



414 Nicollet Mall
Minneapolis, MN 55401

July 21, 2016

—Via Electronic Filing—

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

RE: SUPPLEMENT – CORRECTION
COMMUNITY SOLAR GARDENS
DOCKET NO. E002/M-13-867

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits this enclosed information to the Minnesota Public Utilities Commission to address the requests discussed at the Commission's July 19 Oral Arguments.

After submitting our filing, slight modifications were made to pages 2 and 3 to provide more clarity. A footnote has been added to better define the term "Active" located in Table 2, and the third paragraph on page 3 was edited to fix grammatical errors. We have enclosed the corrected Supplement.

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 Jessica Peterson at Jessica.K.Peterson@xcelenergy.com or 612-330-6850 if you have any questions regarding this filing.

SINCERELY,

/s/

SHAWN WHITE
MANAGER, DSM & RENEWABLE REGULATORY STRATEGY AND PLANNING

Enclosure
c: Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Beverly Jones Heydinger	Chair
Nancy Lange	Commissioner
Dan Lipschultz	Commissioner
Matthew Schuerger	Commissioner
John Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF ITS PROPOSED
COMMUNITY SOLAR GARDENS PROGRAM

DOCKET No. E002/M-13-867

SUPPLEMENT – CORRECTED

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits the enclosed information to the Minnesota Public Utilities Commission in response to Commissioners' requests made at Oral Arguments on July 19. We provide supplemental information to address these three requests: 1) to update Table 3 of the Company's July 11 Monthly Compliance Report, 2) to update information provided initially in the Company's Response to MPUC IR 30, and 3) to provide detail on the impact of the distribution component to the Value of Solar (VOS) 2014, 2015, and 2016 annual calculations.

A. Interconnection Queue Summary

We provide this update to Table 3, originally located on page four of the July 11 Monthly Report.

Table 1: Interconnection Queue Summary¹

	MW	Sites
Project Details: Study Queue		
Study SOW Not Issued by Xcel Energy	5	1
Study SOW Issued by Xcel Energy	2	2
a. SOW Waiting for Developer	32	10
b. Studies in Process	13	4
c. Studies Complete (<i>Interconnection Agreement Issued</i>)	181	38
c. Studies Complete (<i>No Interconnection Agreement Issued</i>)	132	N/A
Design & Construction (<i>Interconnection Agreements have been signed and funded</i>)		
	410	113

Those projects noted as “Studies Complete – *No Interconnection Agreement Issued*” were either impacted by the Material Upgrade provision outlined in Section 9, Original Sheet No. 68.4-68.5 or encountered a technical limitation. We offer further details regarding these projects in Table 2 below.

**Table 2: Studies Complete –
No Interconnection Agreement Issued**

Material Upgrade	Active ²			Withdrawn		
	Applications	MW	Sites	Applications	MW	Sites
Million Dollar Cap	12	12	5	3	3	1
Substation Capacity Limit	89	88	24	18	18	5
Substation Outage	4	4	2	4	4	1
Material Upgrade Total	105	104	31	25	25	7
Other Technical Limitation	Applications	MW	Sites	Applications	MW	Sites
Voltage Fluctuation	28	28	13	9	9	3

Table 2 also illustrates that out of the 895 active applications in the Solar*Rewards Community program 130 applications³ (38 sites, 129 MW) have hit the Material

¹ As of July 18, 2016.

² These projects have an active application in our application tracking system.

³ This number could be slightly higher than accounted for within our application tracking system since the system does not track partial reduction. For example, if a project was limited at 0.4 MW versus the 1 MW applied for the project is assumed to move forward at 0.4 MW and therefore not noted as a “Material Upgrade” limitation.

Upgrade provision. This amounts to approximately 15 percent of applications impacted by this provision. In addition, 7 of these 38 sites have withdrawn from the program. The remaining projects remain in our system as projects that have not received an Interconnection Agreement. These applications are subject to project withdrawal but have yet to do so within our application system; several developers are potentially keeping applications active to maintain queue position while awaiting the actions of those earlier in queue.

We further note that there are projects with technical limitations, such as voltage fluctuation. Resolving the technical limitation, if possible, often leads to a Material Upgrade limitation based on the technical limitation (in other words, some projects are disqualified for more than one reason). We estimate that 21 applications categorized as voltage fluctuation have also hit the Material Upgrades cost limit.

We also note that other technical limitations, such as voltage supervisory reclosing, caused some projects to hit the outage limitation. Yet for many of these impacted projects we devised an alternative solution allowing them to proceed and receive an Interconnection Agreement.

B. Design and Construction

As first noted in MPUC IR No. 30 submitted on June 6, 2016, and later identified in our July Monthly Report⁴, approximately 50 percent of the Solar*Rewards Community projects have signed interconnection agreements and have moved into Design and Construction.

We offer Table 3 and Table 4 as an update to the record.

**Table 3: Solar*Rewards Community Projects
in Design & Construction**

	MW	Sites
Design	368	101
<i>Initial Design</i>	<i>53</i>	<i>15</i>
<i>Active Design</i>	<i>160</i>	<i>42</i>
<i>Waiting for Developer</i>	<i>135</i>	<i>39</i>
<i>On Hold</i>	<i>20</i>	<i>5</i>
Construction	42	12
Total Projects	410	113

⁴ This table appears in the July 11, 2016 Monthly Compliance Report as Table 4 on page 5.

In-service dates are mutually agreed upon by the Company and developers, therefore, dates below are subject to change. Currently only twelve of these projects have moved into the construction phase. These numbers should not be used as confirmation of what will be completed by year-end until they are in the construction phase.

**Table 4: Solar*Rewards Community Projects
Project In-Service Dates**

	MW	Sites
Currently Undefined	145	40
2016	168	47
August	6	2
September	35	10
October	25	8
November	64	20
December	38	7
2017	97	26
January	3	1
February	32	7
March	15	4
April	13	5
May	15	4
June	9	3
September	10	2

C. VOS Distribution Value as a Percent of the Total VOS Value

Finally, we provide the following detail on the impact of the distribution component in the annual calculation of the VOS.

Table 5: VOS Distribution Value as a Percent of the Total VOS Value

	VOS Methodology Calculation			
	Year			
	2014	2015	2016 As Calculated	2016 ¹ Set to zero
Distribution component value as a % of the total VOS Value	6.9%	16.7%	-13.1%	0.0%
Year Over Year percentage point change		9.8pp	-29.8pp	-16.7pp
Distribution Component Value – Levelized (Cents/kWh)	0.83	2.28	-1.62	0
VOS Value - Levelized (Cents/kWh)	12.08	13.65	12.39	12.39

¹ *Negative distribution component values to be set to zero per the April 1, 2014 Commission Order in 14-65*

CONCLUSION

We appreciate the opportunity to provide this additional information for the Commission’s review.

Dated: July 21, 2016

Northern States Power Company

CERTIFICATE OF SERVICE

I, Carl Cronin, 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-13-867

Dated this 21st day of July 2016

/s/

Carl Cronin
Regulatory Administrator

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