

February 1, 2023

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, Minnesota 55101

RE: Comments of the Minnesota Department of Commerce, Division of Energy Resources Docket Nos. E999/PR-22-12, E999/M-22-85, E999/PR-02-1240

Dear Mr. Seuffert:

Attached is a corrected version of the Department's biennial RES report to the legislature. The Department discovered that it had inadvertently transposed retail sales and REC retirements for Minnesota Power, MMPA, and Minnkota on Table 1, page 12.

The transposed numbers have been corrected and do not affect the Department's analysis and conclusions. Thus, no other changes have been made.

Do not hesitate to contact me if you have questions.

Sincerely,

/s/ Michelle Rebholz
Public Utilities Rates Evaluation Supervisor

MR/ar Attachment



# Minnesota Renewable Energy Standard:

**UTILITY COMPLIANCE** 

January 12, 2023

Prepared by Minnesota Department of Commerce, Division of Energy Resources

Pursuant to Minnesota Statute 216B.1691, subd. 3(b)

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# **Minnesota Department of Commerce**

#### Mission

For more than 150 years, the Minnesota Department of Commerce and its predecessor agencies have served Minnesotans. Our mission is to protect and assist consumers, to ensure a strong, competitive and fair marketplace, and to engage people and communities across the state.

#### **Our Strategic Priorities**

- Protect the public interest through consumer protection, consumer education, assistance to consumers, safety, health and financial security, and lowering inequities.
- Serve as a trusted public resource for consumers and businesses by listening and learning from the Minnesotans Commerce services, being effective stewards of public resources, advocating for Minnesota consumers and develop a policy, programmatic, and regulatory environment that meets their needs.
- Reduce economic barriers within Commerce regulatory oversee and reduce disparities within those of all races, ethnicities, religions, economic statuses, gender identities, sexual orientations, (dis)abilities, and zip codes.
- Ensure all, especially historically disadvantaged Minnesotans, are resilient to Minnesota's climate and engaged in advancing efforts to mitigate climate change.
- Ensure a strong, competitive, and fair marketplace for Minnesotans.

For more information about the Department of Commerce: mn.gov/commerce. For more information about Commerce's work with renewable energy: mn.gov/commerce/energy.

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# Report to the Minnesota Legislature

# Progress on Compliance by Electric Utilities with the Minnesota Renewable Energy Objective and the Renewable Energy Standard

The Minnesota Department of Commerce, Division of Energy Resources (Commerce or the Department) submits the following report on the progress of Minnesota's electric utilities' compliance with the Minnesota Renewable Energy Standard (RES) contained in Minnesota Statute section 216B.1691.

All of the utilities subject to the Minnesota RES have demonstrated compliance with the 2021 Renewable Energy Standard requirements.

Pursuant by Minnesota Statute 3.197: This report cost approximately \$1061.00 to prepare, including staff time.

## Introduction

Commerce provides this report in compliance with Minnesota Statute section 216B.1691, subdivision 3(b), which requires a bi-annual report to the Legislature on "the progress of utilities in the state, including the progress of each individual electric utility, in increasing the amount of renewable energy provided to retail customers," along with the compilation of the following information from each utility:

- The status of the utility's renewable energy mix relative to the objective and standards;
- Efforts taken to meet the objective and standards;
- Any obstacles encountered or anticipated in meeting the objective or standards; and
- Potential solutions to the obstacles.

This RES Report is divided into the following sections:

- Legislative History
- RES Reporting Requirements
- 2021 RES Compliance
- Solar Energy Standard (SES) Compliance
- Ability to Comply with RES Requirements in the Future
- Obstacles and Potential Solutions for Meeting Future RES Requirements
- Mitigating Undesirable Economic Impacts on Ratepayers
- Summary and Conclusion

# **Legislative History**

# **Adoption of a Renewable Energy Objective**

In 2001, the Minnesota Legislature first enacted the Minnesota Renewable Energy Objective contained in Minnesota Statute section 216B.1691. As originally enacted, the Minnesota Renewable Energy Objective Statute required electric utilities to "make a good faith effort" to obtain 10 percent of their Minnesota retail energy sales from eligible energy sources by 2015, and to obtain 0.5 percent of their renewable energy from biomass technologies. Under the REO Statute, Xcel Energy was required to meet a 10 percent renewable energy standard.

# **Adoption of a Renewable Energy Standard**

During the 2007 Legislative session, Minnesota Statute section 216B.1691 was amended to:

- Establish a Renewable Energy Standard with specified mandated renewable energy goals beginning in 2010;
- 2. Amend the definition of an eligible energy technology;
- Require the Minnesota Public Utilities Commission (Commission) to establish a trading system for renewable credits; and
- 4. Establish criteria under which the Commission may waive or extend the deadline for meeting the RES targets.

# The Renewable Energy Standard

Consistent with the earlier Renewable Energy Objective, the Renewable Energy Standard Statute requires that a utility generate or procure at least one percent of its retail electric sales from an eligible energy technology beginning in 2005 increasing to seven percent (7%) by 2010. However, unlike the Renewable Energy Objective, the Renewable Energy Standard mandates that electric utilities procure this level of energy. Beginning in 2010 for Xcel, and 2012 for all other utilities, the Renewable Energy Standard Statute added Minnesota Statute section 216B.1691, subd. 2(a) and (b) to require:

(a) Except as provided in paragraph (b), each electric utility shall generate or procure sufficient electricity generated by an eligible energy technology to provide its retail customers in Minnesota, or the retail customers of a distribution utility to which the electric utility provides wholesale service, so that at least the following standard percentages of the electric utility's total retail electric sales to retail customers in Minnesota is generated by eligible energy technologies by the end of the year indicated:

1) 2012	12 percent
2) 2016	17 percent
3) 2020	20 percent
4) 2025	25 percent

(b) An electric utility that owned a nuclear generating facility as of January 1, 2007, must meet the requirements of this paragraph rather than paragraph (a). An electric utility subject to this

paragraph must generate or procure sufficient electricity generated by an eligible energy technology to provide its retail customers in Minnesota or the retail customers of a distribution utility to which the electric utility provides wholesale electric service so that at least the following percentages of the electric utility's total retail electric sales to retail customers in Minnesota is generated by eligible energy technologies by the end of the year indicated:

1) 2010	15 percent
2) 2012	18 percent
3) 2016	25 percent
4) 2020	30 percent

Of the 30 percent in 2020, at least 25 percent must be generated by wind energy conversion systems and the remaining five percent by other eligible energy technologies.

In its March 19, 2010 Order, the Commission clarified the percentages of total retail sales that utilities must generate or procure from renewable energy apply for every year forward until the next step in percentages identified by the statute. Consequently, for 2017 Xcel Energy's Renewable Energy Standard requirement remained at 25 percent, and all other utilities remained at 17 percent.

In 2010, the Renewable Energy Standard Statute definition of total retail electric sales was amended to exclude "the sale of hydroelectricity supplied by a federal power marketing administration or other federal agency, regardless of whether the sales are directly to a distribution utility or are made to a generation and transmission utility and pooled for further allocation to a distribution utility." The amendment results in the exclusion of power provided by the Western Area Power Administration from total retail sales.

# Changes to the Definition of an Eligible Energy Technology

Minnesota Statute section 216B.1691, subdivision 1 defines an eligible energy technology as one that:

Generates electricity from the following renewable energy sources: (1) solar; (2) wind; (3) hydroelectric with a capacity of less than 100 megawatts; (4) hydrogen provided that after January 1, 2010, the hydrogen must be generated from the resources listed in this clause; or (5) biomass, which includes, without limitation, landfill gas; an anaerobic digester system; the predominantly organic components of wastewater effluent, sludge, or related by-products from publicly owned treatment works, but not including incineration of wastewater sludge to produce electricity; and an energy recovery facility used to capture the heat value of mixed municipal solid waste or refusederived fuel from mixed municipal solid waste as a primary fuel.

This definition of an eligible energy technology reflects a number of changes made by the Legislature since eligible technologies were originally defined under the Renewable Energy Objective Statute. Specifically, the capacity of hydroelectric facilities eligible for Renewable Energy Standard compliance was increased from 60 to 100 megawatts, and the definition of biomass was clarified to include landfill gas and anaerobic digester systems. Finally, the restriction was lifted on Xcel Energy's ability to count biomass and wind generation from its Prairie Island legislative mandates. The 2007

<sup>&</sup>lt;sup>1</sup>As part of earlier Legislative authorization for additional storage for spent nuclear fuel at Xcel's Prairie Island nuclear facility, Xcel was required to obtain 825 MW of wind energy (Minnesota Statute section 216B.2423) and 125 MW of biomass energy (Minnesota Statute section 216B.2424).

amendments to the Renewable Energy Standard Statute render generation from these mandates eligible to count toward Renewable Energy Standard compliance.

# The Use of Renewable Energy Certificates to Meet Renewable Energy Standard Requirements

The 2003 amendment to Minnesota Statute section 216B.1691, subd. 4, provided that the Commission "may establish a program for tradable credits for electricity generated by eligible energy technology." The 2007 amendment to Minnesota Statute section 216B.1691, subd. 4 required the Commission to establish a program for tradable Renewable Energy Credits (RECs) by January 1, 2008, and to require all electric utilities to participate in a Commission-approved REC tracking system once such a system was in operation.

In an October 2007 Order, the Commission approved the use of the Midwest Renewable Energy Tracking system (M-RETS) as the Renewable Energy Credits tracking system under Minnesota Statute section 216B.1691, subd. 4(d), and required Minnesota utilities to participate. In its December 18, 2007, Order Establishing Initial Protocols for Trading Renewable Energy Credits, the Commission adopted a four-year shelf life for RECs<sup>2</sup>. That means the Renewable Energy Credits is eligible for use in meeting the Renewable Energy Standard requirements in the year of generation and for four years following the year of generation.

Finally, in its December 3, 2008 Third Order Detailing Criteria and Standards for Determining Compliance under Minn. Stat. §216B.1691 and Setting Procedures for Retiring Renewable Energy Credits, the Commission directed utilities to begin retiring Renewable Energy Credits equivalent to one percent of their Minnesota annual retail sales for the 2008 and 2009 compliance year by May 1st of the following year. Upon retirement, Renewable Energy Credits are transferred into a specific Minnesota Renewable Energy Standard retirement account and once retired, are not available to meet other state or program requirements, thus addressing the statutory prohibition against double-counting the Renewable Energy Credits while also promoting the environmental benefits of renewable energy. The Commission further directed the utilities to submit an annual compliance filing demonstrating their compliance with the Renewable Energy Standard by June 1st.

# **Criteria for Waiving or Extending the Renewable Energy Standard Requirements**

The Renewable Energy Standard Statute was amended to include criteria under which the Commission may find it in the public interest to modify or delay implementation of the Renewable Energy Standard requirements. Among the factors the Commission must consider are:

- 1. The impact on customer utility costs, including the economic and competitive pressure on the utility's customers;
- 2. The effects on electric system reliability;
- 3. Technical advances and concerns;
- 4. Rejection or delays in obtaining site and route permits;
- 5. Delays, cancellations or non-delivery of necessary equipment for construction of a facility;
- 6. Transmission constraints; and
- 7. Other statutory obligations imposed on the Commission or utility.

<sup>&</sup>lt;sup>2</sup> In the Matter of a Commission Investigation into a Multi-State Tracking and Trading System for Renewable Energy Credits, Docket No. E999/CI-04-1616, Order Establishing Initial Protocols for Trading Renewable Energy Credits (December 18, 2007).

Upon a petition by a utility, the Commission may modify or delay a Renewable Energy Standard under numbers (1) to (3) "only if it finds implementation would cause significant rate impact, requires significant measures to address reliability, or raises significant technical issues." For the remaining items, Minnesota Statute section 216B.1691, subd. 2b allows modification or delay in the implementation of a standard only if the Commission "finds that the circumstances described in those clauses were due to circumstances beyond an electric utility's control and make compliance not feasible."

To date, no utility has requested a modification or delay in the implementation of the Renewable Energy Standard requirements.

#### **Solar Energy Standard**

In 2013, the Minnesota Legislature adopted Minnesota Statute section 216B.1691, subd. 2f, establishing a Solar Energy Standard (SES) requiring public utilities to obtain at least 1.5 percent (1.5%) of their total Minnesota retail sales from solar energy by the end of 2020, with a goal of obtaining ten percent (10%) of Minnesota retail sales from solar energy by 2030. The Solar Energy Standard also contained a small solar carve-out that requires at least 10 percent (10%) of the 1.5 percent (1.5%) solar energy standard come from small solar facilities (Small Solar Carve-out). The size threshold for the small solar carve-out was later increased from 20 kW to 40 kW for all utilities subject to the SES. Public utilities with between 50,000 and 200,000 retail electric customers may apply individual customers subscriptions of 40 kW or less to a commission approved community solar garden program toward the ten percent Small Solar Carve-out goal.

Three companies are subject to the Solar Energy Standard: Minnesota Power, Ottertail Power Company, and Xcel Energy. In addition to excluding cooperative and municipal utilities from the Solar Energy Standard requirements, the Solar Energy Standard statute excludes retail sales to customers that are iron mining extraction and processing facilities, or paper mills, wood products manufacturers, sawmills, or oriented strand board manufacturers from the calculation of 1.5 percent (1.5%) of retail sales.

#### Reporting on the Rate Impact of Renewable Energy Standard Compliance

Minnesota Statute section 216B.1691, subd. 2e, was amended to require the Commission to determine a uniform system for reporting the estimated rate impact of Renewable Energy Standard compliance. In its January 6, 2015 Order in Docket E999/CI-11-852,<sup>3</sup> the Commission established reporting requirements for estimating the rate impact of Renewable Energy Standard compliance, including:

- calculating the direct costs of renewable generation;
- adding the costs of any new transmission improvements needed for renewable power;
- subtracting costs of resources that would have been used in place of the renewable resources; and
- discussing any impacts that renewable generation had on the utility's indirect costs (such as the effects on baseload generation facilities).

<sup>&</sup>lt;sup>3</sup> In the Matter of Utility Renewable Energy Cost Impact Reports Required by Minnesota Statutes Section 216B.1691, Subd. 2e, Docket No. E999/CI-11-852, Order Establishing Uniform Reporting System for Estimating Rate Impact of Minn. Stat. §216B.1691, (January 6, 2015).

## **Renewable Energy Standard Reporting Requirements**

#### **Entities Subject to the Renewable Energy Standard Requirements**

Minnesota Statute section 216B.1691, subd. 1(b) defines an electric utility as "a public utility providing electric service, a generation and transmission cooperative electric association, a municipal power agency, or a power district."

Based on the statutory definition of an electric utility, the Commission has determined that the following entities are subject to the Renewable Energy Standard Statute:

- Basin Electric Power Cooperative
- Central Minnesota Municipal Power Agency (CMMPA)
- Dairyland Power Cooperative
- East River Electric Cooperative
- Great River Energy (GRE)
- Heartland Consumer Power District
- Interstate Power and Light<sup>4</sup>
- L&O Power Cooperative
- Minnkota Power Cooperative
- Minnesota Municipal Power Agency (MMPA)
- Minnesota Power
- Missouri River Energy Services
- Northwestern Wisconsin Electric Company
- Ottertail Power Company
- Southern Minnesota Energy Cooperative
- Southern Minnesota Municipal Power Agency (SMMPA)
- Xcel Energy

The definition of an electric utility contained in Minnesota Statute section 216B.1691, subd. 1(b) was amended in 2007 to include a power district. Consequently, Heartland Consumer Power District is now subject to the Renewable Energy Standard requirements. In its November 12, 2008 Order in Docket No. E999/CI-03-869, the Commission found that East River Electric Power Cooperative and L&O Power Cooperative were required to file separate RES reporting.<sup>5</sup>

<sup>&</sup>lt;sup>4</sup> On June 8, 2015, the Commission approved the sale of Interstate Power and Light's Minnesota electric distribution system and assets, and the transfer of its Minnesota electric service rights and obligations, to Southern Minnesota Energy Cooperative (SMEC). In the Matter of a Request for the Approval of the Asset Purchase and Sale Agreement between Interstate Power and Light Company and Southern Minnesota Energy Cooperative, Docket No. E001, 115, 140, 105, 139, 124, 126, 145, 132, 114, 6521, 142, 135/PA-14-322, Order Approving Agreement Subject to Conditions, (June 8, 2015).

<sup>&</sup>lt;sup>5</sup> In the Matter of Detailing Criteria and Standards for Measuring an Electric Utility's Good Faith Efforts in Meeting the Renewable Energy Objectives Under Minn. Stat. §216B.1691, Docket No. E999/CI-03-869, Order Setting Filing Requirements and Clarifying Procedures, (November 12, 2008).

Prior to this Order, L&O and East River's Renewable Energy Standard compliance reporting was aggregated with the reporting from Basin Electric. Finally, given its limited presence in Minnesota, the Commission granted Northwestern Wisconsin Electric Company the discretion to report its renewable energy compliance information as provided to the Wisconsin Public Service Commission.

#### **2021 Renewable Energy Standard Compliance**

Utilities subject to the Minnesota Renewable Energy Standard file an annual compliance filing each year on June 1<sup>st</sup>. The most recent compliance filing was made on June 1, 2022 for compliance with 2021 Renewable Energy Standard requirements (Docket No. E999/PR- 22-12). Minnesota Statute section 216B.1691 currently requires Xcel Energy to obtain 30 percent (30%) of its Minnesota retail sales from renewables, and all other utilities subject to Renewable Energy Standard requirements to obtain 20 percent (20%) of their Minnesota retail sales from renewables.

Table 1, below, summarizes utility compliance with the 2021 requirements. All of the utilities subject to the Minnesota Renewable Energy Standard have demonstrated compliance with the 2021 Renewable Energy Standard requirements.

**Table 1: 2021 Renewable Energy Standard Compliance** 

Utility	2021 Minnesota Retail Sales (MWhs)	Total Renewable Energy Certificates Retired (for MN Retail Sales)	Percent
Basin Electric	945,011	189,004	20%
Central MN Municipal Power Agency	370,122	74,025	20%
Dairyland Power Cooperative	861,191	172,239	20%
East River Power Cooperative	603,082	120,669	20%
Great River Energy	10,746,506	2,152,900	20%
Heartland Power District	241,926	48,387	20%
L & O Power Cooperative	288,306	57,662	20%
Minnesota Municipal Power Agency (MMPA)	1,865,862	373,173	20%
Minnesota Power	9,454,795	1,890,960	20%
Minnkota Power Cooperative	1,491,225	298,245	20%
Missouri River Energy Services (MRES)	1,691,803	338,361	20%
Northwestern Wisconsin Power <sup>6</sup>		(see footnote 6	5)
Otter Tail Power Company	2,593,158	518,632	20%
Southern Minnesota Electric Cooperative	732,511	146,503	20%
Southern MN Municipal Power Agency	2,882,669	576,534	20%
Xcel Energy	28,810,844	8,643,254	30%
Total	63,579,011	15,600,548	24.5%

Wind generation continues to be the largest source of renewables used to meet the Minnesota RES representing approximately 60 percent (60%) of annual renewable generation, followed by hydroelectric generation at approximately 35 percent (35%) with the balance split between biomass and solar generation.

<sup>&</sup>lt;sup>6</sup> Per the Commission's November 12, 2008 Order in Docket No. E999/CI-03-869, Northwestern Wisconsin Electric is permitted to comply with the Minnesota reporting requirements by submitting its renewable energy compliance information as reported to the Wisconsin Public Service Commission. Northwestern Wisconsin submitted its Wisconsin RPS compliance report indicating it retired 25,638 RECs towards its compliance in Wisconsin.

## **Solar Energy Standard Compliance**

Minnesota Statute section 216B.1691 was amended by the 2013 Legislature to require public utilities to generate or procure 1.5 percent of their Minnesota retail electric sales from solar energy by 2020. The statute permits utilities subject to the SES to exclude retail sales to the mining and paper mill and wood products manufacturing industries from the calculation of their Solar Energy Standard requirement. The statute further requires that at least 10 percent (10%) of the 1.5 percent (1.5%) Solar Energy Standard goal be met by solar energy from facilities with a nameplate capacity of 20 kW or less. Three utilities, Minnesota Power, Otter Tail Power and Xcel Energy are subject to the Solar Energy Standard and are required to submit annual reports detailing their efforts to comply. Table 2 provides a summary of the estimated amount of solar capacity and solar energy needed to meet the 2021 Solar Energy Standard requirement.

**Table 2: Summary of Utility Reporting on SES** 

	Otter Tail	Minnesota Power	Xcel
MN retail sales (MWh)	2,593,158	8,896,839	28,810,844
Excluded Sales	65,520	5,960,138	Protected Data <sup>7</sup>
MN retail sales subject to SES	2,527,638	2,936,701	TS
Annual solar generation (MWh)	277	17,386	1,258,823
Solar Renewable Energy Certificates Needed to Meet 2021 SES (MWh)	37,915	44,051	430,200
Solar Renewable Energy Certificate Retired to Meet 2021 SES (MWh)	37,915	44,052	430,200
Small Solar Carve-out Requirement (MWh) <sup>8</sup>	3,791	4,405	43,020
Small SRECs retired (MWh)	2,192	4,406	43,020

<sup>&</sup>lt;sup>7</sup> Xcel's Exempt sales data is protected because the small number of exempt customers could potentially lead to identification of individual customer sales data.

<sup>&</sup>lt;sup>8</sup> The Small Solar Carve-out requirement is calculated as 0.15 percent of MN retail sales subject to SES.

#### **Otter Tail Power Company**

Otter Tail Power Company (Otter Tail) complied with the 2021 RES requirement and the 2021 non-small SES requirements. Otter Tail partially complied with 2021 small-scale SES requirements through the purchase and retirement of solar renewable energy credits (SRECS) at a cost of \$75,531. Otter Tail also proposed to meet the small-scale SES requirement going forward through the construction and ownership of up to 1.2MW (approximately thirty 40kW AC) of solar projects. If approved by the Commission, Otter Tail would make a filing detailing costs, program details, recovery strategy, and timing of the projects.

Otter Tail claimed that meeting the small-scale solar ten percent (10%) component for the 2021 program year was challenging. While Otter Tail continued to grow its SREC inventory from customer-owned systems, the marketplace for purchasing small SRECs outside of Otter Tail's service area became non-existent. Otter Tail had many discussions with REC brokers but was unable to purchase adequate small SRECs. Thus, Otter Tail fell short of meeting the small-scale solar ten percent component for 2021.

The Department of Commerce recommended the Commission direct Otter Tail Power to retire SRECs from utility scale projects to cover the shortfall in small Solar RECs for 2021. Upon submitting a compliance filing to the PUC demonstrating that OTP retired additional utility scale SRECs to cover its shortfall, the Department recommends that OTP be found to have made a good faith effort to meet the 2021 small solar requirement. Otter Tail has retired the requisite SRECs.

#### **Minnesota Power**

Minnesota Power currently has three new solar projects underway that will result in approximately 20 MW of new solar energy.

- 1) The Laskin Energy Park near Hoyt Lakes, Minnesota, will generate 9.6 MW of solar energy.
- 2) The Sylvan Solar Project near Minnesota Power's Sylvan Hydro Station, west of Brainerd, Minnesota, will generate 10 MW of solar energy.
- 3) The Jean Duluth Solar project, located in the city of Duluth, will generate 1.6 MW of solar energy.

When completed, Minnesota Power's solar energy portfolio will grow to about 30 megawatts, including the 10-megawatt installation they built at Camp Ripley, the Minnesota National Guard base near Little Falls. The projects will help Minnesota Power meet the state of Minnesota's Solar Energy Standard (SES) more quickly. Minnesota Power also operates a community solar garden with a 40-kilowatt array in Duluth and a 1-megawat array in Wrenshall, Minnesota, and continues to explore community solar options.

Minnesota Power continues to meet the Small Scale Carve-Out of the SES through its Community Solar Garden and SolarSense Customer Solar Program. There were 290,928 kWh produced by SolarSense systems installed in 2021. The Community Solar Garden is fully subscribed, with 1,037 one kW blocks those customers are subscribed to.

#### **Xcel Energy**

Xcel reported that it had approximately 826.29 MW of solar capacity from community solar gardens, 26.11 MW in solar from facilities of 40 kW or less, and 271.31 MW of solar capacity from facilities over 40 kW that is registered in M-RETS. Xcel has 262 MW of utility-scale solar projects, some of which are earmarked for its Renewable\*Connect green pricing pilot. The Company continues to offer incentives for the installation of rooftop solar through its Solar\*Rewards program.

The Second and Third Generation Solar\*Rewards program offers incentives based on the system's energy production to customers installing solar systems of less than 40 kW.

In June 2021, the Minnesota Legislature established a statewide Solar for Schools incentive program which provides financial and technical assistance to schools looking to install solar. The part of this program directed to Xcel Energy customers called the Solar\*Rewards for Schools program is a subset of Xcel's larger Solar\*Rewards program. The program offers a performance-based incentive on the amount of energy the school's solar system generates and an up-front payment based on the solar project size and the school's financial need.

In its most recent Integrated Resource Plan (IRP) filing (Docket E002/RP-19-368), Xcel proposed to add 4,000 MW of solar facilities over the forecast period, 2020-2034.

# Ability to Comply with Renewable Energy Standards Requirements in the Future

As noted above, for 2021, the Renewable Energy Standards requirement was 30 percent (30%) of Minnesota retail sales for Xcel Energy, and 20 percent (20%) of Minnesota retail sales for all other utilities subject to the requirement. Utilities may retire Renewable Energy Certificates towards Renewable Energy Standards compliance up to four years from the date of generation. In addition, utilities may purchase excess Renewable Energy Certificates from other utilities to meet their Renewable Energy Standards requirement or reallocate Renewable Energy Certificates to Minnesota from their other state jurisdictions with lower Renewable Energy Standards requirements. Iowa, Wisconsin and Minnesota have Renewable Energy Standards, whereas North and South Dakota have voluntary Renewable Energy Objectives at 10 percent (10%).

As part of their bi-annual reporting, utilities were asked to provide the year through which the Company can maintain its Renewable Energy Standards compliance with its current renewable portfolio. Table 3, below, summarizes the year through which the utilities expect to comply with the Renewable Energy Standards.

Table 3: Estimated Year through which the Utility can Comply with Renewable Energy Standards

Utility	Compliance through year
Basin Electric	2030
Central MN Municipal Power Agency (CMMPA)	2033
Dairyland Power Cooperative	2040
East River Power Cooperative	2025
Great River Energy	2040
Heartland Power District	2044
L&O Power Cooperative	2030
Minnesota Municipal Power Agency (MMPA)	2025
Minnesota Power	2050
Minnkota Power Cooperative	2045
Missouri River Energy Services (MRES)	2023
Northwest Wisconsin	See footnote 6
Otter Tail Power Company	2035
Southern Minnesota Electric Cooperative (SMEC)	2025
Southern MN Municipal Power Agency	2040
Xcel Energy	2040

All of the utilities, have sufficient renewable resources to meet compliance beyond 2022.

# Obstacles and Potential Solutions for Meetings the Renewable Energy Standards Requirements

The utilities provided comments on obstacles they have encountered or anticipate encountering to meeting the RES requirements. Most of the utilities indicated that they had not experienced obstacles in meeting Renewable Energy Standards compliance. The cost associated with integrating renewables into their energy portfolio as the share of renewable energy increases was cited as a concern that is being evaluated. Transmission constraints within Minnesota as well as constraints on the ability to transport excess wind energy outside of Minnesota has typically been among the most noted obstacle cited by utilities in the past. Utilities reported increasing costs of MISO and affected systems network transmission upgrades along with generation interconnection queue study delays create challenges.

# Mitigating Undesirable Economic Impacts on Ratepayers

Utilities were asked to identify efforts taken to adequately protect against undesirable economic impacts on ratepayers, including limiting rate impacts to consumers. Many of the utilities cited efforts to secure long-term contracts for renewables and transmission service as methods of limiting economic impacts. In addition, several of the utilities have sold or purchased Renewable Energy Certificates in the market as a means of limiting rate impacts to their ratepayers. The Midwest Renewable Tracking System is the tracking system approved by the Commission for registering renewable projects and maintaining an accounting of each project's renewable generation in the form of a Renewable Energy Certificate. A Renewable Energy Certificate represents one megawatt hour of renewable generation.

Utilities comply with the Renewable Energy Standard by transferring the appropriate amount of Renewable Energy Certificates, as determined by the appropriate percentage of their Minnesota retail sales, into a retirement account. Utilities having more Renewable Energy Certificates than required to meet their Renewable Energy Standard may choose to sell some of their excess certificates to utilities with a shortfall. Utilities purchasing Renewable Energy Certificates typically do so because they have found that option to be a reasonable cost method of meeting Renewable Energy Standards compliance or making up the difference in REC need. Renewable Energy Certificates prices reported by the utilities typically ranged from between \$0.25 to \$1.25 per Renewable Energy Certificates, although RECs from specific, narrowly defined generation types may be higher.

# **Summary and Conclusion**

The Minnesota Department of Commerce concludes that utilities complied with their 2021 RES obligations and appear able to comply into the future. In addition, the three public utilities subject to the SES also complied with their 2021 SES obligations.

#### **CERTIFICATE OF SERVICE**

I, Sharon Ferguson, hereby certify that I have this day, served copies of the following document on the attached list of persons by electronic filing, certified mail, e-mail, or by depositing a true and correct copy thereof properly enveloped with postage paid in the United States Mail at St. Paul, Minnesota.

Minnesota Department of Commerce Corrected RES Report

Docket No. E999/PR-22-12, E999/M-22-85 and E999/PR-02-1240

Dated this 1st day of February 2023

/s/Sharon Ferguson

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Pat	Carruth	pat@mnvalleyrec.com	Minnesota Valley Coop. Light & Power Assn.	501 S 1st St. PO Box 248 Montevideo, MN 56265	Electronic Service	No	OFF_SL_2-1240_Official
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	OFF_SL_2-1240_Official
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022191	Electronic Service	No	OFF_SL_2-1240_Official
Lorene	Damsits	lorened@cmpasgroup.org	Central MN MPA	459 S Grove St  Blue Earth, MN 56013	Electronic Service	No	OFF_SL_2-1240_Official
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St  Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_2-1240_Official
J.	Drake Hamilton	hamilton@fresh-energy.org	Fresh Energy	408 St Peter St Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_2-1240_Official
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280  Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_2-1240_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Joe	Hoffman	ja.hoffman@smmpa.org	SMMPA	500 First Ave SW Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_2-1240_Official
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248  Madison, SD 57042	Electronic Service	No	OFF_SL_2-1240_Official
Tim	McCarthy	Tim.McCarthy@siouxvalley energy.com	Sioux Valley Southwestern Electric Cooperative, Inc. d/b/a Sioux Valley Energy	N/A	Electronic Service	No	OFF_SL_2-1240_Official
Scot	McClure	scotmcclure@alliantenergy.	Interstate Power And Light Company	4902 N Biltmore Ln PO Box 77007 Madison, WI 537071007	Electronic Service	No	OFF_SL_2-1240_Official
David	Niles	david.niles@avantenergy.c om	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_2-1240_Official
David	Raatz	draatz@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58501	Electronic Service	No	OFF_SL_2-1240_Official
Mark	Rathbun	mrathbun@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_2-1240_Official
Michael	Reinertson	michael.reinertson@avante nergy.com	Avant Energy	220 S. Sixth St. Ste 1300  Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_2-1240_Official
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	OFF_SL_2-1240_Official
Kay	Schraeder	kschraeder@minnkota.com	Minnkota Power	5301 32nd Ave S  Grand Forks, ND 58201	Electronic Service	No	OFF_SL_2-1240_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
J.P.	Schumacher	jps@mrenergy.com	Missouri River Energy Services	N/A	Electronic Service	No	OFF_SL_2-1240_Official
Christine	Schwartz	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7  Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_2-1240_Official
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350  Saint Paul, MN 55101	Electronic Service	No	OFF_SL_2-1240_Official
Trevor	Smith	trevor.smith@avantenergy.	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_2-1240_Official
Michael	Volker	mvolker@eastriver.coop	East River Electric Power Coop	211 S. Harth Ave  Madison, SD 57042	Electronic Service	No	OFF_SL_2-1240_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Derek	Bertsch	derek.bertsch@mrenergy.c om	Missouri River Energy Services	3724 West Avera Drive PO Box 88920 Sioux Falls, SD 57109-8920	Electronic Service	No	OFF_SL_22-12_PR-22-12
Jon	Brekke	jbrekke@grenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_22-12_PR-22-12
Richard	Burud	rgburud@msn.com	Southern Minnesota Energy Cooperative	31110 Cooperative Way  Rushford,  MN  55971	Electronic Service	No	OFF_SL_22-12_PR-22-12
LORI	CLOBES	Iclobes@mienergy.coop	MiEnergy Cooperative	31110 COOPERATIVE WAY PO BOX 626 RUSHFORD, MN 55971	Electronic Service	No	OFF_SL_22-12_PR-22-12
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_22-12_PR-22-12
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St  Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_22-12_PR-22-12
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280  Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_22-12_PR-22-12
Ronald J.	Franz	ronald.franz@dairylandpow er.com	Dairyland Power Cooperative	3200 East Ave S PO Box 817 La Crosse, WI 546020817	Electronic Service	No	OFF_SL_22-12_PR-22-12
Joe	Hoffman	ja.hoffman@smmpa.org	SMMPA	500 First Ave SW  Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_22-12_PR-22-12
Casey	Jacobson	cjacobson@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58501	Electronic Service	No	OFF_SL_22-12_PR-22-12

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248  Madison, SD 57042	Electronic Service	No	OFF_SL_22-12_PR-22-12
Brian	Krambeer	bkrambeer@mienergy.coo p	MiEnergy Cooperative	PO Box 626 31110 Cooperative W Rushford, MN 55971	Electronic Service ay	No	OFF_SL_22-12_PR-22-12
Sara G	McGrane	smcgrane@felhaber.com	Felhaber Larson	220 S 6th St Ste 2200  Minneapolis, MN 55420	Electronic Service	No	OFF_SL_22-12_PR-22-12
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St  Duluth,  MN  558022093	Electronic Service	No	OFF_SL_22-12_PR-22-12
Ben	Nelson	benn@cmpasgroup.org	СММРА	459 South Grove Street  Blue Earth, MN 56013	Electronic Service	No	OFF_SL_22-12_PR-22-12
Samantha	Norris	samanthanorris@alliantene rgy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_22-12_PR-22-12
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_22-12_PR-22-12
John	Richards	johnrichards@nweco.com	Northwestern Wisconsin Electric Company	104 S. Pine St.  Grantsburg, WI 54840	Electronic Service	No	OFF_SL_22-12_PR-22-12
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227  Madison, SD 57042	Electronic Service	No	OFF_SL_22-12_PR-22-12
Kay	Schraeder	kschraeder@minnkota.com	Minnkota Power	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_22-12_PR-22-12

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christine	Schwartz	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7  Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_22-12_PR-22-12
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350  Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_22-12_PR-22-12
Trevor	Smith	trevor.smith@avantenergy.com	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_22-12_PR-22-12
Mikayala	Thompson	mmthompson@otpco.com	Otter Tail Power Company	N/A	Electronic Service	No	OFF_SL_22-12_PR-22-12
Carol	Westergard	cwestergard@otpco.com	Otter Tail Power Company	215 S Cascade St Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_22-12_PR-22-12

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Derek	Bertsch	derek.bertsch@mrenergy.c om	Missouri River Energy Services	3724 West Avera Drive PO Box 88920 Sioux Falls, SD 57109-8920	Electronic Service	No	OFF_SL_22-85_M-22-85
Jerry	Bormann	jbormann@mpsutility.com	Moorhead Public Service Dept. (E)	500 Center Ave PO Box 779 Moorhead, MN 56561-0779	Electronic Service	No	OFF_SL_22-85_M-22-85
Jon	Brekke	jbrekke@grenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_22-85_M-22-85
Richard	Burud	rgburud@msn.com	Southern Minnesota Energy Cooperative	31110 Cooperative Way  Rushford, MN 55971	Electronic Service	No	OFF_SL_22-85_M-22-85
LORI	CLOBES	Iclobes@mienergy.coop	MiEnergy Cooperative	31110 COOPERATIVE WAY PO BOX 626 RUSHFORD, MN 55971	Electronic Service	No	OFF_SL_22-85_M-22-85
Pat	Carruth	pat@mnvalleyrec.com	Minnesota Valley Coop. Light & Power Assn.	501 S 1st St. PO Box 248 Montevideo, MN 56265	Electronic Service	No	OFF_SL_22-85_M-22-85
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_22-85_M-22-85
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022191	Electronic Service	No	OFF_SL_22-85_M-22-85
Lorene	Damsits	lorened@cmpasgroup.org	Central MN MPA	459 S Grove St  Blue Earth, MN 56013	Electronic Service	No	OFF_SL_22-85_M-22-85
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St  Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_22-85_M-22-85

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
J.	Drake Hamilton	hamilton@fresh-energy.org	Fresh Energy	408 St Peter St Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_22-85_M-22-85
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280  Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_22-85_M-22-85
Ronald J.	Franz	ronald.franz@dairylandpow er.com	Dairyland Power Cooperative	3200 East Ave S PO Box 817 La Crosse, WI 546020817	Electronic Service	No	OFF_SL_22-85_M-22-85
Joe	Hoffman	ja.hoffman@smmpa.org	SMMPA	500 First Ave SW  Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_22-85_M-22-85
Casey	Jacobson	cjacobson@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58501	Electronic Service	No	OFF_SL_22-85_M-22-85
Nathan	Jensen	njensen@otpco.com	Otter Tail Power Company	215 S. Cascade St.  Fergus Falls,  MN  56537	Electronic Service	No	OFF_SL_22-85_M-22-85
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248  Madison, SD 57042	Electronic Service	No	OFF_SL_22-85_M-22-85
Seth	Koneczny	st.koneczny@smmpa.org	SMMPA	500 First Avenue, SW  Rochester, MN 559023303	Electronic Service	No	OFF_SL_22-85_M-22-85
Brian	Krambeer	bkrambeer@mienergy.coo p	MiEnergy Cooperative	PO Box 626 31110 Cooperative W Rushford, MN 55971	Electronic Service ay	No	OFF_SL_22-85_M-22-85
Scott	Magnuson	smagnuson@bpu.org	Brainerd Public Utilities	8027 Highland Scenic Rd Baxter, MN 56425	Electronic Service	No	OFF_SL_22-85_M-22-85

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Tim	McCarthy	Tim.McCarthy@siouxvalley energy.com	Sioux Valley Southwestern Electric Cooperative, Inc. d/b/a Sioux Valley Energy	N/A	Electronic Service	No	OFF_SL_22-85_M-22-85
Scot	McClure	scotmcclure@alliantenergy.com	Interstate Power And Light Company	4902 N Biltmore Ln PO Box 77007 Madison, WI 537071007	Electronic Service	No	OFF_SL_22-85_M-22-85
Sara G	McGrane	smcgrane@felhaber.com	Felhaber Larson	220 S 6th St Ste 2200  Minneapolis, MN 55420	Electronic Service	No	OFF_SL_22-85_M-22-85
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022093	Electronic Service	No	OFF_SL_22-85_M-22-85
Ben	Nelson	benn@cmpasgroup.org	СММРА	459 South Grove Street  Blue Earth,  MN  56013	Electronic Service	No	OFF_SL_22-85_M-22-85
David	Niles	david.niles@avantenergy.c om	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_22-85_M-22-85
Samantha	Norris	samanthanorris@alliantene rgy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_22-85_M-22-85
Mikayla	Osterman	mosterman@otpco.com	Otter Tail Power Company	215 S Cascade St PO Box 496 Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_22-85_M-22-85
David	Raatz	draatz@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58501	Electronic Service	No	OFF_SL_22-85_M-22-85
Mark	Rathbun	mrathbun@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_22-85_M-22-85

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Michael	Reinertson	michael.reinertson@avante nergy.com	Avant Energy	220 S. Sixth St. Ste 1300  Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_22-85_M-22-85
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_22-85_M-22-85
John	Richards	johnrichards@nweco.com	Northwestern Wisconsin Electric Company	104 S. Pine St.  Grantsburg, WI 54840	Electronic Service	No	OFF_SL_22-85_M-22-85
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227  Madison, SD 57042	Electronic Service	No	OFF_SL_22-85_M-22-85
Kay	Schraeder	kschraeder@minnkota.com	Minnkota Power	5301 32nd Ave S  Grand Forks, ND 58201	Electronic Service	No	OFF_SL_22-85_M-22-85
J.P.	Schumacher	jps@mrenergy.com	Missouri River Energy Services	N/A	Electronic Service	No	OFF_SL_22-85_M-22-85
Christine	Schwartz	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7  Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_22-85_M-22-85
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_22-85_M-22-85
Trevor	Smith	trevor.smith@avantenergy.com	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_22-85_M-22-85
Mikayala	Thompson	mmthompson@otpco.com	Otter Tail Power Company	N/A	Electronic Service	No	OFF_SL_22-85_M-22-85
Michael	Volker	mvolker@eastriver.coop	East River Electric Power Coop	211 S. Harth Ave  Madison, SD 57042	Electronic Service	No	OFF_SL_22-85_M-22-85

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Todd	Wicklund	twicklund@bpu.org	Brainerd Public Utilities	8027 Highland Scenic Road PO Box 373 Brainerd, MN 56401	Electronic Service	No	OFF_SL_22-85_M-22-85