



## APPENDIX G

# 7610 Compliance Filing

## 2023-2037 INTEGRATED RESOURCE PLAN

Submitted to the Minnesota Public Utilities Commission

Docket No. **ET-2/RP-22-75**

March 31<sup>st</sup>, 2023

## 7610.0120 REGISTRATION

ENTITY ID#	121
REPORT YEAR	2021

Number of Power Plants	0
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UTILITY DETAILS	
UTILITY NAME	Great River Energy
STREET ADDRESS	12300 Elm Creek Blvd
CITY	Maple Grove
STATE	MN
ZIP CODE	55369-4718
TELEPHONE	763-241-5775
Scroll down to see allowable UTILITY TYPES	
* UTILITY TYPE	Co-op

CONTACT INFORMATION	
CONTACT NAME	John Williams
CONTACT TITLE	Senior Forecaster
CONTACT STREET ADDRESS	12300 Elm Creek Blvd
CITY	Maple Grove
STATE	MN
ZIP CODE	55369-5775
TELEPHONE	763-445-6119
CONTACT EMAIL ADDRESS	jwilliams@GREnergy.com

[illegible]

<b>PREPARER INFORMATION</b>	(do not type "Same as Above")
PERSON PREPARING FORMS	John Williams
PREPARER'S TITLE	Senior Forecaster
DATE	7/14/2022
PREPARER'S EMAIL ADDRESS	jwilliams@GREnergy.com

COMMENTS

**Code\***

Private

Public

Co-op

**MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)**

**CY 2021**

**7610.0150 FEDERAL OR STATE DATA SUBSTITUTION**

FEDERAL AGENCY (please spell out acronyms)	FORM NUMBER	FORM TITLE	FILING CYCLE (enter an "X" in the cell)		
			MONTHLY	YEARLY	OTHER
Department of Energy	EIA 861	Annual Electric Utility Report		X	

<b>COMMENTS</b>

## MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

## CY 2021

## 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

See "LargestCustomers" worksheet for data entry.

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

## C. MINNESOTA SERVICE AREA MAP

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

**The referenced map must be submitted in electronic format.**

# ITRADE SECRET DATA BEGINS

D. PURCHASES AND SALES FOR RESALE			RESALE ONLY
UTILITY NAME (please spell out acronyms)	INTERCONNECTED UTILITY (please spell out acronyms)	MWH PURCHASED	MWH SOLD FOR RESALE

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

# MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

## CY 2021

### 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 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 Department of Energy must be submitted in electronic format.

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

#### G. FINANCIAL AND STATISTICAL REPORT

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

For rural electric cooperatives, a copy of the Financial and Statistical Report to the US Department 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.

COLUMN 1 NUMBER OF RESIDENTIAL ELECTRICAL SPACE HEATING CUSTOMERS	COLUMN. 2 NUMBER OF RESIDENTIAL UNITS SERVED WITH ELECTRICAL SPACE HEATING	COLUMN 3 TOTAL MWH USED BY THESE CUSTOMERS AND UNITS
65,800	65,800	742,415

#### COMMENTS

Space Heating customers and usage are an estimated percentage of residential customers based on coop member survey.

# MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

CY 2021

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 IN 2021

COUNTY CODE	COUNTY NAME	MWH DELIVERED	COUNTY CODE	COUNTY NAME	MWH DELIVERED
1	Aitkin	186,717.16	46	Martin	74,733.03
2	Anoka	1,783,755.87	47	Meeker	106,700.05
3	Becker	111,457.59	48	Mille Lacs	175,561.61
4	Beltrami	419.07	49	Morrison	123,037.20
5	Benton	96,684.77	50	Mower	
6	Big Stone	4,914.97	51	Murray	56,440.06
7	Blue Earth	156,412.33	52	Nicollet	105,247.83
8	Brown	49,429.56	53	Nobles	53,469.96
9	Carlton	73,572.16	54	Norman	
10	Carver	152,466.39	55	Olmstead	-
11	Cass	249,420.54	56	Otter Tail	301,286.16
12	Chippewa	2,251.11	57	Pennington	
13	Chisago	169,714.72	58	Pine	202,331.90
14	Clay	6,840.43	59	Pipestone	671.34
15	Clearwater	334.02	60	Polk	
16	Cook	41,069.96	61	Pope	35,542.11
17	Cottonwood	37,362.29	62	Ramsey	78,910.47
18	Crow Wing	698,051.31	63	Red Lake	
19	Dakota	2,051,547.24	64	Redwood	42,981.98
20	Dodge	12,356.40	65	Renville	17,653.01
21	Douglas	111,146.32	66	Rice	112,822.15
22	Faribault	85,300.76	67	Rock	319.69
23	Fillmore		68	Roseau	
24	Freeborn	2,625.29	69	St. Louis	454,244.33
25	Goodhue	113,183.04	70	Scott	538,168.85
26	Grant	19,381.65	71	Sherburne	421,613.42
27	Hennepin	501,255.52	72	Sibley	47,055.14
28	Houston		73	Stearns	396,235.68
29	Hubbard	155,099.70	74	Steele	70,672.57
30	Isanti	334,962.39	75	Stevens	24,309.72
31	Itasca	267,715.61	76	Swift	40,968.13
32	Jackson	51,943.19	77	Todd	164,571.55
33	Kanabec	116,712.17	78	Traverse	
34	Kandiyohi	137,057.50	79	Wabasha	-
35	Kittson		80	Wadena	66,121.01
36	Koochiching	7,136.60	81	Waseca	18,581.42
37	Lac Qui Parle		82	Washington	75,727.23
38	Lake	62,798.01	83	Watonwan	36,700.20
39	Lake of the Woods		84	Wilkin	20,786.24
40	Le Sueur	96,945.76	85	Winona	
41	Lincoln	15.98	86	Wright	557,235.87
42	Lyon	715.79	87	Yellow Medicine	
43	McLeod	74,055.08		Burnett,Douglas,Was	63,194.18
44	Mahnomen			GRAND TOTAL (Entered)	12,506,720
45	Marshall			GRAND TOTAL (Calculated)	12,506,722

### COMMENTS

Includes three Wisconsin counties that are served by East Central Cooperative.

# MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

## CY 2021

### 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 (2021) Entire System		A Non-Farm Residential	B Residential With Space Heat	C Farm	D Small Commercial & Industrial	E Irrigation	F Large Commercial & Industrial	G Street & Highway Lighting	H Other (Include Municipals)	I Total (Columns A through H)
January	No. of Customers	522,168	64,763	60,701	50,265	3,882	3,292	5,327	1,120	711,518
	MWH	593,454	73,899	71,641	209,134	141	156,676	2,986	25,511	1,133,441
February	No. of Customers	522,458	64,800	60,740	50,336	3,881	3,296	5,317	1,121	711,949
	MWH	583,090	72,582	70,144	210,335	107	150,912	2,973	24,653	1,114,796
March	No. of Customers	523,012	64,869	60,812	50,346	3,916	3,303	5,315	1,120	712,693
	MWH	467,726	58,266	56,670	195,168	249	149,954	2,880	28,825	959,737
April	No. of Customers	523,604	64,943	60,884	50,431	3,962	3,306	5,314	1,124	713,567
	MWH	407,553	50,765	49,329	185,500	321	150,974	2,823	25,092	872,356
May	No. of Customers	524,394	65,041	60,973	50,507	4,418	3,304	5,321		713,958
	MWH	394,592	49,146	47,720	194,274	9,009	165,270	2,848	26,806	889,666
June	No. of Customers	525,285	65,151	61,073	50,559	4,441	3,301	5,325	1,121	716,256
	MWH	538,590	67,112	65,419	233,774	43,165	182,345	2,843	25,712	1,158,959
July	No. of Customers	526,078	65,249	61,165	50,593	4,458	3,305	5,331	1,122	717,301
	MWH	567,930	70,725	68,597	233,965	53,496	182,977	2,818	23,876	1,204,383
August	No. of Customers	526,835	65,343	61,256	50,670	4,459	3,311	5,361	1,123	718,358
	MWH	535,815	66,761	65,031	236,841	39,709	178,693	2,870	30,692	1,156,412
September	No. of Customers	527,609	65,440	61,351	50,754	4,456	3,312	5,365	1,123	719,410
	MWH	405,927	50,579	49,281	209,115	3,593	163,264	2,839	28,180	912,777
October	No. of Customers	528,889	65,599	61,500	50,828	4,442	3,330	5,374	1,124	721,086
	MWH	410,969	51,186	49,705	214,459	1,037	173,927	2,934	29,358	933,575
November	No. of Customers	529,765	65,709	61,612	50,929	3,947	3,329	5,390	1,125	721,806
	MWH	468,516	58,334	56,488	205,434	299	177,472	2,898	28,261	997,701
December	No. of Customers	530,504	65,800	61,699	51,061	3,939	3,326	5,396	1,126	722,851
	MWH	586,771	73,061	70,775	213,173	170	196,081	3,042	29,842	1,172,915
Total MWH		5,960,931	742,415	720,801	2,541,171	151,295	2,028,545	34,755	326,807	12,506,720

#### COMMENTS

# MINNESOTA ELECTRIC UTILITY ANNUAL REPORT (Continued)

CY 2021

## 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.

Classification of Energy Delivered to Ultimate Consumers (include energy used during the year for irrigation and drainage pumping)	Number of Customers at End of Year	Megawatt hours (round to nearest MWH)	Revenue (actual amount) (\$)
Farm (Column C)	61,699	720,801	\$86,411,193.31
Non-Farm Residential (Column A)	530,504	5,960,931	\$714,609,835.98
Commercial (portion of Columns D & F)	51,061	2,541,171	\$304,641,354.88
Industrial (portion of Columns D & F)	3,330	2,028,545	\$243,186,518.06
Street & Highway Lighting (Column G)	5,396	34,755	\$4,166,500.40
All other (Column H), including Residential with Space Heat (Column B) and Irrigation (Column E)	71,165	1,220,517	\$146,318,295.37
<b>Entered Total</b>			

This column reports 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 (Minnesota Statutes, section 216B.62, Subd. 5).

^ Column letter references in the ElectricityByMonth Tab

^ should match Cell G55 in the ElectricityByCounty Tab

**CALCULATED TOTAL**

723,155

12,506,720

1,499,333,698

### COMMENTS

**REMEMBER TO SEND/UPLOAD THE FOLLOWING ATTACHMENTS:****DO NOT INSERT THE ATTACHMENT INTO THIS WORKBOOK**

1	If applicable, the Largest Customer List (Attachment ELEC-1), if the separate LargestCustomers workbook 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 Department 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 Department of Agriculture (pursuant to MN Rules Chapter 7610.0600 G)

When submitting this workbook and attachments, please following the file naming format of:

ELEC\_###\_2021 Annual Report (this workbook)

ELEC\_###\_2021 Largest Customer List

ELEC\_###\_2021 MN Service Area Map

ELEC\_###\_2021 Rate Schedule

ELEC\_###\_2021 Monthly Power Cost Adjustments

ELEC\_###\_2021 USDOE EIA-861

ELEC\_###\_2021 USDOA Financial and Statistical Report

NOTE: ### is your Utility Entity number found in Cell C5 on the Registration Tab



### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA		
PLANT NAME	Coal Creek	PLANT ID (leave this cell blank)
STREET ADDRESS	PO Box 780	
CITY	Underwood	
STATE	ND	
ZIP CODE	58576	
COUNTY	McLean	NUMBER OF UNITS
CONTACT PERSON	John Weeda	
TELEPHONE	701-442-3211	2

[illegible]

8,980,989.00

[illegible]

1,145.00

1,145.00

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA		
PLANT NAME	Spiritwood Station	PLANT ID (leave this cell blank)
STREET ADDRESS	3366 93rd Ave, SE	
CITY	Spiritwood	NUMBER OF UNITS
STATE	ND	
ZIP CODE	58481	
COUNTY	Stutsman	
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	1

[illegible]

171,833.00

[illegible]

70.90

70.90

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA		
PLANT NAME	Pleasant Valley Station	PLANT ID (leave this cell blank)
STREET ADDRESS	68435-310th Street	
CITY	Dexter	NUMBER OF UNITS
STATE	MN	
ZIP CODE	55926	
COUNTY	Mower	
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	3

[illegible]

126,704.00

[illegible]

414.20

484.50

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

## 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

INSTRUCTIONS: Complete one worksheet for each power plant  
 Scroll down below the data entry tables to see the ALLOWABLE CODES to be used for Unit Status, Unit Type, Energy Source, Fuel Type, and Unit of Measure fields  
 Scroll down below the ALLOWABLE CODES to see DEFINITIONS for Capacity Factor, Operating Factor and Forced Outage Rate.

A. PLANT DATA		
PLANT NAME	Lakefield Junction	PLANT ID (leave this cell blank)
STREET ADDRESS	2159 20th Ave	
CITY	Trimont	NUMBER OF UNITS
STATE	MN	
ZIP CODE	55176	
COUNTY	Martin	
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	6

B. INDIVIDUAL GENERATING UNIT DATA						
Unit ID #	Unit Status *	Unit Type **	Year Installed	Energy Source ***	Net Generation (mwh)	Comments
1	STB	GT	2001	NG	26,916.00	
2	STB	GT	2001	NG	23,785.00	
3	STB	GT	2001	NG	21,431.00	
4	STB	GT	2001	NG	17,152.00	
5	STB	GT	2001	NG	14,438.00	
6	STB	GT	2001	NG	17,386.00	

C. UNIT CAPABILITY DATA	CAPACITY (MEGAWATTS)						
	Unit ID #	Summer	Winter	Capacity Factor (%)	Operating Factor (%)	Forced Outage Rate (%)	Comments
	1	77.50	91.70	0.04	1.0	0.0	
	2	77.70	91.70	0.03	1.0	0.0	
	3	77.30	91.70	0.03	1.0	0.4	
	4	77.70	91.70	0.03	1.0	0.5	
	5	78.00	91.70	0.02	1.0	0.1	
	6	77.40	91.70	0.03	1.0	0.2	

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.



### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA		
PLANT NAME	Cambridge	PLANT ID (leave this cell blank)
STREET ADDRESS		
CITY	Cambridge	
STATE	MN	
ZIP CODE		
COUNTY	Isanti	NUMBER OF UNITS
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	2

[illegible]

95,839.00

[illegible]

171.30

219.20

[illegible]

ALLOWABLE CODES					
Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

DEFINITIONS		
Forced Outage Rate = (percentage)	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$	Note: Failure of a unit to be available does not include down time for scheduled maintenance.
Operating Availability = (percentage)	100 - Maintenance percentage - Forced Outage percentage	Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.
Capacity Factor = (percentage)	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$	

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA		
PLANT NAME	Elk River Peaker	PLANT ID (leave this cell blank)
STREET ADDRESS	17845 East Hwy 10	
CITY	Elk River	NUMBER OF UNITS
STATE	MN	
ZIP CODE	55330	
COUNTY	Sherburne	
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	1

[illegible]

75,810.00

[illegible]

189.10

200.00

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

A. PLANT DATA			
PLANT NAME	St. Bonifacius	PLANT ID	(leave this cell blank)
STREET ADDRESS	PO Box 393		
CITY	St. Bonifacius		
STATE	MN	NUMBER OF UNITS	1
ZIP CODE	55375		
COUNTY	Carver		
CONTACT PERSON	Nathan Domyahn		
TELEPHONE	763-445-5822		

[illegible]

1,994.00

[illegible]

60.80

66.00

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

CY2021

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

INSTRUCTIONS:

Complete one worksheet for each power plant

Scroll down below the data entry tables to see the ALLOWABLE CODES to be used for Unit Status, Unit Type, Energy Source, Fuel Type, and Unit of Measure fields

Scroll down below the ALLOWABLE CODES to see DEFINITIONS for Capacity Factor, Operating Factor and Forced Outage Rate.

A. PLANT DATA		
PLANT NAME	Rock Lake	PLANT ID (leave this cell blank)
STREET ADDRESS		
CITY	Pine City	
STATE	MN	
ZIP CODE		NUMBER OF UNITS
COUNTY	Pine	1
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	

## B. INDIVIDUAL GENERATING UNIT DATA

Unit ID #	Unit Status *	Unit Type **	Year Installed	Energy Source ***	Net Generation (mwh)	Comments
1	STB	GT	1978	FO2	1,221	
				Plant Total	1,221.00	

C. UNIT CAPABILITY DATA	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

## CAPACITY (MEGAWATTS)

UNIT DATA (Continued)			Capacity Factor	Operating Factor	Forced Outage Rate	Comments
Unit ID #	Summer	Winter	(%)	(%)	(%)	
1	21.6	29.4	0.65%	100.00%	0.00%	
Plant Total	21.60	29.40				

## D. UNIT FUEL USED

### PRIMARY FUEL USE

## SECONDARY FUEL USE

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.



**CY2021**

### 7610.0430 FUEL REQUIREMENTS AND GENERATION BY FUEL TYPE

## POWER PLANT AND GENERATING UNIT DATA REPORT 2021

INSTRUCTIONS:

Complete one worksheet for each power plant

Scroll down below the data entry tables to see the ALLOWABLE CODES to be used for Unit Status, Unit Type, Energy Source, Fuel Type, and Unit of Measure fields

Scroll down below the ALLOWABLE CODES to see DEFINITIONS for Capacity Factor, Operating Factor and Forced Outage Rate.

A. PLANT DATA		
PLANT NAME	Maple Lake	PLANT ID (leave this cell blank)
STREET ADDRESS		
CITY	Maple Lake	NUMBER OF UNITS
STATE	MN	
ZIP CODE		
COUNTY	Wright	
CONTACT PERSON	Nathan Domyahn	
TELEPHONE	763-445-5822	1

## B. INDIVIDUAL GENERATING UNIT DATA

Unit ID #	Unit Status *	Unit Type **	Year Installed	Energy Source ***	Net Generation (mwh)	Comments
1	STB	GT	1978	FO2	1,222	
				Plant Total	1,222.00	

C. UNIT CAPABILITY DATA	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

## CAPACITY (MEGAWATTS)

UNIT DATA (Continued)			Capacity Factor	Operating Factor	Forced Outage Rate	Comments
Unit ID #	Summer	Winter	(%)	(%)	(%)	
1	18.7	29.4	0.75%	100.00%	12.99%	
Plant Total	18.70	29.40				

## D. UNIT FUEL USED

### PRIMARY FUEL USE

## SECONDARY FUEL USE

[illegible]

### ALLOWABLE CODES

Cell Heading	Code	Code Definition	Cell Heading	Code	Code Definition
<b>* Unit Status</b>	USE	In-use	<b>** Unit Type</b>	CS	Combined Cycle
	STB	Stand-by		IC	Internal Combustion (Diesel)
	RET	Retired		GT	Combustion (Gas) Turbine
	FUT	Future		HC	Hydro
	OTHER	Other - provide description		ST	Steam Turbine (Boiler)
<b>*** Energy Source &amp; Fuel Type</b>				NC	Nuclear
	BIT	Bituminous Coal		WI	Wind
	COAL	Coal (general)		OTHER	Other - provide description
	DIESEL	Diesel	<b>**** Unit of Measure</b>	GAL	Gallons
	FO2	Fuel Oil #2 (Mid Distillate)		MCF	Thousand cubic feet
	FO6	Fuel Oil #6 (Residual Fuel Oil)		MMCF	Million cubic feet
	LIG	Lignite		TONS	Tons
	LPG	Liquefied Propane Gas		BBL	Barrels
	NG	Natural Gas		THERMS	Therms
	NUC	Nuclear			
	REF	Refuse, Bagasse, Peat, Non-wood waste			
	STM	Steam			
	SUB	Sub-Bituminous Coal			
	HYD	Hydro (Water)			
	WIND	Wind			
	WOOD	Wood			
	SOLAR	Solar			
	OTHER	Other - provide description			

### DEFINITIONS

<b>Forced Outage Rate = (percentage)</b>	$\frac{\text{Hours Unit Failed to be Available} \times 100}{\text{Hours Unit Called Upon to Produce}}$
<b>Operating Availability = (percentage)</b>	100 - Maintenance percentage - Forced Outage percentage
<b>Capacity Factor = (percentage)</b>	$\frac{\text{Total Annual MWH of Production} \times 100}{\text{Accredited Capacity Rating (MW) of the Unit} \times 8,760}$

Note: Failure of a unit to be available does not include down time for scheduled maintenance.

Note: Maintenance percentage is the number of hours of scheduled maintenance divided by 8,760.

# MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION

CY 2021

## INSTRUCTIONS

These worksheet tabs correspond closely to the tables in the forecast instructions received by the utility.


The forecast instructions pertain to the data to be entered in each of the worksheet tabs.

**PLEASE DO NOT CHANGE THE NAME OR ORDER OF ANY OF THE WORKSHEET TABS OR CHANGE THE NAME OF THIS WORKBOOK.**

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

 Cells shown with a light green background correspond to headings for sections, columns, row, or individual fields on each worksheet tab.

 **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 tab contains a section labeled "Comments" below the main data entry area.

You may enter any comments in that section to provide an explanation or clarification on the data entered; OR why data IS NOT being entered on the worksheet tab (for example: cells left blank).

Cells with automatic calculations (typically totals) are provided on some worksheets to assist with the accuracy of the data provided by the utility. 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 tab.

Please complete the required worksheet tabs and save the completed workbook to your local computer.

Then attach the completed workbook to an email message, include your contact information, and send it to the following email address:

[rule7610.reports@state.mn.us](mailto:rule7610.reports@state.mn.us)

If you have any questions please contact:

Anne Sell

MN Department of Commerce, Division of Energy Resources

Email: [rule7610.reports@state.mn.us](mailto:rule7610.reports@state.mn.us) (preferred)

Direct: 651-539-1851 (leave a message)

COMM Website: <https://mn.gov/commerce/industries/energy/utilities/annual-reporting/>

# MINNESOTA ELECTRIC UTILITY ANNUAL REPORT - FORECAST SECTION

## 7610.0120 REGISTRATION

ENTITY ID#	121
REPORT YEAR	2021

RILS ID#	U12555
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UTILITY DETAILS	
UTILITY NAME	Great River Energy
STREET ADDRESS	12300 Elm Creek Blvd
CITY	Maple Grove
STATE	MN
ZIP CODE	55369-4718
TELEPHONE	763-241-5775
Scroll down to see allowable UTILITY TYPES	
* UTILITY TYPE	Co-op

CONTACT INFORMATION	
CONTACT NAME	John Williams
CONTACT TITLE	Senior Forecaster
CONTACT STREET ADDRESS	12300 Elm Creek Blvd
CITY	Maple Grove
STATE	MN
ZIP CODE	55369-5775
TELEPHONE	763-445-6119
CONTACT E-MAIL	<a href="mailto:jwilliams@GREnergy.com">jwilliams@GREnergy.com</a>

COMMENTS

PREPARER INFORMATION	(do not type "Same as Above")
PERSON PREPARING FORMS	John Williams
PREPARER'S TITLE	Senior Forecaster
DATE	7/14/2022
PREPARER'S EMAIL ADDRESS	<a href="mailto:jwilliams@GREnergy.com">jwilliams@GREnergy.com</a>

## ALLOWABLE UTILITY TYPES

### Code

Private

Public

Co-op

# MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

## CY 2021

### 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	2021	No. of Customers									0
		MWH									0
Present Year	2022	No. of Customers									0
		MWH									0
1st Forecast Year	2023	No. of Customers									0
		MWH									0
2nd Forecast Year	2024	No. of Customers									0
		MWH									0
3rd Forecast Year	2025	No. of Customers									0
		MWH									0
4th Forecast Year	2026	No. of Customers									0
		MWH									0
5th Forecast Year	2027	No. of Customers									0
		MWH									0
6th Forecast Year	2028	No. of Customers									0
		MWH									0
7th Forecast Year	2029	No. of Customers									0
		MWH									0
8th Forecast Year	2030	No. of Customers									0
		MWH									0
9th Forecast Year	2031	No. of Customers									0
		MWH									0
10th Forecast Year	2032	No. of Customers									0
		MWH									0
11th Forecast Year	2033	No. of Customers									0
		MWH									0
12th Forecast Year	2034	No. of Customers									0
		MWH									0
13th Forecast Year	2035	No. of Customers									0
		MWH									0
14th Forecast Year	2036	No. of Customers									0
		MWH									0

\* 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)

## CY 2021

### 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 **actual number of customers** the utility has in that category 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	2021	No. of Customers	783,966	7,093,308	607,279		39,715	64,136	13,471		8,601,875
		MWH	872,096	6,703,346	2,541,171		2,028,545	34,755	326,807		12,506,720
Present Year	2022	No. of Customers	797,662	7,211,315	612,851		40,293	63533.5	13,529		8,739,183
		MWH	812,617	6,768,370	2,573,077		2,003,188	32466.1	313,498		12,503,216
1st Forecast Year	2023	No. of Customers	807,834	7,299,259	619,956		40,903	63533.5	13,529		8,845,015
		MWH	820,794	6,834,235	2,596,860		2,018,606	31326.33	313,498		12,615,320
2nd Forecast Year	2024	No. of Customers	817,264	7,381,568	626,676		41,401	63533.5	13,529		8,943,971
		MWH	829,815	6,909,155	2,612,646		2,030,250	30288.87	313,498		12,725,654
3rd Forecast Year	2025	No. of Customers	826,127	7,459,144	633,035		41,823	63533.5	13,529		9,037,191
		MWH	836,130	6,959,234	2,628,527		2,039,768	29370.69	313,498		12,806,528
4th Forecast Year	2026	No. of Customers	834,510	7,532,641	639,056		42,222	63533.5	13,529		9,125,490
		MWH	843,281	7,017,900	2,639,055		2,045,087	28573.35	313,498		12,887,394
5th Forecast Year	2027	No. of Customers	842,494	7,602,723	644,757		42,623	63533.5	13,529		9,209,660
		MWH	850,300	7,075,831	2,651,382		2,052,708	27884.13	313,498		12,971,602
6th Forecast Year	2028	No. of Customers	850,108	7,669,634	650,153		42,999	63533.5	13,529		9,289,957
		MWH	858,326	7,143,778	2,660,967		2,058,024	27186.18	313,498		13,061,779
7th Forecast Year	2029	No. of Customers	857,291	7,732,860	655,261		43,346	63533.5	13,529		9,365,820
		MWH	863,676	7,186,897	2,669,431		2,062,110	26464	313,498		13,122,075
8th Forecast Year	2030	No. of Customers	864,032	7,792,297	660,098		43,675	63533.5	13,529		9,437,164
		MWH	869,807	7,237,959	2,669,025		2,059,500	25498.58	313,498		13,175,288
9th Forecast Year	2031	No. of Customers	870,401	7,848,556	664,678		43,994	63533.5	13,529		9,504,691
		MWH	875,728	7,287,458	2,669,883		2,058,129	24377.44	313,498		13,229,072
10th Forecast Year	2032	No. of Customers	876,420	7,901,809	669,016		44,307	63533.5	13,529		9,568,613
		MWH	882,659	7,346,974	2,671,986		2,058,199	23377.67	313,498		13,296,694
11th Forecast Year	2033	No. of Customers	882,111	7,952,255	673,123		44,611	63533.5	13,529		9,629,163
		MWH	887,004	7,382,446	2,675,163		2,059,038	22494.94	313,498		13,339,644
12th Forecast Year	2034	No. of Customers	887,532	8,000,375	677,013		44,907	63533.5	13,529		9,686,890
		MWH	892,420	7,428,426	2,678,370		2,061,193	21718.76	313,498		13,395,625
13th Forecast Year	2035	No. of Customers	892,719	8,046,475	680,699		45,198	63533.5	13,529		9,742,153
		MWH	897,641	7,472,806	2,681,049		2,063,610	21037.11	313,498		13,449,642
14th Forecast Year	2036	No. of Customers	897,715	8,090,914	684,191		45,486	63533.5	13,529		9,795,367
		MWH	904,014	7,528,310	2,683,795		2,066,626	20439	313,498		13,516,682

\* 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

These Numbers include 3 Wisconsin Counties that are served by East Central Cooperative.

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)  
CY 2021

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 tab.

		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	CALCULATED (GENERATION + RECEIVED) MINUS (RESALE + LOSSES) MINUS (CONSUMPTION) SHOULD EQUAL ZERO
		CONSUMPTION BY ULTIMATE CONSUMERS IN MINNESOTA MWH [7610.0310 B(1)]	CONSUMPTION BY ULTIMATE CONSUMERS OUTSIDE OF MINNESOTA MWH [7610.0310 B(2)]	RECEIVED FROM OTHER UTILITIES MWH [7610.0310 B(3)]	DELIVERED FOR RESALE MWH [7610.0310 B(4)]	TOTAL ANNUAL NET GENERATION MWH [7610.0310 B(5)]	TRANSMISSION LINE SUBSTATION AND DISTRIBUTION LOSSES MWH [7610.0310 B(6)]	TOTAL WINTER CONSUMPTION MWH [7610.0310 B(7)]	TOTAL SUMMER CONSUMPTION MWH [7610.0310 B(7)]	
Past Year	2021	11,667,861		5,511,321	2,432,608	9,576,142	901,116	3,967,073	7,584,110	85,878
Present Year	2022	11,241,612		11,537,894	2,965,591	2,838,809	169,501	3,822,148.00	7,307,047.65	0
1st Forecast Year	2023	11,302,027		14,793,596	4,005,272	546,323	32,620	3,842,689.26	7,346,317.70	0
2nd Forecast Year	2024	11,382,067		15,829,201	4,997,973	585,817	34,978	3,869,902.69	7,398,343.39	0
3rd Forecast Year	2025	11,481,398		17,413,125	6,477,381	580,303	34,649	3,903,675.25	7,462,908.56	0
4th Forecast Year	2026	11,563,788		17,385,632	6,372,683	585,817	34,978	3,931,687.91	7,516,462.19	0
5th Forecast Year	2027	11,598,286		17,598,102	6,550,655	585,817	34,978	3,943,417.29	7,538,886.00	0
6th Forecast Year	2028	11,632,888		17,816,822	6,734,774	585,817	34,978	3,955,181.86	7,561,377.08	0
7th Forecast Year	2029	11,667,593		18,037,876	6,921,831	586,572	35,023	3,966,981.72	7,583,935.64	0
8th Forecast Year	2030	11,702,403		18,263,351	7,111,787	585,817	34,978	3,978,816.98	7,606,561.87	0
9th Forecast Year	2031	11,737,317		18,453,536	7,267,058	585,817	34,978	3,990,687.75	7,629,255.98	0
10th Forecast Year	2032	11,772,336		18,688,120	7,466,623	585,817	34,978	4,002,594.12	7,652,018.18	0
11th Forecast Year	2033	11,807,459		18,927,396	7,671,484	586,572	35,023	4,014,536.22	7,674,848.66	0
12th Forecast Year	2034	11,842,689		19,171,457	7,879,607	585,817	34,978	4,026,514.15	7,697,747.63	0
13th Forecast Year	2035	11,878,024		19,420,399	8,093,215	585,817	34,978	4,038,528.00	7,720,715.30	0
14th Forecast Year	2036	11,913,464		19,674,321	8,311,695	585,817	34,978	4,050,577.90	7,743,751.87	0

COMMENTS	
Non Matching Numbers	
Energy Furnished to others without Charge: 80,111	
Energy used by borrower: 5,767	

0.0635					
9,576,142	608,085.02	10,184,227	9,576,142	901,116	
2,669,308	169,501.06	2,838,809	10,477,258		
513,703	32,620.14	546,323			
550,839	34,978.28	585,817			
545,654	34,649.03	580,303			
550,839	34,978.28	585,817			
550,839	34,978.27	585,817			
550,839	34,978.27	585,817			
551,548	35,023.32	586,572			
550,839	34,978.27	585,817			
550,839	34,978.27	585,817			
551,548	35,023.32	586,572			
550,839	34,978.27	585,817			
550,839	34,978.27	585,817			
550,839	34,978.27	585,817			

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)  
CY 2021

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	2021	150	1186	473	0	330	5	3	2501.9	2146.6

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	2021	1914.5	2093.9	1757.0	1528.7	1908.5	2521.1	2501.9	2415.4	1906.2	1569.7	1741.8	2047.4

COMMENTS
This is an estimate based on the percent of energy sales by classification. Calculated system total does not equal system total because it does not include sales for resale, own use & losses.



**MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)**  
**CY 2021**

7610.0310 Item E. PART 1: FIRM PURCHASES (Express in MegaWatts)

NAME OF OTHER UTILITY =>			[TRADE SECRET DATA BEGINS						
			MHEB Diversity Exchange	BEPC	Xcel	MP	AEP	Glencoe	Rainbow Energy Center PPA
Past Year	2021	Summer Winter							
Present Year	2022	Summer Winter							
1st Forecast Year	2023	Summer Winter							
2nd Forecast Year	2024	Summer Winter							
3rd Forecast Year	2025	Summer Winter							
4th Forecast Year	2026	Summer Winter							
5th Forecast Year	2027	Summer Winter							
6th Forecast Year	2028	Summer Winter							
7th Forecast Year	2029	Summer Winter							
8th Forecast Year	2030	Summer Winter							
9th Forecast Year	2031	Summer Winter							
10th Forecast Year	2032	Summer Winter							
11th Forecast Year	2033	Summer Winter							
12th Forecast Year	2034	Summer Winter							
13th Forecast Year	2035	Summer Winter							
14th Forecast Year	2036	Summer Winter							

TRADE SECRET DATA ENDS]

COMMENTS

**MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)**  
**CY 2021**

7610.0310 Item E. PART 2: FIRM SALES (Express in MegaWatts)

NAME OF OTHER UTILITY =>			[TRADE SECRET DATA BEGINS						
			MHEB Diversity Exchange						
Past Year	2021	Summer							
		Winter							
Present Year	2022	Summer							
		Winter							
1st Forecast Year	2023	Summer							
		Winter							
2nd Forecast Year	2024	Summer							
		Winter							
3rd Forecast Year	2025	Summer							
		Winter							
4th Forecast Year	2026	Summer							
		Winter							
5th Forecast Year	2027	Summer							
		Winter							
6th Forecast Year	2028	Summer							
		Winter							
7th Forecast Year	2029	Summer							
		Winter							
8th Forecast Year	2030	Summer							
		Winter							
9th Forecast Year	2031	Summer							
		Winter							
10th Forecast Year	2032	Summer							
		Winter							
11th Forecast Year	2033	Summer							
		Winter							
12th Forecast Year	2034	Summer							
		Winter							
13th Forecast Year	2035	Summer							
		Winter							
14th Forecast Year	2036	Summer							
		Winter							

TRADE SECRET DATA ENDS]

COMMENTS

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

CY 2021

7610.0310 Item F. PART 1: PARTICIPATION PURCHASES

(Express in MegaWatts)

NAME OF OTHER UTILITY ==>			TRADE SECRET DATA BEGINS								
			WAPA (CP & Kandiyohi)	Ormat (Oreg3)	Ashtabula II	Elm Creek Wind	Endeavor I	Mower (Prairie Star Wind)	Emmons Logan	Trimont 2	Buffalo Ridge
Past Year	2021	Summer									
		Winter									
Present Year	2022	Summer									
		Winter									
1st Forecast Year	2023	Summer									
		Winter									
2nd Forecast Year	2024	Summer									
		Winter									
3rd Forecast Year	2025	Summer									
		Winter									
4th Forecast Year	2026	Summer									
		Winter									
5th Forecast Year	2027	Summer									
		Winter									
6th Forecast Year	2028	Summer									
		Winter									
7th Forecast Year	2029	Summer									
		Winter									
8th Forecast Year	2030	Summer									
		Winter									
9th Forecast Year	2031	Summer									
		Winter									
10th Forecast Year	2032	Summer									
		Winter									
11th Forecast Year	2033	Summer									
		Winter									
12th Forecast Year	2034	Summer									
		Winter									
13th Forecast Year	2035	Summer									
		Winter									
14th Forecast Year	2036	Summer									
		Winter									

COMMENTS

Discovery, Dodge, and Three Waters wind are all Surplus Interconnection Service projects and will not receive capacity credit

MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

CY 2021

7610.0310 Item F. PART 1: PARTICIPATION PURCHASES

(Express in MegaWatts)

NAME OF OTHER UTILITY ==>			[TRADE SECRET DATA BEGINS							
			WAPA (CP & Kandiyohi)	Ormat (Oreg3)	Ashtabula II	Elm Creek Wind	Deuel Harvest	Dodge County	Three Waters	Discovery
Past Year	2021	Summer								
		Winter								
Present Year	2022	Summer								
		Winter								
1st Forecast Year	2023	Summer								
		Winter								
2nd Forecast Year	2024	Summer								
		Winter								
3rd Forecast Year	2025	Summer								
		Winter								
4th Forecast Year	2026	Summer								
		Winter								
5th Forecast Year	2027	Summer								
		Winter								
6th Forecast Year	2028	Summer								
		Winter								
7th Forecast Year	2029	Summer								
		Winter								
8th Forecast Year	2030	Summer								
		Winter								
9th Forecast Year	2031	Summer								
		Winter								
10th Forecast Year	2032	Summer								
		Winter								
11th Forecast Year	2033	Summer								
		Winter								
12th Forecast Year	2034	Summer								
		Winter								
13th Forecast Year	2035	Summer								
		Winter								
14th Forecast Year	2036	Summer								
		Winter								

TRADE SECRET DATA ENDS]

COMMENTS
Discovery, Dodge, and Three Waters wind are all Surplus Interconnection Service projects and will not receive capacity credit

MINNESOTA ELECTRIC UTILITY  
INFORMATION REPORTING -  
FORECAST SECTION (Continued)

CY 2021

7610.0310 Item F. PART 2: PARTICIPATION SALES

(Express in MegaWatts)

NAME OF OTHER UTILITY =>			[TRADE SECRET DATA BEGINS					
			Willmar Municipal	BEPC	WVPA			
Past Year	2021	Summer Winter						
Present Year	2022	Summer Winter						
1st Forecast Year	2023	Summer Winter						
2nd Forecast Year	2024	Summer Winter						
3rd Forecast Year	2025	Summer Winter						
4th Forecast Year	2026	Summer Winter						
5th Forecast Year	2027	Summer Winter						
6th Forecast Year	2028	Summer Winter						
7th Forecast Year	2029	Summer Winter						
8th Forecast Year	2030	Summer Winter						
9th Forecast Year	2031	Summer Winter						
10th Forecast Year	2032	Summer Winter						
11th Forecast Year	2033	Summer Winter						
12th Forecast Year	2034	Summer Winter						
13th Forecast Year	2035	Summer Winter						
14th Forecast Year	2036	Summer Winter						
			TRADE SECRET DATA ENDS]					

COMMENTS

**MINNESOTA ELECTRIC UTILITY  
INFORMATION REPORTING -  
FORECAST SECTION (Continued)**

**CY 2021**

**7610.0310 Item F. PART 2: PARTICIP**

NAME OF OTHER UTILITY =>				
Past Year	2021	Summer		
		Winter		
Present Year	2022	Summer		
		Winter		
1st Forecast Year	2023	Summer		
		Winter		
2nd Forecast Year	2024	Summer		
		Winter		
3rd Forecast Year	2025	Summer		
		Winter		
4th Forecast Year	2026	Summer		
		Winter		
5th Forecast Year	2027	Summer		
		Winter		
6th Forecast Year	2028	Summer		
		Winter		
7th Forecast Year	2029	Summer		
		Winter		
8th Forecast Year	2030	Summer		
		Winter		
9th Forecast Year	2031	Summer		
		Winter		
10th Forecast Year	2032	Summer		
		Winter		
11th Forecast Year	2033	Summer		
		Winter		
12th Forecast Year	2034	Summer		
		Winter		
13th Forecast Year	2035	Summer		
		Winter		
14th Forecast Year	2036	Summer		
		Winter		

COMMENTS

**MINNESOTA ELECTRIC UTILITY INFORMATION  
REPORTING - FORECAST SECTION (Continued)  
CY 2021**

7610.0310 Item G. LOAD AND GENERATION CAPACITY

(Express in MegaWatts)

			Column 1	Column 2	Column 3	Column 4	Column 5
			SEASONAL MAXIMUM DEMAND	SCHEDULE L. PURCHASE AT THE TIME OF SEASONAL SYSTEM DEMAND	SEASONAL SYSTEM DEMAND	ANNUAL SYSTEM DEMAND	SEASONAL FIRM PURCHASES (TOTAL)
Past Year	2021	Summer	2742		2742	2742	0
		Winter	2252		2252	2742	0
Present Year	2022	Summer	2700		2700	2700	0
		Winter	2297		2297	2700	0
1st ForecastYear	2023	Summer	2707		2707	2707	0
		Winter	2300		2300	2707	0
2nd ForecastYear	2024	Summer	2714		2714	2714	0
		Winter	2304		2304	2714	0
3rd ForecastYear	2025	Summer	2722		2722	2722	0
		Winter	2310		2310	2722	0
4th ForecastYear	2026	Summer	2730		2730	2730	0
		Winter	2309		2309	2730	0
5th ForecastYear	2027	Summer	2739		2739	2739	0
		Winter	2312		2312	2739	0
6th ForecastYear	2028	Summer	2747		2747	2747	0
		Winter	2314		2314	2747	0
7th ForecastYear	2029	Summer	2755		2755	2755	0
		Winter	2320		2320	2755	0
8th ForecastYear	2030	Summer	2762		2762	2762	0
		Winter	2318		2318	2762	0
9th ForecastYear	2031	Summer	2769		2769	2769	0
		Winter	2320		2320	2769	0
10th ForecastYear	2032	Summer	2776		2776	2776	0
		Winter	2322		2322	2776	0
11th ForecastYear	2033	Summer	2784		2784	2784	0
		Winter	2327		2327	2784	0
12th ForecastYear	2034	Summer	2792		2792	2792	0
		Winter	2325		2325	2792	0
13th ForecastYear	2035	Summer	2800		2800	2800	0
		Winter	2326		2326	2800	0
14th ForecastYear	2036	Summer	2808		2808	2808	0
		Winter	2326		2326	2808	0

COMMENTS

**MINNESOTA ELECTRIC UTILITY INFORMATION  
REPORTING - FORECAST SECTION (Continued)  
CY 2021**

7610.0310 Item G. LOAD AND GENERATION CAPACITY

			Column 6	Column 7	Column 8	Column 9	Column 10
			SEASONAL FIRM SALES (TOTAL)	SEASONAL ADJUSTED NET DEMAND (Column 3 - 5 + 6)	ANNUAL ADJUSTED NET DEMAND (Column 4 - 5 + 6)	NET GENERATING CAPABILITY	PARTICIPATION PURCHASES (TOTAL)
Past Year	2021	Summer	0	2742	2742	2651	0
		Winter	0	2252	2742	2651	0
Present Year	2022	Summer	0	2700	2700	1521	0
		Winter	0	2297	2700	1521	0
1st ForecastYear	2023	Summer	0	2707	2707	1521	0
		Winter	0	2300	2707	1521	0
2nd ForecastYear	2024	Summer	0	2714	2714	1521	0
		Winter	0	2304	2714	1521	0
3rd ForecastYear	2025	Summer	0	2722	2722	1521	0
		Winter	0	2310	2722	1521	0
4th ForecastYear	2026	Summer	0	2730	2730	1521	0
		Winter	0	2309	2730	1521	0
5th ForecastYear	2027	Summer	0	2739	2739	1521	0
		Winter	0	2312	2739	1521	0
6th ForecastYear	2028	Summer	0	2747	2747	1521	0
		Winter	0	2314	2747	1521	0
7th ForecastYear	2029	Summer	0	2755	2755	1521	0
		Winter	0	2320	2755	1521	0
8th ForecastYear	2030	Summer	0	2762	2762	1521	0
		Winter	0	2318	2762	1521	0
9th ForecastYear	2031	Summer	0	2769	2769	1521	0
		Winter	0	2320	2769	1521	0
10th ForecastYear	2032	Summer	0	2776	2776	1521	0
		Winter	0	2322	2776	1521	0
11th ForecastYear	2033	Summer	0	2784	2784	1521	0
		Winter	0	2327	2784	1521	0
12th ForecastYear	2034	Summer	0	2792	2792	1521	0
		Winter	0	2325	2792	1521	0
13th ForecastYear	2035	Summer	0	2800	2800	1521	0
		Winter	0	2326	2800	1521	0
14th ForecastYear	2036	Summer	0	2808	2808	1521	0
		Winter	0	2326	2808	1521	0

COMMENTS



**MINNESOTA ELECTRIC UTILITY INFORMATION  
REPORTING - FORECAST SECTION (Continued)  
CY 2021**

7610.0310 Item G. LOAD AND GENERATION CAPACITY

			Column 11	Column 12	Column 13	Column 14	Column 15
			PARTICIPATION SALES (TOTAL)	ADJUSTED NET CAPABILITY (Column 9 + 10 - 11)	NET RESERVE CAPACITY OBLIGATION	TOTAL FIRM CAPACITY OBLIGATION (Column 7 + 13)	SURPLUS (+) OR DEFICIT (-) CAPACITY (Column 12 - 14)
Past Year	2021	Summer	0	2651	261	3003	-352
		Winter	0	2651	261	2513	138
Present Year	2022	Summer	0	1521	256	2956	-1435
		Winter	0	1521	256	2554	-1033
1st ForecastYear	2023	Summer	0	1521	257	2964	-1443
		Winter	0	1521	257	2557	-1036
2nd ForecastYear	2024	Summer	0	1521	258	2972	-1451
		Winter	0	1521	258	2562	-1041
3rd ForecastYear	2025	Summer	0	1521	259	2981	-1460
		Winter	0	1521	259	2569	-1048
4th ForecastYear	2026	Summer	0	1521	259	2990	-1469
		Winter	0	1521	259	2569	-1048
5th ForecastYear	2027	Summer	0	1521	260	2999	-1478
		Winter	0	1521	260	2572	-1051
6th ForecastYear	2028	Summer	0	1521	261	3008	-1487
		Winter	0	1521	261	2575	-1054
7th ForecastYear	2029	Summer	0	1521	262	3016	-1495
		Winter	0	1521	262	2582	-1061
8th ForecastYear	2030	Summer	0	1521	262	3024	-1503
		Winter	0	1521	262	2581	-1060
9th ForecastYear	2031	Summer	0	1521	263	3032	-1511
		Winter	0	1521	263	2583	-1062
10th ForecastYear	2032	Summer	0	1521	264	3040	-1519
		Winter	0	1521	264	2586	-1065
11th ForecastYear	2033	Summer	0	1521	264	3048	-1527
		Winter	0	1521	264	2592	-1071
12th ForecastYear	2034	Summer	0	1521	265	3057	-1536
		Winter	0	1521	265	2590	-1069
13th ForecastYear	2035	Summer	0	1521	266	3066	-1545
		Winter	0	1521	266	2592	-1071
14th ForecastYear	2036	Summer	0	1521	267	3075	-1554
		Winter	0	1521	267	2593	-1072

COMMENTS

# MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

## CY 2021

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

		ADDITIONS	RETIREMENTS
Past Year	2021		
Present Year	2022	1050	1132
1st Forecast Year	2023	350	1132
2nd Forecast Year	2024	350	1132
3rd Forecast Year	2025	750	1132
4th Forecast Year	2026	750	1132
5th Forecast Year	2027	750	1132
6th Forecast Year	2028	750	1132
7th Forecast Year	2029	750	1132
8th Forecast Year	2030	750	1132
9th Forecast Year	2031	750	1132
10th Forecast Year	2032	750	1132
11th Forecast Year	2033	750	1132
12th Forecast Year	2034	750	1132
13th Forecast Year	2035	750	1132
14th Forecast Year	2036	750	1132

### COMMENTS

Coal Creek Station out of GRE's portfolio but not retired. The asset was sold to a third-party buyer. PPA with buyer, and new wind development added.

**MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)**
**CY 2021**
**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 this worksheet tab.

		FUEL TYPE 1		FUEL TYPE 2		FUEL TYPE 3		FUEL TYPE 4		FUEL TYPE 5		FUEL TYPE 6	
		Name of Fuel	LIG	Name of Fuel	NG	Name of Fuel	FO2	Name of Fuel		Name of Fuel		Name of Fuel	
		Unit of Measure	1000 lbs	Unit of Measure	MCF	Unit of Measure	1000 Gals	Unit of Measure		Unit of Measure		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	2021	14,515,138	9,152,822	4,742,208	417,546	2,068	5,774						
Present Year	2022	2,600,305	2,670,464	2,819,927	238,513	365	2,056						
1st Forecast Year	2023	340,000	195,000	9,497,465	551,325	395	4,700						
2nd Forecast Year	2024	-	-	9,513,015	551,880	395	4,700						
3rd Forecast Year	2025	-	-	9,498,113	551,325	395	4,700						
4th Forecast Year	2026	-	-	9,497,465	551,325	395	4,700						
5th Forecast Year	2027	-	-	9,497,465	551,325	395	4,700						
6th Forecast Year	2028	-	-	9,512,367	551,880	395	4,700						
7th Forecast Year	2029	-	-	9,497,465	551,325	395	4,700						
8th Forecast Year	2030	-	-	9,497,465	551,325	395	4,700						
9th Forecast Year	2031	-	-	9,497,465	551,325	395	4,700						
10th Forecast Year	2032	-	-	9,512,367	551,880	395	4,700						
11th Forecast Year	2033	-	-	9,497,465	551,325	395	4,700						
12th Forecast Year	2034	-	-	9,497,465	551,325	395	4,700						
13th Forecast Year	2035	-	-	9,497,465	551,325	395	4,700						
14th Forecast Year	2036	-	-	9,512,367	551,880	395	4,700						

**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-wood waste	SOLAR - Solar
FO6 - Fuel Oil #6 (Residual Fuel Oil)	STM - Steam	
LIG - Lignite	SUB - Sub-bituminous coal	

**COMMENTS**

# MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)

## CY 2021

### 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 map showing the location of each line;
- the design voltage of each line;
- the size and type of conductor;
- the approximate location of d.c. terminals or a.c. substations; and
- 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 kV	795	ACSR	AC	From Mud Lake to Riverton		8.57
X			230 kV	795	ACSR	AC	From Benton County to Mud Lake		54.19
X			230 kV	795	ACSR	AC	From Benton County to Monticello		21.61
X			230 kV	795	ACSR	AC	From Elk River to Monticello		16.9
X			230 kV	795	ACSR	AC	From Elk River to Bunker Lake		16.19
X			230 kV	795	ACSR	AC	From Bunker Lake to Blaine		12.94
X			230 kV	795	ACSR	AC	From Blaine to Linwood		16.95
X			230 kV	795	ACSR	AC	From Linwood to Rush City		24.32
X			230 kV	795	ACSR	AC	From Rush City to Arrowhead		0.59
X			230 kV	795	ACSR	AC	From Rush City to Red Rock		0.59
X			230 kV	795	ACSR	AC	From Willmar to Granite Falls [GRE/WMU]		30.9
X			230 kV	1,272	ACSR	AC	From Benton County to Milaca [SMMPA/GRE]		26.05
X			230 kV	795	ACSR	AC	From Wing River to Inman		19.44
X			230 kV	795	ACSR	AC	From Henning to Inman		3.72
X			230 kV	795	ACSR	AC	From Riverton to Wing River [MP/GRE]		49.28
X			345 kV	2-954	ACSR	AC	From Dickinson (Rockford) to Maple Grove		18.57
X			345 kV	2-954	ACSR	AC	From Maple Grove Tap to NSP Coon Creek		8.39
X			345 kV	1,192	ACSR	AC	From Sherburne Co. to Benton Co.		21.4
X			+/-410 kV	1,590	ACSR	DC	From MN/ND border to Dickinson(Rockford)		177
X			500 kV	3-1192	ACSR	AC	From Forbes to Denham		69.77
X			230 kV	795	ACSR	AC	From Cass Lake to Boswell		51.46
X			345 kV	2-954	ACSS	AC	From Monticello to Quarry		28.77
X			345 kV	2-954	ACSS	AC	From Quarry to Riverview		35.08
X			345 kV	2-954	ACSS	AC	From Riverview to Alexandria Switching Station		42.35



MINNESOTA ELECTRIC UTILITY INFORMATION REPORTING - FORECAST SECTION (Continued)  
CY 2021

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.

	TIME OF DAY	DATE OF PEAK DAY DEMAND	DATE OF PEAK DAY DEMAND	<= ENTER DATES
		7/5/21	12/29/21	
		MW USED ON SUMMER PEAK DAY	MW USED ON WINTER PEAK DAY	
	0100	1699	1920	
	0200	1621	1900	
	0300	1576	1896	
	0400	1554	1920	
	0500	1602	1974	
	0600	1778	2004	
	0700	2017	2074	
	0800	2256	2095	
	0900	2447	2068	
	1000	2575	2019	
	1100	2664	2000	
	1200	2711	1997	
	1300	2742	2013	
	1400	2717	2032	
	1500	2568	1866	
	1600	2612	1849	
	1700	2595	1951	
	1800	2550	1947	
	1900	2561	1912	
	2000	2513	2131	
	2100	2384	2162	
	2200	2107	2194	
	2300	1873	2125	
	2400	1715	2015	

COMMENTS

## MINNESOTA ELECTRIC UTILITY ANNUAL REPORT - FORECAST SECTION CY 2021

**REMEMBER TO SEND/UPLOAD THE FOLLOWING ATTACHMENTS:**

**DO NOT INSERT THE ATTACHMENT INTO THIS WORKBOOK**

< = < = < **NOTE** < = <

- 1 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.(pursuant to MN Rules Chapter 7610.0500 Subpart 1, Existing transmission lines)

When submitting this workbook and attachments, please following the file naming format of:

ELEC\_###\_2021 Forecast Report (this workbook)

ELEC\_###\_2021 TL Map

NOTE: ### is your Utility Entity number found in Cell C5 on the Registration Tab