3%	10 5	0 0%	12 9	-0.2%	3.95	1 4%	669	1 5%	565	9 9%	53,727	
1995	27 1	-0 1%	10 5	0 2%	13 2	2 4%	3.93	-0 5%	694	3.7%	565	-0 1%	53,596	
1996	27.4	0.8%	10 7	1 1%	13.8	5 1%	4 12	4.8%	749	7 9%	613	8 5%	57,513	
1997	27.3	-0 3%	10 7	0 0%	13.9	0 6%	4 12	0 1%	819	9.4%	596	-2 7%	55,979	
1998	27.1	-0 6%	10 6	-0 4%	13.8	-0 8%	3.89	-5 7%	846	3 2%	620	3.9%	58,374	
1999	27.0	-0.2%	10 6	0 0%	13 8	0 1%	3 79	-2.5%	860	1.7%	617	-0.4%	58,116	
2000	26 9	-0.6%	10 6	-0 3%	14.1	2 0%	3 98	5 0%	893	3 9%	626	1 5%	59,194	
2001	26 9	0.3%	10 6	0.3%	14 0	-0 6%	3.82	-4.1%	888	-0.6%	629	0.4%	59,224	
2002	26.9	-0 2%	10 6	-0 1%	13 8	-1.5%	3 51	-8.2%	908	2 2%	630	0.2%	59,422	
2003	26 7	-0.6%	10 6	-0 5%	13 6	-1.5%	3.39	-3 3%	942	3 7%	641	1 7%	60,762	
2004	26 7	-0 3%	10.5	-0 3%	14 4	5.9%	3.57	5 4%	1,027	9 1%	655	2.2%	62,259	
2005	26.5	-0.4%	10 5	-0 4%	14 5	0 8%	3.60	0 6%	1,049	2.2%	664	1 3%	63,304	
2006	26.5	-0 1%	10 5	0 2%	14.8	2.0%	3 65	1 6%	1,079	2.8%	675	1 8%	64,305	
2007	26.5	-0.1%	10 5	0 2%	14.9	0 9%	3 64	-0 2%	1,108	2 6%	683	1 1%	64,897	
2008	26.4	-0 2%	10 5	0 2%	15 0	0.3%	3 62	-0 8%	1,144	3 3%	693	1 5%	65,721	
2009	26.4	-0 2%	10 6	0 2%	15.0	0 4%	3 60	-0 4%	1,179	3 0%	701	1 2%	66,397	
2010	26 3	-0.2%	10 6	0 2%	15 0	0 0%	3 57	-0.9%	1,209	2 5%	711	1 4%	67,173	
2011	26.3	-0 2%	10.6	0 2%	15 0	0.1%	3.54	-0.9%	1,238	2 4%	720	1 2%	67,846	
2012	26 2	-0.2%	10 6	0.2%	15 1	0.2%	3.51	-0 9%	1,266	2.2%	729	1 3%	68,568	
2013	26 2	-0 2%	10 6	0.2%	15 1	0.1%	3 47	-1 0%	1,290	1 9%	739	1.5%	69,424	
2014	26.1	-0.2%	10 7	0 2%	15.1	0 0%	3.44	-1 0%	1,314	1.8%	750	1 4%	70,289	
2015	26.1	-0.2%	10.7	0 2%	15.1	-0 1%	3 40	-1 1%	1,336	1 7%	760	1 4%	71,142	
2016	26.0	-0 2%	10 7	0 1%	15.0	-0 5%	3 36	-1.3%	1,357	1 6%	771	1 4%	72,036	
2017	26 0	-0 2%	10 7	0 1%	14.9	-0 6%	3 31	-1.4%	1,380	1 7%	781	1.3%	72,946	
2018	25.9	-0 2%	10 7	0 0%	14 8	-0.5%	3.26	-1 4%	1,399	1 4%	791	1 4%	73,907	
2019	25 9	-0 2%	10 7	0 1%	14 8	-0 5%	3 21	-1 5%	1,414	1 0%	802	1.4%	74,890	
2020	25 8	-0 1%	10 7	0 0%	14 7	-0.6%	3.16	-1 6%	1,427	1 0%	814	1 4%	75,924	
2021	25 8	-0 1%	10.7	0.0%	14 6	-0.6%	3 11	-1 7%	1,439	0.8%	825	1 4%	77,006	
2022	25 8	-0.1%	10 7	-0 1%	14 5	-0.8%	3 05	-1 7%	1,453	1 0%	837	1 4%	78,159	
2023	25 7	-0.1%	10 7	-0.1%	14.4	-0 7%	3 00	-1 7%	1,468	1 0%	849	1 4%	79,377	
2024	25 7	-0 1%	10 7	-0 1%	14 3	-0 7%	2 95	-1.8%	1,481	0 8%	862	1 4%	80,634	
2025	25 7	-0 1%	10 7	-0 2%	14 2	-0 7%	2 90	-1 8%	1,493	0 8%	874	1 4%	81,929	
Average Percent Change														
1995-2005		-0 2%		0 0%		1.0%		-0 9%		4 2%		1 6%		
2006-2015		-0 2%		0 2%		0 2%		-0.8%		2 4%		1 3%		
2016-2025		-0 1%		0 0%		-0 6%		-1 6%		1 1%		1 4%		

Table D - 11

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Springfield (Brown County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inco Household (
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	27.1	-	10 4	-	12 6	-	3.71	-	671	-	554	-	53,104
1993	27.2	0 5%	10 5	0 8%	12 9	2 6%	3.90	5.2%	659	-1.7%	514	-7.1%	48,908
1994	27 2	-0.3%	10 5	0 0%	12.9	-0.2%	3.95	1.4%	669	1 5%	565	9 9%	53,727
1995	27 1	-0.1%	10 5	0 2%	13 2	2 4%	3.93	-0.5%	694	3 7%	565	-0.1%	53,596
1996	27 4	0 8%	10.7	1 1%	13 8	5 1%	4.12	4.8%	749	7.9%	613	8.5%	57,513
1997	27.3	-0 3%	10 7	0 0%	13.9	0 6%	4.12	0.1%	819	9.4%	596	-2.7%	55,979
1998	27 1	-0.6%	10.6	-0.4%	13.8	-0 8%	3 89	-5.7%	846	3.2%	620	3.9%	58,374
1999	27 0	-0 2%	10 6	0.0%	13 8	0 1%	3 79	-2 5%	860	1.7%	617	-0.4%	58,116
2000	26 9	-0 6%	10 6	-0 3%	14 1	2.0%	3.98	5.0%	893	3.9%	626	1.5%	59,194
2001	26 9	0 3%	10 6	0 3%	14 0	-0.6%	3 82	-4 1%	888	-0 6%	629	0 4%	59,224
2002	26 9	-0 2%	10 6	-0 1%	13 8	-1.5%	3.51	-8 2%	908	2.2%	630	0.2%	59,422
2003	26.7	-0.6%	10 6	-0 5%	13.6	-1.5%	3.39	-3 3%	942	3.7%	641	1.7%	60,762
2004	26 7	-0 3%	10.5	-0.3%	14.4	5.9%	3.57	5.4%	1,027	9.1%	655	2.2%	62,259
2005	26 5	-0 4%	10 5	-0 4%	14 5	0.8%	3 60	0 6%	1,049	2.2%	664	1.3%	63,304
2006	26.5	-0 1%	10 5	0.2%	14 8	2.0%	3 65	1.6%	1,079	2.8%	675	1.8%	64,305
2007	26 5	-0 1%	10 5	0.2%	14 9	0 9%	3.64	-0 2%	1,108	2.6%	683	1.1%	64,897
2008	26 4	-0 2%	10 5	0 2%	15 0	0 3%	3.62	-0 8%	1,144	3.3%	693	1.5%	65,721
2009	26 4	-0 2%	10 6	0 2%	15 0	0 4%	3 60	-0 4%	1,179	3.0%	701	1.2%	66,397
2010	26 3	-0 2%	10 6	0 2%	15 0	0 0%	3.57	-0 9%	1,209	2 5%	711	1 4%	67,173
2011	26 3	-0 2%	10 6	0 2%	15 0	0 1%	3.54	-0 9%	1,238	2.4%	720	1 2%	67,846
2012	26 2	-0.2%	10 6	0 2%	15 1	0.2%	3.51	-0.9%	1,266	2 2%	729	1 3%	68,568
2013	26.2	-0.2%	10 6	0 2%	15 1	0 1%	3.47	-1.0%	1,290	1 9%	739	1 5%	69,424
2014	26.1	-0.2%	10 7	0 2%	15 1	0 0%	3 44	-1 0%	1,314	1 8%	750	1 4%	70,289
2015	26.1	-0.2%	10 7	0 2%	15 1	-0 1%	3 40	-1 1%	1,336	1 7%	760	1 4%	71,142
2016	26.0	-0.2%	10 7	0.1%	15.0	-0.5%	3.36	-1.3%	1,357	1.6%	771	1 4%	72,036
2017	26.0	-0.2%	10 7	0 1%	14 9	-0 6%	3 31	-1.4%	1,380	1 7%	781	1 3%	72,946
2018	25.9	-0 2%	10 7	0 0%	14.8	-0 5%	3 26	-1.4%	1,399	1 4%	791	1 4%	73,907
2019	25.9	-0 2%	10 7	0 1%	14.8	-0 5%	3 21	-1.5%	1,414	1 0%	802	1 4%	74,890
2020	25.8	-0.1%	10 7	0.0%	14.7	-0 6%	3 16	-1.6%	1,427	1.0%	814	1 4%	75,924
2021	25.8	-0 1%	10 7	0 0%	14.6	-0 6%	3 11	-1 7%	1,439	0 8%	825	1 4%	77,006
2022	25 8	-0 1%	10 7	-0 1%	14 5	-0 8%	3 05	-1 7%	1,453	1 0%	837	1 4%	78,159
2023	25 7	-0 1%	10.7	-0 1%	14.4	-0 7%	3 00	-1.7%	1,468	1 0%	849	1 4%	79,377
2024	25 7	-0 1%	10 7	-0.1%	14.3	-0 7%	2 95	-1 8%	1,481	0.8%	862	1 4%	80,634
2025	25.7	-0 1%	10.7	-0.2%	14 2	-0 7%	2 90	-1 8%	1,493	0.8%	874	1 4%	81,929
Average Percent Change													
1995-2005		-0.2%		0.0%		1.0%		-0 9%		4 2%		1.6%	
2006-2015		-0 2%		0 2%		0.2%		-0 8%		2.4%		1 3%	
2016-2025		-0 1%		0 0%		-0 6%		-1 6%		1.1%		1 4%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormalModify xls JPN/RXZ

3474

Table D - 12

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Willmar (Kandiyohi County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Incor Household ($	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	%
1992	39 7	-	14 8	-	17.7	-	2 70	-	901	-	773	-	52,307	
1993	40 2	1.4%	15 1	1.8%	18.4	3 6%	2 94	9.0%	925	2.6%	748	-3 3%	49,674	
1994	40 7	1 1%	15.3	1 6%	18 6	1.1%	2 99	1 7%	969	4.8%	825	10 2%	53,906	
1995	41.0	0 9%	15.5	1 4%	19 3	3 9%	3 22	7 7%	1,011	4 3%	840	1 9%	54,183	
1996	41.4	0.9%	15 7	1.3%	20 2	4.8%	3 29	2 0%	1,087	7 6%	917	9 2%	58,374	
1997	41 4	-0 1%	15.8	0 4%	20 5	1 2%	3 35	1.8%	1,185	9 0%	922	0 4%	58,414	
1998	41 3	-0.2%	15 8	0 3%	20 6	0 8%	3 36	0.3%	1,231	3 8%	982	6 5%	62,046	
1999	41 3	0 1%	15 9	0 5%	20 5	-0 4%	3.33	-0 8%	1,229	-0 2%	999	1 8%	62,817	
2000	41 2	-0 4%	15 9	0 1%	20 9	1 8%	3.14	-5 6%	1,256	2.2%	1,004	0.5%	63,050	
2001	41 1	0 0%	15.9	0 0%	21 0	0 5%	3.06	-2 7%	1,254	-0.2%	1,003	-0 1%	62,980	
2002	40.9	-0 7%	15 8	-0 6%	21.1	0 6%	2.98	-2 5%	1,307	4.2%	1,015	1 2%	64,164	
2003	41 1	0 7%	15.9	0 8%	21.3	0.7%	3 07	2.8%	1,330	1.8%	1,022	0.7%	64,085	
2004	41 2	0 1%	16 0	0 1%	22 6	6.0%	3 17	3.5%	1,407	5.8%	1,054	3 1%	65,986	
2005	41.2	0 1%	16 0	0 1%	22 8	1 3%	3 21	1 2%	1,473	4 6%	1,080	2 5%	67,534	
2006	41.4	0 4%	16 1	0 7%	23 4	2.5%	3 28	2 1%	1,515	2.9%	1,111	2 9%	69,031	
2007	41.5	0 3%	16 2	0.7%	23 7	1 3%	3 28	0 1%	1,552	2 4%	1,136	2.2%	70,105	
2008	41 6	0 3%	16 3	0 6%	23 9	0 7%	3 27	-0.5%	1,599	3 0%	1,162	2 3%	71,281	
2009	41 7	0.2%	16 4	0 6%	24 1	0 8%	3 26	-0.1%	1,641	2 7%	1,184	1 9%	72,181	
2010	41 8	0 2%	16 5	0 6%	24 2	0 3%	3 24	-0 6%	1,675	2 1%	1,205	1 8%	73,078	
2011	41.8	0 1%	16 6	0.5%	24 3	0 4%	3.22	-0 7%	1,708	2 0%	1,226	1.8%	73,964	
2012	41.9	0 1%	16 7	0.5%	24 4	0.5%	3 20	-0 7%	1,738	1 8%	1,249	1 8%	74,934	
2013	41.9	0 1%	16 8	0 5%	24.5	0.4%	3 17	-0 9%	1,765	1.5%	1,273	1 9%	75,961	
2014	41 9	0 1%	16 8	0 5%	24 5	0 3%	3.14	-0 8%	1,791	1 4%	1,300	2 1%	77,189	
2015	42 0	0 1%	16 9	0 5%	24.6	0 1%	3 11	-0 9%	1,815	1 4%	1,326	2.0%	78,404	
2016	42 0	0 1%	17 0	0 4%	24.5	-0.2%	3 08	-1.0%	1,838	1 3%	1,353	2.0%	79,650	
2017	42 1	0.1%	17 1	0 4%	24 4	-0 3%	3 05	-1 1%	1,865	1 5%	1,379	2.0%	80,896	
2018	42.2	0 2%	17 1	0.4%	24.4	-0 2%	3 01	-1 1%	1,888	1 2%	1,407	2.0%	82,179	
2019	42.2	0 2%	17.2	0 4%	24.3	-0.2%	2 97	-1 3%	1,904	0 9%	1,435	2 0%	83,482	
2020	42.3	0 2%	17 2	0.3%	24.3	-0.3%	2.93	-1.4%	1,920	0.8%	1,463	2.0%	84,850	
2021	42 4	0.2%	17 3	0 3%	24.2	-0.3%	2 89	-1.5%	1,934	0 7%	1,493	2 0%	86,293	
2022	42.4	0 2%	17 3	0 2%	24 1	-0 5%	2.85	-1 5%	1,951	0 9%	1,523	2 0%	87,830	
2023	42 5	0 1%	17 4	0 2%	24 0	-0 4%	2 80	-1 5%	1,969	1 0%	1,554	2 0%	89,451	
2024	42 6	0 1%	17 4	0 1%	23 9	-0 4%	2 76	-1 6%	1,985	0 8%	1,585	2 0%	91,140	
2025	42 6	0 1%	17 4	0.1%	23 8	-0.4%	2.71	-1 6%	2,001	0.8%	1,616	2 0%	92,875	
Average Percent Change														
1995-2005		0 0%		0 3%		1 7%		0 0%		3 8%		2 5%		
2006-2015		0 2%		0 6%		0 5%		-0 6%		2 0%		2.0%		
2016-2025		0 2%		0 3%		-0 3%		-1 4%		0 9%		2.0%		

N:\013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ

3475

Table D - 13

Historical and Projected Economic Trends of the Big Stone II Member Counties

(Source: Economy.com)

City of Windom (Cottonwood County)

Mid-range Economic Case	Population (Ths.)		Households (Ths.)		Nonfarm Employment (Ths.)		Manufacturing Employment (Ths.)		Gross Domestic Product ($M; $1996)		Personal Income ($M; $1996)		Personal Inco Household ($
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value
1992	12 6	-	5 0	-	4.8	-	0.75	-	227	-	237	-	47,211
1993	12 6	0 1%	5 0	0.3%	5.1	6.9%	1.01	35.4%	235	3 3%	202	-15 0%	40,000
1994	12 6	0.1%	5 1	0 2%	4.8	-5.1%	1.05	4.3%	235	0.3%	253	25.5%	50,076
1995	12.6	-0 3%	5.0	-0 2%	4.7	-3 1%	0.75	-28 5%	232	-1 4%	233	-8 0%	46,159
1996	12.5	-0 7%	5.0	-0.6%	4.7	1 4%	0.69	-8.5%	249	7.2%	264	13 4%	52,638
1997	12.4	-1 0%	5 0	-0 8%	4 9	2.9%	0.75	9 5%	278	11 6%	262	-1 0%	52,567
1998	12.3	-0.5%	5.0	-0 4%	4 4	-9 5%	0 65	-14.3%	254	-8.7%	271	3.4%	54,606
1999	12.3	-0.3%	4.9	-0 2%	4 6	3 5%	0.80	23 2%	254	0 1%	257	-5.0%	51,955
2000	12 1	-0.9%	4 9	-0 8%	4.6	0 4%	0 71	-10.6%	260	2 4%	257	0.0%	52,390
2001	12 1	-0 7%	4 9	-0 6%	4.8	4 6%	0.93	30.6%	278	6.7%	250	-2 8%	51,229
2002	12 0	-0 4%	4 9	-0.3%	4.8	0.6%	0 86	-7 9%	291	4.6%	253	1.3%	52,036
2003	11.9	-0 5%	4 8	-0.4%	5 1	5.8%	1 37	59.3%	336	15.4%	266	5 2%	55,000
2004	12.0	0.0%	4.8	0.1%	5 1	0.2%	1 40	2.6%	339	0 9%	276	3 8%	57,042
2005	11 8	-1 0%	4 8	-0.9%	5 1	0 3%	1 40	0 2%	356	4 9%	278	0 6%	57,916
2006	11.8	-0.5%	4 8	-0 2%	5.2	1 6%	1 42	1 3%	364	2 3%	283	2.0%	59,192
2007	11.7	-0 4%	4 8	-0 1%	5.3	0 6%	1 42	-0.4%	372	2 4%	286	0 9%	59,753
2008	11.7	-0 5%	4 8	-0 1%	5.3	0 0%	1.40	-1 1%	383	3 0%	289	0 9%	60,387
2009	11.6	-0 5%	4 8	-0 1%	5 3	0 1%	1 39	-0 7%	394	2.7%	291	0 7%	60,901
2010	11.6	-0 5%	4.8	-0 1%	5 2	-0.4%	1 38	-1 1%	402	2.2%	294	1 3%	61,774
2011	11 5	-0.5%	4 8	-0.1%	5.2	-0 2%	1.36	-1 1%	411	2 1%	298	1 3%	62,644
2012	11.4	-0 5%	4 8	-0 1%	5.2	-0 1%	1 35	-1.1%	419	2 0%	303	1.7%	63,731
2013	11.4	-0 5%	4 8	0 0%	5.2	-0 1%	1.33	-1 2%	426	1 7%	309	1 8%	64,921
2014	11.3	-0.5%	4.7	-0.1%	5 2	-0.3%	1 32	-1.2%	433	1 5%	313	1 5%	65,947
2015	11 3	-0 5%	4.7	-0 1%	5.2	-0.4%	1 30	-1.3%	439	1.4%	317	1.3%	66,906
2016	11 2	-0.4%	4.7	-0 1%	5.2	-0 7%	1 28	-1.5%	444	1 2%	322	1 4%	67,934
2017	11 2	-0.4%	4 7	-0 1%	5.1	-0 8%	1 26	-1 5%	450	1 4%	326	1.4%	68,956
2018	11.2	-0 4%	4 7	-0 2%	5.1	-0 7%	1 24	-1 5%	455	1 1%	331	1.4%	70,047
2019	11 1	-0.4%	4 7	-0 2%	5.0	-0.7%	1.22	-1.6%	459	0 8%	336	1.5%	71,197
2020	11.1	-0.4%	4.7	-0 2%	5.0	-0.8%	1.20	-1.7%	462	0 7%	341	1 5%	72,436
2021	11 0	-0.3%	4 7	-0 2%	5.0	-0.9%	1 18	-1.8%	465	0 6%	346	1 6%	73,735
2022	11.0	-0.3%	4 7	-0 3%	4.9	-1 0%	1 16	-1.9%	468	0 7%	352	1.6%	75,107
2023	11.0	-0 3%	4 7	-0 3%	4 9	-0.9%	1.14	-1 8%	471	0 7%	357	1.6%	76,528
2024	10 9	-0 3%	4 7	-0 3%	4 8	-0 8%	1.11	-1 8%	474	0 6%	363	1 5%	77,973
2025	10 9	-0 3%	4.6	-0.4%	4 8	-0.9%	1 09	-1 9%	477	0.6%	368	1 6%	79,461
Average Percent Change													
1995-2005		-0.6%		-0 5%		0 9%		6.4%		4 3%		1 8%	
2006-2015		-0.5%		-0.1%		-0 1%		-1 0%		2 1%		1 3%	
2016-2025		-0 4%		-0.2%		-0 8%		-1.7%		0.8%		1 5%	

N \013508 CMMPA\037268\Economic Data_Fcst06_FormatModify xls JPN/RXZ