



414 Nicollet Mall
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THIRD PARTY CONFIDENTIAL TRADE SECRET DATA EXCISED**

October 26, 2015

—Via Electronic Filing—

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101-2147

RE: REPLY COMMENTS
FORMAL COMPLAINT AND PETITION BY SUNSHARE, LLC FOR RELIEF
UNDER MINN. STAT. § 216B.1641 AND SECTIONS 9 AND 10 OF XCEL
ENERGY'S ELECTRIC TARIFF BOOK
DOCKET NO. E002/C-15-786

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Reply Comments in Response to the Department of Commerce's October 15, 2015 Comments.

Specific developer information is marked Trade Secret pursuant to Minnesota Statute §13.37, sub. 1 (b)., as the specific information derives independent economic value, actual or potential, to Xcel Energy, its customers, suppliers, and competitors, from not being generally known to, and not being readily ascertainable by proper means by providing valuable information not otherwise readily ascertainable and from which could be obtained economic value. It is marked as Third Party Confidential Trade Secret because it is information that pertains to SunShare.

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 Holly Hinman at holly.r.hinman@xcelenergy.com or 612-330-5941 if you have any questions regarding this filing.

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Sincerely,

/s/

AAKASH CHANDARANA
REGIONAL VICE PRESIDENT
RATES AND REGULATORY AFFAIRS

Enclosures
c: Service List

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STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Beverly Jones Heydinger	Chair
Nancy Lange	Commissioner
Dan Lipschultz	Commissioner
John Tuma	Commissioner
Betsy Wergin	Commissioner

IN THE MATTER OF A FORMAL
COMPLAINT AND PETITION BY
SUNSHARE, LLC FOR RELIEF UNDER
MINN. STAT. § 216B.1641 AND SECTIONS
9 AND 10 OF XCEL ENERGY’S ELECTRIC
TARIFF BOOK

DOCKET NO. E002/C-15-786

REPLY COMMENTS

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits this Reply to the Department of Commerce’s October 15, 2015 Comments. We respond to the Department’s discussion about disputed engineering issues, including the appropriate standards and cost responsibility for required designs, we provide the information on upgrades at issue in SunShare applications, we discuss our efforts to plan for needed resources as projects advance, and we detail the Company’s efforts to operate the program with transparency and responsiveness.

A. Interconnection and Engineering Study Issues List

In its status update, the Department recommends that the Company and SunShare identify a list of the issues in dispute, a summary of each party’s position, and all supporting documentation that will enable engineering review. The Company provided our position on the issues in our response to Department of Commerce Information Request No. 1 and our Comments filed September 10, 2015. As of the date of this filing, the Company has not yet worked with SunShare to produce an “Issues List” for use by the independent engineer. Assuming SunShare intends to submit a dispute via the Department’s independent engineer process (once established), we are willing to work jointly to produce an Issues List.

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B. Engineering Standards and Cost Responsibility

In its Comments, the Department provided its understanding of the relationship between utility engineering standards and state rules. The Company disagrees with the Department’s analysis.

The Department based its position on the recent rulemaking in Docket No. E-999/R-13-729, where the Commission essentially reaffirmed, with slight wording changes, an existing rule. The rule it cites, Minn. R. 7835.0800, is limited to provisions in “Schedule E,” which does not apply to the Solar*Rewards Community (S*RC) program.¹

The Xcel Energy Section 10 interconnection tariff contains the applicable interconnection standards for Solar*Rewards Community. The tariff states that in establishing a generation interconnection standard, there are three main issues that must be addressed: safety, economics, and reliability.

1. Safety

The National Electrical Safety Code (NESC) and the National Electrical Code (NEC) set forth the minimum safety requirements for power and electrical systems. In determining construction design standards, utilities meet or exceed minimum safety standards while optimizing cost and reliability. The result is very few, if any, utilities choose to design and build electric systems at the edge of NESC compliance. The Company’s standardization process has also produced this expected result, which is intended to best serve customers with safe, reliable, and cost effective energy over the life of standard assets.

Per the terms of the Company’s tariff, the first and most important issue is safety of the general public and of the employees working on the electrical systems.² The requirements in Section 10 are intended to achieve the following:

- 1) Ensure the safety of utility personnel and contractors working on the electrical power system.
- 2) Ensure the safety of utility customers and the general public.

¹ Schedule E is filed annually with our Cogeneration and Small Power Production Tariff, Docket No. E999/PR-15-9.

² Minnesota Electric Rate Book, Section 10, Sheet 136.

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- 3) Protect and minimize the possible damage to the electrical power system and other customer's property.
- 4) Ensure proper operation to minimize adverse operating conditions on the electrical power system.³

2. *Economics*

The second issue is economics. The interconnection standard must be developed so that only those items that are necessary to meet safety and reliability are included in the requirements. This standard sets the benchmark for the minimum required equipment. If a piece of equipment or configuration is not needed, it is not required.⁴

The Company's construction standards have been developed to provide the lowest total ownership costs over the life of the asset. These standards reflect a number of considerations, including material cost, installation cost, material inventory costs, life of the asset, and future maintenance costs.

3. *Reliability*

Reliability and resiliency are also factors in determining Xcel Energy construction standards. System reliability impacts stemming from specific geographic and climate conditions are carefully considered when developing construction standards. For example, pole strength is not designed to absolute minimum NESC requirements due to experience with storms, ice, and wind loading in the Company's service territory. Increased line clearance between phases has the potential to reduce outages caused by vegetation and wind.

4. *Responsibilities of the Parties*

Under the Section 10 tariff, the parties agree to cause their facilities or systems to be constructed in accordance with the laws of the State of Minnesota and to meet or exceed applicable codes and standards.⁵ The Section 10 tariff is also clear that the interconnection customer pays for the costs of interconnection. The Section 10 tariff states:

³ Minnesota Electric Rate Book, Section 10, Sheet 138.

⁴ Minnesota Electric Rate Book, Section 10, Sheet 136.

⁵ Minnesota Electric Rate Book, Section 10, Sheet 136.

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Customer is responsible for any applicable study fees and interconnection costs. The customer must pay all such costs as specified in the Interconnection Agreement. ... The customer shall be responsible for all costs associated with the installation, operation, and maintenance of the facility.⁶

We believe the clear terms of the tariff support the Company's technical standards and in maintaining cost responsibility on the party seeking to interconnect.

C. Nature, Timing, and Cost of Non-Material Upgrades.

The Department also seeks information on the nature, timing, and cost of any non-material upgrades scheduled for substations at which SunShare is requesting interconnection. Please see Attachment A for the Indicative Cost Estimates provided to SunShare⁷.

D. Processing Interconnection Requests

The Department requests that the Company comment on how we will process interconnection requests, particularly at the latter design and construction phase of an application. We have discussed our efforts to provide an efficient design and construction process in our recent Supplemental Report.⁸ Our process to facilitate efficient design and construction includes assessing resource needs in response to the queue, pre-ordering certain equipment, and sourcing skilled contractors from beyond our service territory.

1. Resource Needs

The Company has completed a basic engineering, design, and construction resource study to understand where additional resources will be required based on the scope of applications received. Our contracting group is underway securing additional resources through our contract suppliers.

⁶ Minnesota Electric Rate Book, Section 10, Sheet 78.

⁷ SunShare provided additional information recently that will require these letters to be modified.

⁸ Supplemental Report, In the Matter of the Petition of Northern States Power Company, dba Xcel Energy, for Approval of Its Proposed Community Solar Garden Program, Docket No. E002/M-13-867. September 22, 2015.

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2. *Pre-Ordering Equipment*

In order to allow for maximum efficiency, production slots have been reserved for long lead time materials. Once payment is received from an applicant and design work proceeds, actual material purchases will occur based on design requirements.

3. *Sourcing for High Work Volume*

Solar*Rewards Community is driving skilled resource needs far above what we normally require in Minnesota. Contractors with the specific skills required (including linemen and distribution designers) may need to be brought in from outside our service territory. A levelized work plan is typically the most cost effective when managing design and construction resources. Lower cost resources are brought on first, but costs can escalate where work needs are concentrated over a compressed time period. The Company is working to identify the different construction scenarios that will arise with the current applications and ways to manage and mitigate risks from high volume work during a compressed timeframe.

E. Transparency and Responsiveness

The Department requested that the Company describe how it will make processes more transparent and responsive. We note that we provided a discussion of our increased transparency and responsiveness in our September 22, 2015 Supplemental Report. The key elements to the Company's approach include building new functionality into the developer's online web portal, the establishment of regular meetings, and the development of a new training opportunity for program participants.

1. *New Online Features*

We recently rolled out new online features for Solar*Rewards Community applicants. Applicants now have the ability to view their upcoming project deadlines and deliverables within the online application system. New fields have been added to both the applicant-facing web system, as well as our back office, as we expand our application tracking and reporting functionality.

The S*RC Implementation Workgroup has established a technology sub-committee. We will meet as a subcommittee in the coming month to identify additional ways to provide developers access to helpful information and reporting from the online application system. The Workgroup's input will help determine what information is

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most meaningful to applicants, and how it is best displayed. We will offer additional training on this new functionality once it is rolled out.

2. *Bi-weekly Meetings*

While the Solar*Rewards Community program team has been meeting with some developers since the beginning of the year to discuss project status, we have recently formalized our offer for live and regular communications. Since September, we have made available to interested applicants bi-weekly meetings with a Company technical resource and a program management resource. The bi-weekly (every two weeks) meeting agenda typically includes a discussion of upcoming deadlines for the Company and the developer, technical or project-specific questions and answers, and discussion of project schedules and milestones. These meetings are the cornerstone of how we deliver the program and maintain open communications with applicants. They enable the participants to share expectations and to share and proactively address issues as they arise.

3. *Training*

In addition to the Company's efforts to increase transparency and responsiveness noted above, we have also seized the opportunity to incorporate participant training in our program administration. The training opportunities have already proven valuable to both the Company and applicants in clarifying expectations and sharing knowledge. In one example, we perceived confusion among certain solar developers about grounding requirements for solar gardens. In response, we hosted a two-hour training session in August on this topic. We also collected ideas from applicants on the additional training topics they would value and are finalizing plans for a day-long training session in November to address common issues and frequently asked questions. The focus of the training will be on technical and administrative topics.

The Company has redoubled its efforts to manage Solar*Rewards Community with transparency and responsiveness. We have done so through numerous initiatives, including the provision of web tool enhancements, increased reporting, the establishment of regular meetings, and the furnishing of training opportunities. We are pleased that these efforts have been helpful to applicants, and we look forward to continuing to refine our program as projects advance to construction.

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CONCLUSION

We appreciate the opportunity to submit this Reply to the Department of Commerce's October 15, 2015 Comments. While we respond to the Department's discussion and requests for comments, we also look forward to gaining experience with the Department's forthcoming processes to resolve disputes via an independent engineer and to resolve disputes regarding the co-location of community solar gardens. The Company's focus remains forward-looking as we administer the program and bring gardens online as they are ready.

Dated: October 26, 2015

Northern States Power Company

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Attachment A provided with this response contains data classified as trade secret pursuant to Minn. Stat. §13.37 and are marked as “Non-Public” in their entirety. Pursuant to Minn. R. 7829.0500, subp. 3, the Company provides the following description of the excised material:

1. **Nature of the Material:** The attachment contains indicative cost estimates for SunShare’s proposed gardens.
2. **Authors:** The data was prepared by or on behalf of Xcel Energy relied upon certain information provided by SunShare.
3. **Importance:** The attachment contains detailed third party confidential project information, including location, set-up, size and interconnections costs of SunShare proposed community solar gardens.
4. **Date the Information was Prepared:** The information was prepared in or about September 15.

[TRADE SECRET BEGINS

TRADE SECRET ENDS]

CERTIFICATE OF SERVICE

I, SaGonna Thompson, 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. E002/M-15-786

Dated this 26th day of October 2015

/s/

SaGonna Thompson
Regulatory Administrator

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