



414 Nicollet Mall  
Minneapolis, MN 55401

July 31, 2013

—Via Electronic Filing—

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

RE: PETITION  
TARIFF MODIFICATIONS IMPLEMENTING NET METERED FACILITY  
PROVISIONS, STANDBY SERVICE EXEMPTIONS, AND METER AGGREGATION  
PURSUANT TO THE 2013 OMNIBUS ENERGY BILL  
DOCKET NO. E002/M-13-\_\_\_\_\_

Dear Dr. Haar:

Northern States Power Company, doing business as Xcel Energy, requests approval of the enclosed tariff modifications, which are intended to implement net metered facility provisions, standby service exemptions, and meter aggregation pursuant to the new energy legislation passed by the 2013 Minnesota Legislature.

We have electronically filed this document with the Minnesota Public Utilities Commission, and a summary of the filing has been served on the parties on the attached service list.

Please contact me at [amy.a.liberkowski@xcelenergy.com](mailto:amy.a.liberkowski@xcelenergy.com) or 612-330-6613 if you have any questions regarding this filing.

Sincerely,

/s/

AMY LIBERKOWSKI  
MANAGER  
REGULATORY ANALYSIS

Enclosures  
c: Service List

STATE OF MINNESOTA  
BEFORE THE  
MINNESOTA PUBLIC UTILITIES COMMISSION

|                         |              |
|-------------------------|--------------|
| Beverly Jones Heydinger | Chair        |
| David Boyd              | Commissioner |
| Nancy Lange             | Commissioner |
| J. Dennis O'Brien       | Commissioner |
| Betsy Wergin            | Commissioner |

IN THE MATTER OF THE PETITION OF  
NORTHERN STATES POWER COMPANY  
FOR APPROVAL OF TARIFF  
MODIFICATIONS IMPLEMENTING NET  
METERED FACILITY PROVISIONS,  
STANDBY SERVICE EXEMPTIONS, AND  
METER AGGREGATION PURSUANT TO  
THE 2013 OMNIBUS ENERGY BILL

DOCKET NO. E002/M-13-\_\_\_\_\_

**PETITION**

**OVERVIEW**

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of the enclosed tariff modifications, which are intended to align our tariffs with recent legislative changes affecting Minn. Stat. § 216B.164.

Legislative changes enacted in 2013 Minn. Sess. Law Serv. Ch. 85 (H.F. 729), 2013 Minn. Sess. Law Serv. Ch. 125 (S.F. 827), and 2013 Minn. Sess. Law Serv. Ch. 132 (H.F. 854), collectively referred to as the “Omnibus Energy Bill,” included, among other revisions, the following changes to Minn. Stat. § 216B.164 related to distributed generation:

- Expanded net metering eligibility to systems less than 1,000 kilowatts (kW);
- Added a provision that a customer with a net metered facility between 40 kW and less than 1,000 kW capacity may elect to be compensated for any net input into the system in the form of a kilowatt-hour credit (kWh) carried forward and applied to subsequent energy bills;
- Removed mandatory standby charges for systems up to 100 kW; and
- Added meter aggregation.

To comply with these changes, we propose the following tariff modifications:

- Add net metered facility provisions to Section 10, including a form contract, which covers systems from 40 kW to less than 1,000 kW;
- Remove mandatory standby service for systems up to 100 kW;
- Add meter aggregation; and
- Make other conforming adjustments to align our tariffs with the revised statute.

We respectfully request Commission approval of these tariff modifications, which will allow the Company to comply with the legislative changes applicable to net metered facilities, standby service exemptions, and meter aggregation.

## **I. SUMMARY OF FILING**

A one-paragraph summary is attached to this filing pursuant to Minn. R. 7829.1300, subp. 1.

## **II. SERVICE ON OTHER PARTIES**

Pursuant to Minn. R. 7829.1300, subp. 2, the Company has served a copy of this filing on the Office of the Attorney General – Antitrust and Utilities Division. A summary of the filing has been served on all parties on the enclosed service list.

## **III. GENERAL FILING INFORMATION**

Pursuant to Minn. R. 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:  
Xcel Energy  
414 Nicollet Mall  
Minneapolis, MN 55401  
(612) 330-5500

### **B. Name, Address, and Telephone Number of Utility Attorney**

James Denniston  
Assistant General Counsel  
Xcel Energy  
414 Nicollet Mall, 5<sup>th</sup> Floor  
Minneapolis, MN 55401  
(612) 215-4656

**C. Date of Filing**

The date of this filing is July 31, 2013. The proposed tariff modifications will be effective upon Commission approval.

**D. Statute Controlling Schedule for Processing the Filing**

This filing is made under Minn. Stat. § 216B.164. The referenced statute does not impose a schedule controlling the processing of this filing. However, because no determination of Xcel Energy’s general revenue requirement is necessary, this filing falls within the definition of a miscellaneous tariff filing under Min. R. 7829.0100, subp. 11. Pursuant to Minn. R. 7829.1400, subps. 1 and 4, initial comments on a miscellaneous tariff filing are due within 30 days of filing, and replies are due 10 days from expiration of the original comment period.

**E. Utility Employee Responsible for Filing**

Amy Liberkowski  
Manager, Regulatory Analysis  
Xcel Energy  
414 Nicollet Mall, 7th Floor  
Minneapolis, MN 55401  
(612) 330-6613

**IV. MISCELLANEOUS INFORMATION**

Pursuant to Minn. R. 7829.0700, the Company requests that the following persons be placed on the Commission’s official service list for this proceeding:

James Denniston  
Assistant General Counsel  
Xcel Energy  
414 Nicollet Mall, 5<sup>th</sup> floor  
Minneapolis, MN 55401  
james.r.denniston@xcelenergy.com

SaGonna Thompson  
Records Analyst  
Xcel Energy  
414 Nicollet Mall, 7<sup>th</sup> Floor  
Minneapolis, MN 55401  
regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to Ms. Thompson at the Regulatory Records email address above.

## **V. DESCRIPTION AND PURPOSE OF FILING**

### **A. Background**

The “Omnibus Energy Bill” is a broad bill that introduced a number of changes to existing statute and created new compliance requirements for the Company, including a solar energy standard and development of a solar gardens program and small solar incentive program. The Company is currently in the process of developing a strategy and plan for complying with the enacted changes. This petition addresses the new compliance requirements related to net metered facilities, standby service exemptions and meter aggregation.

### **B. Purpose of Filing**

In this Petition, we seek Commission approval of our proposed tariff modifications, which, if approved by the Commission, will:

- Add ability to net meter for systems from 40 kW to less than 1,000 kW, including a form contract;
- Remove mandatory standby service for systems up to 100 kW;
- Add meter aggregation; and
- Make conforming adjustments to align our tariffs with the revised statute.

To expand the eligibility for net metered billing to distributed generation facilities under 1,000 kW, we added language to Section 10 of our tariff, which covers the interconnection requirements for systems of this size. We also added a form contract, modeled after the Uniform Statewide Contract for Cogeneration and Small Power Production Facilities that currently covers net metering for systems 40 kW and under. The form contract includes language from the Omnibus Energy Bill that limits individual system capacity limits to 120 percent of the customer’s onsite annual electric energy consumption and allows customers with a net metered facility between 40 kW and less than 1,000 kW to elect to be compensated for net input into the system in the form of a kWh credit carried forward and applied to a subsequent billing period. Finally, we added clarifying language to the contract regarding renewable energy credits (RECs).

We have modified Section 5 of our tariff to exempt customers with distributed generation systems under 100 kW from Standby Service. We propose that customers with systems less than 100 kW have the ability to opt-in to Standby Service, as the recently approved Standby Service Interim Photovoltaic Solar capacity credit may result in lower bills if those customers take Standby Service.

The Omnibus Energy Bill language regarding meter aggregation was added to Sections 5 and 10 of our tariff to cover distributed generation facilities less than 1,000 kW. We did not include the requirement that the customer own the meter, as none of our customers own their meters.

Other conforming tariff changes include adding the definition of a net metered facility and updating our table of contents.

We have attempted to incorporate these requirements with as few changes to the current process as possible. These tariff changes are necessary to implement the requirements of the Omnibus Energy Bill, as represented in amendments to Minn. Stat. § 21B.164. The existing tariff sheets affected by these changes and the new tariff sheets required are summarized in the table below and in more detail in Attachment A to this filing.

### **Minnesota Electric Rate Book—MPUC No. 2**

Section 1, Sheet No. 5, revision 4  
Section 5, Sheet No. 101, revision 13  
Section 5, Sheet No. 106, revision 4  
Section 9, Sheet No. 2, revision 17  
Section 10, Sheet No. TOC-1, revision 2  
Section 10, Sheet No. 73, revision 2  
Section 10, Sheet No. 73.1, original 1  
Section 10, Sheet No. 73.2, original 1  
Section 10, Sheet No. 74, revision 4  
Section 10, Sheet No. 163, original 1  
Section 10, Sheet No. 164, original 1  
Section 10, Sheet No. 165, original 1  
Section 10, Sheet No. 166, original 1  
Section 10, Sheet No. 167, original 1  
Section 10, Sheet No. 168, original 1

We provide the redlined and clean tariff sheets as Attachment B to this filing. Attachment C shows in redline format the changes to Minn. Stat. § 216B.164 created by the Omnibus Energy Bill. In particular, the changes to Minn. Stat. § 216B.164, Subd. 2a(j), Subd. 3, Subd. 3a, Subd. 4a, and Subd. 4c guide our proposed tariff changes.

## **VI. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE**

There is no increase in Xcel Energy's revenue as a result of the tariff modifications.

### **CONCLUSION**

Xcel Energy respectfully requests that the Commission approve the tariff changes necessary to comply with the revisions to Minn. Stat. § 216B.241 related to implementation of net metering, standby charge exemptions, and meter aggregation as provided for in the 2013 Omnibus Energy Bill.

Dated: July 31, 2013

Northern States Power Company

Respectfully submitted by:

/s/

AMY LIBERKOWSKI  
MANAGER  
REGULATORY ANALYSIS

STATE OF MINNESOTA  
BEFORE THE  
MINNESOTA PUBLIC UTILITIES COMMISSION

|                         |              |
|-------------------------|--------------|
| Beverly Jones Heydinger | Chair        |
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IN THE MATTER OF THE PETITION OF  
NORTHERN STATES POWER COMPANY  
FOR APPROVAL OF TARIFF  
MODIFICATIONS IMPLEMENTING NET  
METERED FACILITY PROVISIONS,  
STANDBY CHARGE EXEMPTIONS, AND  
METER AGGREGATION PURSUANT TO  
THE 2013 OMNIBUS ENERGY BILL

DOCKET NO. E002/M-13-\_\_\_\_\_

**PETITION**

**SUMMARY OF FILING**

Please take notice that on July 31, 2013, Northern States Power Company doing business as Xcel Energy filed with the Minnesota Public Utilities Commission a Petition for approval of tariff modifications to implement the net metering, standby charge exemption, and meter aggregation changes contained in the 2013 Omnibus Energy Bill.

| <b>Tariff</b>                                   | <b>Sheet No.</b>    | <b>Change</b>   | <b>Statute</b>  |
|---|---------------------|---|---|
| Table of Contents                               | 1-5                 | Update table of contents  |   |
| Standby Service                                 | 5-101 &<br>5-106    | Updated applicability threshold from 60kW to 100 kW   | Sec. 4, Subd. 3a. - Minn. Stat. 216B.164 (Standby Service Requirement Threshold)  |
| Net Energy Billing Service (A50)                | 9-2                 | Added aggregated metering language  | Sec. 6, Subd. 4a. - Minn. Stat. 216B.164 (Aggregated Metering)  |
| Table of Contents                               | 10-TOC-1            | Update table of contents  |   |
| Distributed Generation Standard Interconnection | 10-73 to<br>10-74   | Update to distributed generation tariff to include net metered facilities, add aggregated metering and update applicability threshold of Standby Service  | Sec. 3, Subd. 3. - Minn. Stat. 216B.164 (Rate Considerations)<br>Sec. 4, Subd. 3a. - Minn. Stat. 216B.164 (Net-Metered Facilities)<br>Sec. 6, Subd. 4a. - Minn. Stat. 216B.164 (Aggregated Metering)<br>Sec. 8, Subd. 4c. - Minn. Stat. 216B.164 (System Capacity Limits) |
| Net-Metered Facilities Contract                 | 10-163 to<br>10-168 | Added new contract for Net Metered Facilities (more than 40kW and less than 1000kW) based on Uniform Statewide Contract for Cogeneration and Small Power Production Facilities with added provision for larger net-metered facilities | Sec. 4, Subd. 3a. - Minn. Stat. 216B.164 (Net-Metered Facilities)<br>Sec. 6, Subd. 4a. - Minn. Stat. 216B.164 (Aggregated Metering)<br>Sec. 8, Subd. 4c. - Minn. Stat. 216B.164 (System Capacity Limits)  |

**Redline**

Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

PROPOSED

**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**TABLE OF CONTENTS (Continued)**

Section No. 1  
~~3rd~~<sup>4th</sup> Revised Sheet No. 5

|                   |   |               |
|-------------------|---|---------------|
| <b>SECTION 9</b>  | <b>COGENERATION AND SMALL POWER PRODUCTION</b>  |               |
|                   | Table of Contents .....   | TOC           |
|                   | Technical and Special Terms for Cogeneration<br>and Small Power Production .....                | 9-1           |
|                   | Net Energy Billing Service .....  | 9-2           |
|                   | Purchase and Sale Billing Service .....   | 9-3           |
|                   | Time of Day Purchase Service .....  | 9-4           |
|                   | Rules and Regulations Applicable to Cogeneration and<br>Small Power Production Facilities ..... | 9-5           |
|                   | Standard Contract and Agreement Forms .....   | 9-9           |
|                   | Uniform Statewide Contract for Cogeneration and<br>Small Power Production Facilities .....      | 9-10          |
|                   | Solar*Rewards Customer Contract .....   | 9-13          |
| <br>              |   |               |
| <b>SECTION 10</b> | <b>DISTRIBUTED RESOURCES</b>  |               |
|                   | Table of Contents .....   | TOC           |
|                   | 10 MW Tariff Detail .....   | 10-73         |
|                   | Standby Service .....   | 10-74         |
|                   | Power Purchase Agreement .....  | 10-76         |
|                   | Terms and Conditions .....  | 10-78         |
|                   | Meter Reading and Billing .....   | 10-80         |
|                   | Typical Costs .....   | 10-81         |
|                   | Interconnection Process .....   | 10-83         |
|                   | Interconnection Application .....   | 10-102        |
|                   | Engineering Studies .....   | 10-111        |
|                   | Interconnection Agreement .....   | 10-113        |
|                   | Operating Agreement .....   | 10-131        |
|                   | Maintenance Agreement .....   | 10-134        |
|                   | Interconnection Requirements .....  | 10-135        |
|                   | Community-Based Energy Development .....  | 10-160        |
|                   | <u>Contract for Net-Metered Facilities .....</u>  | <u>10-163</u> |

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(Continued on Sheet No. 1-6)

Date Filed: ~~11-03-10~~<sup>07-31-13</sup> By: ~~Judy M. Pifer~~<sup>David M. Sparby</sup> Effective Date: ~~09-01-12~~  
President and CEO of Northern States Power Company, a Minnesota corporation  
Docket No. E002/~~GR-10-974~~<sup>M-13-</sup> Order Date: ~~05-14-12~~

Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**STANDBY SERVICE RIDER**

Section No. 5  
~~42th~~13th Revised Sheet No. 101

**AVAILABILITY**

Applicable to customers that use an alternative generation source with a capacity greater than ~~60~~100 kW, where the alternative generation serves all or a portion of customer's electric energy requirements and where customer chooses to use the Company's electric service to serve that load when the alternative generation is either partly or wholly unavailable.

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Under this tariff the Company will provide Standby Service in accordance with the provisions of this tariff as well as those of Section 2.4 of the General Rules and Regulations.

**RESERVATION RATE**

|  | <u>Firm Standby</u>            |                              | Non-Firm       |
|--|--------------------------------|------------------------------|----------------|
|  | <u>Unscheduled Maintenance</u> | <u>Scheduled Maintenance</u> | <u>Standby</u> |
| Customer Charge per Month  | \$24.61                        | \$24.61                      | \$24.61        |
| Demand Charge per Month per kW of Contracted Standby Capacity  |                                |                              |                |
| Secondary Voltage Service  | \$3.00                         | \$2.90                       | \$2.10         |
| Primary Voltage Service  | \$2.15                         | \$2.05                       | \$1.25         |
| Transmission Transformed Voltage Service   | \$1.50                         | \$1.40                       | \$0.60         |
| Transmission Voltage Service   | \$0.90                         | \$0.80                       | \$0.00         |
| Hours per kW of Contracted Standby Capacity - Annual Grace Period Use of Unscheduled Standby, Exemption from the Demand Charge Component of the "Usage Rates" below. | 964                            | 964                          | 0              |

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**USAGE RATES**

Demand Charge per kW of Standby Capacity Used. After the Annual Grace Period hours provided for Unscheduled and Scheduled Service are used up, the Demand Charge of the base tariff, to which this Rider is attached, replaces the above Reservation Rate.

Energy Charge per kWh of Standby Energy Used. All energy used under this Rider will be charged at the applicable energy rate of the base tariff to which this Rider is attached.

**INTERIM PHOTOVOLTAIC SOLAR CREDIT**

A capacity credit of \$5.15 per month per kW is applicable when the alternative generation source used by the customer is photovoltaic solar. This credit shall be applied to the applicable Demand Charge of the base tariff for the demand component of the Usage Rates.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

**FUEL CLAUSE**

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

(Continued on Sheet No. 5-102)

Date Filed: ~~05-30-13~~07-31-13 By: David M. Sparby Effective Date: ~~06-01-13~~  
President and CEO of Northern States Power Company, a Minnesota corporation  
Docket No. E002/~~GR-10-071, E002/M-10-1278 & E002/CI-13-315~~M-13- Order Date: ~~05-13-13~~

Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

PROPOSED

**MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2**

**STANDBY SERVICE RIDER (Continued)**

Section No. 5  
~~3rd~~<sup>4th</sup> Revised Sheet No. 106

**ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION**

- 1. The optional Scheduled Maintenance rates are available to Standby Service customers who agree to schedule maintenance of their power source during qualifying scheduled maintenance periods.
- 2. Qualifying Scheduled Maintenance Periods

Customers With Greater Than ~~60~~<sup>69</sup>100 kW to 10,000 kW of Contracted Standby Capacity. Maintenance must occur within the calendar months of April, May, October, and November. Customer must provide Company with written notice of scheduled maintenance prior to the beginning of the maintenance period.

Customers With Greater Than 10,000 kW of Contracted Standby Capacity. Maintenance must occur at a time period mutually agreed to by Company and customer. These time periods will normally not include those times when Company expects system seasonal peak load conditions to occur, nor at those times when Company is required to use generation or to purchase power, with production costs of \$70 or more per MWh. Customer shall provide an annual projection of scheduled maintenance to the Company. Customer shall be allowed changes or additions to this projection upon notice to the Company based on the following schedule:

| <u>Outage Length</u> | <u>Required Notice</u> |
|----------------------|------------------------|
| Less than 48 hours   | 24 hours               |
| 2 days to 30 days    | 7 days                 |
| Over 30 days         | 90 days                |

- 3. The duration of qualifying scheduled maintenance periods may not exceed a total of six weeks in any 12 month period.
- 4. An additional charge shall apply if customer does not comply with all terms and conditions for qualifying scheduled maintenance periods. The additional charge shall be determined by calculating the additional charges which would have applied if customer were billed on the Unscheduled Maintenance Option for the period extending back to the customer's last scheduled maintenance period.
- 5. The demand charges of the base tariffs shall not apply to use of Standby Service during qualifying scheduled maintenance periods. Also, use of Standby Service during qualifying scheduled maintenance periods, will not count against the grace period.

(Continued on Sheet No. 5-107)

Date Filed: ~~11-03-10~~<sup>11-03-13</sup> By: ~~Judy M. Pefer~~<sup>David M. Sparby</sup> Effective Date: ~~09-01-12~~  
 President and CEO of Northern States Power Company, a Minnesota corporation  
 Docket No. E002/~~GR-10-971~~<sup>M-13-</sup> Order Date: ~~05-14-12~~

Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

PROPOSED

**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**NET ENERGY BILLING SERVICE**  
**RATE CODE A50**

Section No. 9  
~~16th~~<sup>17th</sup> Revised Sheet No. 2

**AVAILABILITY**

Available to any small qualifying facility (SQF) of less than 40 kW capacity who receives non-time of day retail electric service from Company and offsets energy delivered by Company.

**RATE**

Metering Charge per Month

|              |        |
|--------------|--------|
| Single Phase | \$3.15 |
| Three Phase  | \$6.40 |

Payment per kWh for Energy Delivered to Company in Excess of Energy Used

|  | <u>Oct-May</u> | <u>Jun-Sep</u> |
|--|----------------|----------------|
| With Retail Non-Demand Metered Service | \$0.10170      | \$0.10647      |
| With Retail Demand Metered Service     | \$0.06009      | \$0.06177      |

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**TERMS AND CONDITIONS OF SERVICE**

- Energy used by customer in excess of energy delivered by the SQF at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate.

For demand metered General Service customers, the entire kW demand supplied by the Company at the same site during the same billing period shall be billed to the customer according to the appropriate general service demand charge rate.

- Interconnection charges will be assessed by the Company on an individual basis for all costs associated with addition to or modification of Company facilities to accommodate the SQF. The net interconnection charge is the responsibility of the SQF.
- The voltage and phase of customer's generator must be consistent with existing service and approved by the Company.
- The customer must maintain a power factor of the generator as close to unity as is consistent with Company operating standards.

- For the purpose of measuring electricity of the customer, upon request the Company will aggregate for billing purposes a customer's designated meter with one or more aggregated meters if the request complies with the following conditions:

- Meters must be located on contiguous property owned by the customer requesting the aggregation;
- At the time of the customer request for aggregation, the specific meters must be clearly identified, and the customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied;
- If the customer supplies more electricity to the Company than the energy usage recorded by the customer-generator's designated and aggregated meters during a monthly billing period, the Company shall apply credits to the customer's next monthly bill for the excess kilowatt-hours.

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Date Filed: ~~01-02-13~~<sup>07-31-13</sup> By: ~~Judy M. Pifer~~<sup>David M. Sparby</sup> Effective Date: ~~03-01-13~~  
President and CEO of Northern States Power Company, a Minnesota corporation  
Docket No. ~~E999/PR-13-9002/M-13-~~ Order Date: ~~Not Applicable~~



Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

PROPOSED

**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF**

Section No. 10  
~~1st~~2nd Revised Sheet No. 73

**AVAILABILITY**

Available to retail electric customers at distribution voltages and who operate a qualifying distributed generating (DG) facility, as defined below, with nameplate rating of 10,000 kW or less, which is operated in parallel with Company's distribution system. Such DG facilities may be up to 35,000 volts at three-phase. Single-phase DG facilities, generally, must not exceed a nameplate rating of 25 kW. Single phase facilities larger than 25 kW may be permitted if the capacity of the DG facility does not exceed the customer's single phase service capacity. Company will evaluate and approve all DG facility interconnection plans on case-by-case basis.

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**QUALIFICATION**

1. Qualifying DG facilities may include but are not limited to, fuel cell, wind, solar, micro turbine generators and other utility industry accepted DG technologies, subject to Company's approval.
2. Qualifying DG facilities may be those which do not qualify as "Qualifying Facilities" (QFs) under the Public Utility Regulatory Policy Act of 1978 (PURPA) or those which are QFs but where the customer elects not to exercise its rights to the pricing provided for under PURPA.

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3. Qualifying DG facilities must be a permanently installed or similarly dedicated mobile generator serving the customer receiving retail electric service from the Company at the same site.

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4. Net-Metered Facilities having more than 40 kW and less than 1000 kW alternating current (AC) capacity as defined in Minn. Stat. 216B.164, Subd. 2 and Minn. Stat. 216B.164, Subd. 3(e).

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**APPLICATION**

Customer seeking to interconnect and to operate a DG facility in parallel with the Company's system must complete and submit to Company a signed Generation Interconnection Application Form ("Interconnection Application") along with the applicable Interconnection Application Fee. The schedule for Generation Interconnection Application Fees, are provided under "Process for Interconnection Step 1 Application (By Applicant)" of this tariff. Company will initiate a review of the DG project upon receipt of complete information needed for Interconnection Application.

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**STUDIES**

Interconnection study or studies are required and shall be conducted by Company as part of the terms and conditions of service under this tariff. See the Process for Interconnection of this tariff for more information regarding these studies. See the Generation Interconnection Application Fees under the Process for Interconnection Step 1 Application (By Applicant) of this tariff. A fee for the engineering studies will also be assessed as provided for under the "Process for Interconnection Step 2 Preliminary Review" of this tariff. Any other studies and services provided pursuant to agreement between the customer and Company, may be subject to Commission review. All review and study fees are non-refundable, whether or not the customer decides to pursue the project.

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(Continued on Sheet No. 10-~~7473~~.1)

|             |   |     |   |                 |                     |
|-------------|---|-----|---|-----------------|---------------------|
| Date Filed: | <del>11-03-10</del> <u>07-31-13</u>     | By: | <del>Judy M. Pifer</del> <u>David M. Sparby</u>                             | Effective Date: | <del>09-01-12</del> |
|             |   |     | President and CEO of Northern States Power Company, a Minnesota corporation |                 |                     |
| Docket No.  | E002/ <del>GR-10-974</del> <u>M-13-</u> |     |   | Order Date:     | <del>05-14-12</del> |

Northern States Power Company, a Minnesota corporation  
Minneapolis, Minnesota 55401

PROPOSED

**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
Original Sheet No. 73.1

**NET-METERED FACILITIES**

A customer with a renewable or high-efficiency distributed generation facility of more than 40kW and less than 1000kW in AC capacity as defined in Minn. Stat. 216B.164, Subd. 2 and Minn. Stat. 216B.164, Subd. 3a. may elect to receive the Net-Metered Facilities rates in this section in lieu of metering charges, energy payments, and capacity payments in other parts of this Section 10, including but not limited to Distribution Facility Credit, Line Loss Credits, and the Energy and Capacity Purchase Payments on Sheets 75-78 of Section 10.

The provisions pertaining to Net-Metered Facilities shall be available to customers, except these provisions will not apply to interconnections occurring after the Commission approves an alternative tariff under Minn. Stat. 216B.164, Subd. 10, or where the Commission otherwise orders.

A customer with Net-Metered Facilities may offset energy (kWh) use on meters located on contiguous property owned by the customer. Customer must specify and rank meters for the energy offset.

**RATE**

Metering Charge per Month

|                     |               |
|---------------------|---------------|
| <u>Single Phase</u> | <u>\$5.50</u> |
| <u>Three Phase</u>  | <u>\$8.00</u> |

Payment Schedule for Energy Delivered to Company

|                       |                  |
|-----------------------|------------------|
| <u>Energy Payment</u> | <u>\$0.02623</u> |
|-----------------------|------------------|

Customers with Net-Metered Facilities may opt to have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits reflecting net input supplied by the customer will be credit to the customer's next bill at the energy payment rate.

**TERMS AND CONDITIONS OF NET-METERED FACILITIES SERVICE**

- Energy used by customer in excess of energy delivered by the customer at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate.

For demand metered General Service customers, the entire kW demand supplied by the Company at the same site during the same billing period shall be billed to the customer according to the appropriate general service demand charge rate.

(Continued on Sheet No. 10-73.2)

|             |            |   |                 |
|-------------|------------|---|-----------------|
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| Docket No.  | E002/M-13- |   | Order Date:     |

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
Original Sheet No. 73.2

**TERMS AND CONDITIONS OF NET-METERED FACILITIES SERVICE (Continued)**

2. For the purpose of measuring electricity of the customer, upon request the Company will aggregate for billing purposes a customer's designated meter with one or more aggregated meters if the request complies with the following conditions:
- a) Meters must be located on contiguous property owned by the customer requesting the aggregation;
  - b) The total of all aggregated meters are subject to the System Limits.
  - c) At the time of the customer request for aggregation, the specific meters must be clearly identified, and the customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied;
  - d) If the customer supplies more electricity to the Company than the energy usage recorded by the customer-generator's designated and aggregated meters during a monthly billing period, the Company shall apply credits to the customer's next monthly bill for the excess kilowatt-hours.
3. System Limits, based on standard 15-minute intervals, measured during the previous 12 calendar months, or a reasonable estimate of the average monthly maximum demand or average annual consumption if the customer has either (i) less than 12 calendar months of actual electric usage or (ii) no demand metering available:
- a) For wind generation systems, the total generation system kilowatt alternating current capacity is limited to 120 percent of the customer's on-site maximum electric demand.
  - b) For solar photovoltaic and other distributed generation systems, the total generation system annual kilowatt alternating current energy production is limited to 120 percent of the customer's on-site annual kilowatt-hour electric energy consumption.
4. The customer is subject to all of the terms and conditions in Section 10 - Distributed Generation Standard Interconnection and Purchase Power Tariff, except for the following:
- a) No power purchase agreement needs to be signed. Instead, the customer needs to sign the Contract for Net-Metered Facilities. The rates applicable for the energy provided to the Company from the customer are detailed in this Section applicable to Net-Metered Facilities.
  - b) All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility shall be assigned to the Company.

(Continued on Sheet No. 10-74)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
~~3rd~~<sup>4th</sup> Revised Sheet No. 74

**CONTRACTS**

Customers must execute an Interconnection Agreement to provide for the interconnection of DG facilities. The Interconnection Agreement form is provided in Appendix “E” of this tariff, which addresses the costs and responsibilities associated with making interconnection of the DG facility with the Company’s distribution system. If customer intends to sell energy and capacity to the Company, customer must also execute a Power Purchase Agreement (PPA) with the Company. The term of these agreements may be up to 20 years. Each customer DG project under this tariff will be evaluated on a customer-specific and site-specific basis, to determine eligibility, system reliability and impact on Company’s transmission and distribution systems.

To qualify for a contract under this tariff, the customer must be doing one of the following: (1) Selling all of the DG energy to the Company, (2) Supplying all of the DG energy to itself, or (3) Self generating part of its needs and selling the remaining energy to the Company. The Company shall purchase all electricity generated and offered for sale to the Company by the DG facility pursuant to the terms, conditions and price schedule provided in the PPA. Under certain circumstances the customer may qualify for a Distribution Facility Credit, which shall be governed under the Interconnection Agreement.

**STANDBY SERVICE REQUIREMENTS**

As indicated above, customer may sell the DG energy to the Company or use the DG energy to serve customer’s own load. There is no requirement to contract for Standby Services if all of the DG energy is sold to the Company. There is also no requirement to contract for Standby Services in cases where the customer uses the DG energy to serve their own load, provided the maximum capacity of the DG is ~~60~~<sup>69</sup>100 kW or less. See the Company’s Standby Service Rider tariff for details concerning the provision of Standby Service.

A customer choosing to use DG to serve more than ~~60~~<sup>69</sup>100 kW of their own load must either contract for Standby Services under the Company’s Standby Service Rider or choose to be a “physical assurance” customer. A physical assurance customer is a customer who agrees to not require standby services and has a mechanical device that ensures that standby service is not taken. The cost of the physical assurance device, is to be paid by the DG customer.

(Continued on Sheet No. 10-75)

Date Filed: ~~11-03-10~~<sup>07</sup>31-13 By: ~~Judy M. Poyer~~<sup>David M. Sparby</sup> Effective Date: ~~09-01-12~~  
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**CONTRACT FOR NET-METERED FACILITIES**

Section No. 10  
Original Sheet No. 163

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**CONTRACT FOR  
NET-METERED FACILITIES**

THIS CONTRACT is entered into \_\_\_\_\_, \_\_\_\_\_, by Northern States Power Company, a Minnesota corporation and wholly owned subsidiary of Xcel Energy Inc., (hereafter called "Company") and \_\_\_\_\_ (hereafter called "Customer"). Together, the Company and Customer are the Parties.

**RECITALS**

The Customer has installed electric generating facilities, consisting of \_\_\_\_\_ (Description of the Net-Metered Facilities), rated at more than 40 kilowatts and less than 1000 kilowatts of alternating current (AC) capacity, on property located at \_\_\_\_\_ (Service Address).

The Customer is prepared to generate electricity in parallel with the Company.

**AGREEMENTS**

The Customer and the Company agree:

1. The Company will sell electricity to the Customer under the rate schedule in force for the class of customer to which the Customer belongs.

The Company will buy electricity from the Customer under the current base rate schedule filed with the Commission up to or equal to the customer's net kilowatt hour production. Company will purchase net kilowatt hour energy input into the company's system at the rates in the Net-Metered Facilities portion of Section 10 of the Company's rate book.

A Customer with Net-Metered Facilities may opt to have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the Customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits will be credit to the customer's next bill at the Jun-Sep rate.

(Continued on Sheet No. 10-164)

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**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 164

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**AGREEMENTS (Continued)**

**2. Metering Charges and Requirements**

A. Metering charges are set forth in the Net-Metered Facilities portion of Section 10 of the Company's rate book.

B. Two Company-owned meters are required to be installed at each service location associated with each Customer generation source subject to this Contract. One meter is located at the main service and is a bi-directional meter that will record energy delivered to the Customer from the Company, and energy received by the Company from Customer. Installation of a bi-directional meter may not be required if the configuration of Customer's facilities allows and a previously installed bi-directional meter provides the information necessary for billing purposes. The second (Production) meter will record energy generated by the Net-Metered Facility System only. The Company shall install, or cause to be installed, own, operate and maintain the Production meter to measure the AC production of the Net-Metered Facility System, at the Company's expense and including the cost of the Production meter itself. Customer will provide all meter housing and socket replacement and rewiring to install both meters. Customer shall be charged monthly the metering charge for the bi-directional meter. The metering charge assumes common use of all Company facilities up to the metering point, for both receipt and delivery of energy. Any additional facilities required by Company to accommodate the Net-Metered Facility System will require Customer to pay a net interconnection charge in advance.

C. Customer will pay a monthly metering charge which pays for the cost and installation of a bi-directional meter at the Service Address which measures electricity delivered by the Company to the Customer and energy received by the Company from the Customer, and the associated billing, operating and maintenance expenses.

3. A copy of the presently filed Net-Metered Facilities portion of Section 10 of the Company's rate book is attached to this contract. The rates for sales and purchases of electricity and the metering charge may change over the time this contract is in force, due to actions of the Company or of the Commission, and the Customer and the Company agree that sales and purchases and metering charge will be made under the rates in effect each month during the time this Contract is in force.

4. Customers with Net-Metered Facilities will have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits reflecting net input supplied by the customer will be credit to the customer's next bill at the Jun-Sep rate.

(Continued on Sheet No. 10-165)

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**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 165

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**AGREEMENTS (Continued)**

5. The Customer must sign an Interconnection Agreement under Section 10 of the Company's rate book, and comply with all of the terms and conditions of that Interconnection Agreement except as otherwise specified in this Contract.
6. System Size Limits: The following limits are based on standard 15-minute intervals, measured during the previous 12 calendar months, or an a reasonable estimate of the average monthly maximum demand or average annual consumption if the customer has either (i) less than 12 calendar months of actual electric usage or (ii) no demand metering available:
- a) For wind generation systems, the total generation system kilowatt alternating current capacity is limited to 120 percent of the Customer's on-site maximum electric demand.
  - b) For solar photovoltaic and other distributed generation systems, the total generation system annual kilowatt alternating current energy production is limited to 120 percent of the Customer's on-site annual kilowatt-hour energy consumption.
7. Aggregated Meters. For the purpose of measuring electricity of the Customer, upon request the Company will aggregate for billing purposes a Customer's designated meter with one or more aggregated meters if the request complies with the following conditions:
- a) The meters must be located on contiguous property owned by the Customer requesting the aggregation.
  - b) The total of all aggregated meters must be subject to the size limitations and limits in this Contract.
  - c) At the time of the Customer request for aggregation, the specific meters must be clearly identified, and the Customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied. At least 60 days prior to the beginning of the next annual billing period, a Customer may amend the rank order of the aggregated meters, subject to the terms of this Contract;
  - d) The aggregation of meters applies only to charges that use kilowatt-hours as the billing determinant. All other charges applicable to each meter account shall be billed to the Customer.
  - e) The Company will first apply the kilowatt-hour credit to the charges for the designated meter and then to the charges for the aggregated meters in the rank order specified by the Customer.
  - f) The Company may charge the Customer requesting to aggregate meters a reasonable fee to cover the administrative costs incurred in implementing the costs of this subdivision, pursuant to a tariff amendment approved by the commission for the Company.
  - g) The Company will comply with a Customer request to aggregate additional meters within 90 days, provided that such request is otherwise consistent with the terms of this NMF Contract.

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(Continued on Sheet No. 10-166)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 166

**AGREEMENTS (Continued)**

8. The Customer will give the Company reasonable access to its property and electric generating facilities if the configuration of those facilities does not permit disconnection or testing from the Company's side of the interconnection. If the Company enters the Customer's property, the Company will remain responsible for its personnel.

9. The Company may stop providing electricity to the Customer during a system emergency. The Company will not discriminate against the Customer when it stops providing electricity or when it resumes providing electricity.

10. The separately executed power purchase agreement referenced in the Interconnection Agreement for the purchase of power exported by the Customer to the Company is not needed. Instead, this Contract shall govern the terms for the power exported by the Customer to the Company.

11. "Standby charge" means a charge imposed by an electric utility upon a distributed generation facility for the recovery of costs for the provision of standby services, as provided for in a utility's tariffs approved by the commission, necessary to make electricity service available to the distributed generation facility. Standby charges apply if the Net-Metered Facility System has an AC nameplate capacity of more than 100 kW. No standby charges apply if the Net-Metered Facility System has an AC nameplate capacity of 100 kW or less.

12. Renewable Energy Credits (RECs). All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility System go to the Company.

A. Definition of Renewable Energy Credits (RECs). "Renewable Energy Credits" or "RECs" are all attributes of an environmental or other nature that are created or otherwise arise from the Customer's generation of energy using solar energy as a fuel, including, but not limited to, tags, certificates or similar products or rights associated with solar energy as a "green" or "renewable" electric generation resource, including any and all environmental air quality credits, emission reductions, off-sets, allowances or other benefits related to the generation of energy from the Net-Metered Facility System that reduces, displaces or off-sets emissions resulting from fuel combustion at another location pursuant to any existing or future international, federal, state or local legislation or regulation or voluntary agreement, and the aggregate amount of credits, offsets or other benefits including any rights, attributes or credits arising from or eligible for consideration in the M-RETS program or any similar program pursuant to any international, federal, state or local legislation or regulation or voluntary agreement and any renewable energy certificates issued pursuant to any program, information system or tracking system associated with the renewable energy generated from the Net-Metered Facility System. RECs do not include any federal, state or local tax credits, cash grants, production incentives or similar tax or cash benefits for which Customer or the Net-Metered Facility System are eligible or which either receives, or any depreciation, expenses, credits, benefits or other federal, state or local tax treatment for which Customer or the Net-Metered Facility System is eligible or that either receives.

B. Definition of M-RETS Program. "M-RETS Program" means the Midwest Renewable Energy Trading System program, MPUC Docket No. E999/CI-04-1616 and subsequent or related proceedings.

(Continued on Sheet No. 10-167)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 167

**AGREEMENTS (Continued)**

N

12. Renewable Energy Credits (RECs). All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility System go to the Company. (Continued)

C. Ownership of RECs. All RECs associated with the energy produced by the Net-Metered Facility shall be assigned to the Company, not just the RECs associated with the net energy delivered to the Company. By participating as a Customer under this Contract, the Customer hereby assigns to Company all right title and interest of the Customer to all RECs arising out of or associated with the generation of electric energy from the Customer. The Company shall be entitled to all RECs generated by the Customer for such electric energy while the Customer participates in the service offered in this Contract. The Customer hereby automatically and irrevocably assigns to the Company all rights, title and authority for Company to register the Customer's RECs associated with electric energy under the terms of this Contract and to and own, hold and manage these RECs associated with the Net-Metered Facility in the Company's own name and to the Company's account, including any rights associated with any renewable energy information or tracking system that exists or may be established in Minnesota or other jurisdictions (including but not limited to the United States government) with regard to monitoring, registering, tracking, certifying, or trading such credits. The Customer hereby authorizes Company to act as its agent for the purposes of registering, tracking and certifying these RECs and the Company has full authority to hold, sell or trade such RECs to its own account of said renewable energy information or tracking systems. Upon the request of Company from time to time, at no cost to Company, (i) Customer shall deliver or cause to be delivered to Company such attestations / certifications of all RECs, and (ii) Customer shall provide full cooperation in connection with Company's registration of the Customer's RECs under this Contract and certification of RECs. The Company shall own all RECs arising out of or associated with the generation of Electric Energy from the Net-Metered Facility for all purposes, and be entitled to use them in any manner it chooses.

13. Miscellaneous. The "Miscellaneous" provisions in the Interconnection Agreement between the Parties addressing the following issues are incorporated into this Contract and are fully applicable to this Contract as if set forth in full herein. Where the Interconnection Agreement in the "Miscellaneous" section uses the term "Interconnection Customer", this shall mean the Customer for purposes of the present Contract. Where the Interconnection Agreement in the "Miscellaneous" section uses the term "Agreement", this shall mean this Contract for purposes of the present Contract.

- A. Force Majeure
- B. Notices
- C. Assignment
- D. Non-Waiver
- E. Governing Law and Inclusion of Xcel Energy's Tariffs and Rules
- F. Amendment or Modification
- G. Entire Agreement
- H. Confidential Information
- I. Non-Warranty
- J. No Partnership

14. Term. This Contract shall have the same term as the Interconnection Agreement applicable between the Parties for the Net-Metered Facilities. However, the Net-Metered Facility Service offered under this Contract does not begin until after successful completion of the final acceptance testing of the generation system required under the Interconnection Agreement.

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(Continued on Sheet No. 10-168)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 168

**SIGNATURES**

IN WITNESS WHEREOF, the Parties hereto have caused two originals of this Contract to be executed by their duly authorized representatives. This Contract is effective as of the last date set forth below.

|                        |  |
|------------------------|--|
| <b><u>Customer</u></b> | <b><u>Northern States Power Company, a Minnesota corporation</u></b> |
| By: _____              | By: _____  |
| Name: _____            | Name: _____  |
| Title: _____           | Title: _____   |
| Date: _____            | Date: _____  |

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

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4th Revised Sheet No. 5

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**STANDBY SERVICE RIDER**

Section No. 5  
13th Revised Sheet No. 101

**AVAILABILITY**

Applicable to customers that use an alternative generation source with a capacity greater than 100 kW, where the alternative generation serves all or a portion of customer's electric energy requirements and where customer chooses to use the Company's electric service to serve that load when the alternative generation is either partly or wholly unavailable.

C

Under this tariff the Company will provide Standby Service in accordance with the provisions of this tariff as well as those of Section 2.4 of the General Rules and Regulations.

**RESERVATION RATE**

|   | <u>Firm Standby</u>            |                              | Non-Firm       |
|---|--------------------------------|------------------------------|----------------|
|   | <u>Unscheduled Maintenance</u> | <u>Scheduled Maintenance</u> | <u>Standby</u> |
| Customer Charge per Month   | \$24.61                        | \$24.61                      | \$24.61        |
| Demand Charge per Month per kW of Contracted Standby Capacity   |                                |                              |                |
| Secondary Voltage Service   | \$3.00                         | \$2.90                       | \$2.10         |
| Primary Voltage Service   | \$2.15                         | \$2.05                       | \$1.25         |
| Transmission Transformed Voltage Service  | \$1.50                         | \$1.40                       | \$0.60         |
| Transmission Voltage Service  | \$0.90                         | \$0.80                       | \$0.00         |
| Hours per kW of Contracted Standby Capacity - Annual Grace  | 964                            | 964                          | 0              |
| Period Use of Unscheduled Standby, Exemption from the Demand Charge Component of the "Usage Rates" below. |                                |                              |                |

**USAGE RATES**

Demand Charge per kW of Standby Capacity Used. After the Annual Grace Period hours provided for Unscheduled and Scheduled Service are used up, the Demand Charge of the base tariff, to which this Rider is attached, replaces the above Reservation Rate.

Energy Charge per kWh of Standby Energy Used. All energy used under this Rider will be charged at the applicable energy rate of the base tariff to which this Rider is attached.

**INTERIM PHOTOVOLTAIC SOLAR CREDIT**

A capacity credit of \$5.15 per month per kW is applicable when the alternative generation source used by the customer is photovoltaic solar. This credit shall be applied to the applicable Demand Charge of the base tariff for the demand component of the Usage Rates.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

**FUEL CLAUSE**

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

(Continued on Sheet No. 5-102)

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**MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2**

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**STANDBY SERVICE RIDER (Continued)**

Section No. 5  
4th Revised Sheet No. 106

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**ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION**

1. The optional Scheduled Maintenance rates are available to Standby Service customers who agree to schedule maintenance of their power source during qualifying scheduled maintenance periods.
2. Qualifying Scheduled Maintenance Periods

Customers With Greater Than 100 kW to 10,000 kW of Contracted Standby Capacity. Maintenance must occur within the calendar months of April, May, October, and November. Customer must provide Company with written notice of scheduled maintenance prior to the beginning of the maintenance period.

Customers With Greater Than 10,000 kW of Contracted Standby Capacity. Maintenance must occur at a time period mutually agreed to by Company and customer. These time periods will normally not include those times when Company expects system seasonal peak load conditions to occur, nor at those times when Company is required to use generation or to purchase power, with production costs of \$70 or more per MWh. Customer shall provide an annual projection of scheduled maintenance to the Company. Customer shall be allowed changes or additions to this projection upon notice to the Company based on the following schedule:

| <u>Outage Length</u> | <u>Required Notice</u> |
|----------------------|------------------------|
| Less than 48 hours   | 24 hours               |
| 2 days to 30 days    | 7 days                 |
| Over 30 days         | 90 days                |

3. The duration of qualifying scheduled maintenance periods may not exceed a total of six weeks in any 12 month period.
4. An additional charge shall apply if customer does not comply with all terms and conditions for qualifying scheduled maintenance periods. The additional charge shall be determined by calculating the additional charges which would have applied if customer were billed on the Unscheduled Maintenance Option for the period extending back to the customer's last scheduled maintenance period.
5. The demand charges of the base tariffs shall not apply to use of Standby Service during qualifying scheduled maintenance periods. Also, use of Standby Service during qualifying scheduled maintenance periods, will not count against the grace period.

(Continued on Sheet No. 5-107)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**NET ENERGY BILLING SERVICE  
RATE CODE A50**

Section No. 9  
17th Revised Sheet No. 2

**AVAILABILITY**

Available to any small qualifying facility (SQF) of less than 40 kW capacity who receives non-time of day retail electric service from Company and offsets energy delivered by Company.

**RATE**

Metering Charge per Month

|              |        |
|--------------|--------|
| Single Phase | \$3.15 |
| Three Phase  | \$6.40 |

Payment per kWh for Energy Delivered to Company in  
Excess of Energy Used

|  | <u>Oct-May</u> | <u>Jun-Sep</u> |
|--|----------------|----------------|
| With Retail Non-Demand Metered Service | \$0.10170      | \$0.10647      |
| With Retail Demand Metered Service     | \$0.06009      | \$0.06177      |

**TERMS AND CONDITIONS OF SERVICE**

- Energy used by customer in excess of energy delivered by the SQF at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate. For demand metered General Service customers, the entire kW demand supplied by the Company at the same site during the same billing period shall be billed to the customer according to the appropriate general service demand charge rate.
- Interconnection charges will be assessed by the Company on an individual basis for all costs associated with addition to or modification of Company facilities to accommodate the SQF. The net interconnection charge is the responsibility of the SQF.
- The voltage and phase of customer's generator must be consistent with existing service and approved by the Company.
- The customer must maintain a power factor of the generator as close to unity as is consistent with Company operating standards.
- For the purpose of measuring electricity of the customer, upon request the Company will aggregate for billing purposes a customer's designated meter with one or more aggregated meters if the request complies with the following conditions:
  - Meters must be located on contiguous property owned by the customer requesting the aggregation;
  - At the time of the customer request for aggregation, the specific meters must be clearly identified, and the customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied;
  - If the customer supplies more electricity to the Company than the energy usage recorded by the customer-generator's designated and aggregated meters during a monthly billing period, the Company shall apply credits to the customer's next monthly bill for the excess kilowatt-hours.

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Minneapolis, Minnesota 55401

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**MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2**

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

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**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF**

Section No. 10  
2nd Revised Sheet No. 73

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**AVAILABILITY**

Available to retail electric customers at distribution voltages and who operate a qualifying distributed generating (DG) facility, as defined below, with nameplate rating of 10,000 kW or less, which is operated in parallel with Company's distribution system. Such DG facilities may be up to 35,000 volts at three-phase. Single-phase DG facilities, generally, must not exceed a nameplate rating of 25 kW. Single phase facilities larger than 25 kW may be permitted if the capacity of the DG facility does not exceed the customer's single phase service capacity. Company will evaluate and approve all DG facility interconnection plans on case-by-case basis.

**QUALIFICATION**

1. Qualifying DG facilities may include but are not limited to, fuel cell, wind, solar, micro turbine generators and other utility industry accepted DG technologies, subject to Company's approval.
2. Qualifying DG facilities may be those which do not qualify as "Qualifying Facilities" (QFs) under the Public Utility Regulatory Policy Act of 1978 (PURPA) or those which are QFs but where the customer elects not to exercise its rights to the pricing provided for under PURPA.
3. Qualifying DG facilities must be a permanently installed or similarly dedicated mobile generator serving the customer receiving retail electric service from the Company at the same site.
4. Net-Metered Facilities having more than 40 kW and less than 1000 kW alternating current (AC) capacity as defined in Minn. Stat. 216B.164, Subd. 2 and Minn. Stat. 216B.164, Subd. 3(e).

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**APPLICATION**

Customer seeking to interconnect and to operate a DG facility in parallel with the Company's system must complete and submit to Company a signed Generation Interconnection Application Form ("Interconnection Application") along with the applicable Interconnection Application Fee. The schedule for Generation Interconnection Application Fees, are provided under "*Process for Interconnection Step 1 Application (By Applicant)*" of this tariff. Company will initiate a review of the DG project upon receipt of complete information needed for Interconnection Application.

**STUDIES**

Interconnection study or studies are required and shall be conducted by Company as part of the terms and conditions of service under this tariff. See the Process for Interconnection of this tariff for more information regarding these studies. See the Generation Interconnection Application Fees under the *Process for Interconnection Step 1 Application (By Applicant)* of this tariff. A fee for the engineering studies will also be assessed as provided for under the "*Process for Interconnection Step 2 Preliminary Review*" of this tariff. Any other studies and services provided pursuant to agreement between the customer and Company, may be subject to Commission review. All review and study fees are non-refundable, whether or not the customer decides to pursue the project.

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(Continued on Sheet No. 10-73.1)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
Original Sheet No. 73.1

**NET-METERED FACILITIES**

A customer with a renewable or high-efficiency distributed generation facility of more than 40kW and less than 1000kW in AC capacity as defined in Minn. Stat. 216B.164, Subd. 2 and Minn. Stat. 216B.164, Subd. 3a. may elect to receive the Net-Metered Facilities rates in this section in lieu of metering charges, energy payments, and capacity payments in other parts of this Section 10, including but not limited to Distribution Facility Credit, Line Loss Credits, and the Energy and Capacity Purchase Payments on Sheets 75-78 of Section 10.

The provisions pertaining to Net-Metered Facilities shall be available to customers, except these provisions will not apply to interconnections occurring after the Commission approves an alternative tariff under Minn. Stat. 216B.164, Subd. 10, or where the Commission otherwise orders.

A customer with Net-Metered Facilities may offset energy (kWh) use on meters located on contiguous property owned by the customer. Customer must specify and rank meters for the energy offset.

**RATE**

Metering Charge per Month

|              |        |
|--------------|--------|
| Single Phase | \$5.50 |
| Three Phase  | \$8.00 |

Payment Schedule for Energy Delivered to Company

|                |           |
|----------------|-----------|
| Energy Payment | \$0.02623 |
|----------------|-----------|

Customers with Net-Metered Facilities may opt to have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits reflecting net input supplied by the customer will be credit to the customer's next bill at the energy payment rate.

**TERMS AND CONDITIONS OF NET-METERED FACILITIES SERVICE**

1. Energy used by customer in excess of energy delivered by the customer at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate.

For demand metered General Service customers, the entire kW demand supplied by the Company at the same site during the same billing period shall be billed to the customer according to the appropriate general service demand charge rate.

(Continued on Sheet No. 10-73.2)

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**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
Original Sheet No. 73.2

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**TERMS AND CONDITIONS OF NET-METERED FACILITIES SERVICE (Continued)**

2. For the purpose of measuring electricity of the customer, upon request the Company will aggregate for billing purposes a customer's designated meter with one or more aggregated meters if the request complies with the following conditions:
  - a) Meters must be located on contiguous property owned by the customer requesting the aggregation;
  - b) The total of all aggregated meters are subject to the System Limits.
  - c) At the time of the customer request for aggregation, the specific meters must be clearly identified, and the customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied;
  - d) If the customer supplies more electricity to the Company than the energy usage recorded by the customer-generator's designated and aggregated meters during a monthly billing period, the Company shall apply credits to the customer's next monthly bill for the excess kilowatt-hours.
  
3. System Limits, based on standard 15-minute intervals, measured during the previous 12 calendar months, or a reasonable estimate of the average monthly maximum demand or average annual consumption if the customer has either (i) less than 12 calendar months of actual electric usage or (ii) no demand metering available:
  - a) For wind generation systems, the total generation system kilowatt alternating current capacity is limited to 120 percent of the customer's on-site maximum electric demand.
  - b) For solar photovoltaic and other distributed generation systems, the total generation system annual kilowatt alternating current energy production is limited to 120 percent of the customer's on-site annual kilowatt-hour electric energy consumption.
  
4. The customer is subject to all of the terms and conditions in Section 10 - Distributed Generation Standard Interconnection and Purchase Power Tariff, except for the following:
  - a) No power purchase agreement needs to be signed. Instead, the customer needs to sign the Contract for Net-Metered Facilities. The rates applicable for the energy provided to the Company from the customer are detailed in this Section applicable to Net-Metered Facilities.
  - b) All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility shall be assigned to the Company.

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(Continued on Sheet No. 10-74)

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**DISTRIBUTED GENERATION STANDARD  
INTERCONNECTION AND POWER PURCHASE TARIFF (Continued)**

Section No. 10  
4th Revised Sheet No. 74

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**CONTRACTS**

Customers must execute an Interconnection Agreement to provide for the interconnection of DG facilities. The Interconnection Agreement form is provided in Appendix “E” of this tariff, which addresses the costs and responsibilities associated with making interconnection of the DG facility with the Company’s distribution system. If customer intends to sell energy and capacity to the Company, customer must also execute a Power Purchase Agreement (PPA) with the Company. The term of these agreements may be up to 20 years. Each customer DG project under this tariff will be evaluated on a customer-specific and site-specific basis, to determine eligibility, system reliability and impact on Company’s transmission and distribution systems.

To qualify for a contract under this tariff, the customer must be doing one of the following: (1) Selling all of the DG energy to the Company, (2) Supplying all of the DG energy to itself, or (3) Self generating part of its needs and selling the remaining energy to the Company. The Company shall purchase all electricity generated and offered for sale to the Company by the DG facility pursuant to the terms, conditions and price schedule provided in the PPA. Under certain circumstances the customer may qualify for a Distribution Facility Credit, which shall be governed under the Interconnection Agreement.

**STANDBY SERVICE REQUIREMENTS**

As indicated above, customer may sell the DG energy to the Company or use the DG energy to serve customer’s own load. There is no requirement to contract for Standby Services if all of the DG energy is sold to the Company. There is also no requirement to contract for Standby Services in cases where the customer uses the DG energy to serve their own load, provided the maximum capacity of the DG is 100 kW or less. See the Company’s Standby Service Rider tariff for details concerning the provision of Standby Service.

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A customer choosing to use DG to serve more than 100 kW of their own load must either contract for Standby Services under the Company’s Standby Service Rider or choose to be a “physical assurance” customer. A physical assurance customer is a customer who agrees to not require standby services and has a mechanical device that ensures that standby service is not taken. The cost of the physical assurance device, is to be paid by the DG customer.

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(Continued on Sheet No. 10-75)

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**CONTRACT FOR NET-METERED FACILITIES**

Section No. 10  
Original Sheet No. 163

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**CONTRACT FOR  
NET-METERED FACILITIES**

THIS CONTRACT is entered into \_\_\_\_\_, \_\_\_\_\_, by Northern States Power Company, a Minnesota corporation and wholly owned subsidiary of Xcel Energy Inc., (hereafter called "Company") and \_\_\_\_\_ (hereafter called "Customer"). Together, the Company and Customer are the Parties.

**RECITALS**

The Customer has installed electric generating facilities, consisting of \_\_\_\_\_ (Description of the Net-Metered Facilities), rated at more than 40 kilowatts and less than 1000 kilowatts of alternating current (AC) capacity, on property located at \_\_\_\_\_ (Service Address).

The Customer is prepared to generate electricity in parallel with the Company.

**AGREEMENTS**

The Customer and the Company agree:

1. The Company will sell electricity to the Customer under the rate schedule in force for the class of customer to which the Customer belongs.

The Company will buy electricity from the Customer under the current base rate schedule filed with the Commission up to or equal to the customer's net kilowatt hour production. Company will purchase net kilowatt hour energy input into the company's system at the rates in the Net-Metered Facilities portion of Section 10 of the Company's rate book.

A Customer with Net-Metered Facilities may opt to have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the Customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits will be credit to the customer's next bill at the Jun-Sep rate.

(Continued on Sheet No. 10-164)

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**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 164

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**AGREEMENTS (Continued)**

2. Metering Charges and Requirements

A. Metering charges are set forth in the Net-Metered Facilities portion of Section 10 of the Company's rate book.

B. Two Company-owned meters are required to be installed at each service location associated with each Customer generation source subject to this Contract. One meter is located at the main service and is a bi-directional meter that will record energy delivered to the Customer from the Company, and energy received by the Company from Customer. Installation of a bi-directional meter may not be required if the configuration of Customer's facilities allows and a previously installed bi-directional meter provides the information necessary for billing purposes. The second (Production) meter will record energy generated by the Net-Metered Facility System only. The Company shall install, or cause to be installed, own, operate and maintain the Production meter to measure the AC production of the Net-Metered Facility System, at the Company's expense and including the cost of the Production meter itself. Customer will provide all meter housing and socket replacement and rewiring to install both meters. Customer shall be charged monthly the metering charge for the bi-directional meter. The metering charge assumes common use of all Company facilities up to the metering point, for both receipt and delivery of energy. Any additional facilities required by Company to accommodate the Net-Metered Facility System will require Customer to pay a net interconnection charge in advance.

C. Customer will pay a monthly metering charge which pays for the cost and installation of a bi-directional meter at the Service Address which measures electricity delivered by the Company to the Customer and energy received by the Company from the Customer, and the associated billing, operating and maintenance expenses.

3. A copy of the presently filed Net-Metered Facilities portion of Section 10 of the Company's rate book is attached to this contract. The rates for sales and purchases of electricity and the metering charge may change over the time this contract is in force, due to actions of the Company or of the Commission, and the Customer and the Company agree that sales and purchases and metering charge will be made under the rates in effect each month during the time this Contract is in force.

4. Customers with Net-Metered Facilities will have net input into the Company's system be reflected in the form of a kilowatt-hour credit on the customer's energy bill carried forward and applied to subsequent energy bills. At the end of the calendar year, any remaining kilowatt-hour credits reflecting net input supplied by the customer will be credit to the customer's next bill at the Jun-Sep rate.

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(Continued on Sheet No. 10-165)

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**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 165

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**AGREEMENTS (Continued)**

5. The Customer must sign an Interconnection Agreement under Section 10 of the Company's rate book, and comply with all of the terms and conditions of that Interconnection Agreement except as otherwise specified in this Contract.
  
6. System Size Limits: The following limits are based on standard 15-minute intervals, measured during the previous 12 calendar months, or an a reasonable estimate of the average monthly maximum demand or average annual consumption if the customer has either (i) less than 12 calendar months of actual electric usage or (ii) no demand metering available:
  - a) For wind generation systems, the total generation system kilowatt alternating current capacity is limited to 120 percent of the Customer's on-site maximum electric demand.
  - b) For solar photovoltaic and other distributed generation systems, the total generation system annual kilowatt alternating current energy production is limited to 120 percent of the Customer's on-site annual kilowatt-hour energy consumption.
  
7. Aggregated Meters. For the purpose of measuring electricity of the Customer, upon request the Company will aggregate for billing purposes a Customer's designated meter with one or more aggregated meters if the request complies with the following conditions:
  - a) The meters must be located on contiguous property owned by the Customer requesting the aggregation.
  - b) The total of all aggregated meters must be subject to the size limitations and limits in this Contract.
  - c) At the time of the Customer request for aggregation, the specific meters must be clearly identified, and the Customer must designate the rank ordered for the aggregated meters to which the net metered credits are to be applied. At least 60 days prior to the beginning of the next annual billing period, a Customer may amend the rank order of the aggregated meters, subject to the terms of this Contract;
  - d) The aggregation of meters applies only to charges that use kilowatt-hours as the billing determinant. All other charges applicable to each meter account shall be billed to the Customer.
  - e) The Company will first apply the kilowatt-hour credit to the charges for the designated meter and then to the charges for the aggregated meters in the rank order specified by the Customer.
  - f) The Company may charge the Customer requesting to aggregate meters a reasonable fee to cover the administrative costs incurred in implementing the costs of this subdivision, pursuant to a tariff amendment approved by the commission for the Company.
  - g) The Company will comply with a Customer request to aggregate additional meters within 90 days, provided that such request is otherwise consistent with the terms of this NMF Contract.

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(Continued on Sheet No. 10-166)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 166

**AGREEMENTS (Continued)**

8. The Customer will give the Company reasonable access to its property and electric generating facilities if the configuration of those facilities does not permit disconnection or testing from the Company's side of the interconnection. If the Company enters the Customer's property, the Company will remain responsible for its personnel.
9. The Company may stop providing electricity to the Customer during a system emergency. The Company will not discriminate against the Customer when it stops providing electricity or when it resumes providing electricity.
10. The separately executed power purchase agreement referenced in the Interconnection Agreement for the purchase of power exported by the Customer to the Company is not needed. Instead, this Contract shall govern the terms for the power exported by the Customer to the Company.
11. "Standby charge" means a charge imposed by an electric utility upon a distributed generation facility for the recovery of costs for the provision of standby services, as provided for in a utility's tariffs approved by the commission, necessary to make electricity service available to the distributed generation facility. Standby charges apply if the Net-Metered Facility System has an AC nameplate capacity of more than 100 kW. No standby charges apply if the Net-Metered Facility System has an AC nameplate capacity of 100 kW or less.
12. Renewable Energy Credits (RECs). All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility System go to the Company.

A. Definition of Renewable Energy Credits (RECs). "Renewable Energy Credits" or "RECs" are all attributes of an environmental or other nature that are created or otherwise arise from the Customer's generation of energy using solar energy as a fuel, including, but not limited to, tags, certificates or similar products or rights associated with solar energy as a "green" or "renewable" electric generation resource, including any and all environmental air quality credits, emission reductions, off-sets, allowances or other benefits related to the generation of energy from the Net-Metered Facility System that reduces, displaces or off-sets emissions resulting from fuel combustion at another location pursuant to any existing or future international, federal, state or local legislation or regulation or voluntary agreement, and the aggregate amount of credits, offsets or other benefits including any rights, attributes or credits arising from or eligible for consideration in the M-RETS program or any similar program pursuant to any international, federal, state or local legislation or regulation or voluntary agreement and any renewable energy certificates issued pursuant to any program, information system or tracking system associated with the renewable energy generated from the Net-Metered Facility System. RECs do not include any federal, state or local tax credits, cash grants, production incentives or similar tax or cash benefits for which Customer or the Net-Metered Facility System are eligible or which either receives, or any depreciation, expenses, credits, benefits or other federal, state or local tax treatment for which Customer or the Net-Metered Facility System is eligible or that either receives.

B. Definition of M-RETS Program. "M-RETS Program" means the Midwest Renewable Energy Trading System program, MPUC Docket No. E999/CI-04-1616 and subsequent or related proceedings.

(Continued on Sheet No. 10-167)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 167

**AGREEMENTS (Continued)**

12. Renewable Energy Credits (RECs). All Renewable Energy Credits (RECs) associated with the energy produced by the Net-Metered Facility System go to the Company. (Continued)

C. Ownership of RECs. All RECs associated with the energy produced by the Net-Metered Facility shall be assigned to the Company, not just the RECs associated with the net energy delivered to the Company. By participating as a Customer under this Contract, the Customer hereby assigns to Company all right title and interest of the Customer to all RECs arising out of or associated with the generation of electric energy from the Customer. The Company shall be entitled to all RECs generated by the Customer for such electric energy while the Customer participates in the service offered in this Contract. The Customer hereby automatically and irrevocably assigns to the Company all rights, title and authority for Company to register the Customer's RECs associated with electric energy under the terms of this Contract and to and own, hold and manage these RECs associated with the Net-Metered Facility in the Company's own name and to the Company's account, including any rights associated with any renewable energy information or tracking system that exists or may be established in Minnesota or other jurisdictions (including but not limited to the United States government) with regard to monitoring, registering, tracking, certifying, or trading such credits. The Customer hereby authorizes Company to act as its agent for the purposes of registering, tracking and certifying these RECs and the Company has full authority to hold, sell or trade such RECs to its own account of said renewable energy information or tracking systems. Upon the request of Company from time to time, at no cost to Company, (i) Customer shall deliver or cause to be delivered to Company such attestations / certifications of all RECs, and (ii) Customer shall provide full cooperation in connection with Company's registration of the Customer's RECs under this Contract and certification of RECs. The Company shall own all RECs arising out of or associated with the generation of Electric Energy from the Net-Metered Facility for all purposes, and be entitled to use them in any manner it chooses.

13. Miscellaneous. The "Miscellaneous" provisions in the Interconnection Agreement between the Parties addressing the following issues are incorporated into this Contract and are fully applicable to this Contract as if set forth in full herein. Where the Interconnection Agreement in the "Miscellaneous" section uses the term "Interconnection Customer", this shall mean the Customer for purposes of the present Contract. Where the Interconnection Agreement in the "Miscellaneous" section uses the term "Agreement", this shall mean this Contract for purposes of the present Contract.

- A. Force Majeure
- B. Notices
- C. Assignment
- D. Non-Waiver
- E. Governing Law and Inclusion of Xcel Energy's Tariffs and Rules
- F. Amendment or Modification
- G. Entire Agreement
- H. Confidential Information
- I. Non-Warranty
- J. No Partnership

14. Term. This Contract shall have the same term as the Interconnection Agreement applicable between the Parties for the Net-Metered Facilities. However, the Net-Metered Facility Service offered under this Contract does not begin until after successful completion of the final acceptance testing of the generation system required under the Interconnection Agreement.

(Continued on Sheet No. 10-168)

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**MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2**

**CONTRACT FOR NET-METERED FACILITIES (Continued)**

Section No. 10  
Original Sheet No. 168

**SIGNATURES**

IN WITNESS WHEREOF, the Parties hereto have caused two originals of this Contract to be executed by their duly authorized representatives. This Contract is effective as of the last date set forth below.

| Customer     | Northern States Power Company, a Minnesota corporation |
|--------------|--|
| By: _____    | By: _____  |
| Name: _____  | Name: _____  |
| Title: _____ | Title: _____   |
| Date: _____  | Date: _____  |

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Redlines to Minn. Stat. 216B.164 showing changes as a result of the 2013 Omnibus Energy Bill (2013 Minn. Sess. Law Serv. Ch. 85 (H.F. 729), 2013 Minn. Sess. Law Serv. Ch. 125 (S.F. 827), and 2013 Minn. Sess. Law Serv. Ch. 132 (H.F. 854)).

## **216B.164. Cogeneration and small power production**

**Subdivision 1. Scope and purpose.** This section shall at all times be construed in accordance with its intent to give the maximum possible encouragement to cogeneration and small power production consistent with protection of the ratepayers and the public.

**Subd. 2. Applicability.** This section as well as any rules promulgated by the commission to implement this section or the Public Utility Regulatory Policies Act of 1978, Public Law 95-617, Statutes at Large, volume 92, page 3117, and the Federal Energy Regulatory Commission regulations thereunder, Code of Federal Regulations, title 18, part 292, shall, unless otherwise provided in this section, apply to all Minnesota electric utilities, including cooperative electric associations and municipal electric utilities.

**Subd. 2a. Definitions.** (a) For the purposes of this section, the following terms have the meanings given them:

(b) “Aggregated meter” means a meter located on the premises of a customer's owned or leased property that is contiguous with property containing the customer's designated meter.

(c) “Capacity” means the number of megawatts alternating current (AC) at the point of interconnection between a distributed generation facility and a utility's electric system.

(d) “Cogeneration” means a combined process whereby electrical and useful thermal energy are produced simultaneously.

(e) “Contiguous property” means property owned or leased by the customer sharing a common border, without regard to interruptions in contiguity caused by easements, public thoroughfares, transportation rights-of-way, or utility rights-of-way.

(f) “Customer” means the person who is named on the utility electric bill for the premises.

(g) “Designated meter” means a meter that is physically attached to the

customer's facility that the customer-generator designates as the first meter to which net metered credits are to be applied as the primary meter for billing purposes when the customer is serviced by more than one meter.

(h) "Distributed generation" means a facility that:

(1) has a capacity of ten megawatts or less;

(2) is interconnected with a utility's distribution system, over which the commission has jurisdiction; and

(3) generates electricity from natural gas, renewable fuel, or a similarly clean fuel, and may include waste heat, cogeneration, or fuel cell technology.

(i) "High-efficiency distributed generation" means a distributed energy facility that has a minimum efficiency of 40 percent, as calculated under section 272.0211, subdivision 1.

(j) "Net metered facility" means an electric generation facility constructed for the purpose of offsetting energy use through the use of renewable energy or high-efficiency distributed generation sources.

(k) "Renewable energy" has the meaning given in section 216B.2411, subdivision 2.

(l) "Standby charge" means a charge imposed by an electric utility upon a distributed generation facility for the recovery of costs for the provision of standby services, as provided for in a utility's tariffs approved by the commission, necessary to make electricity service available to the distributed generation facility.

**Subd. 3. Purchases; small facilities.** (a) This paragraph applies to cooperative electric associations and municipal utilities. For a qualifying facility having less than 40-kilowatt capacity, the customer shall be billed for the net energy supplied by the utility according to the applicable rate schedule for sales to that class of customer. In the case of net input into the utility system by a qualifying facility having less than 40-kilowatt capacity, compensation to the customer shall be at a per kilowatt-hour rate determined under paragraph ~~(b) or~~ (c) or (d).

(b) This paragraph applies to public utilities. For a qualifying facility having less than 1,000-kilowatt capacity, the customer shall be billed for the net energy supplied by the utility according to the applicable rate schedule for sales to that class of customer. In the case of net input into the utility system by a qualifying facility having: (1) more than 40-kilowatt but less than 1,000-kilowatt capacity, compensation to the customer shall be at a per kilowatt-hour rate determined under paragraph (c); or (2) less than 40-kilowatt capacity, compensation to the

customer shall be at a per-kilowatt rate determined under paragraph (d).

~~(c)~~ (c) In setting rates, the commission shall consider the fixed distribution costs to the utility not otherwise accounted for in the basic monthly charge and shall ensure that the costs charged to the qualifying facility are not discriminatory in relation to the costs charged to other customers of the utility. The commission shall set the rates for net input into the utility system based on avoided costs as defined in the Code of Federal Regulations, title 18, section 292.101, paragraph (b)(6), the factors listed in Code of Federal Regulations, title 18, section 292.304, and all other relevant factors.

~~(e)~~ (d) Notwithstanding any provision in this chapter to the contrary, a qualifying facility having less than 40-kilowatt capacity may elect that the compensation for net input by the qualifying facility into the utility system shall be at the average retail utility energy rate. “Average retail utility energy rate” is defined as the average of the retail energy rates, exclusive of special rates based on income, age, or energy conservation, according to the applicable rate schedule of the utility for sales to that class of customer.

~~(e)~~ (e) If the qualifying facility or net metered facility is interconnected with a nongenerating utility which has a sole source contract with a municipal power agency or a generation and transmission utility, the nongenerating utility may elect to treat its purchase of any net input under this subdivision as being made on behalf of its supplier and shall be reimbursed by its supplier for any additional costs incurred in making the purchase. Qualifying facilities or net metered facilities having less than ~~40-kilowatt~~ 1,000-kilowatt capacity if interconnected to a public utility, or less than 40-kilowatt capacity if interconnected to a cooperative electric association or municipal utility may, at the customer's option, elect to be governed by the provisions of subdivision 4.

**Subd. 3a. Net metered facility.** (a) Except for customers receiving a value of solar rate under subdivision 10, a customer with a net metered facility having a capacity of 40-kilowatts or greater but less than 1,000-kilowatts that is interconnected to a public utility may elect to be compensated for the customer's net input into the utility system in the form of a kilowatt-hour credit on the customer's energy bill carried forward and applied to subsequent energy bills. Any net input supplied by the customer into the utility system that exceeds energy supplied to the customer by the utility during a calendar year must be compensated at the applicable rate.

(b) A public utility may not impose a standby charge on a net metered or qualifying facility:

- (1) of 100 kilowatts or less capacity; or  
(2) of more than 100 kilowatts capacity, except in accordance with an order of the commission establishing the allowable costs to be recovered through standby charges.

**Subd. 4. Purchases; wheeling; costs.** (a) Except as otherwise provided in paragraph (c), this subdivision shall apply to all qualifying facilities having 40-kilowatt capacity or more as well as qualifying facilities as defined in subdivision 3 and net metered facilities under subdivision 3a, if interconnected to a cooperative electric association or municipal utility, or 1,000-kilowatt capacity or more if interconnected to a public utility, which elect to be governed by its provisions.

(b) The utility to which the qualifying facility is interconnected shall purchase all energy and capacity made available by the qualifying facility. The qualifying facility shall be paid the utility's full avoided capacity and energy costs as negotiated by the parties, as set by the commission, or as determined through competitive bidding approved by the commission. The full avoided capacity and energy costs to be paid a qualifying facility that generates electric power by means of a renewable energy source are the utility's least cost renewable energy facility or the bid of a competing supplier of a least cost renewable energy facility, whichever is lower, unless the commission's resource plan order, under section 216B.2422, subdivision 2, provides that the use of a renewable resource to meet the identified capacity need is not in the public interest.

(c) For all qualifying facilities having 30-kilowatt capacity or more, the utility shall, at the qualifying facility's or the utility's request, provide wheeling or exchange agreements wherever practicable to sell the qualifying facility's output to any other Minnesota utility having generation expansion anticipated or planned for the ensuing ten years. The commission shall establish the methods and procedures to insure that except for reasonable wheeling charges and line losses, the qualifying facility receives the full avoided energy and capacity costs of the utility ultimately receiving the output.

(d) The commission shall set rates for electricity generated by renewable energy.

**Subd. 4a. Aggregation of meters.** (a) For the purpose of measuring electricity under subdivisions 3 and 3a, a public utility must aggregate for billing purposes a customer's designated meter with one or more aggregated meters if a customer requests that it do so. To qualify for aggregation under this subdivision, a meter must be owned by the customer requesting the

aggregation, must be located on contiguous property owned by the customer requesting the aggregation, and the total of all aggregated meters must be subject to the size limitation in this section.

(b) A public utility must comply with a request by a customer-generator to aggregate additional meters within 90 days. The specific meters must be identified at the time of the request. In the event that more than one meter is identified, the customer must designate the rank order for the aggregated meters to which the net metered credits are to be applied. At least 60 days prior to the beginning of the next annual billing period, a customer may amend the rank order of the aggregated meters, subject to this subdivision.

(c) The aggregation of meters applies only to charges that use kilowatt-hours as the billing determinant. All other charges applicable to each meter account shall be billed to the customer.

(d) A public utility will first apply the kilowatt-hour credit to the charges for the designated meter and then to the charges for the aggregated meters in the rank order specified by the customer. If the net metered facility supplies more electricity to the public utility than the energy usage recorded by the customer-generator's designated and aggregated meters during a monthly billing period, the public utility shall apply credits to the customer's next monthly bill for the excess kilowatt-hours.

(e) With the commission's prior approval, a public utility may charge the customer-generator requesting to aggregate meters a reasonable fee to cover the administrative costs incurred in implementing the costs of this subdivision, pursuant to a tariff approved by the commission for a public utility.

**Subd. 4b. Limiting cumulative generation.** The commission may limit the cumulative generation of net metered facilities under subdivisions 3 and 3a. A public utility may request the commission to limit the cumulative generation of net metered facilities under subdivisions 3 and 3a upon a showing that such generation has reached four percent of the public utility's annual retail electricity sales. The commission may limit additional net metering obligations under this subdivision only after providing notice and opportunity for public comment. In determining whether to limit additional net metering obligations under this subdivision, the commission shall consider:

- (1) the environmental and other public policy benefits of net metered facilities;
- (2) the impact of net metered facilities on electricity rates for customers without net metered systems;
- (3) the effects of net metering on the reliability of the electric system;

(4) technical advances or technical concerns; and

(5) other statutory obligations imposed on the commission or on a utility.

The commission may limit additional net metering obligations under clauses (2) to (4) only if it determines that additional net metering obligations would cause significant rate impact, require significant measures to address reliability, or raise significant technical issues.

**Subd. 4c. Individual system capacity limits.** (a) A public utility that provides retail electric service may require customers with a facility of 40-kilowatt capacity or more and participating in net metering and net billing to limit the total generation capacity of individual distributed generation systems by either:

(1) for wind generation systems, limiting the total generation system capacity kilowatt alternating current to 120 percent of the customer's on-site maximum electric demand; or

(2) for solar photovoltaic and other distributed generation limiting the total generation system annual energy production kilowatt hours alternating current to 120 percent of the customer's on-site annual electric energy consumption.

(b) Limits under paragraph (a) must be based on standard 15-minute intervals, measured during the previous 12 calendar months, or on a reasonable estimate of the average monthly maximum demand or average annual consumption if the customer has either:

(i) less than 12 calendar months of actual electric usage; or

(ii) no demand metering available.

**Subd. 5. Dispute; resolution.** In the event of disputes between an electric utility and a qualifying facility, either party may request a determination of the issue by the commission. In any such determination, the burden of proof shall be on the utility. The commission in its order resolving each such dispute shall require payments to the prevailing party of the prevailing party's costs, disbursements, and reasonable attorneys' fees, except that the qualifying facility will be required to pay the costs, disbursements, and attorneys' fees of the utility only if the commission finds that the claims of the qualifying facility in the dispute have been made in bad faith, or are a sham, or are frivolous.

**Subd. 6. Rules and uniform contract.** (a) The commission shall promulgate rules to implement the provisions of this section. The commission shall also establish a uniform statewide form of contract for use between utilities and a

net metered or qualifying facility having less than 40-kilowatt 1,000-kilowatt capacity if interconnected to a public utility or less than 40-kilowatt capacity if interconnected to a cooperative electric association or municipal utility.

(b) The commission shall require the qualifying facility to provide the utility with reasonable access to the premises and equipment of the qualifying facility if the particular configuration of the qualifying facility precludes disconnection or testing of the qualifying facility from the utility side of the interconnection with the utility remaining responsible for its personnel.

(c) The uniform statewide form of contract shall be applied to all new and existing interconnections established between a utility and a net metered or qualifying facility having less than 40-kilowatt capacity, except that existing contracts may remain in force until ~~written notice of election that the uniform statewide contract form applies is given by either party to the other, with the notice being of the shortest time period permitted under the existing contract for termination of the existing contract by either party, but not less than ten nor longer than 30 days~~ terminated by mutual agreement between both parties.

Subd. 7. Repealed by Laws 1994, c. 465, art. 1, § 27.

**Subd. 8. Interconnection required; obligation for costs.** (a) Utilities shall be required to interconnect with a qualifying facility that offers to provide available energy or capacity and that satisfies the requirements of this section.

(b) Nothing contained in this section shall be construed to excuse the qualifying facility from any obligation for costs of interconnection and wheeling in excess of those normally incurred by the utility for customers with similar load characteristics who are not cogenerators or small power producers, or from any fixed charges normally assessed such nongenerating customers.

**Subd. 9. Municipal electric utility.** For purposes of this section only, except subdivisions 5 ~~and 7~~, and with respect to municipal electric utilities only, the term “commission” means the governing body of each municipal electric utility that adopts and has in effect rules implementing this section which are consistent with the rules adopted by the Minnesota Public Utilities Commission under subdivision 6. As used in this subdivision, the governing body of a municipal electric utility means the city council of that municipality; except that, if another board, commission, or body is empowered by law or resolution of the city council or by its charter to establish and regulate rates and days for the distribution of electric energy within the service area of the city, that board, commission, or body shall be considered the governing body of the municipal

electric utility.

**Subd. 10. Alternative tariff; compensation for resource value.** (a) A public utility may apply for commission approval for an alternative tariff that compensates customers through a bill credit mechanism for the value to the utility, its customers, and society for operating distributed solar photovoltaic resources interconnected to the utility system and operated by customers primarily for meeting their own energy needs.

(b) If approved, the alternative tariff shall apply to customers' interconnections occurring after the date of approval. The alternative tariff is in lieu of the applicable rate under subdivisions 3 and 3a.

(c) The commission shall after notice and opportunity for public comment approve the alternative tariff provided the utility has demonstrated the alternative tariff:

(1) appropriately applies the methodology established by the department and approved by the commission under this subdivision;

(2) includes a mechanism to allow recovery of the cost to serve customers receiving the alternative tariff rate;

(3) charges the customer for all electricity consumed by the customer at the applicable rate schedule for sales to that class of customer;

(4) credits the customer for all electricity generated by the solar photovoltaic device at the distributed solar value rate established under this subdivision;

(5) applies the charges and credits in clauses (3) and (4) to a monthly bill that includes a provision so that the unused portion of the credit in any month or billing period shall be carried forward and credited against all charges. In the event that the customer has a positive balance after the 12-month cycle ending on the last day in February, that balance will be eliminated and the credit cycle will restart the following billing period beginning on March 1;

(6) complies with the size limits specified in subdivision 3a;

(7) complies with the interconnection requirements under section 216B.1611; and

(8) complies with the standby charge requirements in subdivision 3a, paragraph (b).

(d) A utility must provide to the customer the meter and any other equipment needed to provide service under the alternative tariff.

(e) The department must establish the distributed solar value methodology in paragraph (c), clause (1), no later than January 31, 2014. The department must

submit the methodology to the commission for approval. The commission must approve, modify with the consent of the department, or disapprove the methodology within 60 days of its submission. When developing the distributed solar value methodology, the department shall consult stakeholders with experience and expertise in power systems, solar energy, and electric utility ratemaking regarding the proposed methodology, underlying assumptions, and preliminary data.

(f) The distributed solar value methodology established by the department must, at a minimum, account for the value of energy and its delivery, generation capacity, transmission capacity, transmission and distribution line losses, and environmental value. The department may, based on known and measurable evidence of the cost or benefit of solar operation to the utility, incorporate other values into the methodology, including credit for locally manufactured or assembled energy systems, systems installed at high-value locations on the distribution grid, or other factors.

(g) The credit for distributed solar value applied to alternative tariffs approved under this section shall represent the present value of the future revenue streams of the value components identified in paragraph (f).

(h) The utility shall recalculate the alternative tariff on an annual cycle, and shall file the recalculated alternative tariff with the commission for approval.

(i) Renewable energy credits for solar energy credited under this subdivision belong to the electric utility providing the credit.

(j) The commission may not authorize a utility to charge an alternative tariff rate that is lower than the utility's applicable retail rate until three years after the commission approves an alternative tariff for the utility.

(k) A utility must enter into a contract with an owner of a solar photovoltaic device receiving an alternative tariff rate under this section that has a term of at least 20 years, unless a shorter term is agreed to by the parties.

(l) An owner of a solar photovoltaic device receiving an alternative tariff rate under this section must be paid the same rate per kilowatt-hour generated each year for the term of the contract.

**CERTIFICATE OF SERVICE**

I, SaGonna Thompson, hereby certify that I have this day served copies of the foregoing document or a summary thereof on the attached lists of persons:

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

xx via electronic filing

**MPUC DOCKET NO.      MISCELLANEOUS ELECTRIC SERVICE LIST**

Dated this 31<sup>st</sup> day of July, 2013

/s/

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SaGonna Thompson

| First Name  | Last Name | Email                                   | Company Name                       | Address  | Delivery Method    | View Trade Secret | Service List Name   |
|-------------|-----------|---|------------------------------------|--|--------------------|-------------------|---|
| Julia       | Anderson  | Julia.Anderson@ag.state.mn.us           | Office of the Attorney General-DOC | 1800 BRM Tower<br>445 Minnesota St<br>St. Paul,<br>MN<br>551012134                                 | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Christopher | Anderson  | canderson@allete.com                    | Minnesota Power                    | 30 W Superior St<br><br>Duluth,<br>MN<br>558022191   | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| James J.    | Bertrand  | james.bertrand@leonard.com              | Leonard Street & Deinard           | 150 South Fifth Street,<br>Suite 2300<br><br>Minneapolis,<br>MN<br>55402                           | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Michael     | Bradley   | bradley@moss-barnett.com                | Moss & Barnett                     | 4800 Wells Fargo Ctr<br>90 S 7th St<br>Minneapolis,<br>MN<br>55402-4129                            | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Jeffrey A.  | Daugherty | jeffrey.daugherty@centerpointenergy.com | CenterPoint Energy                 | 800 LaSalle Ave<br><br>Minneapolis,<br>MN<br>55402   | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Sharon      | Ferguson  | sharon.ferguson@state.mn.us             | Department of Commerce             | 85 7th Place E Ste 500<br><br>Saint Paul,<br>MN<br>551012198                                       | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Ronald      | Giteck    | ron.giteck@ag.state.mn.us               | Office of the Attorney General-RUD | Antitrust and Utilities Division<br>445 Minnesota Street,<br>BRM Tower<br>St. Paul,<br>MN<br>55101 | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Lloyd       | Grooms    | lgrooms@winthrop.com                    | Winthrop and Weinstine             | Suite 3500<br>225 South Sixth Street<br>Minneapolis,<br>MN<br>554024629                            | Paper Service      | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Burl W.     | Haar      | burl.haar@state.mn.us                   | Public Utilities Commission        | Suite 350<br>121 7th Place East<br>St. Paul,<br>MN<br>551012147                                    | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Alan        | Jenkins   | aj@jenkinsatlaw.com                     | Jenkins at Law                     | 2265 Roswell Road<br>Suite 100<br>Marietta,<br>GA<br>30062   | Paper Service      | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
|             |           |   |                                    |  |                    |                   |   |

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| Richard    | Johnson   | johnsonr@moss-barnett.com   | Moss & Barnett                        | 4800 Wells Fargo Center90<br>South Seventh Street<br><br>Minneapolis,<br>MN<br>55402 | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Mark J.    | Kaufman   | mkaufman@ibewlocal949.org   | IBEW Local Union 949                  | 12908 Nicollet Avenue<br>South<br><br>Burnsville,<br>MN<br>55337                     | Paper Service      | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Thomas G.  | Koehler   | N/A                         | Local Union #160, IBEW                | 2909 Anthony Ln<br><br>Minneapolis,<br>MN<br>55418-3238                              | Paper Service      | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Michael    | Krikava   | mkrikava@briggs.com         | Briggs And Morgan, P.A.               | 2200 IDS Center<br>80 S 8th St<br>Minneapolis,<br>MN<br>55402                        | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Douglas    | Larson    | dlarson@dakotaelectric.com  | Dakota Electric Association           | 4300 220th St W<br><br>Farmington,<br>MN<br>55024                                    | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| John       | Lindell   | agorud.ecf@ag.state.mn.us   | Office of the Attorney<br>General-RUD | 1400 BRM Tower<br>445 Minnesota St<br>St. Paul,<br>MN<br>551012130                   | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Pam        | Marshall  | pam@energycents.org         | Energy CENTS Coalition                | 823 7th St E<br><br>St. Paul,<br>MN<br>55106   | Paper Service      | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Andrew     | Moratzka  | apmoratzka@stoel.com        | Stoel Rives LLP                       | 33 South Sixth Street<br>Suite 4200<br>Minneapolis,<br>MN<br>55402                   | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| David W.   | Niles     | david.niles@avantenergy.com | Minnesota Municipal Power<br>Agency   | Suite 300<br>200 South Sixth Street<br>Minneapolis,<br>MN<br>55402                   | Electronic Service | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |
| Joseph V.  | Plumbo    |                             | Local Union 23, I.B.E.W.              | 932 Payne Avenue<br><br>St. Paul,<br>MN<br>55130                                     | Paper Service      | No                | GEN_SL_Northern States<br>Power Company dba Xcel<br>Energy-Elec_Xcel Miscl<br>Electric |

| First Name | Last Name     | Email                             | Company Name                  | Address   | Delivery Method    | View Trade Secret | Service List Name   |
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| Ken        | Smith         | ken.smith@districtenergy.com      | District Energy St. Paul Inc. | 76 W Kellogg Blvd<br><br>St. Paul, MN 55102                           | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Ron        | Spangler, Jr. | rlspangler@otpc.com               | Otter Tail Power Company      | 215 So. Cascade St. PO Box 496 Fergus Falls, MN 565380496             | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Byron E.   | Starns        | byron.starns@leonard.com          | Leonard Street and Deinard    | 150 South 5th Street Suite 2300 Minneapolis, MN 55402                 | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| James M.   | Strommen      | jstrommen@kennedy-graven.com      | Kennedy & Graven, Chartered   | 470 U.S. Bank Plaza 200 South Sixth Street Minneapolis, MN 55402      | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Eric       | Swanson       | eswanson@winthrop.com             | Winthrop Weinstine            | 225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629         | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| SaGonna    | Thompson      | Regulatory.Records@xcelenergy.com | Xcel Energy                   | 414 Nicollet Mall FL 7<br><br>Minneapolis, MN 554011993               | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |
| Lisa       | Veith         | lisa.veith@ci.stpaul.mn.us        | City of St. Paul              | 400 City Hall and Courthouse 15 West Kellogg Blvd. St. Paul, MN 55102 | Electronic Service | No                | GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric |