



414 Nicollet Mall
Minneapolis, Minnesota 55401

June 2, 2014

—VIA ELECTRONIC FILING—

Burl W. Haar
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, Minnesota 55101

RE: ANNUAL REPORT
SOLAR ENERGY STANDARD
DOCKET NO. E999/M-14-321

Dear Dr. Haar:

Enclosed for filing is the 2013 Annual Report on Progress in Achieving the Solar Energy Standard of Northern States Power Company, doing business as Xcel Energy, submitted in compliance with the NOTICE OF REPORTING REQUIREMENT AND COMMENT PERIOD issued on April 21, 2014 and the ORDER CLARIFYING SOLAR ENERGY STANDARD REQUIREMENTS AND SETTING ANNUAL REPORT REQUIREMENTS issued on April 25, 2014 (Docket No. E999/CI-13-542).

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list.

Please contact Rebecca Eilers at (612) 330-5570 or rebecca.d.eilers@xcelenergy.com or me at (612) 330-7529 or paul.lehman@xcelenergy.com if you have any questions regarding this filing.

Sincerely,

/s/

PAUL J LEHMAN
MANAGER, REGULATORY COMPLIANCE & FILINGS

Enclosures

c: Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Beverly Jones Heydinger	Chair
David C. Boyd	Commissioner
Nancy Lange	Commissioner
Dan Lipschultz	Commissioner
Betsy Wergin	Commissioner

IN THE MATTER OF UTILITIES' ANNUAL
REPORTS ON PROGRESS IN ACHIEVING
THE SOLAR ENERGY STANDARD

DOCKET NO. E999/M-14-321

ANNUAL REPORT

OVERVIEW

Northern States Power Company, doing business as Xcel Energy submits to the Minnesota Public Utilities Commission this report in compliance with the NOTICE OF REPORTING REQUIREMENT AND COMMENT PERIOD issued on April 21, 2014 establishing this docket and the ORDER CLARIFYING SOLAR ENERGY STANDARD REQUIREMENTS AND SETTING ANNUAL REPORT REQUIREMENTS issued on April 25, 2014 (Docket No. E999/CI-13-542).

I. SUMMARY OF FILING

A one-paragraph summary of the Annual Report is attached pursuant to Minn. Rule 7829.1300, subp. 1.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. R. 7829.1300, subp. 2 and Minn. Stat. § 216.17, subd. 3, Xcel Energy has electronically filed this document. A summary of the filing has been served on all parties on the Company's miscellaneous electric and gas service list.

III. GENERAL FILING INFORMATION

Pursuant to Minn. Rule 7829.1300, subp. 3, the Company provides the following information.

A. Name, Address and Telephone Number of Utility

Northern States Power Company, doing business as:
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(612) 330-5500

B. Name, Address and Telephone Number of Utility Attorney

James R. Denniston
Assistant General Counsel
Xcel Energy
414 Nicollet Mall - 5th Floor
Minneapolis, MN 55401
(612) 215-4656

C. Date of Filing

The date of this filing is June 2, 2014.

D. Statute Controlling Schedule for Processing the Filing

Since there is no determination of Xcel Energy's general revenue requirement necessary, the requested treatment falls within the definition of a "miscellaneous tariff filing" under Minn. Rule 7829.0100, subp.11. Comments on a miscellaneous filing are due within 30 days of its filing, with Reply Comments due 10 days thereafter. The PUC's Notice in this docket established a Comments due date of July 1, 2014 and a Reply Comments due date of July 11, 2014.

E. Utility Employee Responsible for Filing

Paul J Lehman
Manager, Regulatory Compliance and Filings
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IV. ANNUAL REPORT

During the 2013 legislative session, the statute establishing Minnesota's Renewable Energy Standard (RES)¹ was amended to add a Solar Energy Standard (SES). The new legislation required that each public utility file a report with the Commission reporting its progress in achieving the solar energy standard. The Commission clarified content requirements of utilities' annual reports demonstrating compliance with the Solar Energy Standard (SES) in its April 25, 2014 Order in Docket No. E999/CI-13-542. Below we provide the information for calendar year 2013 as detailed in the Order and the April 21 Notice in the present docket. We note that the Solar Energy Standard became effective near the end of the reporting year on August 1, 2013, and our proposed customer solar programs (including the second generation Solar*Rewards program) were not yet approved by the Commission during 2013 and are currently still pending. Also, as allowed for in the Notice, we provide estimates for certain items where relevant.

1. *Annual retail sales for the previous calendar year.*

As provided in our Annual REC Retirement compliance report filed on June 2, 2014 (Docket No. E999/M-14-12) our annual retail sales for 2013 were 30,954,277 MWh. This includes 11,812 MWh of sales to our wholesale customers.

2. *Annual excluded customer sales for the previous calendar year.*

For 2013, no customer sales were excluded from the total annual retail sales. Per Order Point 5 of the Commission's November 20, 2013 Order in Docket No. E999/CI-13-542, we are developing a process for notifying customers of potential eligibility for exclusion, as well as a proposed application form for customers to use to apply for exclusion. We intend to work with stakeholders to develop a notification plan and exclusion process and will propose this exclusion process to the Commission during the current reporting year.

3. *A list of customers requesting exclusion from the requirements of the SES, the NAICS code associated with their manufacturing activity, and their annual kW usage.*

At this time, no customers have requested exclusion from the requirements of the SES. As described above, we are in the process of developing the application process for customers to request exclusion.

¹ Minn. Stat. § 216B.1691

4. *The total Minnesota retail sales for customers excluded from the SES requirement.*

No customer have yet applied for exclusion from the total Minnesota retail sales. As noted above, we intend to work with stakeholders to develop a notification plan and exclusion process and will propose this exclusion process to the Commission during the current reporting year.

5. *Annual solar generation on the utilities' system for the previous calendar year (including the total number of units registered in M-RETS to that utility and S-RECs generated in the past year from those units.)*

While our new solar programs had not yet been approved by the Commission during calendar year 2013, our first generation Solar*Rewards program and the Minnesota Bonus program were still operating during 2013 after the Solar Energy Standard took effect on August 1. There were 61 Solar*Rewards and MN Bonus systems less than or equal to 20 kW installed after August 1, 2013 that accrued 12 S-RECs. In addition, there were 16 Solar*Reward and MN Bonus systems greater than 20 kW installed after August 1, 2013 that accrued 10 S-RECs². These S-RECs can be banked for use with SES compliance. These systems were reported to M-RETS in aggregate with the other Solar*Rewards systems installed in 2013. Therefore, additional detail will be required to separate these solar RECs with other solar RECs from systems installed prior to August 1, 2013. The Company will work with the Commission on the process to provide this information.

6. *Estimated amount of solar generation (expressed as capacity) a utility would be required to obtain in 2020.*

The Company has estimated that approximately 300 MW of solar PV capacity would provide enough S-RECs in one year to meet the 2020 SES requirement. However, in its April 25, 2014 Order in Docket No. E999/CI-13-542, the Commission ruled that solar RECs used for compliance with the 2020 requirements of the Solar Energy Standard could be accrued beginning in August 2013 and would have a four-year shelf life commencing January 2020. Based on this accrual, we estimate that 100 MW of utility scale solar installed at the end of 2016 and approximately 100 MW of small and medium scale solar³ installed through 2020 would provide enough accrued S-RECs to be in compliance through 2020 and beyond.

² The number of S-RECs accrued is less than the generation of these systems due to M-RETS Operating Rules regarding facility registration approval dates. The Company is committed to working with the Commission and M-RETS to streamline the registration and tracking of these small solar systems.

³ Small and medium scale solar projects are 1 MW or less.

We do not anticipate that our capacity need will change significantly due to excluded customers.

7. *Estimated solar energy requirements to meet the SES in 2020.*

We estimate that our 2020 SES requirement will be approximately 450,000 S-RECs.

8. *Short summary of ongoing efforts to obtain solar energy (including a brief summary of the anticipated mix of project sizes for SES compliance).*

Since the passage of the SES under the 2013 Energy Omnibus Bill, the Company has developed a growing portfolio of solar options for individuals and businesses which, when combined, will expand access to solar benefits to more customers while achieving compliance in 2020.

Solar*Rewards

On October 31, 2013, we requested permission from the Department of Commerce to close the first generation of Solar*Rewards, a rooftop solar program which pays financial incentives to qualifying participants. Solar*Rewards has been a feature of our Conservation Improvement Program (CIP) portfolio since 2010, and along with the Minnesota Bonus Rebate, has caused thousands of PV systems to be installed in Minnesota. This year, the final group of projects will be built and begin production.

Also on October 31, 2013, we proposed the second generation of Solar*Rewards, a rooftop solar program which pays financial incentives based on PV system production for qualifying systems under 20 kW. The Company filed this program pursuant to the 2013 Energy Omnibus legislation. The Renewable Energy Credits generated under Solar*Rewards belong to the Company and will be applied toward the Company's SES target. Final approval of our Solar*Rewards tariffs is pending before the Commission in Docket No. E002/M-13-1015.

The primary distinctions between the first and second generations of this program include: (1) a shift to offering participants an incentive based on system production, rather than an up-front incentive; (2) a reduced incentive level based on declining market pricing for solar installations; (3) a decreased qualifying system size from 40 kW to 20 kW; (4) a contract term of 10 years rather than 20 years; and (5) a new funding source, the Renewable Development Fund (RDF). Solar*Rewards represents a \$5 million annual investment in solar for each of the next 5 years. Solar*Rewards system production will count toward the SES and the small solar carve-out.

Between August 1 and December 31, 2013, first generation Solar*Rewards and Minnesota Bonus PV systems generated a total of approximately 22 S-RECs.

Made In Minnesota

In 2014, the Department of Commerce began administering Made in Minnesota, a program that pays incentives for solar energy generated by panels manufactured in Minnesota. Qualifying system sizes under Made in Minnesota are up to 40 kW, and the Department has set forth funding allocations based on system size. This program was introduced pursuant to the 2013 Energy Omnibus legislation, and per its terms, the Company accrues the S-RECs for generation produced under Made in Minnesota. The production from Made in Minnesota within Xcel Energy's service territory will count toward the Company's SES requirements, including the small solar carve-out where applicable.

Made in Minnesota is funded from CIP and RDF. Each investor-owned electric utility which meets the criteria set forth in statute will contribute 5% of its total annual CIP budget. Xcel Energy's RDF supplements the CIP funds up to a total of \$15 million per year.

The Department of Commerce has recently performed its lottery and notified those selected for this year's funds. Xcel Energy has begun receiving applications from those chosen through the lottery for interconnection within the Company's service territory.

Solar*Rewards Community

In the coming months we will launch Solar*Rewards Community, our new community solar program, where individual customers can purchase portions of the output from a shared, centrally-located solar array, called a community solar garden. Customers, called "subscribers," form agreements with garden managers, called "operators," and earn utility bill credits for their individual share of the solar generation.⁴

Individual gardens may be up to 1 MW AC, and must at a minimum be supported by five subscribers. Solar*Rewards Community will launch without a maximum level of participation or overall capacity. A decision on the subscriber bill credit rate is pending. The Company has filed both a Value of Solar rate and the Applicable Retail Rate with an optional S-REC transfer. Under the latter, garden operators that have not received a Solar*Rewards or Made In Minnesota incentive may choose to

⁴ Approval of our Solar*Rewards Community program is pending before the Commission in Docket No. E002/M-13-867.

structure their garden so that the S-RECs it generates are voluntarily transferred to the Company in exchange for an enhanced retail rate paid to subscribers. Consequently, there are significant unknowns about the market potential and progress toward SES goals attributable to Solar*Rewards Community.

Utility Scale Solar

The Company issued an RFP for up to 100MW of utility scale solar on April 22, 2014. Proposals are due on June 20, 2014. In addition, on May 23, 2014, the Commission issued its written order in Docket No. E002/CN-12-1240 (Competitive Acquisition Proposal) instructing the Company to pursue PPA negotiations with Geronimo Energy for 100 MW of solar which will be distributed among 20 sites adjacent to existing Company substations.

Overall, the Company expects to have up to 200MW of utility scale solar under PPA contracts by the end of 2014, subject to Commission approval, with expected in-service dates in the 2016 time frame. Specific amounts and timing are dependent on the analysis of the bids received.

- 9. *Progress toward compliance with the ten (10) percent carve-out for systems less than 20 kW.*

As noted above, we anticipate contributions toward the small solar carve-out of the SES to come from Solar*Rewards and Made in Minnesota primarily, with some small contributions possible from Solar*Rewards Community.

For systems installed between August 1, 2013 and December 31, 2013, the Company acquired S-RECs from its first generation Solar*Rewards program as shown in the table below. Through Solar*Rewards, the Company has accrued 12 S-RECs in 2013 attributable to its small solar carve-out.

Table 1

Group	Number of Systems	S-RECs Accrued
20 kW or Less	61	12
Greater than 20 kW	16	10

We note that for many of the projects noted above, systems were commissioned and began producing only in the final weeks of the year.

- 10. *Brief summary of the state(s) in which the solar generation is located or anticipated to be located.*

The locations of new solar generation for utility scale solar projects will depend upon the results of the RFP process referenced in Part 8 above. We anticipate making selections in late summer and bringing the power purchase agreements that result from our solar competitive bidding program to the Commission for approval in late fall, at which point we will have firm project location information. All of the projects proposed by Geronimo Energy in the Competitive Acquisition docket, also referenced in Part 8 above, are located in Minnesota.

All small scale solar generation that is part of our Solar*Rewards, Made in Minnesota, or Solar*Rewards Community programs will be located in Minnesota.

11. *A breakdown of solar RECs generated in the previous calendar year under each of the following categories:*
 - a. *Facilities receiving a Value of Solar rate;*
 - b. *Community Solar Gardens;*
 - c. *Facilities under a Net metering tariff;*
 - d. *Utility-owned solar projects;*
 - e. *Solar facilities that have entered into a PPA with the utility;*
 - f. *Facilities receiving an incentive, such as Solar*Rewards or Made in Minnesota.*

See the table below for the number of solar RECs installed after August 1, 2013 and thus eligible for SES compliance accrued in 2013 for each of the specified categories.

Table 2

	2013 Solar RECs
a. Facilities receiving a Value of Solar rate	0
b. Community Solar Gardens	0
c. Facilities under a Net metering tariff	0
d. Utility-owned solar projects	0
e. Solar facilities that have entered into a PPA with the utility	0
f. Facilities receiving an incentive, such as Solar*Rewards or Made in Minnesota	22

Ordering point 4.K of the April 24, 2014 Order also requested information on the purchases and sales of S-RECs to meet the SES. The 2013 purchases, or acquisition, of small customer-sited S-RECs by the Company is shown in Table 1 above. The

Company did not purchase any S-RECs outside of our tariffed programs or sell any S-RECs in 2013.

We note that the Commission had not yet established the Value of Solar rate in 2013, nor had the Solar*Rewards Community program been approved by the Commission. Through 2013, the Company did not own any of the S-RECs assigned to our net metered tariff customers. Furthermore, the Company did not enter into any solar PPAs in 2013 after August 1. The S-RECs listed above for Part F are through facilities that went in service after August 1, 2013 in our first generation Solar*Rewards program and through the former Minnesota Bonus program.

VI. CONCLUSION

We request that the Commission accept our 2013 Annual Report on Progress in Achieving the Solar Energy Standard which was based on the best currently available information. Xcel Energy intends to continue to implement plans to obtain resources that will meet our statutory solar energy requirements as well as satisfy our other mandates. We expect to have more information and updated estimates in our next SES annual report.

Dated: June 2, 2014

NORTHERN STATES POWER COMPANY

/s/

PAUL J LEHMAN
MANAGER, REGULATORY COMPLIANCE AND FILINGS

CERTIFICATE OF SERVICE

I, Theresa Sarafolean, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota

xx electronic filing

Docket No. E999/M-14-321

Dated this 2nd day of June 2014

/s/

Theresa Sarafolean

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