

Appendix B: Minnesota Electric Utility Annual Report

OTTER TAIL POWER
MINNESOTA ELECTRIC UTILITY ANNUAL REPORT

**TRADE SECRET INFORMATION
PUBLIC VERSION**

This document contains proprietary information considered sensitive for Otter Tail Power Company. Pages containing such information are marked and the specific information considered proprietary has been removed.

Supply Services

June 2010

Introduction

In accordance with the rules and regulations of the Minnesota Department of Public Service governing electric utilities in Minnesota, Otter Tail Power Company hereby files this annual report.

Enclosed are the completed sections and attachments for the form EN-00003-16 (SECTION 1). Also, enclosed are the completed sections and attachments for the historical data and forecast (SECTION 2) and the forecast documentation information for form EN-00005-16 (SECTION 3).

SECTION 1

**Electric Utility Information Reported Annually
Under Rules 7610.0100 – 7610.0700**

Form EN-0003 - 20

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT

7610.0120 REGISTRATION

ENTITY ID#	87
REPORT YEAR	2009

Number of Power Plants	14
Enter the number of power plants, then press the button to the right.	

UTILITY DETAILS	
UTILITY NAME	OTTER TAIL POWER COMPANY
STREET ADDRESS	215 SOUTH CASCADE STREET
CITY	FERGUS FALLS
STATE	MN
ZIP CODE	56538-0496
TELEPHONE	218-739-8200
Scroll down to see allowable UTILITY TYPES	
* UTILITY TYPE	Private

CONTACT INFORMATION	
CONTACT NAME	Stacie Hebert
CONTACT TITLE	MANAGER, Supply Services
CONTACT STREET ADDRESS	215 SOUTH CASCADE STREET
CITY	FERGUS FALLS
STATE	MN
ZIP CODE	56538-0496
TELEPHONE	218-739-8635
CONTACT E-MAIL	shebert@otpc.com

UTILITY OFFICERS	
NAME	TITLE
CHARLES S. McFARLANE	PRESIDENT
WARD L. UGGERUD	SENIOR VICE-PRESIDENT, SUPPLY
RODNEY C.H.SCHEEL	VICE-PRESIDENT, ASSET MGMT.
MARK H. HELLAND	VICE-PRESIDENT, CUST. SERVICE
TOM BRAUSE	VICE-PRESIDENT, ADMINISTRATION
PETE WASBERG	DIRECTOR, HR / SAFETY
CRIS KLING	DIRECTOR, PUBLIC RELATIONS
TODD WAHLUND	VICE_PRESIDENT, RNWBL ENERGY, DVL
GEORGE BELL	VICE-PRESIDENT, FINANCE

PREPARER INFORMATION	
PERSON PREPARING FORMS	Dennis Echelberger
PREPARER'S TITLE	Assistant, Supply Services
DATE	6/18/2010

COMMENTS

ALLOWABLE UTILITY TYPES

- Code**
 Private
 Public
 Co-op

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0150 FEDERAL OR STATE DATA SUBSTITUTION

FEDERAL AGENCY	FORM NUMBER	FORM TITLE	FILING CYCLE (enter an "X" in the cell)		
			MONTHLY	YEARLY	OTHER
DOE	EIA213	ANN. RETAIL BILLS FOR ELECT. UTIL.		X	
DOE	EIA860	ANN. ELECT. GENERATING REPORT		X	
DOE	EIA861	ANN. ELECT. UTIL. REPORT		X	
DOE	EIA759	MONTHLY POWER PLANT REPORT	X		
DOE	EIA923	STEAM ELECT. PLANT OPERATIONS/DESIGN		X	
DOE	EIA715	ANN. TRANSMISSION PLANNING&EVALUATION		X	
DOE	EIA826	ELECT. UTIL. COMPANY. MONTHLY	X		
DOE	EIA714	ANN. ELECT. POWER SYS. REPORT		X	

COMMENTS

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY

A utility shall provide the following information for the last calendar year:

B. LARGEST CUSTOMER LIST - ATTACHMENT ELEC-1

If applicable, the Largest Customer List must be submitted either in electronic or paper format. If information is Trade Secret, note it as such.

See "LargestCustomers" worksheet for data entry.

C. MINNESOTA SERVICE AREA MAP (Item C)

The referenced map must be submitted either in electronic or paper format.

See Instructions for details of the information required on the Minnesota Service Area Map.

			RESALE ONLY	
D. PURCHASES AND SALES FOR RESALE			MWH	MWH
UTILITY NAME	INTERCONNECTED UTILITY		PURCHASED	SOLD FOR RESALE
American Electric Power Service	MISO		5,728	76,300
American UE	MISO		10,400	5,200
Badger, SD	Badger Municipal Power		0	564
Beltrami Electric Cooperative	Minnkota Power Cooperative		70,723	0
Black Hills Power and Light	MAPP		400	17,166
BP Energy	MISO		800	0
Cargill Power Markets, LLC	MISO		11,216	17,000
Constellation Energy Commodities Group	MISO		800	0
DTE Energy Trading, Inc.	MISO		57,200	152,200
Fortis Energy Marketing and Trading	MAPP		28,000	29,600
Great River Energy	MISO		88,200	38,800
Integrus Energy Services Inc.	MISO		43,200	143,520
Lake Region Rural Electric Cooperative			11	0
Lighthouse Energy Trading Co., Inc.	MAPP		0	800
Manitoba Hydro Electric Board	MISO		225,512	4,000
Mid-American Energy Company	MAPP		73,917	0
Minnesota Municipal Power Agency	MAPP		1,600	19,200
Minnesota Power	MISO		259,650	49,200
Minnkota Power Cooperative	MAPP		240	0
Missouri River Energy Services	MISO		2,586	12,662
New Folden, MN	New Folden Municipal Power		0	2,455
Nielsville, MN	Nielsville Municipal Power		0	79
Nodak Electric Cooperative	Nodak Electric Cooperative		1,343	0
Northern States Power	MISO		133,615	261,695
NorthPoint Energy Solutions, Inc.	MAPP		220	9,380
NorthWestern Energy - NLE	MAPP		19,797	0
Omaha Public Power District	MAPP		71,581	7,243
PKM Electric Cooperative	PKM Electric Cooperative		3,490	0
Powerex Corp			49,600	25,600
Rainbow Energy Marketing Corp.	MAPP		39,179	69,194
RBC Capital Markets Corporation	MAPP		727,500	497,600
Red Lake Rural Electric Cooperative			2,977	0
Sempra Energy Trading Corporation	MISO		5,600	18,400
Shelly, MN	Shelly Municipal Power		0	773
Sioux Valley Energy			52	0
Southwestern Public Service	MAPP		0	384
Tenaska Power Services Co.	MISO		800	5,600
The Energy Authority	MISO		8,623	20,140
Transalta Energy Marketing	MAPP		1,600	2,400
Western Area Power Administration	MISO		40,359	26,838
Western Resources	MAPP		3,600	5,600
Xcel Energy Meter Error			(3,525)	0
Midwest ISO	MISO		988,525	952,937
Non-asset based cost of sales			(357,132)	(514,996)
OTHER NON UTILITY				
American Crystal Sugar			154	0
Boderline Wind			2,099	0
City of Detroit Lakes			989	0
City of Perham			0	0
Dakota Magic Casino			0	0
Energy Maintenance Service			145	0
Fleet Farm			0	0
FPL Energy North Dakota Wind II			63,544	0
Hendricks Wind I			2,186	0
Kindred School			0	0
Lac Qui Parle School			0	0
Langdon Wind, LLC			75,338	0
MDU - Mountrail			8	0
Minnesota Small Power (Wind)			114	0
North Dakota Small Power (wind)			515	0
South Dakota Co Generation			2	0
State Auto Insurance			0	0
Stevens Community Medical Center			0	0
University of MN - Morris			766	0
Valley Queen Cheese			0	0
Control Area Service & Operations Tariff			0	0
TOTALS			2,763,847	1,957,534

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY (continued)

A utility shall provide the following information for the last calendar year:

E. RATE SCHEDULES

The rate schedule and monthly power cost adjustment information must be submitted in electronic or paper format.

See Instructions for details of the information required on the Rate Schedules and Monthly Power Cost Adjustments.

F. REPORT FORM EIA-861

A copy of report form EIA-861 filed with the US Dept. of Energy must be submitted in electronic or paper format.

A copy of the report form EIA-861 filed with the Energy Information Administration of the US Dept. of Energy must be submitted.

G. FINANCIAL AND STATISTICAL REPORT

If applicable, a copy of the Financial and Statistical Report filed with the US Dept. of Agriculture must be submitted in electronic or paper format.

For rural electric cooperatives, a copy of the Financial and Statistical Report to the US Dept of Agriculture must be submitted.

H. GENERATION DATA

If the utility has Minnesota power plants, enter the fuel requirements and generation data on the Plant1, Plant2, etc. worksheets.

I. ELECTRIC USE BY MINNESOTA RESIDENTIAL SPACE HEATING USERS

See Instructions for details of the information required for residential space heating users.

COL. 1 NO. OF RESIDENTIAL ELECTRICAL SPACE HEATING CUSTOMERS	COL. 2 NO. OF RESIDENTIAL UNITS SERVED WITH ELECTRICAL SPACE HEATING	COL. 3 TOTAL MWH USED BY THESE CUSTOMERS AND UNITS
7,380	9,367	138,091

Comments

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY (continued)

J. ITS DELIVERIES TO ULTIMATE CONSUMERS BY COUNTY FOR THE LAST CALENDAR YEAR

ENERGY DELIVERED TO ULTIMATE CONSUMERS BY COUNTY

COUNTY CODE	COUNTY NAME	MWH DELIVERED	COUNTY CODE	COUNTY NAME	MWH DELIVERED
1	Aitkin		46	Martin	
2	Anoka		47	Meeker	
3	Becker	43883	48	Mille Lacs	
4	Beltrami	262874	49	Morrison	
5	Benton		50	Mower	
6	Big Stone	21558	51	Murray	
7	Blue Earth		52	Nicollet	
8	Brown		53	Nobles	
9	Carlton		54	Norman	14703
10	Carver		55	Olmstead	
11	Cass	105458	56	Otter Tail	465496
12	Chippewa	4598	57	Pennington	4177
13	Chisago		58	Pine	
14	Clay	13158	59	Pipestone	
15	Clearwater	154020	60	Polk	196906
16	Cook		61	Pope	2540
17	Cottonwood		62	Ramsey	
18	Crow Wing		63	Red Lake	115674
19	Dakota		64	Redwood	2706
20	Dodge		65	Renville	
21	Douglas	47375	66	Rice	
22	Faribault		67	Rock	
23	Fillmore		68	Roseau	15638
24	Freeborn		69	St. Louis	
25	Goodhue		70	Scott	
26	Grant	33167	71	Sherburne	
27	Hennepin		72	Sibley	
28	Houston		73	Stearns	
29	Hubbard		74	Steele	
30	Isanti		75	Stevens	82507
31	Itasca		76	Swift	49974
32	Jackson		77	Todd	804
33	Kanabec		78	Traverse	31726
34	Kandiyohi	7454	79	Wabasha	
35	Kittson	133365	80	Wadena	
36	Koochiching		81	Waseca	
37	Lac Qui Parle	51926	82	Washington	
38	Lake		83	Watsonwan	
39	Lake of the Woods		84	Wilkin	18866
40	Le Sueur		85	Winona	
41	Lincoln	21450	86	Wright	
42	Lyon	24625	87	Yellow Medicine	26276
43	McLeod			Unbilled	-7983
44	Mahnomen	45260		GRAND TOTAL (Entered)	2127211
45	Marshall	137030			
				GRAND TOTAL (Calculated)	2127211

COMMENTS

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY (continued)

J. ITS DELIVERIES TO ULTIMATE CONSUMERS BY MONTH FOR THE LAST CALENDAR YEAR

See Instructions for details of the information required concerning electricity delivered to ultimate consumers.

Past Year Entire System		A	B	C	D	E	F	G	H	I
		Residential Without Space Heat	Residential With Space Heat	Farm	Small Commercial & Industrial	Mining *	Large Commercial & Industrial	Street & Highway Lighting	Other (Include Municipals)	Total (Columns A through H)
January	No. of Customers	39,084	7,556	1,346	9,454		765	134	232	58571
	MWH	54,630	21,121	4,820	25,979		114,354	937	1,648	223489
February	No. of Customers	38,995	7,559	1,318	9,375		774	132	236	58389
	MWH	47,299	19,023	4,382	27,242		107,979	1,118	1,578	208621
March	No. of Customers	39,068	7,581	1,306	9,413		776	133	236	58513
	MWH	43,664	16,662	3,973	29,903		89,927	926	1,848	186903
April	No. of Customers	39,107	7,572	1,301	9,420		774	134	234	58542
	MWH	35,205	11,639	3,627	18,720		99,266	855	1,566	170878
May	No. of Customers	39,181	7,593	1,424	9,493		770	137	235	58833
	MWH	28,103	8,156	2,959	17,304		90,012	842	1,708	149084
June	No. of Customers	40,523	7,813	1,495	9,671		778	140	235	60655
	MWH	27,426	6,633	3,186	19,725		99,013	851	1,604	158438
July	No. of Customers	40,600	7,833	1,462	9,675		773	140	236	60719
	MWH	29,436	5,967	3,395	16,830		102,074	831	1,531	160064
August	No. of Customers	40,595	7,814	1,464	9,684		770	141	237	60705
	MWH	30,070	5,779	3,373	22,589		96,258	835	1,660	160564
September	No. of Customers	40,597	7,879	1,472	9,674		771	145	236	60774
	MWH	28,211	5,520	3,450	17,440		96,225	853	1,509	153208
October	No. of Customers	40,091	7,788	1,465	9,574		772	141	237	60068
	MWH	36,281	8,172	4,006	24,988		98,677	878	1,678	174680
November	No. of Customers	39,172	7,604	1,321	9,411		771	150	241	58670
	MWH	34,811	10,006	2,819	20,084		101,277	891	1,602	171490
December	No. of Customers	39,155	7,604	1,320	9,398		776	141	213	58607
	MWH	45,942	15,990	5,617	33,488		106,111	938	1,706	209792
Total MWH		441,078	134,668	45,607	274,292	0	1,201,173	10,755	19,638	2127211

Comments

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY (continued)

ELECTRICITY DELIVERED TO ULTIMATE CONSUMERS IN MINNESOTA SERVICE AREA IN LAST CALENDAR YEAR

See Instructions for details of the information required concerning electricity delivered to ultimate consumers.

Exclude station use, distribution losses, and unaccounted for energy losses from this table altogether.

In this column report the number of farms, residences, commercial establishments, etc., and not the number of meters, where different.

This column total should equal the grand total in the worksheet labeled "ElectricityByCounty" which provides deliveries by county.

This column total will be used for the Alternative Energy Assessment and should not include revenues from sales for resale (MN Statutes Sec. 216B.62, Subd. 5).

Classification of Energy Delivered to Ultimate Consumers (include energy used during the year for irrigation and drainage pumping)

	<u>Number of Customers</u> at End of Year	<u>Megawatt-hours</u> (round to nearest MWH)	<u>Revenue</u> (\$)
Farm	1,409	45,605	3,210,469
Nonfarm-residential	47,575	575,749	44,907,308
Commercial	9,332	274,292	21,492,224
Industrial	767	1,201,172	66,801,620
Street and highway lighting	137	10,753	1,438,895
All other	201	19,640	1,225,696
Entered Total	59,421	2,127,211	139,076,212

CALCULATED TOTAL 59,421 2,127,211 139,076,212

Comments

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MINNESOTA ELECTRIC UTILITY ANNUAL REPORT

*** PUBLIC DOCUMENT - TRADE SECRET INFORMATION HAS BEEN EXCISED ***

7610.0600 OTHER INFORMATION REPORTED ANNUALLY

PLEASE PROVIDE THE FOLLOWING INFORMATION FOR THOSE CUSTOMERS USING IN EXCESS OF 10,000 MWH. BE SURE TO INCLUDE YOUR LARGE CUSTOMERS LOCATED IN AND OUTSIDE MINNESOTA.

B. LARGEST CUSTOMER LIST - ATTACHMENT ELEC-1

[TRADE SECRET DATA BEGINS

ID#	CUSTOMER NAME	ADDRESS	CITY	STATE	ZIP	MWH
087-001						18,804,956
087-002						20,089,628
087-003						12,178,366
087-004						13,913,964
087-005						43,699,042
087-006						23,761,998
087-007						69,395,270
087-008						43,717,744
087-009						10,717,664
087-010						40,327,780
087-011						24,935,925
087-013						49,916,767
087-014						117,178,045
087-015						92,056,306
087-016						94,654,450
087-017						79,142,488
087-018						11,485,800
087-019						45,389,300
087-022						47,932,616
087-023						62,104,142
087-024						65,134,364
087-025						12,441,600
087-026						12,031,200
087-027						15,550,024
087-028						12,684,590
087-029						27,850,404
087-030						33,540,844

TRADE SECRET DATA ENDS]

COMMENTS

REMEMBER TO SEND THE FOLLOWING ATTACHMENTS:

- 1 If applicable, the Largest Customer List (Attachment ELEC-1), if the LargestCustomers worksheet was not used (pursuant to MN Rules Chapter 7610.0600 B.)
- 2 Minnesota service area map (pursuant to MN Rules Chapter 7610.0600 C.)
- 3 Rate schedules and monthly power cost adjustments (pursuant to MN Rules Chapter 7610.0600 E.)
- 4 Report form EIA-861 filed with US Dept. of Energy (pursuant to MN Rules Chapter 7610.0600 F.)
- 5 If applicable, for rural electric cooperatives, the Financial and Statistical Report filed with US Dept. of Agriculture (pursuant to MN Rules Chapter 7610.0600 G.)

MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

7610.0600 OTHER INFORMATION REPORTED ANNUALLY (continued)

ITEM C

|[TRADE SECRET DATA BEGINS

*** PUBLIC DOCUMENT - TRADE SECRET INFORMATION HAS BEEN EXCISED ***



TRADE SECRET DATA ENDS]

**Cost of Energy Adjustment - 6/1/09 - 6/1/10
Minnesota Only**

<u>Bills dated on and after</u>	<u>Mills</u>	
	Level 30	Level 29
June 1, 2009	-0.695	-0.635
July 1, 2009	-0.667	-0.607
August 1, 2009	-0.294	-0.234
September 1, 2009	-0.165	-0.165
October 1, 2009	-0.261	-0.261
November 1, 2009	-0.344	-0.344
December 1, 2009	-0.334	-0.334
January 1, 2010	-0.373	-0.373
February 1, 2010	-0.052	-0.052
March 1, 2010	-0.093	-0.093
April 1, 2010	0.000	-0.342
May 1, 2010	0.000	-0.321

Notes:

The two-rate calculations were made in compliance with the Cost of Energy Adjustment Clause, Electric Rate Schedule - Rate Designation M-60M, as approved by the Minnesota Public Utilities Commission (Docket No. E-017/GR-07-1178) on January 22, 2009.

Notes:

Attachments: Rate Schedules (pursuant to MN Rules Chapter 7610.0600 F.)

OTP filed a Rate Case in MN in 2008 and all MN Rate Schedules were changed in 2009. Thus, a link to the web site containing OTP rate schedules is being provided.

<http://www.otpc.com/ElectricRates/RatesReferenceTable.asp#MN>

ANNUAL ELECTRIC POWER
 INDUSTRY REPORT

SCHEDULE 1. IDENTIFICATION

SURVEY CONTACTS: Persons to contact with questions about this form.

RESPONSE DUE DATE: Please submit by April 30th, following the close of the calendar year

Contact Dennis Echelberger
 Title Assistant, Supply Services
 Phone (218 739 - 8754) FAX: 218 739-8629 E-mail: dechelberger@otpc.com
Supervisor Stacie Hebert
 Title Manager/Supply Services
 Phone (218 739 - 8635) FAX: 218 739-8629 E-mail: shebert@otpc.com

REPORT FOR: Otter Tail Power Company 14232

REPORTING PERIOD: 2009

1	Legal Name of Industry Participant	Otter Tail Power Company	Submission Status/Date:
2	Current Address of Principal Business Office	215 South Cascade Street PO Box 496 Fergus Falls MN 56537	
3	Preparer's Legal Name (If Different Than Line 1)		
4	Current Address of Preparer's Office (If Different Than Line 2)		
5	Respondent Type (check one)	<input type="checkbox"/> Federal <input type="checkbox"/> Political Subdivision <input type="checkbox"/> Municipal Marketing Authority <input type="checkbox"/> Cooperative <input type="checkbox"/> Independent Power Producer or Qualifying Facility	<input type="checkbox"/> State <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Investor-Owned <input type="checkbox"/> Retail Power Marketer (or Energy Service Provider) <input type="checkbox"/> Wholesale Power Marketer

REPORT FOR: Otter Tail Power Company 14232
REPORT PERIOD ENDING: 2009

SCHEDULE 2, PART A: GENERAL INFORMATION

LINE NO.				
1	Regional North American Electric Reliability Council. (Not applicable for power marketers)	<input type="checkbox"/> TRE (formerly ERCOT)	<input type="checkbox"/> NPCC	<input type="checkbox"/> SPP
		<input type="checkbox"/> FRCC	<input type="checkbox"/> RFC (formerly ECAR, MAIN, MAAC)	<input type="checkbox"/> WSCC
		<input checked="" type="checkbox"/> MRO	<input type="checkbox"/> SERC	
2	(For EIA Use Only) Identify the North American Electric Reliability Council where you are physically located.	MAPP		
3	Enter Control Area Operators Responsible for Your Oversight.	Otter Tail Power Company	14232	
4	Did Your Company Operate Generating Plant(s)? (check one).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5	Identify the Activities Your Company Was Engaged in During the Year (check appropriate activities)	<input checked="" type="checkbox"/> Generation from company owned plant	<input type="checkbox"/> Buying distribution on other electrical systems	<input type="checkbox"/> Wholesale power marketing
		<input checked="" type="checkbox"/> Transmission	<input type="checkbox"/> Buying transmission services on other electrical systems	<input type="checkbox"/> Retail power marketing
		<input checked="" type="checkbox"/> Distribution using owned/leased electrical wires	<input type="checkbox"/> Bundled Services (electricity plus other services)	
6	Highest Hourly Electrical Peak System Demand	Summer (Megawatts)		
		Winter (Megawatts)		
7	Did Your Company Operate Alternative-Fueled Vehicles During the Year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Does Your Company Plan to Operate Such Vehicles During the Coming Year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	If "Yes", Please Provide Additional Contact Information.	Name: Dean Swanson		
		Title: Manager - Transportation		
		Telephone: (218)-739-8590	Fax: (218)-739-8734	E-mail address: dswanson@otpc.com

U.S. Department of Energy
 Energy Information Administration
 Form EIA - 861 (2009)

**ANNUAL ELECTRIC POWER
 INDUSTRY REPORT**

Form Approved
 OMB No. 1905-0129
 Approval Expires 11/30/2010

REPORT FOR: Otter Tail Power Company 14232
 REPORT PERIOD ENDING: 2009

SCHEDULE 2, PART B: ENERGY SOURCES AND DISPOSITION

LINE NO.	SOURCE OF ENERGY		MEGAWATTHOURS	LINE NO.	DISPOSITION OF ENERGY		MEGAWATTHOURS
1	Net Generation		3,466,553	11	Sales to Ultimate Customers		4,244,377
2	Purchases from Electricity Suppliers		3,120,979	12	Sales for Resale		2,262,142
3	Exchanges Received (In)	0		13	Energy Furnished Without Charge		28
4	Exchanges Received (Out)	0		14	Energy Consumed by Respondent Without Charge		13,577
5	Exchanged (Net)		0				
6	Wheeled Received (In)	158,869		15	Total Energy Losses (positive number)		0
7	Wheeled Received (Out)	226,277					
8	Wheeled (Net)		-67,408				
9	Transmission by Others Losses (negative number)		0				
10	Total Sources (sum of lines 1, 2, 5, 8, and 9)		6,520,124	16	Total Disposition (Sum of lines 11, 12, 13, 14, and 15)		6,520,124

REPORT FOR: Otter Tail Power Company

14232

REPORT PERIOD ENDING: 2009

SCHEDULE 2, PART C. CUSTOMER SERVICE PROGRAM

Green Pricing programs allow customers to purchase power generated from renewable resources to pay for renewable energy development. Provide the number of customers in these programs by state and customer class.

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

STATE	TYPE OF CUSTOMER SERVICE PROGRAMS (a)	RESIDENTIAL (b)	COMMERCIAL (c)	INDUSTRIAL (d)	TRANSPORTATION (e)	TOTAL (f)
MN	Green Pricing Revenues (thousand \$)	12	1	10	0	23
	Green Pricing Sales (MWH)	860	106	780	0	1746
	Green Pricing Customers	336	18	7	0	361
ND	Green Pricing Revenues (thousand \$)	9	1	1	0	11
	Green Pricing Sales (MWH)	565	79	93	0	737
	Green Pricing Customers	237	9	2	0	248
SD	Green Pricing Revenues (thousand \$)	3	1	0	0	4
	Green Pricing Sales (MWH)	158	60	19	0	237
	Green Pricing Customers	62	4	1	0	67
	Green Pricing Revenues (thousand \$)					
	Green Pricing Sales (MWH)					
	Green Pricing Customers					
	Green Pricing Revenues (thousand \$)					
	Green Pricing Sales (MWH)					
	Green Pricing Customers					
	Green Pricing Revenues (thousand \$)					
	Green Pricing Sales (MWH)					
Green Pricing Customers						

REPORT FOR: Otter Tail Power Company 14232

REPORT PERIOD ENDING: 2009

SCHEDULE 2, PART D. NET METERING

Net Metering programs allow customers to sell excess power they generate back to the electrical grid to offset consumption. Provide the number of customers in these programs by state and customer class.

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

STATE (a)		RESIDENTIAL (b)	COMMERCIAL (c)	INDUSTRIAL (d)	TRANSPORTATION (e)	TOTAL (f)
MN	Net Metering Displaced (N)	0	0	0	0	0
	Net Metering Customers	1	3	0	0	4
ND	Net Metering Displaced (N)	0	0	0	0	0
	Net Metering Customers	1	0	0	0	1
SD	Net Metering Displaced (N)	0	0	0	0	0
	Net Metering Customers	0	0	0	0	0



REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 3, ELECTRIC OPERATING REVENUE

LINE NO.	TYPE OF OPERATING REVENUE OR COST	THOUSAND DOLLARS	
1	Electric Operating Revenue From Sales To Ultimate Customers (Schedule 4, Parts A, B, and D)	283,434	Financial p. 10
2	Revenue From Unbundled (Delivery) Customers (Schedule 4, Part C)	0	
3	Electric Operating Revenue from Sale for Resale	12,579	Financial p.5 Wholesale (add in below the line amt. of 62, 213,973)
4	Electric Credits / Other Adjustments	0	
5	Other Electric Operating Revenue	13,082	Financial p. 11
6	Total Electric Operating Revenue (sum of lines 1, 2, 3, 4 and 5)	309,095	

REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 4, PART A. RETAIL SALES TO ULTIMATE CUSTOMERS. FULL SERVICE - ENERGY AND DELIVERY SERVICE (BUNDLED)

STATE / TERRITORY	MN	RESIDENTIAL (a)	COMMERCIAL (b)	INDUSTRIAL (c)	TRANSPORTATION (d)	TOTAL (e)
Revenue (thousand dollars)		45,027	68,029	26,020	0	139,076
Megawatthours		575,748	1,026,829	524,634	0	2,127,211
Number of Customers		47,364	12,046	11	0	59,421
STATE	ND					
Revenue (thousand dollars)		44,051	69,812	3,900	0	117,763
Megawatthours		599,775	1,037,056	69,161	0	1,705,992
Number of Customers		44,206	12,610	2	0	56,818
STATE	SD					
Revenue (thousand dollars)		9,088	16,037	1,471	0	26,596
Megawatthours		121,256	262,068	27,850	0	411,174
Number of Customers		8,788	2,764	1	0	11,553
STATE						
Revenue (thousand dollars)						
Megawatthours						
Number of Customers						
STATE						
Revenue (thousand dollars)						
Megawatthours						
Number of Customers						

Because Schedule D reports 1 industrial customer (Valley Queen) for SD in AMR metering, adjusted SD industrial customers to 1 compared with zero as reported on EIA 826 report (Sharon Henderson).

Values for SD industrial are VQ values.

**U.S. Department of Energy
Energy Information Administration
Form EIA - 861 (2009)**

***ANNUAL ELECTRIC POWER
INDUSTRY REPORT***

**Form Approved
OMB No. 1905-0129
Approval Expires 11/30/07**

REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 5, MERGERS AND/OR ACQUISITIONS

Mergers and/or acquisitions during the reporting period Yes No (If no, skip to Schedule 6)

If Yes, Provide

Date of Merger or Acquisition

Company merged with or acquired

Name of new parent company

Address

City

State, Zip

Contact

Telephone No.

Email address

U.S. Department of Energy Energy Information Administration Form EIA - 861 (2009)	ANNUAL ELECTRIC POWER INDUSTRY REPORT	Form Approved OMB No. 1905-0129 Approval Expires 11/30/07
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REPORT FOR: Otter Tail Power Company, 14232
REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 6. DEMAND-SIDE MANAGEMENT INFORMATION

LINE NO.	
1	Do you have company administered Demand-Side Management Programs? (check Yes or No) [X] Yes [] No
2	If your Demand-Side Management activities are reported on Schedule 6 of another company, identify the company.

NOTE If you answered "No," to Line 1 or another Company Reports your Demand-Side Management Activities on their Schedule 5, do not complete the rest of this schedule.

PART A. ACTUAL EFFECTS

		INCREMENTAL EFFECTS				ANNUAL EFFECTS			
ENERGY EFFICIENCY		RESIDENTIAL (a)	COMMERCIAL (b)	INDUSTRIAL (c)	TRANSPORTATION (d)	RESIDENTIAL (e)	COMMERCIAL (f)	INDUSTRIAL (g)	TRANSPORTATION (h)
3	Energy Effects (megawatthours)	3,641	8,455	27,632	0	18,797	27,499	88,512	0
4	Actual Peak Reduction (megawatts)	2	3	5	0	7	9	16	0
LOAD MANAGEMENT									
5	Energy Effects (megawatthours)	284	212	0	0	7,660	5,732	0	0
6	Potential Peak Reduction (megawatts)	2	1	0	0	44	33	0	0
7	Actual Peak Reduction (megawatts)	0	0	0	0	0	0	0	0
7A	Were these savings verified through an independent evaluation?	No							

REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 6, PART B. ANNUAL COSTS (THOUSAND DOLLARS AND PERCENTAGE OF TOTAL)

	(a) Costs (thousand dollars)	(b) Percentage of costs by State			(c) Percentage of costs by State	(d) Percentage of costs by State	(e) Percentage of costs by State
		MN	ND	SD			
8	Direct Costs excluding incentive payments - Energy Efficiency	1,209	95		5		
9	Direct Costs excluding incentive payments - Load Management	340	100				
10	Incentive Payments - Energy Efficiency	2,620	64		6		
11	Incentive Payments - Load Management	0	0				
12	Indirect Costs	3,143	97		3		
13	Total Cost (sum of lines 8, 9 and 10)	7,312					

SCHEDULE 6, PART C. SUPPLEMENTAL INFORMATION

14	Have there been any major changes to your Demand-Side Management programs (e.g., terminated programs, new information or financing programs, or a shift to programs with dual load building objectives and energy efficiency objectives), program tracking procedures, program evaluations, or reporting methods that impact the demand-side management data reported on this schedule to data from the previous year? (check Yes or No)	[] Yes	[X] No
15	Does your company currently operate any incentive-based demand response programs (e.g., direct load control, interruptible programs, demand bidding/buyback, emergency demand response, capacity market programs, and ancillary service market programs)? (check Yes or No)	[X] Yes	[] No
16	If the answer to line 15 is "Yes", please disclose the number of participating customers by class. Residential: 37013 Commercial: 4462 Industrial: 0 Transportation: 0		
17	Does your company currently operate any time-base rate programs (e.g., real time pricing, critical peak pricing, variable peak pricing and time-of-use rates)? (check Yes or No)	[X] Yes	[] No
18	If the answer to line 17 is "Yes", please disclose the number of participating customers by class. Residential: 0 Commercial: 184 Industrial: 24 Transportation: 0		

REPORT FOR:	Otter Tail Power Company	14232
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REPORT PERIOD ENDING:	2009
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SCHEDULE 6, PART D. ADVANCED METERING

NUMBER OF CUSTOMERS BY CUSTOMER CLASS

STATE		RESIDENTIAL	COMMERCIAL	INDUSTRIAL	TRANSPORTATION	TOTAL
MN	Number of AMR Meters	0	43	10	0	53
	Number of AMI Meters	0	0	0	0	0
	Energy Served through AMI	0	0	0	0	0
ND	Number of AMR Meters	0	19	2	0	21
	Number of AMI Meters	0	0	0	0	0
	Energy Served through AMI	0	0	0	0	0
SD	Number of AMR Meters	0	10	1	0	11
	Number of AMI Meters	0	0	0	0	0
	Energy Served through AMI	0	0	0	0	0



REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 7. DISTRIBUTED AND DISPERSED GENERATION

PART A. NUMBER AND CAPACITY

	Distributed Generators (Commercial and Industrial Grid Connected/Synchronized Generators) (a)		Dispersed Generators (Commercial and Industrial Grid Not Connected/Synchronized Generators) (b)	
	Total	< 1MW	Total	< 1MW
1. Number of generators				
2. Total combined capacity (MW)				
3. % of capacity that consists of backup-only units				
4. Nature of data reported	Actual	<input checked="" type="checkbox"/>	Estimated	<input type="checkbox"/>

PART B. TYPE OF GENERATORS (% of total capacity)

1. Internal combustion/reciprocating engines	0%	0%		
2. Combustion turbine(s)				
3. Steam turbine(s)		0%		
4. Hydroelectric				
5. Wind turbine(s)	0%	0%		
6. Other	0%	0%		
7. Nature of data reported	Actual	<input checked="" type="checkbox"/>	Estimated	<input type="checkbox"/>

PART C. TYPE OF ENERGY SOURCES USED (% of total capacity)

1. Distillate Fuel oil				
2. Natural gas	0%	0%		
3. Wood/wood waste solids	0.0%	0%		
4. Water at conventional hydroelectric turbine				
5. Wind	0%	0%		
6. Other renewable or biomass fuels (see energy source table in instructions)		0%		
7. Other		0%		
8. Nature of data reported	Actual	<input checked="" type="checkbox"/>	Estimated	<input type="checkbox"/>

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REPORT FOR: Otter Tail Power Company, 14232

REPORT PERIOD ENDING: 12/31/2009

SCHEDULE 8. DISTRIBUTION SYSTEM INFORMATION

If your company owns a distribution system, please identify the names of the counties (parish, etc.) by State in which the electric wire / equipment are located.

LINE NO.	STATE (U.S. POSTAL ABBREVIATION) (a)	COUNTY (PARISH, ETC.) (b)	LINE NO.	STATE (U.S. POSTAL ABBREVIATION) (a)	COUNTY (PARISH, ETC.) (b)
1	MN	Becker	20	MN	Polk
2	MN	Beltrami	21	MN	Pope
3	MN	Big Stone	22	MN	Red Lake
4	MN	Cass	23	MN	Redwood
5	MN	Chippewa	24	MN	Roseau
6	MN	Clay	25	MN	Stevens
7	MN	Clearwater	26	MN	Swift
8	MN	Douglas	27	MN	Todd
9	MN	Grant	28	MN	Traverse
10	MN	Hubbard	29	MN	Wilkin
11	MN	Kandiyohi	30	MN	Yellow Medicine
12	MN	Kittson	31	MN	Barnes
13	MN	Lac Qui Parle	32	ND	Benson
14	MN	Lincoln	33	ND	Bottineau
15	MN	Lyon	34	ND	Burleigh
16	MN	Mahnomen	35	ND	Cass
17	MN	Marshall	36	ND	Cavalier
18	MN	Norman	37	ND	Dickey
19	MN	Otter Tail	38	ND	Eddy
20	MN	Pennington	40	ND	Foster

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SCHEDULE 8. DISTRIBUTION SYSTEM INFORMATION

If your company owns a distribution system, please identify the names of the counties (parish, etc.) by State in which the electric wire / equipment are located.

LINE NO.	STATE (U.S. POSTAL ABBREVIATION) (a)	COUNTY (PARISH, ETC.) (b)	LINE NO.	STATE (U.S. POSTAL ABBREVIATION) (a)	COUNTY (PARISH, ETC.) (b)
41	ND	Grand Forks	61	ND	Towner
42	ND	Griggs	62	ND	Trail
43	ND	Kidder	63	ND	Walsh
44	ND	LaMoure	64	ND	Ward
45	ND	Logan	65	ND	Wells
46	ND	McHenry	66	SD	Brookings
47	ND	McLean	67	SD	Codington
48	ND	Mountrail	68	SD	Day
49	ND	Nelson	69	SD	Deuel
50	ND	Pembina	70	SD	Grant
51	ND	Pierce	71	SD	Hamlin
52	ND	Ramsey	72	SD	Kingsbury
53	ND	Ransom	73	SD	Lake
54	ND	Renville	74	SD	Marshall
55	ND	Richland	75	SD	Moody
56	ND	Rolette	76	SD	Roberts
57	ND	Sargent			
58	ND	Sheridan			
59	ND	Steele			
60	ND	Stutsman			

SECTION 2

**Electric Utility Information Reporting
Forecast Section**

Form EN-0005 – 20

7610.0310 CONTENT OF HISTORICAL AND FORECAST

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION

INSTRUCTIONS

The individual worksheets in this spreadsheet file correspond closely to the tables in the paper forms received by the utility. The instructions provided with the paper forms also pertain to the data to be entered in each of the worksheets in this file.

PLEASE DO NOT CHANGE THE NAME OR ORDER OF ANY OF THE WORKSHEET TABS IN THIS FILE

In general, the following scheme is used on each worksheet:

- Cells shown with a light green background correspond to headings for columns, rows or individual fields.
- Cells shown with a light yellow background require data to be entered by the utility.
- Cells shown with a light brown background generally correspond to fields that are calculated from the data entered, or correspond to fields that are informational and not to be modified by the utility.

Each worksheet contains a section labeled Comments below the main data entry area.

You may enter any comments in that section that may be needed to explain or clarify the data being entered on the worksheet.

Please complete the required worksheets and save the completed spreadsheet file to your local computer.

Then attach the completed spreadsheet file to an e-mail message and send it to the following e-mail address:

rule7610.reports@state.mn.us

If you have any questions please contact:

Steve Loomis

MN Department of Commerce

steve.loomis@state.mn.us

(651) 296-8963

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION

7610.0120 REGISTRATION

ENTITY ID#	87
REPORT YEAR	2009

UTILITY DETAILS	
UTILITY NAME	OTTER TAIL POWER COMPANY
STREET ADDRESS	215 SOUTH CASCADE STREET
CITY	FERGUS FALLS
STATE	MN
ZIP CODE	56538-0496
TELEPHONE	218-739-8200
	Scroll down to see allowable UTILITY TYPES
* UTILITY TYPE	Private

CONTACT INFORMATION	
CONTACT NAME	Stacie Hebert
CONTACT TITLE	MANAGER, Supply Services
CONTACT STREET ADDRESS	215 SOUTH CASCADE STREET
CITY	FERGUS FALLS
STATE	MN
ZIP CODE	56538-0496
TELEPHONE	218-739-8635
CONTACT E-MAIL	shebert@otpc.com

COMMENTS

PREPARER INFORMATION	
PERSON PREPARING FORMS	Dennis Echelberger
PREPARER'S TITLE	Assistant, Supply Services
DATE	6/18/2010

ALLOWABLE UTILITY TYPES

Code

- Private
- Public
- Co-op

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item A. SYSTEM FORECAST OF ANNUAL ELECTRIC CONSUMPTION BY ULTIMATE CONSUMERS

Provide actual data for your entire system for the past year, your estimate for the present year and all future forecast years.

Please remember that the number of customers should reflect the number of customers at year's end, not the number of meters.

			FARM	NON-FARM RESIDENTIAL	COMMERCIAL	MINING *	INDUSTRIAL	STREET & HIGHWAY LIGHTING	OTHER	SYSTEM TOTALS	Calculated System Totals
Past Year	2009	No. of Cust.	2,740	101,793	21,900		1,839	398	598	129,268	129,268
		MWH	93,551	1,296,782	611,670		2,173,738	27,082	41,554	4,244,377	4,244,377
Present Year	2010	No. of Cust.	2,731	102,073	21,950		1,845	399	607	129,605	129,605
		MWH	86,419	1,386,203	646,654		2,359,079	28,372	57,599	4,564,326	4,564,326
1st Forecast Year	2011	No. of Cust.	2,726	102,102	21,948		1,847	399	607	129,629	129,629
		MWH	82,612	1,395,965	644,830		2,426,626	28,348	57,584	4,635,965	4,635,965
2nd Forecast Year	2012	No. of Cust.	2,725	102,150	21,955		1,847	399	607	129,683	129,683
		MWH	81,314	1,412,482	649,883		2,432,123	28,449	57,888	4,662,139	4,662,139
3rd Forecast Year	2013	No. of Cust.	2,422	102,170	21,954		1,851	399	607	129,704	129,404
		MWH	79,593	1,419,113	649,636		2,564,666	28,362	57,799	4,799,169	4,799,169
4th Forecast Year	2014	No. of Cust.	2,722	102,204	21,959		1,856	399	607	129,747	129,747
		MWH	79,026	1,431,147	653,365		2,716,328	28,387	57,899	4,966,152	4,966,152
5th Forecast Year	2015	No. of Cust.	2,721	102,239	21,965		1,860	399	607	129,791	129,791
		MWH	78,775	1,443,322	657,568		2,865,731	28,419	57,988	5,131,803	5,131,803
6th Forecast Year	2016	No. of Cust.	2,721	102,288	21,973		1,863	399	607	129,851	129,851
		MWH	78,645	1,460,665	663,292		2,999,818	28,557	58,245	5,289,222	5,289,222
7th Forecast Year	2017	No. of Cust.	2,720	102,306	21,975		1,867	399	607	129,874	129,874
		MWH	78,166	1,467,108	664,944		3,163,383	28,495	58,111	5,460,207	5,460,207
8th Forecast Year	2018	No. of Cust.	2,720	102,338	21,980		1,873	399	607	129,917	129,917
		MWH	78,048	1,478,496	669,055		3,388,959	28,536	58,159	5,701,253	5,701,253
9th Forecast Year	2019	No. of Cust.	2,720	102,369	21,986		1,874	399	607	129,954	129,955
		MWH	77,941	1,489,523	673,168		3,437,936	28,578	58,197	5,765,343	5,765,343
10th Forecast Year	2020	No. of Cust.	2,721	102,415	21,995		1,875	399	608	130,013	130,013
		MWH	78,196	1,505,952	679,879		3,494,294	28,723	58,410	5,845,454	5,845,454
11th Forecast Year	2021	No. of Cust.	2,720	102,428	21,998		1,876	399	607	130,028	130,028
		MWH	78,130	1,511,265	682,676		3,538,504	28,664	58,255	5,897,494	5,897,494
12th Forecast Year	2022	No. of Cust.	2,720	102,456	22,004		1,877	399	607	130,063	130,063
		MWH	78,106	1,521,453	687,076		3,588,087	28,708	58,272	5,961,702	5,961,702
13th Forecast Year	2023	No. of Cust.	2,720	102,482	22,009		1,878	399	607	130,096	130,096
		MWH	78,061	1,531,193	691,425		3,638,704	28,752	58,280	6,026,415	6,026,415
14th Forecast Year	2024	No. of Cust.	2,720	102,522	22,017		1,879	399	608	130,145	130,145
		MWH	78,010	1,546,282	697,270		3,697,523	28,900	58,464	6,106,449	6,106,449

* MINING needs to be reported as a separate category only if annual sales are greater than 1,000 GWH. Otherwise, include MINING in the INDUSTRIAL category.

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item A. MINNESOTA-ONLY FORECAST OF ANNUAL ELECTRIC CONSUMPTION BY ULTIMATE CONSUMERS

Provide actual data for your Minnesota service area only, for the past year, your best estimate for the present year and all future forecast years.

Please remember that the number of customers should reflect the number of customers at year's end, not the number of meters.

			FARM	NON-FARM RESIDENTIAL	COMMERCIAL	MINING *	INDUSTRIAL	STREET & HIGHWAY LIGHTING	OTHER	MN-ONLY TOTALS	Calculated MN-Only Totals
Past Year	2009	No. of Cust.	1,409	47,575	9,332		767	137	202	59,422	59,422
		MWH	45,606	575,749	274,293		1,201,172	10,753	19,640	2,127,211	2,127,211
Present Year	2010	No. of Cust.	1,405	47,706	9,353		770	137.2610074	205	59,576	59,576
		MWH	45,174	630,004	296,911		1,215,800	11175	29,742	2,228,806	2,228,806
1st Forecast Year	2011	No. of Cust.	1,402	47,720	9,352		770	137.256363	205	59,587	59,587
		MWH	43,724	639,297	296,625		1,251,543	11148	29,979	2,272,316	2,272,316
2nd Forecast Year	2012	No. of Cust.	1,401	47,742	9,355		771	137.275924	205	59,612	59,612
		MWH	43,268	651,374	299,142		1,229,211	11186	30,345	2,264,526	2,264,526
3rd Forecast Year	2013	No. of Cust.	1,400	47,751	9,355		772	137.2591319	205	59,621	59,621
		MWH	42,715	658,921	299,373		1,339,792	11159	30,475	2,382,435	2,382,435
4th Forecast Year	2014	No. of Cust.	1,400	47,767	9,357		774	137.2639714	205	59,641	59,641
		MWH	42,570	669,026	301,318		1,465,198	11185	30,665	2,519,962	2,519,962
5th Forecast Year	2015	No. of Cust.	1,400	47,784	9,360		776	137.2701608	205	59,661	59,661
		MWH	42,523	679,155	303,484		1,587,404	11217	30,824	2,654,607	2,654,607
6th Forecast Year	2016	No. of Cust.	1,399	47,807	9,363		777	137.2968236	205	59,689	59,689
		MWH	42,575	691,790	306,381		1,689,833	11295	31,049	2,772,923	2,772,923
7th Forecast Year	2017	No. of Cust.	1,399	47,815	9,364		779	137.2849003	205	59,699	59,699
		MWH	42,406	699,470	307,484		1,827,856	11292	31,052	2,919,560	2,919,560
8th Forecast Year	2018	No. of Cust.	1,399	47,830	9,366		781	137.2928016	205	59,719	59,719
		MWH	42,390	709,458	309,688		2,023,463	11333	31,134	3,127,466	3,127,466
9th Forecast Year	2019	No. of Cust.	1,399	47,844	9,368		782	137.3008844	205	59,736	59,736
		MWH	42,373	719,398	311,912		2,041,566	11375	31,203	3,157,827	3,157,827
10th Forecast Year	2020	No. of Cust.	1,399	47,865	9,372		782	137.3287501	205	59,761	59,761
		MWH	42,510	731,990	315,297		2,062,272	11461	31,347	3,194,877	3,194,877
11th Forecast Year	2021	No. of Cust.	1,399	47,872	9,374		783	137.3174666	205	59,770	59,770
		MWH	42,434	739,287	316,929		2,077,674	11462	31,296	3,219,082	3,219,082
12th Forecast Year	2022	No. of Cust.	1,399	47,885	9,376		783	137.325898	205	59,786	59,786
		MWH	42,431	748,964	319,317		2,093,658	11506	31,330	3,247,206	3,247,206
13th Forecast Year	2023	No. of Cust.	1,399	47,897	9,379		783	137.334317	205	59,801	59,801
		MWH	42,422	758,502	321,696		2,109,751	11550	31,353	3,275,274	3,275,274
14th Forecast Year	2024	No. of Cust.	1,399	47,916	9,382		784	137.362594	205	59,823	59,823
		MWH	42,475	770,605	324,788		2,128,834	11638	31,469	3,309,809	3,309,809

* MINING needs to be reported as a separate category only if annual sales are greater than 1,000 GWH. Otherwise, include MINING in the INDUSTRIAL category.

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item B. FORECAST OF ANNUAL SYSTEM CONSUMPTION AND GENERATION DATA (Express in MWH)

NOTE: (Column 1 + Column 2) = (Column 3 + Column 5) - (Column 4 + Column 6)

It is recognized that there may be circumstances in which the data entered by the utility is more appropriate or accurate than the value in the corresponding automatically-calculated cell. If the value in the automatically-calculated cell does not match the value that your utility entered, please provide an explanation in the Comments area at the bottom of the worksheet.

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	CALCULATED
	CONSUMPTION BY ULTIMATE CONSUMERS IN MINNESOTA in MWH [7610.0310 B(1)]	CONSUMPTION BY ULTIMATE CONSUMERS OUTSIDE OF MINNESOTA in MWH [7610.0310 B(2)]	RECEIVED FROM OTHER UTILITIES in MWH [7610.0310 B(3)]	DELIVERED FOR RESALE in MWH [7610.0310 B(4)]	TOTAL ANNUAL NET GENERATION in MWH [7610.0310 B(5)]	TRANSMISSION LINE SUBSTATION AND DISTRIBUTION LOSSES in MWH [7610.0310 B(6)]	TOTAL WINTER CONSUMPTION in MWH [7610.0310 B(7)]	TOTAL SUMMER CONSUMPTION in MWH [7610.0310 B(7)]	(GENERATION + RECEIVED) MINUS (RESALE + LOSSES) MINUS (CONSUMPTION) SHOULD EQUAL ZERO
Past Year 2009	2,127,211	2,117,166	2,763,847	2,472,530	3,466,553	(486,507)	2,418,466	1,825,911	0
Present Year 2010	2,228,806	2,335,520	3,658,013	2,253,184	3,479,000	319,503	2,424,414	1,823,648	0
1st Forecast Year 2011	2,272,316	2,363,649	3,803,940	2,365,457	3,522,000	324,518	2,521,305	2,043,021	0
2nd Forecast Year 2012	2,264,526	2,397,613	3,695,018	2,397,529	3,691,000	326,350	2,554,686	2,081,280	0
3rd Forecast Year 2013	2,382,435	2,416,734	3,875,678	2,388,567	3,648,000	335,942	2,570,064	2,092,076	0
4th Forecast Year 2014	2,519,962	2,446,190	3,810,700	2,275,917	3,779,000	347,631	2,632,322	2,166,846	0
5th Forecast Year 2015	2,654,607	2,477,196	3,963,946	2,275,917	3,803,000	359,226	2,717,937	2,248,214	0
6th Forecast Year 2016	2,772,923	2,516,299	4,193,385	2,275,917	3,742,000	370,246	2,803,608	2,328,193	0
7th Forecast Year 2017	2,919,560	2,540,647	4,227,338	2,275,917	3,891,000	382,214	2,892,126	2,397,097	0
8th Forecast Year 2018	3,127,466	2,573,787	4,473,258	2,275,917	3,903,000	399,088	2,974,472	2,485,733	0
9th Forecast Year 2019	3,157,827	2,607,516	4,799,834	2,275,917	3,645,000	403,574	3,100,083	2,601,168	0
10th Forecast Year 2020	3,194,877	2,650,577	4,803,553	2,275,917	3,727,000	409,182	3,133,930	2,631,414	0
11th Forecast Year 2021	3,219,082	2,678,412	4,926,236	2,275,917	3,660,000	412,825	3,183,274	2,662,180	0
12th Forecast Year 2022	3,247,206	2,714,496	4,919,938	2,275,917	3,735,000	417,319	3,203,931	2,693,564	0
13th Forecast Year 2023	3,275,274	2,751,141	5,018,181	2,275,917	3,706,000	421,849	3,237,951	2,723,751	0
14th Forecast Year 2024	3,309,809	2,796,640	5,156,817	2,275,917	3,653,000	427,451	3,272,221	2,754,194	0

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item C. PEAK DEMAND BY ULTIMATE CONSUMERS AT THE TIME OF ANNUAL SYSTEM PEAK (in MW)

		FARM	NON-FARM RESIDENTIAL	COMMERCIAL	MINING	INDUSTRIAL	STREET & HIGHWAY LIGHTING	OTHER	SYSTEM TOTALS	Calculated System Totals
Last Year Peak Day	2009	18	244	115	0	410	5	8	800	800

7610.0310 Item D. PEAK DEMAND BY MONTH FOR THE LAST CALENDAR YEAR (in MW)

		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Last Year	2009	800.0	733.0	752.0	625.0	522.0	575.0	582.0	618.0	538.0	585.0	640.0	774.0

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item E. PART 1: FIRM PURCHASES

(Express in MW)

NAME OF OTHER UTILITY =>									
Past Year	2009	Summer	0						
		Winter	0						
Present Year	2010	Summer	0						
		Winter	0						
1st Forecast Year	2011	Summer	0						
		Winter	0						
2nd Forecast Year	2012	Summer	0						
		Winter	0						
3rd Forecast Year	2013	Summer	0						
		Winter	0						
4th Forecast Year	2014	Summer	0						
		Winter	0						
5th Forecast Year	2015	Summer	0						
		Winter	0						
6th Forecast Year	2016	Summer	0						
		Winter	0						
7th Forecast Year	2017	Summer	0						
		Winter	0						
8th Forecast Year	2018	Summer	0						
		Winter	0						
9th Forecast Year	2019	Summer	0						
		Winter	0						
10th Forecast Year	2020	Summer	0						
		Winter	0						
11th Forecast Year	2021	Summer	0						
		Winter	0						
12th Forecast Year	2022	Summer	0						
		Winter	0						
13th Forecast Year	2023	Summer	0						
		Winter	0						
14th Forecast Year	2024	Summer	0						
		Winter	0						

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item E. PART 2: FIRM SALES

(Express in MW)

NAME OF OTHER UTILITY =>									
Past Year	2009	Summer	0						
		Winter	0						
Present Year	2010	Summer	0						
		Winter	0						
1st Forecast Year	2011	Summer	0						
		Winter	0						
2nd Forecast Year	2012	Summer	0						
		Winter	0						
3rd Forecast Year	2013	Summer	0						
		Winter	0						
4th Forecast Year	2014	Summer	0						
		Winter	0						
5th Forecast Year	2015	Summer	0						
		Winter	0						
6th Forecast Year	2016	Summer	0						
		Winter	0						
7th Forecast Year	2017	Summer	0						
		Winter	0						
8th Forecast Year	2018	Summer	0						
		Winter	0						
9th Forecast Year	2019	Summer	0						
		Winter	0						
10th Forecast Year	2020	Summer	0						
		Winter	0						
11th Forecast Year	2021	Summer	0						
		Winter	0						
12th Forecast Year	2022	Summer	0						
		Winter	0						
13th Forecast Year	2023	Summer	0						
		Winter	0						
14th Forecast Year	2024	Summer	0						
		Winter	0						

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item F. PART 1: PARTICIPATION PURCHASES

(Express in MW)

NAME OF OTHER UTILITY =>			MHEB	WPPI	MP	WE	GRE			
Past Year	2009	Summer	50	15	0	0	0			
		Winter	50	40	0	0	0			
Present Year	2010	Summer	0	0	50	35	0			
		Winter	0	0	50	35	50			
1st Forecast Year	2011	Summer	0	0	0	50	50			
		Winter	0	0	0	50	50			
2nd Forecast Year	2012	Summer	0	0	0	50	50			
		Winter	0	0	0	50	50			
3rd Forecast Year	2013	Summer	0	0	0	0	50			
		Winter	0	0	0	0	50			
4th Forecast Year	2014	Summer	0	0	0	0	50			
		Winter	0	0	0	0	0			
5th Forecast Year	2015	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
6th Forecast Year	2016	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
7th Forecast Year	2017	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
8th Forecast Year	2018	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
9th Forecast Year	2019	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
10th Forecast Year	2020	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
11th Forecast Year	2021	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
12th Forecast Year	2022	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
13th Forecast Year	2023	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			
14th Forecast Year	2024	Summer	0	0	0	0	0			
		Winter	0	0	0	0	0			

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item F. PART 2: PARTICIPATION SALES

(Express in MW)

NAME OF OTHER UTILITY =>									
Past Year	2009	Summer	0						
		Winter	0						
Present Year	2010	Summer	0						
		Winter	0						
1st Forecast Year	2011	Summer	0						
		Winter	0						
2nd Forecast Year	2012	Summer	0						
		Winter	0						
3rd Forecast Year	2013	Summer	0						
		Winter	0						
4th Forecast Year	2014	Summer	0						
		Winter	0						
5th Forecast Year	2015	Summer	0						
		Winter	0						
6th Forecast Year	2016	Summer	0						
		Winter	0						
7th Forecast Year	2017	Summer	0						
		Winter	0						
8th Forecast Year	2018	Summer	0						
		Winter	0						
9th Forecast Year	2019	Summer	0						
		Winter	0						
10th Forecast Year	2020	Summer	0						
		Winter	0						
11th Forecast Year	2021	Summer	0						
		Winter	0						
12th Forecast Year	2022	Summer	0						
		Winter	0						
13th Forecast Year	2023	Summer	0						
		Winter	0						
14th Forecast Year	2024	Summer	0						
		Winter	0						

COMMENTS

**7610.0310, item G. LOAD AND GENERATION CAPACITY
EXPRESS IN MEGAWATTS**

	PAST YEAR 2009		PRESENT YEAR 2010		1 st FORECAST YR. 2011		2 nd FORECAST YR. 2012		3 rd FORECAST YR. 2013		4 th FORECAST YR. 2014		5 th FORECAST YR. 2015		6 th FORECAST YR. 2016	
	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter
(1) seasonal maximum demand	665.0	755.0	697	775	708	787	720	799	732	817	750	839	773	860	793	885
(2) schedule L. purchase at the time of seasonal system demand	0.0	0.0	25	105	25	105	25	105	25	105	25	105	25	105	25	105
(3) seasonal system demand	665.0	755.0	672	670	683	682	695	694	707	712	725	734	748	755	768	780
(4) annual system demand	665.0	755.0	747	670	683	683	695	695	707	712	725	734	748	755	768	780
(5) seasonal firm purchases - total	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6) seasonal firm sales - total	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(7) seasonal adjusted net demand (3-5+6)	665.0	755.0	672	670	683	682	695	694	707	712	725	734	748	755	768	780
(8) annual adjusted net demand (4-5+6)	665.0	755.0	747	670	683	683	695	695	707	712	725	734	748	755	768	780
(9) net generating capability	639.0	640.0	623	622	626	625	626	625	611	611	611	611	611	381	381	381
(10) participation purchases - total	62.0	194.0	85	135	100	100	100	100	50	50	50	0	0	0	0	0
(11) participation sales - total	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(12) adjusted net capability (9+10-11)	701.0	834.0	708	757	726	725	726	725	661	661	661	611	611	381	381	381
(13) net reserve capacity obligation	36.0	40.0	30	31	31	31	31	31	32	32	33	33	33	33	35	35
(14) total firm capacity obligation (7+13)	701.0	795.0	702	701	714	713	726	725	739	744	758	767	781	788	803	815
(15) surplus (+) or deficit (-) capacity (12-14)	0.0	39.0	6	56	12	12	0	0	-78	-83	-97	-156	-170	-407	-422	-434

Does not assume any resource additions.

7610.0310, item G. LOAD AND GENERATION CAPACITY (Continued)
EXPRESS IN MEGAWATTS

	7 th FORECAST YR. 2017		8 th FORECAST YR. 2018		9 th FORECAST YR. 2019		10 th FORECAST YR. 2020		11 th FORECAST YR. 2021		12 th FORECAST YR. 2022		13 th FORECAST YR. 2023		14 th FORECAST YR. 2024	
	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter	summer	winter
(1) seasonal maximum demand	818	915	849	928	862	940	874	953	887	966	900	978	913	991	926	1005
(2) schedule L, purchase at the time of seasonal system demand	25	105	25	105	25	105	25	105	25	105	25	105	25	105	25	105
(3) seasonal system demand	793	810	824	823	837	835	849	848	862	861	875	873	888	886	901	900
(4) annual system demand	793	810	824	824	837	837	849	849	862	862	875	875	888	888	901	901
(5) seasonal firm purchases - total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6) seasonal firm sales - total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(7) seasonal adjusted net demand (3-5+6)	793	810	824	823	837	835	849	848	862	861	875	873	888	886	901	900
(8) annual adjusted net demand (4-5+6)	793	810	824	824	837	837	849	849	862	862	875	875	888	888	901	901
(9) net generating capability	381	381	381	381	381	381	381	187	187	187	187	187	187	187	187	187
(10) participation purchases - total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(11) participation sales - total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(12) adjusted net capability (9+10-11)	381	381	381	381	381	381	187	187	187	187	187	187	187	187	187	187
(13) net reserve capacity obligation	36	37	37	37	38	38	38	38	38	38	39	39	40	40	40	40
(14) total firm capacity obligation (7+13)	829	847	861	860	875	873	887	886	900	899	914	912	928	926	941	940
(15) surplus (+) or deficit (-) capacity (12-14)	-448	-466	-480	-479	-494	-492	-700	-699	-713	-712	-727	-725	-741	-739	-754	-753

Does not assume any resource additions.

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0310 Item H. ADDITIONS AND RETIREMENTS (Express in MW)

		ADDITIONS	RETIREMENTS
Past Year	2009	0	0
Present Year	2010	0	0
1st Forecast Year	2011	0	0
2nd Forecast Year	2012	50	0
3rd Forecast Year	2013	0	0
4th Forecast Year	2014	40	0
5th Forecast Year	2015	0	230
6th Forecast Year	2016	230	0
7th Forecast Year	2017	86	0
8th Forecast Year	2018	86	0
9th Forecast Year	2019	0	0
10th Forecast Year	2020	187	187
11th Forecast Year	2021	0	0
12th Forecast Year	2022	0	0
13th Forecast Year	2023	0	0
14th Forecast Year	2024	0	0

COMMENTS

Year 2012, Addition of wind generation (nameplate value - accredited capacity expected around 3% of nameplate).

Year 2014, Anticipated addition (40 MW) of NG CT.

Year 2017, Anticipated addition (86 MW) of NG CT.

Year 2018, Anticipated addition (86 MW) of NG CT.

Year 2016, Big Stone Plant Economic Environmental Upgrade Evaluation.

Year 2020, Accounting retirement date for Frame 5's.

Year 2020, Accounting retirement date for Hoot Lake Plant.

Ties to July 1, 2010 IRP Basecase / Preferred Plan.

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

Please use the appropriate code for the fuel type as shown in the list at the bottom of the worksheet.

		FUEL TYPE 1		FUEL TYPE 2		FUEL TYPE 3		FUEL TYPE 4		FUEL TYPE 5		FUEL TYPE 6	
		Name of Fuel	SUB	Name of Fuel	FO2	Name of Fuel	HYD	Name of Fuel	NG	Name of Fuel	FO2	Name of Fuel	
		Unit of Measure	Tons	Unit of Measure	Gallons	Unit of Measure		Unit of Measure	MMBTU	Unit of Measure	Gallons	Unit of Measure	
		QUANTITY OF FUEL USED	NET MWH GENERATED	QUANTITY OF FUEL USED	NET MWH GENERATED	QUANTITY OF FUEL USED	NET MWH GENERATED	QUANTITY OF FUEL USED	NET MWH GENERATED	QUANTITY OF FUEL USED	NET MWH GENERATED	QUANTITY OF FUEL USED	NET MWH GENERATED
Past Year	2009	370078	598692	76767	25		24095	302076	31523	53107	NA		
Present Year	2010	426700	662582	79510	25		24000	247400	25142	NA	NA		
1st Forecast Year	2011	416100	644840	77381	25		24000	293351	29713				
2nd Forecast Year	2012	405600	630424	75651	25		24000	268655	27302				
3rd Forecast Year	2013	418600	649368	77924	25		24000	301063	30634				
4th Forecast Year	2014	439400	683096	81972	25		24000	304489	30950				
5th Forecast Year	2015	434000	677349	81282	25		24000	338054	34220				
6th Forecast Year	2016	466800	727624	87315	25		24000	398482	40704				
7th Forecast Year	2017	476900	744238	89309	25		24000	182652	18582				
8th Forecast Year	2018	516500	808507	97021	25		24000	75148	7614				
9th Forecast Year	2019	514100	800420	96050	25		24000	173585	17667				
10th Forecast Year	2020	0	0	1050	25		24000	97729	9913				
11th Forecast Year	2021	0	0	1050	25		24000	91586	9305				
12th Forecast Year	2022	0	0	1050	25		24000	91392	9292				
13th Forecast Year	2023	0	0	1050	25		24000	151732	15429				
14th Forecast Year	2024	0	0	1050	25		24000	109368	11132				

LIST OF FUEL TYPES

- | | | |
|---------------------------------------|-------------------------------------|---------------------|
| BIT - Bituminous Coal | LPG - Liquefied Propane Gas | HYD - Hydro (water) |
| COAL - Coal (general) | NG - Natural Gas | WIND - Wind |
| DIESEL - Diesel | NUC - Nuclear | WOOD - Wood |
| FO2 - Fuel Oil #2 (Mid-distillate) | REF - Refuse, Bagasse, Peat, Non-wc | SOLAR - Solar |
| FO6 - Fuel Oil #6 (Residual fuel oil) | STM - Steam | |
| LIG - Lignite | SUB - Sub-bituminous coal | |

COMMENTS

Fuel Type 2 (FO2) - generation is for Fergus Control Center diesel. Quantity fuel used reflects Fergus Control Center and Hoot Lake Plant. FO2 used at Hoot Lake is primarily for start-ups and some for boiler temperature control.

Fuel Type 5 (FO2) is for back-up fuel for Solway unit. Full generation amount is applied to NG in forecast.

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0500 TRANSMISSION LINES

Subpart 1. **Existing transmission lines.** Each utility shall report the following information in regard to each transmission line of 200 kilovolts now in existence:

- A. a map showing the location of each line;
- B. the design voltage of each line;
- C. the size and type of conductor;
- D. the approximate location of d.c. terminals or a.c. substations; and
- E. the approximate length of each line in Minnesota.

Subpart 2. **Transmission line additions.** Each generating and transmission utility, as defined in part 7610.0100, shall report the information required in subpart 1 for all future transmission lines over 200 kilovolts that the utility plans to build within the next 15 years.

Subpart 3. **Transmission line retirements.** Each generating and transmission utility, as defined in part 7610.0100, shall identify all present transmission lines over 200 kilovolts that the utility plans to retire within the next 15 years.

In Use (enter X for selection)	To Be Built (enter X for selection)	To Be Retired (enter X for selection)	DESIGN VOLTAGE	SIZE OF CONDUCTOR	TYPE OF CONDUCTOR	D.C. OR A.C. (specify)	LOCATION OF D.C. TERMINALS OR A.C. SUBSTATIONS	INDICATE YEAR IF "TO BE BUILT" OR "RETIRED"	LENGTH IN MINNESOTA (miles)
X			230.	954	ASCR	A.C.	Winger Substation to Wilton Substation		53.3
X			230.	795	ASCR	A.C.	Sheyenne Substation to Audubon Substation		42.4
X			230.	795	ASCR	A.C.	Fergus Falls Substation to Wahpeton Substation		27.8
X			230.	795	ASCR	A.C.	Fergus Falls Substation to Henning Substation		30.4
X			230.	954	ASCR	A.C.	Harvey Substation to Balta Substation		
X			230.	954	ASCR	A.C.	Balta Substation to Rugby Substation		
X			230.	954	ASCR	A.C.	Coal Creek Substation to Underwood Substation		
X			230.	954	ASCR	A.C.	Underwood Substation to Harvey Substation		
X			345.	1,272	ASCR	A.C.	Center Substation to Jamestown Substation		
X			230.	954	ASCR	A.C.	Drayton Substation to Prairie Substation		
X			230.	795	ASCR	A.C.	Wahpeton Substation to Hankinson Substation		
X			230.	954	ASCR	A.C.	Browns Valley Substation to Hankinson Substation		
X			230.	1,272	ASCR	A.C.	Big Stone Substation to Blair Substation		
X			230.	795	ASCR	A.C.	Hankinson Substation to Forman Substation		
X			230.	795	ASCR	A.C.	Forman Substation to Oakes Substation		
X			230.	795	ASCR	A.C.	Oakes Substation to Ellendale Substation		
X			230.	795	ASCR	A.C.	Pillsbury Substation to Ashtabula II Substation		
	X		230.	954	ASCR	A.C.	Wilton Substation to Cass Lake Substation	2011	19
	X		230.	954	ASCR	A.C.	Cass Lake Substation to Boswell Substation	2011	50
	X		345.	TBD	TBD	A.C.	Brookings County Sub to Lyon County Sub3	2016	58
	X		345.	TBD	TBD	A.C.	Lyon County Sub to Cedar Mountain Sub #13	2016	52
	X		345.	TBD	TBD	A.C.	Cedar Mountain Sub to Helena Switch Station #13	2016	62
	X		345.	TBD	TBD	A.C.	Helena Switch Station to Lake Marion Sub3	2016	28
	X		345.	TBD	TBD	A.C.	Lake Marion Sub to Hampton Corners Sub3	2016	19
	X		345.	TBD	TBD	A.C.	Lyon County Sub to Hazel Creek Sub3	2016	25
	X		345.	TBD	TBD	A.C.	Hazel Creek Sub to MN Valley Sub3	2016	5
	X		345.	TBD	TBD	A.C.	Bison 345 kv Sub to Alexandria Switch Station	2015	125
	X		345.	TBD	TBD	A.C.	Alexandria Switch Station to St. Cloud (Quarry) Sub	2015	65
	X		345.	TBD	TBD	A.C.	St. Cloud (Quarry) Sub to Monticello 345 kv Sub	2015	25

COMMENTS

¹The Wilton to Boswell 230 kV line is also known as the Bemidji-Grand Rapids line and is currently in the Permitting Process. Provided a permit is approved, it is anticipated that the line would be owned by Minnkota Power Cooperative Minnesota Power, Otter Tail Power Co., Great River Energy and Xcel Energy and have an estimated in-service date of December 2011.

²These 345 kV line additions are all part of the CapX 2020 Twin Cities-Fargo 345 kV Project. This project includes line segments between Monticello and a new Quarry Substation on the west side of St. Cloud area, a segment between St. Cloud and the Alexandria area and between Alexandria and the Maple River Substation in the Fargo area and is currently being permitted. It is anticipated that the line would be owned by Minnesota Power, Otter Tail Power Company, Missouri River Energy Services, Great River Energy and Xcel Energy.

³These 345 kV line additions are all part of the CapX 2020 Brookings - Twin Cities 345 kV Project. This project includes line segments between Brookings and Lyon County near Marshall, a segment between Lyon County and Franklin (called Cedar Mountain), a segment between Franklin and the Helena Substation (near New Prague), a segment between Helena Substation and Lake Marion (near Farmington/Lakeville area) and a segment between Lake Marion and Hampton Corners. In addition, there will be a 345 kV line from Lyon County to Hazel Creek (south of Granite Falls) with a tie-in from Hazel Creek to the existing MN Valley Substation. This line is currently being permitted. It is anticipated that the line would be owned by Xcel Energy, Great River Energy, Otter Tail Power Company, and Missouri River Energy Services.

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0500 TRANSMISSION LINES

Subpart 1. **Existing transmission lines.** Each utility shall report the following information in

A. a map showing the location of each line;

[TRADE SECRET DATA BEGINS

*** PUBLIC DOCUMENT - TRADE SECRET INFORMATION HAS BEEN EXCISED ***

TRADE SECRET DATA ENDS]

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

7610.0600, item A. 24 - HOUR PEAK DAY DEMAND

Each utility shall provide the following information for the last calendar year:

A table of the demand in megawatts by the hour over a 24-hour period for:

1. the 24-hour period during the summer season when the megawatt demand on the system was the greatest; and
2. the 24-hour period during the winter season when the megawatt demand on the system was the greatest

	DATE	DATE
	8/13/09	1/8/10
		<= ENTER DATES
TIME OF DAY	MW USED ON SUMMER PEAK DAY	MW USED ON WINTER PEAK DAY
0100	385	713
0200	381	709
0300	383	711
0400	379	712
0500	383	717
0600	390	735
0700	423	759
0800	475	764
0900	522	664
1000	546	673
1100	559	780
1200	582	817
1300	593	766
1400	604	747
1500	601	732
1600	612	740
1700	618	750
1800	600	746
1900	589	730
2000	564	721
2100	513	764
2200	502	749
2300	485	733
2400	462	703

COMMENTS

SECTION 3

**Electric Utility Information Reporting
Forecast Section**

Form EN-0005 – 20

7610.0320 FORECAST DOCUMENTATION

December 2009

Long-range Sales and Demand Forecasts

Otter Tail Power Company

1. Introduction

The following forecasts are econometric long range forecasts. The methodology was changed from an end use to an econometric model per the Minnesota Public Utilities Commission order in docket E-017/RP-02-1168 issued March 20, 2003, Item 2. Implement a different energy and demand forecasting methodology. Otter Tail Power Company employed Christiansen Associates of Madison, Wisconsin to develop a traditional econometric forecasting model to replace the previous end-use model. The models used in the December 2009 long-range forecasts were reviewed by Christensen Associates in December 2009. The main purpose of this forecast is for use in the Integrated Resource Plan (IRP). Other work areas in the Company provided information and assistance.

2. Forecast results

This section describes the results of the forecast. The sales forecast is presented first, followed by the peak-demand forecast. The forecast includes two alternatives generated from a confidence interval around the forecasted demand values. All data represents Otter Tail Power Company alone. There are no contractual pool sales to municipal or agency loads served by other utilities commingled in these results. Only the portion of load in excess of load from other suppliers used by municipals or agencies and served at retail are included in this forecast.

3.1 Sales forecast

The sales forecast consists of a base forecast and two alternative scenarios. The base forecast is the most-likely estimate of future load based on the data provided in the model. The alternative forecasts are generated using the uncertainty around the estimated parameters of the forecasting equation system peak model which contains an estimate of the effect of weather on peak demand. That parameter estimate has a standard error associated with it that can be used to generate a confidence interval around the forecasted demand value (e.g., there is some probability that the “true” value of the parameter is actually larger than the estimated value, leading to a higher peak demand for a given assumed weather condition). It is important to note that when the confidence interval around the demand forecast is calculated in this way, the values of the explanatory variables, such as weather, economic growth, and demographics are all maintained at assumed, or expected levels (e.g., there is no accounting for the forecast uncertainty due to the fact that weather conditions in some of the forecast years are likely to differ from the expected conditions). The scenarios represent about a 10% spread above and below the base.

This forecast represents unmanaged sales. This forecast is included as one variable in the modeling for the IRP and a load management forecast is included as another variable.

3.1.1 Growth rates and scenario spread

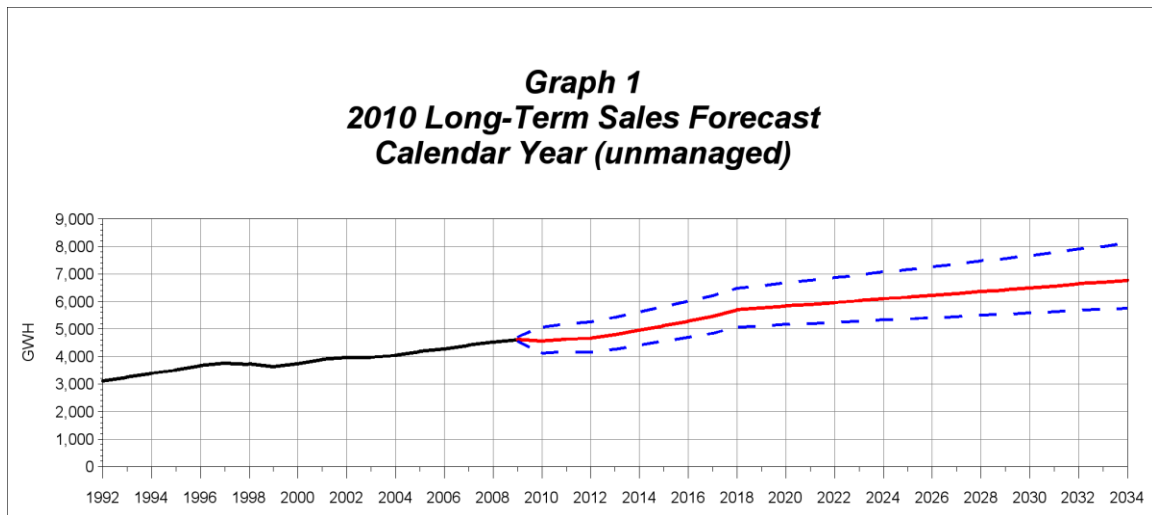
Table 1 summarizes the growth of the sales forecast. Sales growth in this forecast is primarily due to increases in electric use and secondarily due to customer growth and other factors.

Table 1
2010 Sales Forecast Statistics
Average Compounded Growth Rates

Years	Low Forecast	Base Forecast	High Forecast
2010 to 2034	1.40%	1.66%	1.98%

3.1.2 Sales data

The actual listing of the sales forecast is shown in Graph 1 and Table 2. The graph shows that the forecast and scenarios smoothly continue from the historical sales.



Ten-year (2010 to 2020) average compound growth rates for energy by class are: 0.83% for residential, 0.50% for the small commercial class, 2.25% for large commercial and (0.43%) for other miscellaneous classes. The latest forecast for large pipelines predicts about 9.12% growth.

Table 2
2010 Long Term Forecast
Annual Sales Forecast (Unmanaged)
Includes Losses
Gigawatt-hours

Year	Low Forecast	Low Forecast Annual Growth Percent	Base Forecast	Base Forecast Annual Growth Percent	High Forecast	High Forecast Annual Growth Percent
2010	4128.509	.	4564.326	.	5073.579	.
2011	4161.921	0.8%	4635.966	1.6%	5196.326	2.4%
2012	4157.872	(0.1%)	4662.139	0.6%	5262.989	1.3%
2013	4271.773	2.7%	4799.168	2.9%	5431.540	3.2%
2014	4415.996	3.4%	4966.151	3.5%	5629.433	3.6%
2015	4559.836	3.3%	5131.801	3.3%	5824.846	3.5%
2016	4694.033	2.9%	5289.223	3.1%	6013.807	3.2%
2017	4845.855	3.2%	5460.205	3.2%	6211.532	3.3%
2018	5065.896	4.5%	5701.251	4.4%	6481.751	4.4%
2019	5108.929	0.8%	5765.344	1.1%	6575.284	1.4%
2020	5165.554	1.1%	5845.454	1.4%	6688.090	1.7%
2021	5198.178	0.6%	5897.494	0.9%	6768.093	1.2%
2022	5240.601	0.8%	5961.702	1.1%	6863.433	1.4%
2023	5283.278	0.8%	6026.414	1.1%	6959.872	1.4%
2024	5338.354	1.0%	6106.448	1.3%	7075.614	1.7%
2025	5367.413	0.5%	6155.773	0.8%	7155.059	1.1%
2026	5409.982	0.8%	6221.399	1.1%	7254.662	1.4%
2027	5452.989	0.8%	6287.801	1.1%	7355.834	1.4%
2028	5509.911	1.0%	6371.358	1.3%	7478.701	1.7%
2029	5539.450	0.5%	6422.496	0.8%	7563.119	1.1%
2030	5582.120	0.8%	6490.058	1.1%	7668.608	1.4%
2031	5626.585	0.8%	6559.820	1.1%	7777.300	1.4%
2032	5685.713	1.1%	6647.763	1.3%	7909.242	1.7%
2033	5717.128	0.6%	6702.522	0.8%	8001.412	1.2%
2034	5763.210	0.8%	6775.429	1.1%	8116.790	1.4%

3.2 Peak-demand forecast

Tables 3 and 4 summarize the average compound growth rates of the 2010 peak-demand forecast. It can be seen from these tables that all scenarios show growth over the 2010-2034 forecast period.

Table 3
2010 Summer Peak Forecast Statistics (Unmanaged)
Average Compounded Growth Rates

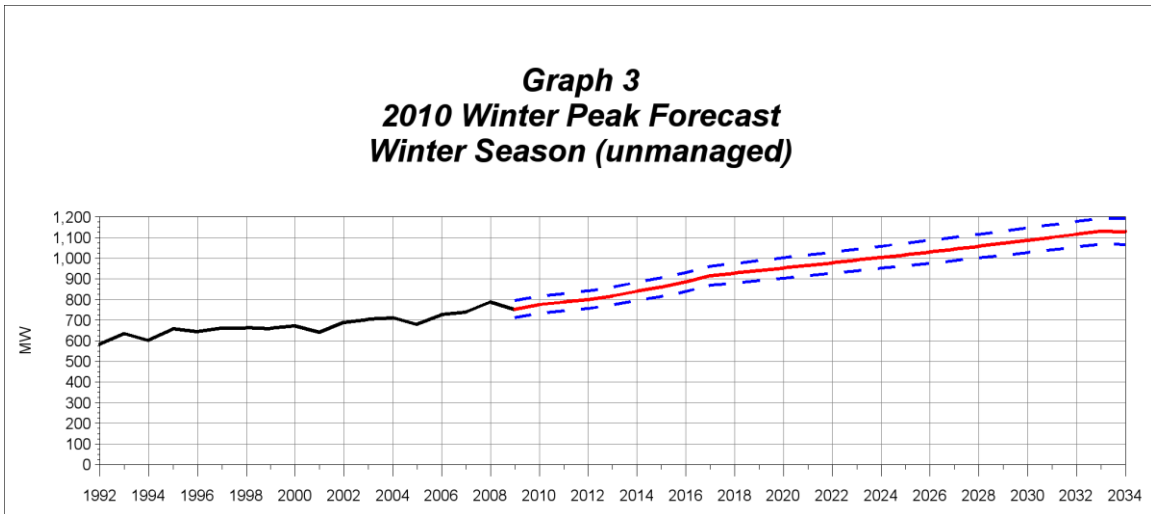
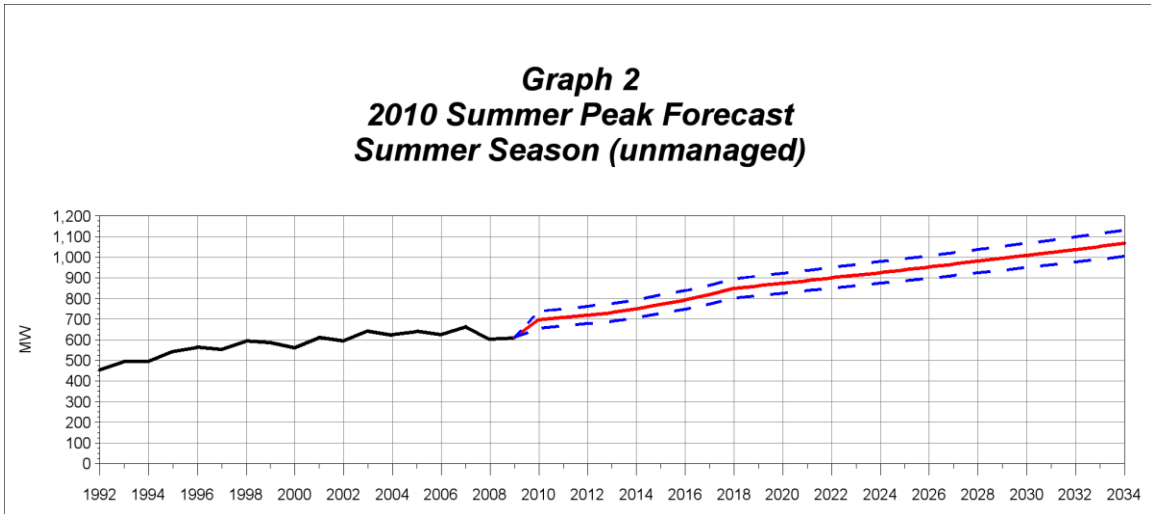
Years	Low Forecast	Base Forecast	High Forecast
2010 to 2034	1.80%	1.79%	1.79%

Table 4
2010 Winter Peak Forecast Statistics (Unmanaged)
Average Compounded Growth Rates

Years	Low Forecast	Base Forecast	High Forecast
2010 to 2033	1.65%	1.65%	1.66%

Graphs 2 and 3 show how the summer and winter peak-demand forecasts appear with the the two scenarios. Historical peaks are also displayed on the graphs.

It's important to point out that the high and low scenarios represent situations where saturations change in ways that contribute to the additional growth of customer electricity use or change in ways that reduce customer electricity use. Actual growth is intended to be between the two scenarios, with the best estimate being along the forecast scenario line.



Electric peak demands are very sensitive to external forces. They display wide swings that may be attributable to high saturations of controllable electric space heating loads, customer perceptions of electric price with respect to competing fuels, and weather, among other factors. The true level of demand growth, consequently, can be hard to predict. Since there are irreconcilable shifts in system peak loads from year to year, it is assumed that the highest peaks are the best indicators of the true load level. Therefore, the most important forecasting objective is for the highest observed peaks to fall within the forecast region bounded by the high and low scenarios.

Tables 5 and 6 detail the actual peak demand forecast for the summer and winter seasons. This data is listed by MISO year where, by definition, the Summer Season precedes the Winter Season. The Winter Season follows into the next calendar year. For example, Summer 2010 starts in May 2010 and goes through October 2010, where Winter Season 2010 starts in November 2010 and goes through April 2011. This model projects in monthly intervals through December of 2034.

Table 5
2010 Long Term Forecast
Summer Peak Demand Forecast (Unmanaged)
Includes losses
Megawatts

Year	Low Forecast	Low Forecast Annual Growth Percent	Base Forecast	Base Forecast Annual Growth Percent	High Forecast	High Forecast Annual Growth Percent
2010	655	.	697	.	739	.
2011	666	1.7%	708	1.7%	750	1.6%
2012	678	1.7%	720	1.7%	762	1.6%
2013	689	1.7%	732	1.6%	775	1.6%
2014	707	2.6%	750	2.5%	794	2.5%
2015	729	3.1%	773	3.0%	817	2.9%
2016	748	2.7%	793	2.7%	838	2.6%
2017	773	3.3%	818	3.2%	864	3.1%
2018	803	3.9%	849	3.8%	896	3.7%
2019	814	1.4%	862	1.5%	909	1.5%
2020	826	1.4%	874	1.5%	923	1.5%
2021	838	1.4%	887	1.5%	936	1.5%
2022	850	1.4%	900	1.5%	950	1.5%
2023	862	1.4%	913	1.4%	964	1.5%
2024	874	1.4%	926	1.4%	979	1.5%
2025	886	1.4%	940	1.4%	993	1.5%
2026	899	1.4%	953	1.4%	1008	1.5%
2027	911	1.4%	967	1.4%	1022	1.5%
2028	924	1.4%	981	1.4%	1037	1.5%
2029	937	1.4%	995	1.4%	1052	1.4%
2030	950	1.4%	1009	1.4%	1067	1.4%
2031	963	1.4%	1023	1.4%	1083	1.4%
2032	977	1.4%	1038	1.4%	1098	1.4%
2033	991	1.4%	1053	1.4%	1114	1.4%
2034	1005	1.4%	1068	1.4%	1130	1.4%

Table 6
2010 Long Term Forecast
Winter Peak Demand Forecast (Unmanaged)
Includes losses
Megawatts

Year	Low Forecast	Low Forecast Annual Growth Percent	Base Forecast	Base Forecast Annual Growth Percent	High Forecast	High Forecast Annual Growth Percent
2010	734	.	776	.	817	.
2011	745	1.5%	787	1.5%	829	1.5%
2012	756	1.5%	799	1.5%	841	1.5%
2013	774	2.3%	817	2.3%	860	2.2%
2014	795	2.8%	839	2.7%	883	2.6%
2015	815	2.5%	860	2.4%	904	2.4%
2016	839	3.0%	885	2.9%	930	2.9%
2017	869	3.6%	915	3.5%	962	3.4%
2018	880	1.3%	928	1.3%	975	1.4%
2019	892	1.3%	940	1.3%	988	1.4%
2020	904	1.3%	953	1.3%	1002	1.4%
2021	915	1.3%	966	1.3%	1016	1.4%
2022	927	1.3%	978	1.3%	1030	1.4%
2023	939	1.3%	991	1.3%	1044	1.4%
2024	951	1.3%	1005	1.3%	1058	1.4%
2025	964	1.3%	1018	1.3%	1072	1.4%
2026	976	1.3%	1031	1.3%	1087	1.4%
2027	989	1.3%	1045	1.3%	1102	1.4%
2028	1001	1.3%	1059	1.3%	1116	1.3%
2029	1014	1.3%	1073	1.3%	1131	1.3%
2030	1027	1.3%	1087	1.3%	1147	1.3%
2031	1041	1.3%	1101	1.3%	1162	1.3%
2032	1054	1.3%	1116	1.3%	1178	1.3%
2033	1068	1.3%	1131	1.3%	1194	1.3%

4. Principal influences on the forecasts

The following are brief discussions of the primary influences on the forecasts. The tables below describe the variables used in the forecasts. Pipeline sales are forecast manually based primarily on information provided by the pipeline customers.

Table 7

Data Used in Energy Forecast Models								
	<i>logkwhday</i>	<i>cddday</i>	<i>hddday</i>	<i>logcust</i>	<i>logques41</i>	<i>logques109</i>	<i>logrealgdp</i>	<i>logeleprice</i>
Residential-MN	x	x	x	x				
Residential-ND	x	x	x	x				
Residential-SD	x	x	x	x				
Farm-MN	x	x	x					x
Farm-ND	x	x	x					x
Farm-SD	x	x	x					x
Small Comm-MN	x	x	x				x	x
Small Comm-ND	x	x	x				x	x
Small Comm-SD	x	x	x				x	x
Large Comm-MN	x	x	x				x	
Large Comm-ND	x	x	x				x	
Large Comm-SD	x	x	x				x	
OPA-MN	x		x					
OPA-ND	x	x	x					
OPA-SD	x		x					x
Streetlight-MN	x					x		
Streetlight-ND	x							
Streetlight-SD	x							
Unclassified-MN	x		x		x			
Unclassified-ND	x		x					
Unclassified-SD	x	x	x					

- *logkWh day*: the log of average daily energy use for each class for each month
- *cddday*: average daily cooling degree days for each month
- *hddday*: average daily heating degree days for each month
- *logcust*: the log of the customer count for the residential class
- *logques41*: the log of transportation and warehousing employment– Woods & Poole
- *logques109*: the log of total retail sales – Woods & Poole
- *logrealgdp*: the log of real gross domestic product (GDP)
- *logeleprice*: the log of electricity prices – OTP and EIA

Table 8

Data Used in Demand Forecast Models								
	<i>maxmonmw</i>	<i>ques97</i>	<i>realgdp</i>	<i>sthibuildup</i>	<i>swthibuildup</i>	<i>wfaws</i>	<i>whddbuidup</i>	<i>swcddhddbuidup</i>
Demand-System	x	x	x	x	x	x	x	x

- *maxmonmw*: monthly maximum demands including controlled load, excluding pipeline demands
- *ques97*: the total number of households Woods & Poole
- *realgdp*: real Gross Domestic Product
- *sthibuildup*: summer months temperature humidity index buildup
- *swthibuildup*: swing months temperature humidity index buildup
- *wfaws*: winter Fargo wind speed
- *whddbuidup*: winter heating degree day buildup
- *swcddhddbuidup*: swing month cooling and heating degree buildup

Average hourly temperature data was obtained by averaging hourly temperatures across 14 division monitoring stations throughout Minnesota, North Dakota and South Dakota. Daily heating degree days (*hdd*) and cooling degree days (*cdd*) were calculated based on the standard 65 degree base and the rounded average of daily high and daily low temperatures.

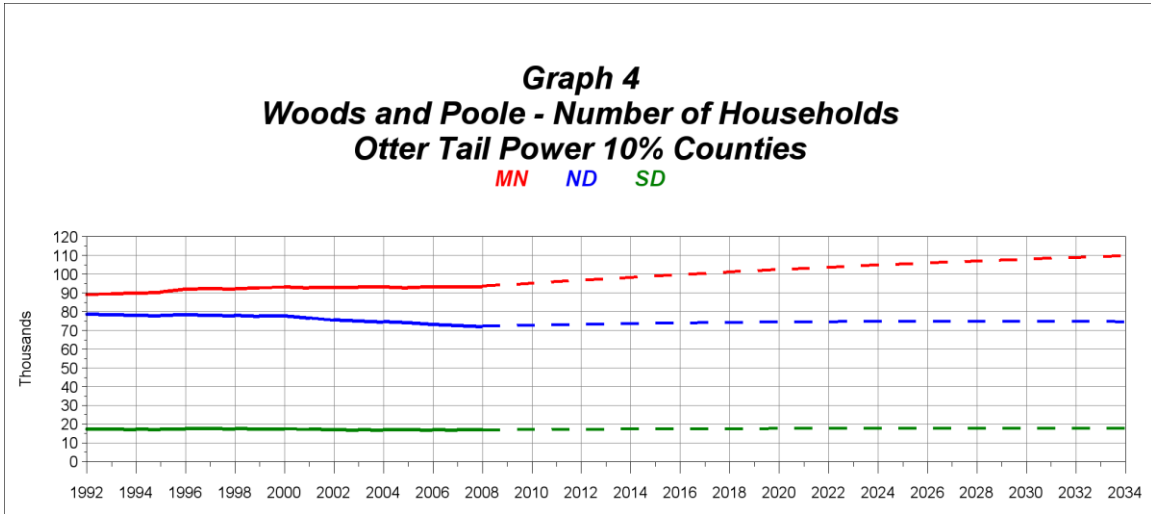
Hourly weather data files were obtained from the High Plains Regional Climatic Center (<http://www.hprcc.unl.edu>) for Fargo, ND. Fargo is used as a proxy for the system average weather data (other than temperatures which come from Otter Tail Power Company division weather stations).

Quarterly real Gross Domestic Product (GDP) data was downloaded from www.bea.gov. Real GDP was based on 2005 dollars. Real GDP data for the forecast period was based on the growth of the Woods and Pool forecast for Total Earnings of Employees for the United States (question 56)

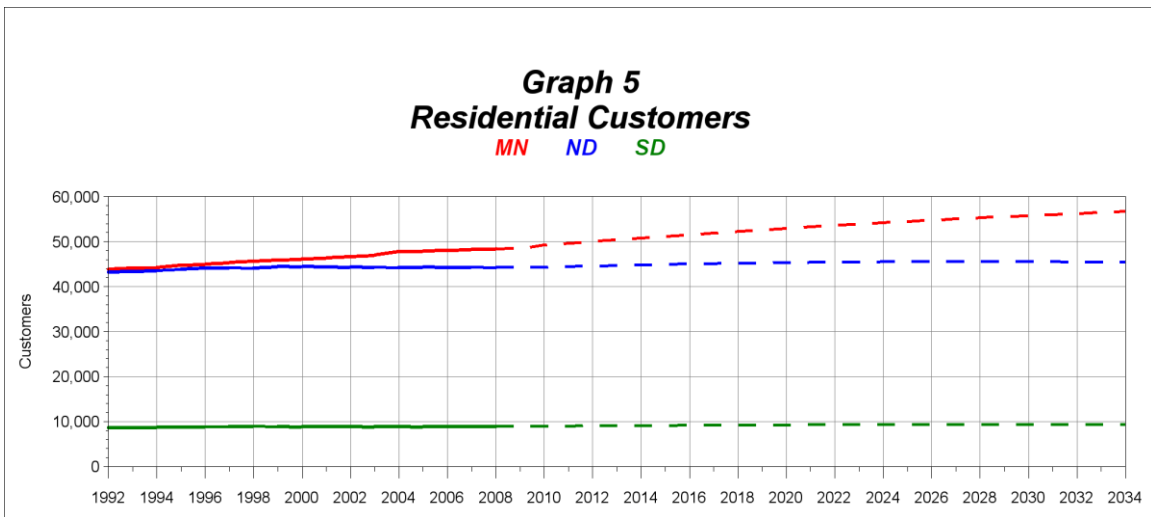
5.1 Population and Households

Population and household projections were obtained from Woods and Poole Economics, Inc. (W&P). Their projections are based on a standard demographic model that takes into account births, deaths, and migration rates. The Plains region is expected to have population growth rates just below the national average through 2040. Regionally, the population rate is expected to increase at about 0.73 percent. Woods and Poole points out that a wide disparity in growth exists from county to county. Most of the counties in the Plains region are projected to either have a net population loss or very little change over the next thirty years. Agricultural counties continue to show growth in production but

farm population is declining. (2010 State Profile-Minnesota, Woods and Pool Economics, Inc, pages 4-6)



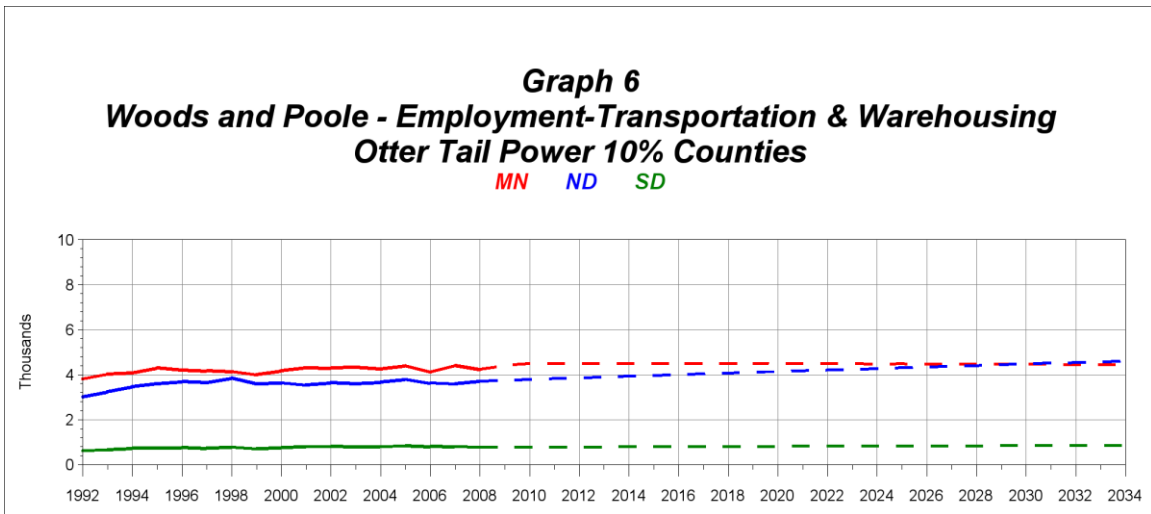
Otter Tail Power serves load in 75 counties. An earlier study identified counties that are predominately served by Otter Tail Power Company which, taken together, tend to be primary indicators of growth. We refer to these counties as “10% Counties”¹. Population characteristics and employment projections of these counties were used in the Otter Tail model to develop projections of the future number of households (Graph 4) and residential customers (Graph 5).



¹ This study showed that counties in which the total population of Otter Tail towns was less than about 10 percent of the total population of the county were not representative of the predominant growth trends of the Otter Tail system so they were dropped from aggregations of county data. Counties dropped included Cass (Fargo), Burleigh (Bismarck), and Grand Forks (Grand Forks).

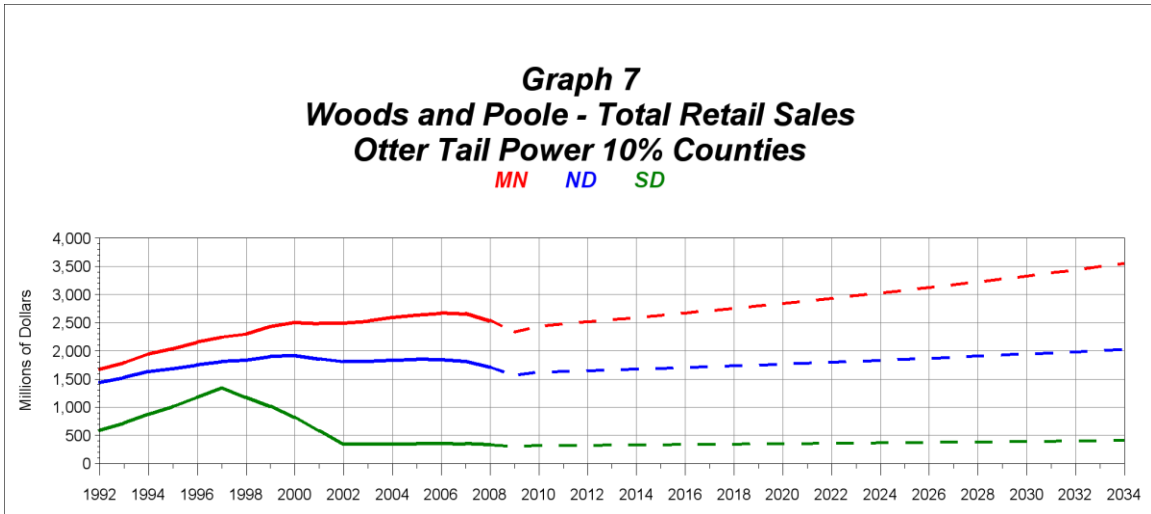
5.2 Employment

The Woods and Poole projections for employment, that are used in this forecast, in the counties representing the Otter Tail service territory, are shown in Graph 6. Regionally, the growth is expected to be about 0.91% with only a few counties showing robust growth. The decline in farm employment has caused many farm communities to lose jobs and population. Even though the international demand for food and the use of agricultural output for fuels suggests that regional employment can be expected to grow in the coming years, productivity gains are expected to keep farm employment, and thus overall employment, flat over the next two decades. (2010 State Profile-Minnesota, Woods and Pool Economics, Inc, pages 4-6)



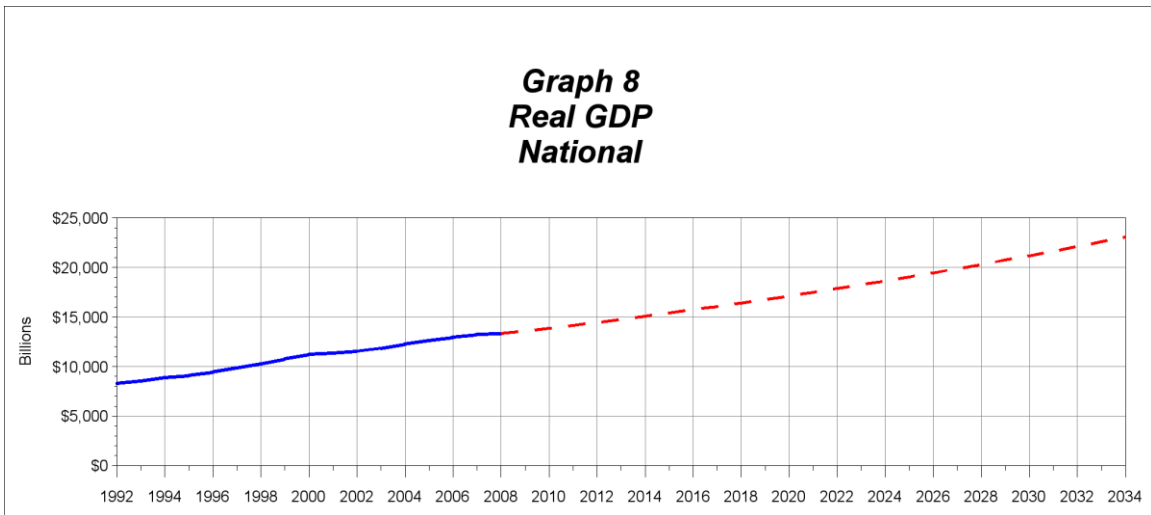
5.3 Total Retail Sales

The Woods and Poole projections for retail sales for counties representing the Otter Tail Power Company service territory are shown in Graph 7. This variable is only used for Minnesota and North Dakota. Woods and Poole was not able to give a reasonable explanation for the South Dakota's historical Total Retail Sales.



5.4 Electricity Prices and GDP (gross domestic product)

The price of electricity was obtained by dividing Otter Tail Power Company monthly revenue (including CIP and COE) by kWh. Forecast period electricity prices were based on the Energy Information Administration (EIA) forecast of energy prices by sector and sources for the west north central region. Gross Domestic Product (GDP) values were downloaded from the Bureau of Economic Analysis (BEA) website. Forecast period GDP values were based on the Woods and Poole forecast for Total Earnings of Employers for the United States (ques56). Real GDP is shown in Graph 8.



5.5 Temperature and the forecast

The primary driver of the day-to-day variation of electric load is temperature. While historical load responds to the temperature that occurs at the time the load is measured, the load forecasting process raises the question of what temperatures should be used for the unknown future.

The energy forecast was created using hourly temperature data obtained from 14 division monitoring stations throughout Minnesota, North Dakota and South Dakota. Scheduled billing cycle start and stop dates were obtained from the Customer Information System (CIS). Daily heating degree days (*hdd*) and cooling degree days (*cdd*) were calculated for each monitoring station based on the standard 65 degree base and the rounded average of daily high and daily low temperatures. Daily degree days were then averaged for each state and added to calculate billing month and calendar month heating degree days and cooling degree days. Average daily *hdd* and *cdd* were calculated over a 20 year period to calculate normal billing month and calendar month *hdd* and *cdd*. Billing month *hdd* and *cdd* per day were found by dividing billing month *hdd* and *cdd* by the average number of days in each month's billing cycles. Calendar month *hdd* and *cdd* per day were found by dividing calendar month *hdd* and *cdd* by the number of days in the calendar month. Billing month *hdd* and *cdd* were used for the historical period and calendar month *hdd* and *cdd* were used for the forecast period.

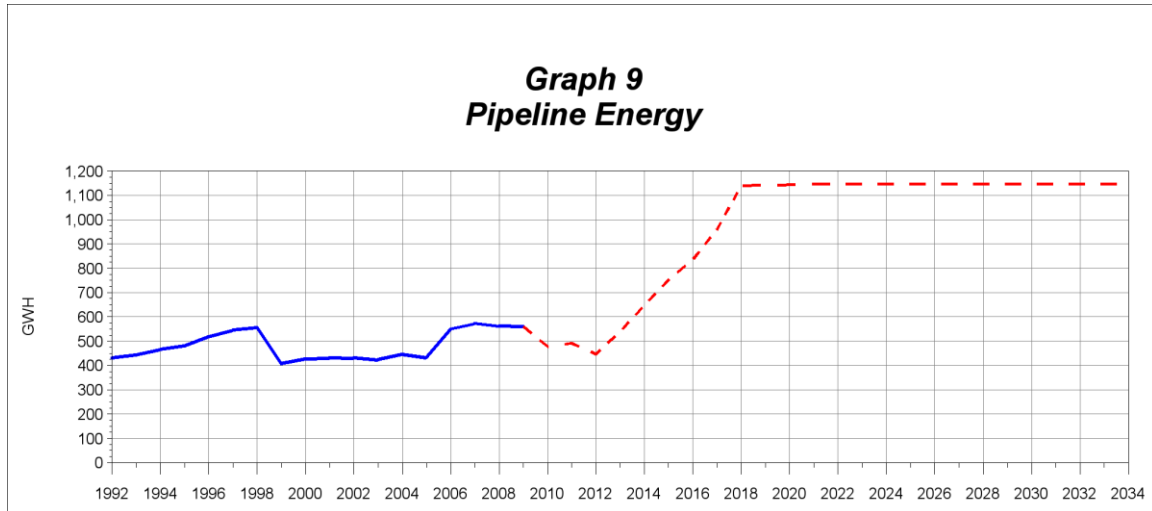
For **the Demand Forecast**, hourly weather data files were obtained from the High Plains Regional Climatic Center (www.hprcc.unl.edu) for Fargo, ND. Fargo is used as a proxy for the system average weather data (other than temperatures which come from Otter Tail Power, Company division weather stations). The hourly temperature humidity index (*thi*) was calculated, from the hourly dry bulb temperatures and the hourly relative humidity ($thi=db-(.55-.55*rh/100)*(db-58)$). Average daily temperature humidity index (*thi*) and wind speed (*faws*) were calculated from the hourly values. The variable *thibuildup* was calculated from *thi* for the day of monthly system peak and *thi* from the previous three days so that each previous day has half the influence of following day $((40/75)*thi+(20/75)*lag1thi+(10/75)*lag2thi+(5/75)*lag3thi)$. The variable *sthibuildup* has the value of *thibuildup* for the months of June, July and August and zero for all other months. The variable *swthibuildup* has the value of *thibuildup* for the months of May and September and zero for all other months. The variable *wfaws* is Fargo wind speed for the months of January, February, March, April, October, November and December and zero for all other months. Forecast period *sthibuildup*, *swthibuildup* and *wfaws* variables were calculated by determining the value of *thi* for each monthly system peak day and the three days previous to the peak for the last 17 years. Peak day average wind speed was also determined for each of these months. Monthly average values for each of the variables over the 17-year period were calculated and used to calculate *sthibuildup*, *swthibuildup* and *wfaws* for the forecast period. The demand forecast also uses average hourly temperature data obtained by averaging hourly temperatures across 14 division monitoring stations throughout Minnesota, North Dakota and South Dakota to calculate the variables *hddbuidup*, *cddbuidup*, *swcddhddbuidup* and *whddbuidup* (*whddbuidup*: winter heating degree day buildup, *swcddhddbuidup*: swing month cooling and heating degree buildup).

5.6 Pipeline Forecasts

A major influence on the forecast is the energy and demand requirements of the twelve pipeline pumping stations served by Otter Tail Power. Seven of the twelve pumping stations are owned by Enbridge Inc (Enbridge).

Enbridge is in the midst of a multibillion dollar capital investment cycle that includes the expansion of pipelines with pumping stations served by Otter Tail Power. Because crude oil demand in the US is expected to be relatively flat in the short term and increase over the long term, energy sales to Enbridge pumping stations is expected to decrease slightly from historical levels through 2012 and to significantly increase starting in 2013 through 2018 due to the pipeline expansion. The energy forecast for all twelve pumping stations is shown in Graph 9 with the majority of sales to the Enbridge pumping stations.

Enbridge has a contract (approved by the Minnesota Public Utilities Commission) with Otter Tail Power which limits their demand. The level was set at 57 MW when this forecast was prepared. A long-range forecast of Enbridge's contract demand was obtained from Enbridge. Enbridge expects to more than double their current demand by 2018.



6. Demand-side management

Otter Tail Power has several Demand-side management (DSM) programs in place including, but not limited to, conservation and direct load control. In preparing this forecast, no attempt is made to remove the impact past conservation programs have had on historical or future energy sales. In addition, this long range forecast does not attempt to forecast the impact future conservation programs will have on future energy sales. Forecasting the impact DSM programs will have on sales and demand is another step in the preparation of the IRP and is done by the Resource Planning Department at the time the IRP is prepared.

7. NERC Planning Standards

NERC Planning Standards are addressed in this section as required for the analysis of the reliability of the interconnected transmission system. Only requirements directly related to the Long Range Forecast are discussed.

MOD-016-1, R1: The Planning Authority and Regional Reliability organization shall have documentation identifying the scope and details of the actual and forecast (a) Demand data, (b) Net Energy for Load data, and (c) controllable DSM data to be reported for system modeling and reliability analysis.

Actual energy data is obtained from Otter Tail Power Company's CIS system. Actual demand data and estimates of load management are obtained from Otter Tail Power Company's System Operations Department. Estimates of load management are added to the actual demand data to give estimates of uncontrolled load. The Long Range Forecast is calculated on an uncontrolled basis. A spreadsheet containing Otter Tail Power Company's Long Range Forecast and copies of this Long Range Forecast documentation are available from the Resource Planning Department.

MOD-016-1,R1.1: The data submittal requirements shall stipulate that each Load-Serving Entity count its customer Demand once and only once, on an aggregated and dispersed basis, in developing its actual and forecast customer Demand values.

Customer Demand is only counted once in developing Otter Tail Power Company's forecast customer Demand values.

MOD-018-0, R1.1 : The Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner's report of actual and forecast demand data (reported on either an aggregated or dispersed basis) shall indicate whether the demand data of nonmember entities within an area or Regional Reliability organization are included.

Non-member entities are generally not included in the forecasts. Otter Tail Power Company provides power above the WAPA allocation to some entities at retail and this energy is included in Otter Tail Power Company sales reporting and is also included in this forecast.

MOD-018-0, R1.2 : The Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner's report of actual and forecast demand data (reported on either an aggregated or dispersed basis) shall address assumptions, methods, and the manner in which uncertainties are treated in the forecasts of aggregated peak demands and Net Energy for Load.

The principal variables used in the Long Range Forecast are weather and economic variables. Variables used are listed in section 4 of this document and discussed in detail in sections 5.1-5.6. Section 3.1 of this document discusses uncertainty in the forecasts.

MOD-021-0, R1: The Load-Serving Entity Transmission Planner and Resource Planner's forecasts shall each clearly document how the Demand and energy effects of DSM programs (such as conservation, time-of-use rates, interruptible Demands, and Direct Control load Management) are addressed.

Otter Tail Power's Long Range Forecast is an unmanaged forecast. It assumes that load management is not being used to control customer loads. Load management forecasting is another step in the preparation of the IRP and is done by the Resource Planning Department at the time the IRP is prepared.

In preparing Otter Tail Power's Long Range Forecast, no attempt is made to remove the impact past conservation programs have had on historical or future energy sales. In addition, this long range forecast does not attempt to forecast the impact future conservation programs will have on future energy sales. Like load management, conservation forecasting is another step in the preparation of the IRP and is done by the Resource Planning Department at the time the IRP is prepared.

MOD-021-0, R2: The Load-Serving Entity, Transmission Planner and Resource Planner shall each include information detailing how Demand-Side Management measures are addressed in the forecasts of its Peak Demand and annual Net Energy for Load in the data reporting procedures of Standard MOD-016-0_R1.

Otter Tail Power's Long Range Forecast is an unmanaged forecast. It assumes that load management is not being used to control customer loads. Control is another step in preparation of the IRP and is done by the Resource Planning Department at the time the IRP is prepared.

In preparing Otter Tail Power's Long Range Forecast, no attempt is made to remove the impact past conservation programs have had on historical or future energy sales. In addition, this long range forecast does not attempt to forecast the impact future conservation programs will have on future energy sales. Like load management, conservation forecasting is another step in the preparation of the IRP and is done by the Resource Planning Department at the time the IRP is prepared.

8. Impacts of new technologies

Recent discussions raise questions of how new energy technologies are handled in the forecast. Specifically, these might be electric vehicles, self-generation, and new loads such as computer and network related development. None of these items are specifically forecast or otherwise accounted for in the forecast.

Customer owned generation has primarily been intended for peak shaving situations and, since this forecast assumes all controllable loads are not being controlled, the self-generation capability is not being used.

9. Conclusions

9.1 Summary of results

The 2010 forecast of sales and demand shows that potential for growth continues to exist. The number of customers and employment projections indicate growth potential, although limited primarily to a few counties. The market environment of the large pipeline customer projections holds the potential for significant growth in electric pumping.

These factors increase the possibility of continuing growth in electric sales. While resulting forecasts of the sales of electricity show an increase in the near term, they are more uncertain in the long term. The OTP service territory is, for the most part, a slow growing region with the only potential for significant residential growth coming from the spill-over of the larger urban areas not served by OTP, the increased use of electric appliances, and increased use of electric space heating. The long-term small commercial growth will probably be similar to the past. Ag processing may be the primary driver for the large commercial class. A key uncertainty with the large commercial portion of the forecast relates to the construction of ethanol plants. This forecast includes new ethanol plant loads in the near term for which Otter Tail has information. It does not include specific consideration of additional ethanol plants in the long-term. While ethanol usage is being promoted by many states in our region, there are practical limits on how many ethanol plants can be located within a geographic region due to the availability of corn or other products used to make ethanol. There is also uncertainty with respect to whether or not Otter Tail would be the utility serving new ethanol plants. Each ethanol plant will typically have a demand in the 5 – 10 MW range, and thus there is the potential for future loads to be much higher if the ethanol plant expansion continues at the recent pace and Otter Tail is selected to serve some of those facilities.

System demand projections also show potential for increase in the near term. In the longer view, many uncertainties cloud the system demand picture. The likelihood of the increasing penetration of energy efficient appliances and the long term impact of the economic downturn that started late in 2008 and is continuing today are probably the greatest issues. Fears of inflation, falling interest rates, an unsteady stock market, and tight credit markets slow potential expansion. The knowledge of anticipated future growth patterns is something that can only be watched. More productive labor means that commercial growth can occur without the expansion of the labor force and consequently the residential sector. Without increases in the residential sector, the municipal requirements won't change, as it is reflected in the miscellaneous/other-public-authority segment. The retail/commercial sector isn't growing as much either, because it provides services to people. Fewer people mean fewer services will be required.

The overall conclusion is there are many reasons to assume that electric use will continue to grow modestly into the future.

9.2. Future objectives

Some issues to be addressed in the next forecasting cycle include:

- As always, forecasts provided by large customers will be reviewed and analyzed to test their validity.
- The models will be checked for accuracy against new historical data.

This concludes the 2010 forecast of supply and demand. Any comments or suggestions concerning this forecast, documentation, or methodology are welcome. The forecast becomes a more reliable and useful tool through the input of others. Please refer to the information at the beginning of the document for more details.