



414 Nicollet Mall
Minneapolis, MN 55401

July 17, 2020

—Via Electronic Filing—

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

RE: PETITION
METER SERVICES PRICING ASSOCIATED WITH DISTRIBUTED GENERATION
DOCKET NO. E002/M-20-____

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Petition requesting approval of meter services pricing associated with distributed generation.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service lists. Please contact Amber Hedlund at amber.r.hedlund@xcelenergy.com or (612) 337-2268 or me at holly.r.hinman@xcelenergy.com or (612) 330-5941 if you have any questions regarding this filing.

Sincerely,

/s/

HOLLY R. HINMAN
REGULATORY MANAGER

Enclosures
c: Service Lists

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Valerie Means	Commissioner
Matthew Schuerger	Commissioner
Joseph K. Sullivan	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR METER SERVICES PRICING
ASSOCIATED WITH DISTRIBUTED
GENERATION

DOCKET NO. E002/M-20-____

PETITION

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of meter services pricing associated with distributed generation.

The Company proposes these metering charges, which modify existing metering charges, for three primary purposes. First, this Petition is consistent with the Commission's implementation of the Minnesota Distributed Energy Resources (DER) Interconnection Process (MN DIP) which provides customers an up-front payment option for metering charges in certain circumstances. Second, the proposed metering charges refresh current rates to reflect changes in metering technology in use, namely the increasing penetration of distributed generation systems at larger sizes and the corresponding metering technology requirements to accommodate larger systems. Third, the Company proposes tariff presentation changes to consolidate meter service pricing enabling customers to review the menu of metering service charges that correspond to specific DER configurations.

The DER meter pricing presented in this Petition is based on current cost and it reflects the broader range of metering used today. It is based on current costs for DER meters and ancillary services modified to reflect bundled services or an upfront cost option. In support of the proposed DER meter pricing, we provide workpapers as Attachment A that demonstrate the calculation of the rates and their basis in currently approved pricing. We also provide a comparison of existing and proposed

rates as Attachment B. Finally, we provide the updated Tariff Sheets in redline and final format in Attachment C to this filing.

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 lists, and this includes the service lists from Docket Nos. E002/M-13-867, E002/M-16-222, and E002/M-18-714.

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 R. Denniston

Assistant General Counsel

Xcel Energy

414 Nicollet Mall, 401 - 8th Floor

Minneapolis, MN 55401

(612) 215-4656

C. Date of Filing

The date of this filing is July 17, 2020.

D. Statute Controlling Schedule for Processing the Filing

We are bringing this forward to align with the MN DIP § 5.4 and are bringing it forward in a miscellaneous Petition, as opposed to a general rate case due to the Commission's October 17, 2017, *Order Approving Fees and Setting Filing Requirements in In the Matter of a Commission Inquiry into Fees Charged to Qualifying Facilities*, Docket No. E999/CI-15-755, which requires that a utility file a miscellaneous petition under Minn. R. 7829 for all new and changed fees to a utility's cogeneration and small power production tariffs (other than those covered in the annual filing as discussed in that order). Under the Commission's rules, the proposed tariff changes discussed in this Petition fall within the definition of a miscellaneous tariff filing under Minn. R. 7829.0100, subp. 11, since this involves a change in a utility's rates, services, terms, or conditions of service and does not require a determination of Xcel Energy's general revenue requirement. Minn. Stat. § 216B.16 subd. 1 requires 60-days' notice to the Commission of a proposed tariff change, after which time the proposed tariff change takes effect unless suspended.

E. Utility Employee Responsible for Filing

Holly Hinman
Regulatory Manager
Xcel Energy
414 Nicollet Mall, 401 - 7th Floor
Minneapolis, MN 55401
(612) 330-5941

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 R. Denniston
Assistant General Counsel
Xcel Energy
414 Nicollet Mall, 401 - 8th Floor
Minneapolis, MN 55401
james.r.denniston@xcelenergy.com

Lynnette Sweet
Regulatory Administrator
Xcel Energy
414 Nicollet Mall, 401 - 7th Floor
Minneapolis, MN 55401
regulatory.records@xcelenergy.com

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

V. DESCRIPTION AND PURPOSE OF FILING

A. Background

The Company has in place the monthly metering charges for Net Energy Billing Service that were last revised in September 2006 following approval of the Company's 2005 Electric Rate Case¹ with a rate of \$3.15 per month for a single-phase meter and \$6.40 per month for a three-phase meter. Consistent with the Commission's May 17, 2017 Order in Docket No. E002/M-16-222, the Net Energy Billing service was modified to be called "Excess Generation-Average Retail Utility Energy Service" and to include an additional set of rates for customers that do not have production meters installed. These new rates were set at \$1.68 per month for a single-phase meter, and \$2.58 per month for a three-phase meter. The rates for customers with production meters remained the same as previously set in 2006: \$3.15 per month for a single-phase meter and \$6.40 per month for a three-phase meter.

Since its launch in 2014, the Company's community solar garden program has fostered the development of hundreds of MW of DER projects that are, generally, larger than the majority of DER projects on the system prior to the program. These larger system sizes have in many cases required different metering technology and services than what was previously in use. Today's DER system configurations require metering services that drive pricing differentials. Rather than a simple delineation of single or three phase, current metering pricing is also based on customer class and different communication capabilities based on the size of the DER.

Given the increasing penetration of larger sized DER systems in our service territory, and in conjunction with the Commission's Order approving reforms to the statewide interconnection process, the Company believes the time is right to bring forward updates to our tariffed metering rates that reflect reasonable actual costs and that reflect the diversity of configurations in line with current or expected installations.

B. Consistency with Commission Order

On August 13, 2018, the Commission issued its Order Establishing Updated Interconnection Process and Standard Interconnection Agreement, approving a

¹ *In the Matter of the Application of Northern States Power Company d/b/a Xcel Energy for Authority to Increase Rates for Electric Service in Minnesota*, Docket No. E002/GR-05-1428, FINDINGS OF FACT, CONCLUSIONS OF LAW, AND ORDER; ORDER OPENING INVESTIGATION (September 1, 2006).

distributed energy resource interconnection process (MN DIP) and a standard agreement (MN DIA).²

The approved MN DIP 5.4 states:

5.4 Interconnection Metering

Any metering requirements necessitated by the use of the DER shall be installed at the Interconnection Customer's expense. The Interconnection Customer is responsible for replacement meter costs not covered in the Interconnection Customer's general customer charge. The Area EPS Operator may charge Interconnection Customers an ongoing metering-related charge for an estimate of ongoing metering-related costs specifically demonstrated and approved in tariff regardless of the choice of meter payment. The Area EPS Operator shall offer the Interconnection Customer the following payment options:

5.4.1 Pay upfront the cost of metering requirements for the DER. Any maintenance or replacement costs may be billed separately to the Interconnection Customer after these costs are incurred.

5.4.2 Pay a tariffed monthly charge for the actual, DER-related meter and metering-related costs. If no tariffed monthly charge is an exact match, then the closest applicable tariffed monthly charge shall apply; unless metering requirements are so different that individual case basis pricing should apply.

Consistent with these provisions from MN DIP, the Company has prepared meter and metering service pricing for DER customers. The metering pricing contains two options for customers with various sizes and configurations of on-site generation as discussed below.

1. *Upfront Pricing*

The first option is designed for customers who choose to pay upfront for the meter. This option contains two components: the upfront cost of the meter and the on-going monthly ancillary metering costs. To price this option, the Company relied on

² *In the Matter of Updating the Generic Standards for the Interconnection and Operation of Distributed Generation Facilities Established Under Minn. Stat. § 216B.1611*, Docket No. E-999/CI-16-521 (the Interconnection Standards Docket).

current metering costs that are required for each of the various DER system sizes. The Company used the same methodology that was employed to develop its currently tariffed “No production meter” pricing (Section 9, Rate Code A50-56) as the basis for the monthly ancillary metering cost. This component is largely comprised of meter reading and billing system expenses.

2. Bundled Pricing

The second option is for customers who choose to pay metering costs over time. This monthly “bundled” metering service option is made up of two components: the revenue requirement of the current meter costs that are required for each of the various system sizes and the same cost elements that are included in the currently tariffed “No Production Meter” pricing.

For DER systems of 250 kW (AC) and above, a \$25 network access fee is incurred to enable communication requirements of these meters and included in the monthly meter pricing. In addition, annual maintenance is included for distributed generation facilities connecting to 600V or higher distribution facilities to ensure the meter is operating properly.

C. Differentiating System Sizes and Services

As noted above, the MN DIP requires that the Area EPS Operator offer the Interconnection Customer an option to pay upfront or monthly. In order to create appropriate billing options for the labor and materials portion of these options, the Company differentiated systems based on system size and whether or not the customer was a participant in Solar*Rewards Community.

*1. Non-Solar*Rewards Community DERs Less than 250kW AC*

Non-Solar*Rewards Community program DER systems sized less than 250 kW reflect an embedded charge for labor and materials. This embedded charge is comprised of installation, maintenance, repair or replacement of the meter. The labor charge was developed by calculating an average cost of installing a meter for systems less than 250 kW (AC), as shown in Attachment A.

*2. Non-Solar*Rewards Community DERs Greater Than or Equal to 250kW AC & All Solar*Rewards Community DERs*

For all Solar*Rewards Community projects, and any DER project greater than or equal to 250 kW (AC) the proposed tariff rates include a materials charge. The

Company proposes to continue the current treatment of these systems which are subject to actual costs for labor. The Company charges actual costs to Solar*Rewards Community projects (and those greater than 250 kW) as these complex systems generally present highly variable technical configurations and the requisite labor during interconnection is dependent on several variables including customer readiness, locations of system in the field, and number of trips to the job site required.

D. Format Consolidation

Finally, the tariff sheets provided here modify the presentation of tariffed metering rates and provide a consolidated menu of services with associated pricing. The Company provides these presentation changes in clean and redline formats in Attachment C. As shown, the metering rates in the sheets for the individual net metering rate codes have been removed from those sheets. Instead, the reader is directed to a comprehensive table of metering pricing in order to evaluate options for metering services and associated pricing.

In bringing forward these updated prices, we acknowledge that there is a tradeoff: the updates provide for increased customer options and accuracy, but in doing so, there is added complexity introduced. The Company acknowledges this complexity and, for ease of review, the we have also prepared a comprehensive comparison of current meter charges against the changes proposed here at Attachment B.

CONCLUSION

We respectfully request the Commission approve the changes to the tariffed rates for DER metering and associated services proposed in this Petition. Given the increasing penetration of larger sized DER systems in our service territory, and in conjunction with the Commission's approval of reforms to the statewide interconnection process, the Company brings forward updates to our tariffed metering rates that reflect reasonable actual costs and that reflect the diversity of configurations on our system.

Dated: July 17, 2020

Northern States Power Company

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Valerie Means	Commissioner
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IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR METER SERVICES PRICING
ASSOCIATED WITH DISTRIBUTED
GENERATION

DOCKET NO. E002/M-20-____

PETITION

SUMMARY OF FILING

Please take notice that on July 17, 2020, Northern States Power Company doing business as Xcel Energy filed with the Minnesota Public Utilities Commission a Petition for approval of meter services pricing associated with distributed generation. The Petition requests to modify existing metering charges for three primary purposes. First, this Petition is consistent with the Commission's implementation of the Minnesota Distributed Energy Resources (DER) Interconnection Process which provides customers an up-front payment option for metering charges in certain circumstances. Second, the proposed metering charges refresh current rates to reflect changes in metering technology in use, namely the increasing penetration of distributed generation systems at larger sizes and the corresponding metering technology requirements to accommodate larger systems. Third, the Company proposes tariff presentation changes to consolidate meter service pricing enabling customers to review the menu of metering service charges that correspond to specific DER configurations.

Upfront and Monthly DER Metering Charges

	Upfront Metering Cost ¹ (A)	Levelized Annual Revenue Requirement (B)	Metering Monthly Revenue Requirement (C)	Annual Maintenance Monthly Charge (D)	Mobile Network Service Charge (E)	Customer Account & Assistance (F)	Bundled Monthly Metering Charge (G)	Pre-Pay Monthly Metering Charge (H)
Description		12.45% (A x LARR%)	(B / 12)	(\$161.82 /12)	\$25.00		(C + D + E + F) ¹	(D + E + F) ¹
Less than100kW (Single Phase, Production Meter)								
Residential	\$92	\$11.46	\$0.95	\$0.00	\$0.00	\$2.47	\$3.40	\$2.50
Small Commerical & Industrial (Non-Demand)	\$92	\$11.46	\$0.95	\$0.00	\$0.00	\$3.66	\$4.60	\$3.70
Large Commercial & Industrial	\$92	\$11.46	\$0.95	\$0.00	\$0.00	\$5.16	\$6.10	\$5.20
Less than100kW (Three Phase, Production Meter)								
Residential	\$170	\$21.17	\$1.76	\$0.00	\$0.00	\$2.47	\$4.20	\$2.50
Small Commerical & Industrial (Non-Demand)	\$170	\$21.17	\$1.76	\$0.00	\$0.00	\$3.66	\$5.40	\$3.70
Large Commercial & Industrial	\$170	\$21.17	\$1.76	\$0.00	\$0.00	\$5.16	\$6.90	\$5.20
100KW to 249.99kW - Self Contained Production Meter (not requiring near real time data)	\$170	\$21.17	\$1.76	\$0.00	\$0.00	\$5.16	\$6.90	\$5.20
100KW to 249.99kW - Three Phase, Instrument-rated Production Meter (not requiring near real time data)	\$690	\$85.93	\$7.16	\$0.00	\$0.00	\$5.16	\$12.00	\$5.20
250KW up to 10MW - Three Phase, Instrument-rated Production Meter (requiring near real time data)	\$2,740	\$341.22	\$28.43	\$0.00	\$25.00	\$5.16	\$59.00	\$30.00
Less than 250KW - Point of Interconnection Meter For S*R Community	\$690	\$85.93	\$7.16	\$0.00	\$0.00	\$5.16	\$12.00	\$5.20
250KW to 10MW - Point of Interconnection Meter For S*R Community	\$2,740	\$341.22	\$28.43	\$13.49	\$25.00	\$5.16	\$72.00	\$44.00

¹ Upfront payment is for equipment only for systems > 250kW and in those cases installation labor costs are charged based on specific needs of the customer. Result is rounded.

No Production Meter Scenario - Monthly Distributed Energy Resource Metering Charges								
Description	Upfront Metering Cost ¹	Levelized Annual Revenue Requirement	Metering Monthly Revenue Requirement	Annual Maintenance Monthly Charge	Mobile Network Service Charge	Customer Account & Assistance	Bundled Monthly Metering Charge	Pre-Pay Monthly Metering Charge
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
		12.45% (A x LARR%)	(B / 12)	(\$161.82 / 12)	\$25.00		(C + D + E + F) ¹	(D + E + F) ¹
Less than 40kW (Single & Three Phase)								
Residential	\$42	\$5.23	\$0.44	\$0.00	\$0.00	\$1.50	\$1.90	\$1.50
Small Commerical & Industrial (Non-Demand)	\$42	\$5.23	\$0.44	\$0.00	\$0.00	\$2.20	\$2.60	\$2.20
Large Commercial & Industrial	\$42	\$5.23	\$0.44	\$0.00	\$0.00	\$3.09	\$3.50	\$3.10

¹ Result is rounded

DER Metering Charge Options	Production Meter (less than 100kW)				No Production Meter (less than 40kW)			
	Bundled Metering Charge monthly charge for production meter cost and ancillary services		Pre-Pay Metering Charges upfront payment for production meter, monthly charge for ancillary services		Bundled Metering Charge monthly charge for meter cost and ancillary services		Pre-Pay Metering Charges Proposed - upfront payment for meter, monthly charge for ancillary services	
	Current	Proposed	Proposed		Current	Proposed	Proposed	
	Monthly	Monthly	Prepay	Monthly	Monthly	Monthly	Prepay	Monthly
Single Phase								
Residential	\$3.15 or \$5.50 (note A)	\$3.40	\$92.00	\$2.50	\$1.68 or \$2.58 (note B)	\$1.90	\$42.00	\$1.50
Small Commercial & Industrial	\$3.15 or \$5.50 (note A)	\$4.60	\$92.00	\$3.70	\$1.68 or \$2.58 (note B)	\$2.60	\$42.00	\$2.20
Large Commercial & Industrial	\$3.15 or \$5.50 (note A)	\$6.10	\$92.00	\$5.20	\$1.68 or \$2.58 (note B)	\$3.50	\$42.00	\$3.10
Three Phase								
Residential	\$6.40 or \$8.00 (note C)	\$4.20	\$170.00	\$2.50	\$2.58 or \$6.76 (note D)	\$1.90	\$42.00	\$1.50
Small Commercial & Industrial	\$6.40 or \$8.00 (note C)	\$5.40	\$170.00	\$3.70	\$2.58 or \$6.76 (note D)	\$2.60	\$42.00	\$2.20
Large Commercial & Industrial	\$6.40 or \$8.00 (note C)	\$6.90	\$170.00	\$5.20	\$2.58 or \$6.76 (note D)	\$3.50	\$42.00	\$3.10

DER Metering Charge Options	Production Meter				No Production Meter			
	Bundled Metering Charge monthly charge for production meter cost and ancillary services		Pre-Pay Metering Charges upfront payment for production meter, monthly charge for ancillary services		Bundled Metering Charge monthly charge for meter cost and ancillary services		Pre-Pay Metering Charges Proposed - upfront payment for meter, monthly charge for ancillary services	
	Current	Proposed	Proposed		Current	Proposed	Proposed	
	Monthly	Monthly	Prepay	Monthly	Monthly	Monthly	Prepay	Monthly
100 kW to 249 kW (Self Contained Production Meter)	\$8.00 (note E)	\$6.90	\$170.00	\$5.20	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
100 kW to 249 kW (Three Phase, Instrument Rated A3 Production Meter, Service Voltage 120Volts)	\$8.00 (note E)	\$12.00	\$690.00	\$5.20	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
250 kW up to 10 MW (Three Phase, Instrument Rated Ion Production Meter)	\$8.00 (note E)	\$59.00	\$2,740.00	\$30.00	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Less than 250 kW – Point of Interconnection Meter for Solar*Rewards Community	<i>n/a</i>	\$12.00	\$690.00	\$5.20	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
250 kW to 10 MW – Point of Interconnection Meter for Solar*Rewards Community	<i>n/a</i>	\$72.00	\$2,740.00	\$44.00	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>

Notes:

A - The \$3.15 or \$5.50 charge for “Single Phase” for systems under 100 kW varies depending on Rate Code. The \$3.15 charge applies to Rate Code A50 (only applicable to under 40 kW systems who choose this rate code), and the \$5.50 charge applies to other Rate Codes. These charges are on tariff sheets 9-2, 9-3, 9-4, and 9-4.2. For Solar Gardens, the \$5.50 charge is on tariff sheet 9-75.

B - The \$1.68 or \$2.58 charge for “Single Phase” for systems under 100 kW with no production meter varies depending on Rate Code. The \$1.68 charge applies to Rate Code A50 (only applicable to under 40 kW systems who choose this rate code), and the \$2.58 charge applies to other Rate Codes. These charges are on tariff sheets 9-2, 9-3, and 9-4.

C – The \$6.40 or \$8.00 charge for “Three Phase” for systems under 100 kW varies depending on Rate Code. The \$6.40 charge applies to Rate Code A50 (only applicable to under 40 kW systems who choose this rate code), and the \$8.00 charge applies to other Rate Codes. These charges are on tariff sheets 9-2, 9-3, 9-4, and 9-4.2. For Solar Gardens, the \$8.00 charge is on tariff sheet 9-75.

D - The \$2.58 or \$6.76 charge for “Three Phase” for systems under 100 kW with no production meter varies depending on Rate Code. The \$2.58 charge applies to Rate Code A50 (only applicable to under 40 kW systems who choose this rate code), and the \$6.76 charge applies to other Rate Codes. These charges are on tariff sheets 9-2, 9-3, and 9-4.

E - \$8.00 charge for “Three Phase” applicable to system sizes 100 – 249kW is found on tariff sheets 9-3, 9-4, 9-4.2, 9-75.

Redline

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**EXCESS GENERATION-AVERAGE RETAIL UTILITY ENERGY
SERVICE
RATE CODE A50**

Section No. 9
~~27th~~28th Revised Sheet No. 2

AVAILABILITY

This service corresponds to Minn. R. 7835.4012 and Minn. R. 7835.4013 (Average Retail Energy Rate) and to Paragraph 3.a of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) of less than 40 kW AC capacity who receives non-time of day retail electric service from Company and offsets energy delivered by Company. The A50 Rate Code applies to the extent the energy delivered by the customer exceeds that supplied by the Company during the monthly billing period, and the rates below are for that net excess generation.

RATE	Production Meter	No-Production	<u>D</u>
<u>Metering charges are as set forth in the Section 10 tariff</u>			
<u>Metering Charge per Month</u>	<u>Installed</u>	<u>Meter Installed</u>	<u>D</u>
Single Phase	\$3.15	\$1.68	<u>D</u>
Three Phase	\$6.40	\$2.58	<u>D</u>
Payment per kWh for Energy Delivered to Company in	<u>Oct-May</u>	<u>Jun-Sep</u>	
Excess of Energy Used			
With Retail Non-Demand Metered Service	\$0.11402	\$0.11964	<u>R</u>
With Retail Demand Metered Service	\$0.06302	\$0.06527	<u>R</u>

TERMS AND CONDITIONS OF SERVICE

1. Energy used by customer in excess of energy delivered by the QF at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate.
2. 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.
3. 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 QF. The net interconnection charge is the responsibility of the QF.
4. The voltage and phase of customer's generator must be consistent with existing service and approved by the Company.
5. The customer must comply with the MN Technical Requirements.

Date Filed:	04-02-2007-17-20	By: Christopher B. Clark	Effective Date:	04-01-20
		President, Northern States Power Company, a Minnesota corporation		
Docket No.	E999/PR-20-9		Order Date:	03-20-20
	<u>E002/M-20-</u>			

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

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**SALE TO COMPANY AFTER CUSTOMER SELF-USE
RATE CODE A51, A52**

Section No. 9

~~25th~~26th Revised Sheet No. 3

AVAILABILITY

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate) and .4015 (Time-of-Day Purchase Rates) and to Paragraphs 3.b., 3.c., 4.a and 4.b of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) customer of less than 1,000 kW AC capacity. The energy payment rates below apply to the energy which the customer exports to the Company after any self-use by the customer.

RATE	Production Meter	No Production	<u>D</u>
Metering charges are as set forth in the Section 10 tariff	Installed	Meter Installed	<u>ND</u>
Metering Charge per Month			<u>D</u>
Single Phase	\$5.50	\$2.58	<u>D</u>
Three Phase	\$8.00	\$6.76	<u>D</u>

Where the customer receives non-time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company (A51)	<u>Oct-May</u>	<u>Jun-Sep</u>	<u>R</u>
Energy Payment per kWh	\$0.02310	\$0.02237	<u>R</u>
Capacity Payment for Firm Power per kWh	\$0.00214	\$0.01410	

Where the customer receives time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company (A52)	<u>Oct-May</u>	<u>Jun-Sep</u>	<u>R</u>
On Peak Energy Payment per kWh	\$0.02693	\$0.02926	<u>R</u>
Off Peak Energy Payment per kWh	\$0.02107	\$0.01864	<u>R</u>
Capacity Payment for Firm Power per On Peak kWh	\$0.00617	\$0.04040	

DETERMINATION OF FIRM POWER

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

(Continued on Sheet No. 9-3.1)

Date Filed:	01-02-2007 <u>17-20</u>	By: Christopher B. Clark	Effective Date:	04-01-20
		President, Northern States Power Company, a Minnesota corporation		
Docket No.	E999/PR-20-9 <u>E002/M-20-</u>		Order Date:	03-20-20

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

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

MONTHLY NET METERING

RATE CODE A53, A54

Section No. 9

~~24th~~25th Revised Sheet No. 4

AVAILABILITY

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate) and .4015 (Time-of-Day Purchase Rates) and to Paragraphs 3.b., 3.c., 4.a. and 4.b. of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) customer of less than 1,000 kW AC capacity. The energy payment rates below apply to the extent the energy delivered by the customer exceeds that supplied by the Company during the monthly billing period, and the rates below are for that net excess generation.

RATE	Production Meter	No-Production	
<u>Metering charges are as set forth in the Section 10 tariff</u>	<u>Installed</u>	<u>Meter Installed</u>	<u>D</u>
<u>Metering Charge per Month</u>			<u>ND</u>
Single Phase	\$5.50	\$2.58	<u>D</u>
Three Phase	\$8.00	\$6.76	<u>D</u>

Where the customer receives non-time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company in Excess of Energy Used (A53)	<u>Oct-May</u>	<u>Jun-Sep</u>	
Energy Payment per kWh	\$0.02310	\$0.02237	<u>R</u>
Capacity Payment for Firm Power per kWh	\$0.00214	\$0.01410	<u>R</u>

Where the customer receives time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company in Excess of Energy Used (A54)	<u>Oct-May</u>	<u>Jun-Sep</u>	
On Peak Energy Payment per kWh	\$0.02693	\$0.02926	<u>R</u>
Off Peak Energy Payment per kWh	\$0.02107	\$0.01864	<u>R</u>
Capacity Payment for Firm Power per On Peak kWh	\$0.00617	\$0.04040	<u>R</u>

DETERMINATION OF FIRM POWER

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

(Continued on Sheet No. 9-4.1)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

ANNUAL NET METERING (KWH BANKING OPTION)
RATE CODE A55, A56

Section No. 9
~~4th~~5th Revised Sheet No. 4.2

Availability

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate), .4015 (Time-of-Day Purchase Rates), and .4017 (Net Metered Facility; Bill Credits), and to Paragraphs 5.a, 5.b, and 5.c of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to a qualifying facility (QF) or Net Metered Facility (NMF) customer who elects to be compensated for net input into the utility's system in the form of a kilowatt-hour credit on the customer's bill for that customer's account, subject to the following conditions:

- A. The customer is not receiving a value of solar rate under Minnesota Statutes, section 216B.164, subdivision 10;
- B. The customer is interconnected with the Company; and
- C. The customer has at least 40 kilowatt AC capacity but less than 1,000 kilowatt AC capacity.

Metering charges are as set forth in the Section 10 tariff

Metering Charge per Month

Single Phase	\$5.50
Three Phase	\$8.00

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The Company compensates the customer, in the form of an energy payment, for the bank balance for kWh credits annually at the rate set forth below.

	<u>Annual</u>	R
Energy Payment per kWh for Customers on non-time of day Service Tariffs (A55)	\$0.02283	

Time of Day Service Customers (A56)	<u>Annual</u>	R
On Peak Energy Payment per kWh	\$0.02778	
Off Peak Energy Payment per kWh	\$0.02018	

Capacity Payment for Firm Power where customer receives	<u>Oct-May</u>	<u>Jun-Sep</u>	R
non-time of day retail electric service per kWh	\$0.00214	\$0.01410	R
time of day retail electric service per on-peak kWh	\$0.00617	\$0.04040	

Determination of Firm Power

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

(Continued on Sheet No. 9-4.3)

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**RULES AND REGULATIONS APPLICABLE TO
COGENERATION AND SMALL POWER PRODUCTION
FACILITIES (Continued)**

Section No. 9
~~2nd~~^{3rd} Revised Sheet No. 6

MAIN SERVICE METERING SCENARIOS

1. No Sale to Company

If customer does not intend to sell energy to Company, the billing of customer's electrical consumption provided by Company will be on the available retail rates and the electric meter measuring this consumption will be configured to allow measurement only of energy flow into the customer's premises. Customer will provide all meter socket replacement and rewiring required to accommodate this meter that measures energy flow in one direction only. Where the customer chooses no sale to the Company, the customer will need to sign either the Section 10 Interconnection Agreement where the MN DIP does not apply, or the MN DIA where the MN DIP does apply, but does not need to sign the Section 9 Uniform Statewide Contract. Even if the no sale option is selected, for systems sized 40 kW AC or larger, the customer will still need a production meter for a new interconnection of a generating system, and the metering charge will correspond to the applicable metering charge in the Section 10 tariff ~~for comparably-sized systems under the A50-A54 rate codes.~~

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Or

2. Sale of All or Part of Customer Produced Energy

If customer intends to sell energy to Company under this Section 9 tariff, a meter will be installed by the Company that will record energy delivered. Production meters are not required for systems rated under 40 kW. Customer will provide all meter socket replacement and rewiring required to install any applicable meter.

REVENUE LOSS

Company shall not be liable for revenue lost by customer due to Company's inability to purchase or wheel customer generated energy for any reason not within Company's reasonable control.

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(Continued on Sheet No. 9-7)

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**RULES AND REGULATIONS APPLICABLE TO COGENERATION
AND SMALL POWER PRODUCTION FACILITIES (Continued)**

Section No. 9
~~2nd~~3rd Revised Sheet No. 8

SPECIAL INTERCONNECTION FACILITIES

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 QF or NMF will require QF or NMF to pay a net interconnection charge in advance.

METERING REQUIREMENTS

The QF or NMF shall make provision for on-site metering. On-site use of QF or NMF output shall be unmetered for purposes of compensation. QF or NMF shall cooperate with and allow Company to install and have access to on-site monitoring equipment for purposes of gathering QF or NMF performance data. A Company-owned bi-directional meter is required to be installed at each service location associated with each new Customer generation source subject to this tariff. A production meter may be required, in addition to the bi-directional meter, in certain circumstances. A production meter is not required for systems rated under 40 kW AC, unless that system is subject to an incentive or program rule requiring a production meter (e.g., Solar*Rewards). A production meter is required for all systems rated 40 kW AC or above. Customer will provide all meter housing and socket replacement and rewiring to install the metering.

BI-DIRECTIONAL METER

A bi-directional meter located at the main service will record energy delivered to the customer from the Company, and energy received by the Company from customer. Installation of a new bi-directional meter may not be required if the configuration of a customer's facilities allows and a previously installed bi-directional meter provides the information necessary for billing purposes.

PRODUCTION METER

The second (Production) meter will record energy generated by the QF or NMF 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 QF or NMF system when a production meter is required. At customer's request, additional production meters, beyond Company-required production meters, may be installed if approved by the Company at the Customer's expense.

METERING CHARGES

Customer shall be charged ~~the applicable~~ metering charges as set forth in the Section 10 tariff per month (see Rate Codes A50-A56). Payment for any additional facilities required by Company to accommodate the QF or NMF system will be consistent with the MN DIP, and where applicable, the MN DIA.

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(Continued on Sheet No. 9-8.1)

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**STANDARD CONTRACT FOR
SOLAR*REWARDS COMMUNITY (Continued)**

Section No. 9
~~2nd~~3rd Revised Sheet No. 75

3. Metering Charges and Requirements

A. Metering Charges are as set forth in the Section 10 tariff. per Month:

~~Single Phase~~ — \$5.50

~~Three Phase~~ — \$8.00

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B. A Company-owned meter is required to be installed at each service location associated with each Community Solar Garden generation source subject to this Contract. The meter is located at the main service and will record energy delivered to the Community Solar Garden Operator from the Company, and also will record energy produced by the Community Solar Garden and delivered to the Company. Community Solar Garden Operator will provide all meter housing and socket replacement and rewiring to install the meter. Community Solar Garden Operator shall be charged monthly the metering charge for the main service meter.

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4. Title, Risk of Loss, and Warranty of Title. As between the Parties, the Community Solar Garden Operator shall be deemed to be in control of the photovoltaic energy output from the PV System up to and until delivery and receipt by the Company at the Production Meter and the Company shall be deemed to be in control of such energy from and after delivery and receipt at such Production Meter. Title and risk of loss related to the photovoltaic energy shall transfer to the Company at the Production Meter. The Community Solar Garden warrants and represents to the Company that it has or will have at the time of delivery good and sufficient title to all photovoltaic energy output and/or the ability to transfer good and sufficient title of same to the Company.

5. Interconnection Requirements. The Community Solar Garden Operator must sign the applicable 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. The following additional interconnection terms also apply.

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A. Where the tariffed Interconnection Agreement is used in conjunction with this tariffed Contract, the term of the Interconnection Agreement shall end twenty five (25) years after the Date of Commercial Operation.

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B. To the extent to which the ADDITIONAL TERMS AND CONDITIONS set forth in Section 9, Sheets 68 through 68.16 differ from the Section 10 tariff, these ADDITIONAL TERMS AND CONDITIONS shall control for applications that are not subject to the MN DIP. The ADDITIONAL TERMS AND CONDITIONS set forth in tariff Section 9, Sheet Nos. 68.17 through 68.21, fully apply if the application that is the subject of this Agreement is subject to the MN DIP.

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(Continued on Sheet No. 9-76)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

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

Section No. 10
~~2nd~~^{3rd} Revised Sheet No. 78

Definition of Peak Periods

The on-peak period is defined as those hours between 9:00 a.m. and 9:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

When a designated holiday occurs on a Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on a Sunday, the following Monday will be designated a holiday. The off-peak period is defined as all other hours not designated as on-peak hours.

Summer months are July and August; Non-Summer months are all other months. Definition of on-peak and off-peak periods is subject to change with change in Company's system operating characteristics or electric energy market standards.

TERMS AND CONDITIONS OF SERVICE

1. Electric service provided by Company to customer at the same site during the same billing period shall be billed in accordance with the appropriate retail electric rates; thus, supplemental load service shall be provided to the DG customer through the Company's base electric rates. Company shall pay customer each month according to the applicable Energy and Capacity Purchase Payments and any applicable Distribution Facility Credit, established in the contracts under this tariff.
2. The customer must enter an Interconnection Agreement with the Company for the interconnection and parallel operation of any qualifying DG facility under this tariff.
3. In order to receive energy and capacity payments, the customer must execute a Power Purchase Agreement with Company.
4. Customer is responsible for any applicable study fees and interconnection costs. The customer must pay all such costs as specified in the Interconnection Agreement.
5. The customer shall be responsible for all costs associated with the installation, operation, and maintenance of the facility.
6. Company may assess a monthly fee for metering and billing the Energy and Capacity Purchase Payments and any applicable Distribution Facility Credit transactions. ~~Metering charges~~^{Typical costs for meter reading and billing} are shown below. For most DG installations, two meters are required. The appropriate metering options available are determined by the Minnesota Technical Requirements or utility requirements.
7. The voltage and phase of customer's distributed generation facility must be consistent with existing retail service configuration and is approved by the Company in accordance with the Company's interconnection requirements.
8. For interconnections not subject to the MN DIP or MN DIA, the customer must maintain a power factor close to unity as possible or as specified in the "Power Factor" provision of the "Distributed Generation Interconnection Requirements" section of this tariff. For interconnections that are subject to the MN DIP, the Power Factor shall be consistent with the MN Technical Requirements and MN DIA, including the Operating Agreement attached to the MN DIA or Uniform Statewide Contract.

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(Continued on Sheet No. 10-79)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

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

Section No. 10
~~2nd~~^{3rd} Revised Sheet No. 80

CANCELED METERING PRICING APPLICABLE TO DER FACILITIES OPERATING IN PARALLEL WITH THE COMPANY

DNT

The metering pricing in the tables below apply depending on the size of the meter, the customer class, payment type (pre-paid or bundled), and whether or not the customer has a production meter installed. The rates below are additional to the metering costs included in the customer's retail billing. Where the customer has a production meter under a program tariff that provides that the customer does not pay for the production meter (i.e., 1st and 2nd generation Solar*Rewards at tariff sheets 9-17 and 9-37), then the production meter costs below do not apply.

Labor costs associated with the installation, maintenance, repair, or replacement of the meter are included in the tariff pricing for all non-Solar*Rewards Community DER under 250 kW AC. However, for all Solar*Rewards Community DER and non-Solar*Rewards Community DER sized 250kW AC and larger, labor costs are not reflected in the tariff rates but are billed separately to a customer based on actual costs.

The following service options include a mobile network charge for DER sized at 250kW AC and larger, and a metering charge that includes the meter and meter enclosure, but excludes the costs of transformers, wiring, PTs, CTs, overhead poles, rack and non-meter related materials and equipment.

- bundled pricing where a production meter is installed– Table 10-81,
- upfront and monthly ancillary pricing where a production meter is installed – Table 10-81.1,
- bundled pricing where no production meter is installed – Table 10-81.2, and
- upfront and monthly ancillary pricing where no production meter is installed – Table 10-81.3,

The excluded materials or equipment or associated labor are the cost responsibility of the customer.

Where the Customer has selected upfront pricing (Tables 10-81.1 and 10-81.3), to the extent to which the manufacturer of the meter has a warranty that applies to that meter, the Customer will receive the benefit of that warranty. Other than this, if the meter is repaired or replaced, the Interconnection Customer is responsible for the cost of the repair or replacement. Where there is a warranty that applies, and the meter needs to be repaired or replaced, the Customer needs to pay for Company labor costs (and other material and equipment costs) associated with the repair and replacement to the extent to which labor costs (and other material and equipment costs) are not covered by the warranty. Where the Customer has paid an upfront metering charge, the Customer is responsible for replacement metering costs.

Where the Interconnection Customer has selected bundled pricing - Table 10-81, or metering pricing where no production meter is installed (where the upfront and ancillary metering charges are included in the monthly charges) – Table 10-81.2, repair and replacement costs are included in the tariffed rate, except that for all Solar*Rewards Community (and non-Solar*Rewards Community DER sized 250kW AC and larger) labor costs are not reflected in the tariff rates but are billed separately to a customer based on actual costs.

The type of metering charge selected by the Customer at the time of meter installation remains for the duration of the DER.

Where a particular meter or metering requirement that is applicable to the Customer is not reflected in the tables below, then the closest applicable tariffed charges shall apply. However, if the meter or metering requirement is so different from the tariffed description then individual case basis pricing should apply.

In the tables below, the distinction between Small Commercial and Large Commercial Customers is that Small Commercial Customers are non-demand billed, and Large Commercial Customers are demand billed.

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(Continued on Sheet No. 10-81)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

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

Section No. 10
~~2nd~~^{3rd} Revised Sheet No. 81

CANCELED Table 10-81: Bundled Metering Pricing (upfront and ancillary metering charges are included in the following monthly charges)

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<u>Meter Description</u>	<u>Customer Class</u>	<u>Bundled Monthly Metering Service (upfront and ancillary metering costs included)</u>
<u>Single Phase, under 100 kW</u>	<u>Residential</u>	<u>\$3.40</u>
	<u>Small Commercial</u>	<u>\$4.60</u>
	<u>Large Commercial</u>	<u>\$6.10</u>
<u>Three Phase, under 100 kW</u>	<u>Residential</u>	<u>\$4.20</u>
	<u>Small Commercial</u>	<u>\$5.40</u>
	<u>Large Commercial</u>	<u>\$6.90</u>
<u>100kW to 249.99kW Self-Contained Production Meter (not requiring real-time data)</u>	<u>All</u>	<u>\$6.90</u>
<u>100kW to 249.99kW – Three Phase, Instrument-rated Production Meter (not requiring real-time data)</u>	<u>All</u>	<u>\$12.00</u>
<u>250kW to 10 MW – Three Phase, Instrument-rated Production Meter (requiring real-time data)</u>	<u>All</u>	<u>\$59.00*</u>
<u>Under 250kW Point of Interconnection Meter for Solar*Rewards Community</u>	<u>Solar*Rewards Community</u>	<u>\$12.00</u>
<u>250kW to 10 MW Point of Interconnection Meter for Solar*Rewards Community</u>	<u>Solar*Rewards Community</u>	<u>\$72.00**</u>

Note: The above pricing is per production meter. Where telemetry has been installed, but the applicable rate above does not reference a * or **, then a mobile network charge of \$25.00 per month shall be applied in addition to that rate.

* Includes monthly mobile network costs.

** Includes monthly mobile network costs and annual maintenance

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(Continued on Sheet No. 10-~~8281.1~~)

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

Section No. 10
 Original Sheet No. 81.1

Table 10-81.1: Upfront Metering Pricing (upfront charges are assessed and monthly ancillary metering charges are assessed that are not reflected in the upfront pricing)

<u>Meter Description</u>	<u>Customer Class</u>	<u>Upfront Metering Price (customer is responsible for maintenance and replacement costs)</u>	<u>Monthly Ancillary Metering Service (metering costs are pre-paid)</u>
<u>Single Phase, under 100 kW</u>	<u>Residential</u>	<u>\$92.00</u>	<u>\$2.50</u>
	<u>Small Commercial</u>	<u>\$92.00</u>	<u>\$3.70</u>
	<u>Large Commercial</u>	<u>\$92.00</u>	<u>\$5.20</u>
<u>Three Phase, under 100 kW</u>	<u>Residential</u>	<u>\$170.00</u>	<u>\$2.50</u>
	<u>Small Commercial</u>	<u>\$170.00</u>	<u>\$3.70</u>
	<u>Large Commercial</u>	<u>\$170.00</u>	<u>\$5.20</u>
<u>100kW to 249.99kW Self-Contained Production Meter (not requiring real-time data)</u>	<u>All</u>	<u>\$170.00</u>	<u>\$5.20</u>
<u>100kW to 249.99kW – Three Phase, Instrument-rated Production Meter (not requiring real-time data)</u>	<u>All</u>	<u>\$690.00</u>	<u>\$5.20</u>
<u>250kW to 10 MW – Three Phase, Instrument-rated Production Meter (requiring real-time data)</u>	<u>All</u>	<u>\$2740.00</u>	<u>\$30.00*</u>
<u>Under 250kW Point of Interconnection Meter for Solar*Rewards Community</u>	<u>Solar*Rewards Community</u>	<u>\$690.00</u>	<u>\$5.20</u>
<u>250kW to 10 MW Point of Interconnection Meter for Solar*Rewards Community</u>	<u>Solar*Rewards Community</u>	<u>\$2740.00</u>	<u>\$44.00**</u>

Note: The above pricing is per production meter. Where telemetry has been installed, but the applicable rate above does not reference a * or **, then a mobile network charge of \$25.00 per month shall be applied in addition to that rate.

* Includes monthly mobile network costs.

** Includes monthly mobile network costs and annual maintenance

(Continued on Sheet No. 10-81.2)

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

Section No. 10
Original Sheet No. 81.2

Table 10-81.2: Metering Pricing Where No Production Meter is Installed (upfront and ancillary metering charges are included in the following monthly charges)

<u>Meter Description</u>	<u>Customer Class</u>	<u>Monthly Ancillary Metering Service (where no production meter installed)</u>
<u>Single & Three Phase, under 40 kW</u>	<u>Residential</u>	<u>\$1.90</u>
	<u>Small Commercial</u>	<u>\$2.60</u>
	<u>Large Commercial</u>	<u>\$3.50</u>

Note: The above pricing is per bi-directional meter. Where telemetry has been installed a mobile network charge of \$25.00 per month shall be applied in addition to the shown rate.

(Continued on Sheet No. 10-81.3)

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

Section No. 10
Original Sheet No. 81.3

Table 10-81.3:

Upfront Metering Pricing Where No Production Meter is Installed

(upfront charges are assessed and monthly ancillary metering charges are assessed that are not reflected in the upfront pricing)

<u>Meter Description</u>	<u>Customer Class</u>	<u>Upfront Metering Price (customer is responsible for maintenance and replacement costs)</u>	<u>Monthly Ancillary Metering Service</u>
<u>Single & Three Phase, under 40 kW</u>	<u>Residential</u>	<u>\$42.00</u>	<u>\$1.50</u>
	<u>Small Commercial</u>	<u>\$42.00</u>	<u>\$2.20</u>
	<u>Large Commercial</u>	<u>\$42.00</u>	<u>\$3.10</u>

Note: The above pricing is per bi-directional meter. Where telemetry has been installed a mobile network charge of \$25.00 per month shall be applied in addition to the shown rate.

(Continued on Sheet No. 10-82)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**EXCESS GENERATION-AVERAGE RETAIL UTILITY ENERGY
SERVICE
RATE CODE A50**

Section No. 9
28th Revised Sheet No. 2

AVAILABILITY

This service corresponds to Minn. R. 7835.4012 and Minn. R. 7835.4013 (Average Retail Energy Rate) and to Paragraph 3.a of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) of less than 40 kW AC capacity who receives non-time of day retail electric service from Company and offsets energy delivered by Company. The A50 Rate Code applies to the extent the energy delivered by the customer exceeds that supplied by the Company during the monthly billing period, and the rates below are for that net excess generation.

RATE

Metering charges are as set forth in the Section 10 tariff

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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	\$0.11402	\$0.11964
With Retail Demand Metered Service	\$0.06302	\$0.06527

TERMS AND CONDITIONS OF SERVICE

1. Energy used by customer in excess of energy delivered by the QF at the same site during the same billing period shall be billed in accordance with the appropriate non-time of day retail electric rate.
2. 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.
3. 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 QF. The net interconnection charge is the responsibility of the QF.
4. The voltage and phase of customer's generator must be consistent with existing service and approved by the Company.
5. The customer must comply with the MN Technical Requirements.

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**SALE TO COMPANY AFTER CUSTOMER SELF-USE
RATE CODE A51, A52**

Section No. 9
26th Revised Sheet No. 3

AVAILABILITY

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate) and .4015 (Time-of-Day Purchase Rates) and to Paragraphs 3.b., 3.c., 4.a and 4.b of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) customer of less than 1,000 kW AC capacity. The energy payment rates below apply to the energy which the customer exports to the Company after any self-use by the customer.

RATE

Metering charges are as set forth in the Section 10 tariff

Where the customer receives non-time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company (A51)	<u>Oct-May</u>	<u>Jun-Sep</u>
Energy Payment per kWh	\$0.02310	\$0.02237
Capacity Payment for Firm Power per kWh	\$0.00214	\$0.01410

Where the customer receives time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company (A52)	<u>Oct-May</u>	<u>Jun-Sep</u>
On Peak Energy Payment per kWh	\$0.02693	\$0.02926
Off Peak Energy Payment per kWh	\$0.02107	\$0.01864
Capacity Payment for Firm Power per On Peak kWh	\$0.00617	\$0.04040

DETERMINATION OF FIRM POWER

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

(Continued on Sheet No. 9-3.1)

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President, Northern States Power Company, a Minnesota corporation

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

**MONTHLY NET METERING
RATE CODE A53, A54**

Section No. 9
25th Revised Sheet No. 4

AVAILABILITY

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate) and .4015 (Time-of-Day Purchase Rates) and to Paragraphs 3.b., 3.c., 4.a. and 4.b. of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to any qualifying facility (QF) customer of less than 1,000 kW AC capacity. The energy payment rates below apply to the extent the energy delivered by the customer exceeds that supplied by the Company during the monthly billing period, and the rates below are for that net excess generation.

RATE

Metering charges are as set forth in the Section 10 tariff

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Where the customer receives non-time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company in Excess
of Energy Used (A53)

	<u>Oct-May</u>	<u>Jun-Sep</u>
Energy Payment per kWh	\$0.02310	\$0.02237
Capacity Payment for Firm Power per kWh	\$0.00214	\$0.01410

Where the customer receives time of day retail electric service, the following Rate Code applies.

Payment Schedule for Energy Delivered to Company in Excess
of Energy Used (A54)

	<u>Oct-May</u>	<u>Jun-Sep</u>
On Peak Energy Payment per kWh	\$0.02693	\$0.02926
Off Peak Energy Payment per kWh	\$0.02107	\$0.01864
Capacity Payment for Firm Power per On Peak kWh	\$0.00617	\$0.04040

DETERMINATION OF FIRM POWER

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

(Continued on Sheet No. 9-4.1)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

ANNUAL NET METERING (KWH BANKING OPTION)
RATE CODE A55, A56

Section No. 9
4th Revised Sheet No. 4.2

Availability

This service corresponds to Minn. R. 7835.4012, .4014 (Simultaneous Purchase and Sale Billing Rate), .4015 (Time-of-Day Purchase Rates), and .4017 (Net Metered Facility; Bill Credits), and to Paragraphs 5.a, 5.b, and 5.c of the Uniform Statewide Contract for Cogeneration and Small Power Production. Available to a qualifying facility (QF) or Net Metered Facility (NMF) customer who elects to be compensated for net input into the utility's system in the form of a kilowatt-hour credit on the customer's bill for that customer's account, subject to the following conditions:

- A. The customer is not receiving a value of solar rate under Minnesota Statutes, section 216B.164, subdivision 10;
- B. The customer is interconnected with the Company; and
- C. The customer has at least 40 kilowatt AC capacity but less than 1,000 kilowatt AC capacity.

Metering charges are as set forth in the Section 10 tariff

The Company compensates the customer, in the form of an energy payment, for the bank balance for kWh credits annually at the rate set forth below.

	<u>Annual</u>
Energy Payment per kWh for Customers on non-time of day Service Tariffs (A55)	\$0.02283

	<u>Annual</u>
Time of Day Service Customers (A56)	
On Peak Energy Payment per kWh	\$0.02778
Off Peak Energy Payment per kWh	\$0.02018

Capacity Payment for Firm Power where customer receives	<u>Oct-May</u>	<u>Jun-Sep</u>
non-time of day retail electric service per kWh	\$0.00214	\$0.01410
time of day retail electric service per on-peak kWh	\$0.00617	\$0.04040

Determination of Firm Power

The customer will have supplied firm power if during the billing period an on peak capacity factor of at least 65% was achieved. The calculation of the on peak capacity factor will be as follows: the average on peak period metered capacity delivered to the Company for the on peak period of the billing period divided by the greatest 15 minute metered capacity delivered for the on peak period of the same billing period expressed in percent and rounded to the nearest whole percent. If the percent calculated is 65 or greater, capacity payment will be made. If the percent calculated is less than 65, capacity payment will not be made.

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**RULES AND REGULATIONS APPLICABLE TO
COGENERATION AND SMALL POWER PRODUCTION
FACILITIES (Continued)**

Section No. 9
3rd Revised Sheet No. 6

MAIN SERVICE METERING SCENARIOS

1. No Sale to Company

If customer does not intend to sell energy to Company, the billing of customer's electrical consumption provided by Company will be on the available retail rates and the electric meter measuring this consumption will be configured to allow measurement only of energy flow into the customer's premises. Customer will provide all meter socket replacement and rewiring required to accommodate this meter that measures energy flow in one direction only. Where the customer chooses no sale to the Company, the customer will need to sign either the Section 10 Interconnection Agreement where the MN DIP does not apply, or the MN DIA where the MN DIP does apply, but does not need to sign the Section 9 Uniform Statewide Contract. Even if the no sale option is selected, for systems sized 40 kW AC or larger, the customer will still need a production meter for a new interconnection of a generating system, and the metering charge will correspond to the applicable metering charge in the Section 10 tariff.

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2. Sale of All or Part of Customer Produced Energy

If customer intends to sell energy to Company under this Section 9 tariff, a meter will be installed by the Company that will record energy delivered. Production meters are not required for systems rated under 40 kW. Customer will provide all meter socket replacement and rewiring required to install any applicable meter.

REVENUE LOSS

Company shall not be liable for revenue lost by customer due to Company's inability to purchase or wheel customer generated energy for any reason not within Company's reasonable control.

(Continued on Sheet No. 9-7)

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**RULES AND REGULATIONS APPLICABLE TO COGENERATION
AND SMALL POWER PRODUCTION FACILITIES (Continued)**

Section No. 9
3rd Revised Sheet No. 8

SPECIAL INTERCONNECTION FACILITIES

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 QF or NMF will require QF or NMF to pay a net interconnection charge in advance.

METERING REQUIREMENTS

The QF or NMF shall make provision for on-site metering. On-site use of QF or NMF output shall be unmetered for purposes of compensation. QF or NMF shall cooperate with and allow Company to install and have access to on-site monitoring equipment for purposes of gathering QF or NMF performance data. A Company-owned bi-directional meter is required to be installed at each service location associated with each new Customer generation source subject to this tariff. A production meter may be required, in addition to the bi-directional meter, in certain circumstances. A production meter is not required for systems rated under 40 kW AC, unless that system is subject to an incentive or program rule requiring a production meter (e.g., Solar*Rewards). A production meter is required for all systems rated 40 kW AC or above. Customer will provide all meter housing and socket replacement and rewiring to install the metering.

BI-DIRECTIONAL METER

A bi-directional meter located at the main service will record energy delivered to the customer from the Company, and energy received by the Company from customer. Installation of a new bi-directional meter may not be required if the configuration of a customer's facilities allows and a previously installed bi-directional meter provides the information necessary for billing purposes.

PRODUCTION METER

The second (Production) meter will record energy generated by the QF or NMF 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 QF or NMF system when a production meter is required. At customer's request, additional production meters, beyond Company-required production meters, may be installed if approved by the Company at the Customer's expense.

METERING CHARGES

Customer shall be charged the applicable metering charges as set forth in the Section 10 tariff. Payment for any additional facilities required by Company to accommodate the QF or NMF system will be consistent with the MN DIP, and where applicable, the MN DIA.

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(Continued on Sheet No. 9-8.1)

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**STANDARD CONTRACT FOR
SOLAR*REWARDS COMMUNITY (Continued)**

Section No. 9
3rd Revised Sheet No. 75

3. Metering Charges and Requirements

A. Metering Charges are as set forth in the Section 10 tariff.

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B. A Company-owned meter is required to be installed at each service location associated with each Community Solar Garden generation source subject to this Contract. The meter is located at the main service and will record energy delivered to the Community Solar Garden Operator from the Company, and also will record energy produced by the Community Solar Garden and delivered to the Company. Community Solar Garden Operator will provide all meter housing and socket replacement and rewiring to install the meter. Community Solar Garden Operator shall be charged monthly the metering charge for the main service meter.

4. Title, Risk of Loss, and Warranty of Title. As between the Parties, the Community Solar Garden Operator shall be deemed to be in control of the photovoltaic energy output from the PV System up to and until delivery and receipt by the Company at the Production Meter and the Company shall be deemed to be in control of such energy from and after delivery and receipt at such Production Meter. Title and risk of loss related to the photovoltaic energy shall transfer to the Company at the Production Meter. The Community Solar Garden warrants and represents to the Company that it has or will have at the time of delivery good and sufficient title to all photovoltaic energy output and/or the ability to transfer good and sufficient title of same to the Company.

5. Interconnection Requirements. The Community Solar Garden Operator must sign the applicable 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. The following additional interconnection terms also apply.

A. Where the tariffed Interconnection Agreement is used in conjunction with this tariffed Contract, the term of the Interconnection Agreement shall end twenty five (25) years after the Date of Commercial Operation.

B. To the extent to which the ADDITIONAL TERMS AND CONDITIONS set forth in Section 9, Sheets 68 through 68.16 differ from the Section 10 tariff, these ADDITIONAL TERMS AND CONDITIONS shall control for applications that are not subject to the MN DIP. The ADDITIONAL TERMS AND CONDITIONS set forth in tariff Section 9, Sheet Nos. 68.17 through 68.21, fully apply if the application that is the subject of this Agreement is subject to the MN DIP.

(Continued on Sheet No. 9-76)

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

Section No. 10
3rd Revised Sheet No. 78

Definition of Peak Periods

The on-peak period is defined as those hours between 9:00 a.m. and 9:00 p.m. Monday through Friday, except the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.

When a designated holiday occurs on a Saturday, the preceding Friday will be designated a holiday. When a designated holiday occurs on a Sunday, the following Monday will be designated a holiday. The off-peak period is defined as all other hours not designated as on-peak hours.

Summer months are July and August; Non-Summer months are all other months. Definition of on-peak and off-peak periods is subject to change with change in Company's system operating characteristics or electric energy market standards.

TERMS AND CONDITIONS OF SERVICE

1. Electric service provided by Company to customer at the same site during the same billing period shall be billed in accordance with the appropriate retail electric rates; thus, supplemental load service shall be provided to the DG customer through the Company's base electric rates. Company shall pay customer each month according to the applicable Energy and Capacity Purchase Payments and any applicable Distribution Facility Credit, established in the contracts under this tariff.
2. The customer must enter an Interconnection Agreement with the Company for the interconnection and parallel operation of any qualifying DG facility under this tariff.
3. In order to receive energy and capacity payments, the customer must execute a Power Purchase Agreement with Company.
4. Customer is responsible for any applicable study fees and interconnection costs. The customer must pay all such costs as specified in the Interconnection Agreement.
5. The customer shall be responsible for all costs associated with the installation, operation, and maintenance of the facility.
6. Company may assess a monthly fee for metering and billing the Energy and Capacity Purchase Payments and any applicable Distribution Facility Credit transactions. Metering charges are shown below. For most DG installations, two meters are required. The appropriate metering options available are determined by the Minnesota Technical Requirements or utility requirements.
7. The voltage and phase of customer's distributed generation facility must be consistent with existing retail service configuration and is approved by the Company in accordance with the Company's interconnection requirements.
8. For interconnections not subject to the MN DIP or MN DIA, the customer must maintain a power factor close to unity as possible or as specified in the "*Power Factor*" provision of the "*Distributed Generation Interconnection Requirements*" section of this tariff. For interconnections that are subject to the MN DIP, the Power Factor shall be consistent with the MN Technical Requirements and MN DIA, including the Operating Agreement attached to the MN DIA or Uniform Statewide Contract.

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(Continued on Sheet No. 10-79)

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

Section No. 10
3rd Revised Sheet No. 80

METERING PRICING APPLICABLE TO DER FACILITIES OPERATING IN PARALLEL WITH THE COMPANY

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The metering pricing in the tables below apply depending on the size of the meter, the customer class, payment type (pre-paid or bundled) , and whether or not the customer has a production meter installed. The rates below are additional to the metering costs included in the customer's retail billing. Where the customer has a production meter under a program tariff that provides that the customer does not pay for the production meter (i.e., 1st and 2nd generation Solar*Rewards at tariff sheets 9-17 and 9-37), then the production meter costs below do not apply.

Labor costs associated with the installation, maintenance, repair, or replacement of the meter are included in the tariff pricing for all non-Solar*Rewards Community DER under 250 kW AC. However, for all Solar*Rewards Community DER and non-Solar*Rewards Community DER sized 250kW AC and larger, labor costs are not reflected in the tariff rates but are billed separately to a customer based on actual costs.

The following service options include a mobile network charge for DER sized at 250kW AC and larger, and a metering charge that includes the meter and meter enclosure, but excludes the costs of transformers, wiring, PTs, CTs, overhead poles, rack and non-meter related materials and equipment.

- bundled pricing where a production meter is installed– Table 10-81,
- upfront and monthly ancillary pricing where a production meter is installed – Table 10-81.1,
- bundled pricing where no production meter is installed – Table 10-81.2, and
- upfront and monthly ancillary pricing where no production meter is installed – Table 10-81.3,

The excluded materials or equipment or associated labor are the cost responsibility of the customer.

Where the Customer has selected upfront pricing (Tables 10-81.1 and 10-81.3), to the extent to which the manufacturer of the meter has a warranty that applies to that meter, the Customer will receive the benefit of that warranty. Other than this, if the meter is repaired or replaced, the Interconnection Customer is responsible for the cost of the repair or replacement. Where there is a warranty that applies, and the meter needs to be repaired or replaced, the Customer needs to pay for Company labor costs (and other material and equipment costs) associated with the repair and replacement to the extent to which labor costs (and other material and equipment costs) are not covered by the warranty. Where the Customer has paid an upfront metering charge, the Customer is responsible for replacement metering costs.

Where the Interconnection Customer has selected bundled pricing - Table 10-81, or metering pricing where no production meter is installed (where the upfront and ancillary metering charges are included in the monthly charges) – Table 10-81.2, repair and replacement costs are included in the tariffed rate, except that for all Solar*Rewards Community (and non-Solar*Rewards Community DER sized 250kW AC and larger) labor costs are not reflected in the tariff rates but are billed separately to a customer based on actual costs.

The type of metering charge selected by the Customer at the time of meter installation remains for the duration of the DER.

Where a particular meter or metering requirement that is applicable to the Customer is not reflected in the tables below, then the closest applicable tariffed charges shall apply. However, if the meter or metering requirement is so different from the tariffed description then individual case basis pricing should apply.

In the tables below, the distinction between Small Commercial and Large Commercial Customers is that Small Commercial Customers are non-demand billed, and Large Commercial Customers are demand billed.

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(Continued on Sheet No. 10-81)

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

Section No. 10
 3rd Revised Sheet No. 81

Table 10-81: Bundled Metering Pricing (upfront and ancillary metering charges are included in the following monthly charges)

Meter Description	Customer Class	Bundled Monthly Metering Service (upfront and ancillary metering costs included)
Single Phase, under 100 kW	Residential	\$3.40
	Small Commercial	\$4.60
	Large Commercial	\$6.10
Three Phase, under 100 kW	Residential	\$4.20
	Small Commercial	\$5.40
	Large Commercial	\$6.90
100kW to 249.99kW Self-Contained Production Meter (not requiring real-time data)	All	\$6.90
100kW to 249.99kW – Three Phase, Instrument-rated Production Meter (not requiring real-time data)	All	\$12.00
250kW to 10 MW – Three Phase, Instrument-rated Production Meter (requiring real-time data)	All	\$59.00*
Under 250kW Point of Interconnection Meter for Solar*Rewards Community	Solar*Rewards Community	\$12.00
250kW to 10 MW Point of Interconnection Meter for Solar*Rewards Community	Solar*Rewards Community	\$72.00**

Note: The above pricing is per production meter. Where telemetry has been installed, but the applicable rate above does not reference a * or **, then a mobile network charge of \$25.00 per month shall be applied in addition to that rate.

* Includes monthly mobile network costs.

** Includes monthly mobile network costs and annual maintenance

(Continued on Sheet No. 10-81.1)

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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. 81.1

Table 10-81.1: Upfront Metering Pricing (upfront charges are assessed and monthly ancillary metering charges are assessed that are not reflected in the upfront pricing)

Meter Description	Customer Class	Upfront Metering Price (customer is responsible for maintenance and replacement costs)	Monthly Ancillary Metering Service (metering costs are pre-paid)
Single Phase, under 100 kW	Residential	\$92.00	\$2.50
	Small Commercial	\$92.00	\$3.70
	Large Commercial	\$92.00	\$5.20
Three Phase, under 100 kW	Residential	\$170.00	\$2.50
	Small Commercial	\$170.00	\$3.70
	Large Commercial	\$170.00	\$5.20
100kW to 249.99kW Self-Contained Production Meter (not requiring real-time data)	All	\$170.00	\$5.20
100kW to 249.99kW – Three Phase, Instrument-rated Production Meter (not requiring real-time data)	All	\$690.00	\$5.20
250kW to 10 MW – Three Phase, Instrument-rated Production Meter (requiring real-time data)	All	\$2740.00	\$30.00*
Under 250kW Point of Interconnection Meter for Solar*Rewards Community	Solar*Rewards Community	\$690.00	\$5.20
250kW to 10 MW Point of Interconnection Meter for Solar*Rewards Community	Solar*Rewards Community	\$2740.00	\$44.00**

Note: The above pricing is per production meter. Where telemetry has been installed, but the applicable rate above does not reference a * or **, then a mobile network charge of \$25.00 per month shall be applied in addition to that rate.

* Includes monthly mobile network costs.

** Includes monthly mobile network costs and annual maintenance

(Continued on Sheet No. 10-81.2)

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Minneapolis, Minnesota 55401

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

Section No. 10
Original Sheet No. 81.2

Table 10-81.2: Metering Pricing Where No Production Meter is Installed (upfront and ancillary metering charges are included in the following monthly charges)

Meter Description	Customer Class	Monthly Ancillary Metering Service (where no production meter installed)
Single & Three Phase, under 40 kW	Residential	\$1.90
	Small Commercial	\$2.60
	Large Commercial	\$3.50

Note: The above pricing is per bi-directional meter. Where telemetry has been installed a mobile network charge of \$25.00 per month shall be applied in addition to the shown rate.

(Continued on Sheet No. 10-81.3)

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

Section No. 10
Original Sheet No. 81.3

Table 10-81.3:

Upfront Metering Pricing Where No Production Meter is Installed

(upfront charges are assessed and monthly ancillary metering charges are assessed that are not reflected in the upfront pricing)

Meter Description	Customer Class	Upfront Metering Price (customer is responsible for maintenance and replacement costs)	Monthly Ancillary Metering Service
Single & Three Phase, under 40 kW	Residential	\$42.00	\$1.50
	Small Commercial	\$42.00	\$2.20
	Large Commercial	\$42.00	\$3.10

Note: The above pricing is per bi-directional meter. Where telemetry has been installed a mobile network charge of \$25.00 per month shall be applied in addition to the shown rate.

(Continued on Sheet No. 10-82)

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CERTIFICATE OF SERVICE

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

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

xx electronic filing

**Docket Nos. E002/M-20-____
 E002/M-13-867
 E002/M-16-222
 E002/M-18-714
 Xcel Energy's Miscellaneous Electric Service List**

Dated this 17th day of July 2020

/s/

Paget Pengelly
Regulatory Administrator

[illegible]

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Arthur	Crowell	Crowell.arthur@yahoo.com	A Work of Art Solar	14333 Orchard Rd. Minnetonka, MN 55345	Electronic Service	No	OFF_SL_13-867_Official
Timothy	DenHerder Thomas	timothy@cooperativeenergyfutures.com	Cooperative Energy Futures	3500 Bloomington Ave. S Minneapolis, MN 55407	Electronic Service	No	OFF_SL_13-867_Official
James	Denniston	james.r.denniston@xcenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, Fifth Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_13-867_Official
Betsy	Engelking	betsy@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_13-867_Official
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	2720 E. 22nd St Institute for Local Self-Reliance Minneapolis, MN 55406	Electronic Service	No	OFF_SL_13-867_Official
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_13-867_Official
Matthew D.	Forsgren	mforsgren@greeneespel.com	GREENE ESPEL PLLP	222 S. Ninth Street, Suite 2200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_13-867_Official
Nathan	Franzen	nathan@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_13-867_Official
Hal	Galvin	halgalvin@comcast.net	Provectus Energy Development llc	1936 Kenwood Parkway Minneapolis, MN 55405	Electronic Service	No	OFF_SL_13-867_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 220 Saint Paul, Minnesota 55102	Electronic Service	No	OFF_SL_13-867_Official
Sean	Gosiewski	sean@afors.org	Alliance for Sustainability	2801 21st Ave S Ste 100 Minneapolis, MN 55407	Electronic Service	No	OFF_SL_13-867_Official
Scott	Greenbert	scott@nautilussolar.com	Nautilus Solar Energy, LLC	396 Springfield Aver, Ste 2 Summit, NJ 07901	Electronic Service	No	OFF_SL_13-867_Official
Timothy	Gulden	timothy.gulden@yahoo.com	Winona Renewable Energy, LLC	1449 Ridgewood Dr Winona, MN 55987	Electronic Service	No	OFF_SL_13-867_Official
MeLena	Hessel	MHessel@elpc.org	Environmental Law & Policy Center	35 E. Wacker Dr. Suite 1600 Chicago, IL 60601	Electronic Service	No	OFF_SL_13-867_Official
Lynn	Hinkle	lynnh@ips-solar.com	IPS Solar	2670 Patton Rd Roseville, MN 55113	Electronic Service	No	OFF_SL_13-867_Official
Jan	Hubbard	jan.hubbard@comcast.net		7730 Mississippi Lane Brooklyn Park, MN 55444	Electronic Service	No	OFF_SL_13-867_Official
John S.	Jaffray	jjaffray@jjrpower.com	JJR Power	350 Highway 7 Suite 236 Excelsior, MN 55331	Electronic Service	No	OFF_SL_13-867_Official
Julie	Jorgensen	juliejorgensen@greenmark solar.com	Greenmark Solar	4630 Quebec Ave N New Hope, MN 55428-4973	Electronic Service	No	OFF_SL_13-867_Official
Cliff	Kaehler	cliff.kaehler@novelenergy.biz	Novel Energy Solutions LLC	4710 Blaylock Way Inver Grove Heights, MN 55076	Electronic Service	No	OFF_SL_13-867_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Ralph	Kaehler	ralph.kaehler@novelenergy.biz		N/A	Electronic Service	No	OFF_SL_13-867_Official
Michael	Kampmeyer	mkampmeyer@a-e-group.com	AEG Group, LLC	260 Salem Church Road Sunfish Lake, Minnesota 55118	Electronic Service	No	OFF_SL_13-867_Official
William	Kenworthy	will@votesolar.org		18 S. Michigan Ave Ste 1200 Chicago, IL 60603	Electronic Service	No	OFF_SL_13-867_Official
Brad	Klein	bklein@elpc.org	Environmental Law & Policy Center	35 E. Wacker Drive, Suite 1600 Suite 1600 Chicago, IL 60601	Electronic Service	No	OFF_SL_13-867_Official
Aaron	Knoll	aknoll@greeneespel.com	Greene Espel PLLP	222 South Ninth Street Suite 2200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_13-867_Official
Jon	Kramer	sundialjon@gmail.com	Sundial Solar	3209 W 76th St Edina, MN 55435	Electronic Service	No	OFF_SL_13-867_Official
Michael	Krause	michaelkrause61@yahoo.com	Kandiyo Consulting, LLC	433 S 7th Street Suite 2025 Minneapolis, Minnesota 55415	Electronic Service	No	OFF_SL_13-867_Official
Dean	Leischow	dean@sunrisenrg.com	Sunrise Energy Ventures	315 Manitoba Ave Wayzata, MN 55391	Electronic Service	No	OFF_SL_13-867_Official
Matthew	Melewski	matthew@theboutiquefirm.com	Nokomis Partners	818 W 46th Street, Suite 204 Minneapolis, MN 55419	Electronic Service	No	OFF_SL_13-867_Official
Thomas	Melone	Thomas.Melone@AllcoUS.com	Minnesota Go Solar LLC	222 South 9th Street Suite 1600 Minneapolis, Minnesota 55120	Electronic Service	No	OFF_SL_13-867_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brian	Meloy	brian.meloy@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_13-867_Official
Marc	Miller	mmiller@soltage.com	Soltage, LLC	66 York Street, 5th Floor Jersey City, NJ 07302	Electronic Service	No	OFF_SL_13-867_Official
Marcus	Mills	Marcus@communitypowermn.org	Community Power	2720 E 22nd St Minneapolis, MN 55406	Electronic Service	No	OFF_SL_13-867_Official
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_13-867_Official
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_13-867_Official
Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, Minnesota 55362	Electronic Service	No	OFF_SL_13-867_Official
Eric	Pasi	ericp@ips-solar.com	IPS Solar	2670 Patton Rd Roseville, MN 55113	Electronic Service	No	OFF_SL_13-867_Official
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive Belmont, CA 94002	Electronic Service	No	OFF_SL_13-867_Official
Jeffrey C	Paulson	jeff.jcplaw@comcast.net	Paulson Law Office, Ltd.	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_13-867_Official
Matthew	Pelikan	mpelikan@madellaw.com	Madel PA	800 Pence Bldg 800 Hennepin Ave Minneapolis, MN 55403	Electronic Service	No	OFF_SL_13-867_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Joyce	Peppin	joyce@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_13-867_Official
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_13-867_Official
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_13-867_Official
Jonathan	Roberts	jroberts@soltage.com	Soltage	66 York St 5th Floor Jersey City, NJ 07302	Electronic Service	No	OFF_SL_13-867_Official
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_13-867_Official
David	Shaffer	shaff081@gmail.com	Minnesota Solar Energy Industries Project	1005 Fairmount Ave Saint Paul, MN 55105	Electronic Service	No	OFF_SL_13-867_Official
Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_13-867_Official
Russ	Stark	Russ.Stark@ci.stpaul.mn.us	City of St. Paul	390 City Hall 15 West Kellogg Boulevard Saint Paul, MN 55102	Electronic Service	No	OFF_SL_13-867_Official
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_13-867_Official
Thomas P.	Sweeney III	tom.sweeney@easycleanenergy.com	Clean Energy Collective	P O Box 1828 Boulder, CO 80306-1828	Electronic Service	No	OFF_SL_13-867_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_13-867_Official
Anna	Tobin	atobin@greeneespel.com	Greene Espel PLLP	222 South Ninth Street Suite 2200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_13-867_Official
Pat	Treseler	pat.jcplaw@comcast.net	Paulson Law Office LTD	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_13-867_Official
John	Vaughn	jvaughn@rreal.org	Rural Renewable Energy Alliance	3963 8th Street SW Backus, MN 55435	Electronic Service	No	OFF_SL_13-867_Official

[illegible]

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
William	Black	bblack@mmua.org	MMUA	Suite 400 3025 Harbor Lane North Plymouth, MN 554475142	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Kenneth	Bradley	kbradley1965@gmail.com		2837 Emerson Ave S Apt CW112 Minneapolis, MN 55408	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jon	Brekke	jbrekke@grenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Sydney R.	Briggs	sbriggs@swce.coop	Steele-Waseca Cooperative Electric	2411 W. Bridge St PO Box 485 Owatonna, MN 55060-0485	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Mark B.	Bring	mbring@otpc.com	Otter Tail Power Company	215 South Cascade Street PO Box 496 Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Christina	Brusven	cbrusven@fredlaw.com	Fredrikson Byron	200 S 6th St Ste 4000 Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael J.	Bull	mbull@mncee.org	Center for Energy and Environment	212 Third Ave N Ste 560 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jessica	Burdette	jessica.burdette@state.mn. us	Department of Commerce	85 7th Place East Suite 500 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jason	Burwen	j.burwen@energystorage.o rg	Energy Storage Association	1155 15th St NW, Ste 500 Washington, DC 20005	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Douglas M.	Carnival	dmc@mcgrannshea.com	McGrann Shea Carnival Straughn & Lamb	N/A	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.	12700 West Dodge Road PO Box 2047 Omaha, NE 68103-2047	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Kenneth A.	Colburn	kcolburn@sympioticstrategies.com	Sympiotic Strategies, LLC	26 Winton Road Meredith, NH 32535413	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_16-222_Official Service List 16-222
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174 Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Arthur	Crowell	Crowell.arthur@yahoo.com	A Work of Art Solar	14333 Orchard Rd. Minnetonka, MN 55345	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Stacy	Dahl	sdahl@minnkota.com	Minnkota Power Cooperative, Inc.	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
David	Dahlberg	davedahlberg@nweco.com	Northwestern Wisconsin Electric Company	P.O. Box 9 104 South Pine Street Grantsburg, WI 548400009	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
James	Denniston	james.r.denniston@xcenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, Fifth Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Carlton	Doyle Fontaine	carlton.doyle.fontaine@senate.mn	MN Senate	75 Rev Dr Martin Luther King Jr Blvd Room G-17 St Paul, MN 55155	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Brian	Draxten	bhdraxten@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380498	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Kristen	Eide Tollefson	healingsystems69@gmail.com	R-CURE	28477 N Lake Ave Frontenac, MN 55026-1044	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Bob	Eleff	bob.eleff@house.mn	Regulated Industries Cmte	100 Rev Dr Martin Luther King Jr Blvd Room 600 St. Paul, MN 55155	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Betsy	Engelking	betsy@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Oncu	Er	oncu.er@avantenergy.com	Avant Energy, Agent for MMPA	220 S. Sixth St. Ste. 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
James C.	Erickson	jericksonkbc@gmail.com	Kelly Bay Consulting	17 Quechee St Superior, WI 54880-4421	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	2720 E. 22nd St Institute for Local Self-Reliance Minneapolis, MN 55406	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Nathan	Franzen	nathan@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Hal	Galvin	halgalvin@comcast.net	Provectus Energy Development llc	1936 Kenwood Parkway Minneapolis, MN 55405	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Bruce	Gerhardson	bgerhardson@otpc.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 220 Saint Paul, Minnesota 55102	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Timothy	Gulden	timothy.gulden@yahoo.com	Winona Renewable Energy, LLC	1449 Ridgewood Dr Winona, MN 55987	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Tony	Hainault	anthony.hainault@co.hennepin.mn.us	Hennepin County DES	701 4th Ave S Ste 700 Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Todd	Headlee	theadlee@dvigridsolutions.com	Dominion Voltage, Inc.	701 E. Cary Street Richmond, VA 23219	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jared	Hendricks	jared.hendricks@owatonnautilities.com	Owatonna Public Utilities	PO Box 800 208 S Walnut Ave Owatonna, MN 55060-2940	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Shane	Henriksen	shane.henriksen@enbridge.com	Enbridge Energy Company, Inc.	1409 Hammond Ave FL 2 Superior, WI 54880	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Hoppe	il23@mtn.org	Local Union 23, I.B.E.W.	932 Payne Avenue St. Paul, MN 55130	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jan	Hubbard	jan.hubbard@comcast.net		7730 Mississippi Lane Brooklyn Park, MN 55444	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Casey	Jacobson	cjacobson@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue Bismarck, ND 58501	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
John S.	Jaffray	jjaffray@jjrpower.com	JJR Power	350 Highway 7 Suite 236 Excelsior, MN 55331	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave. Marathon, FL 33050	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248 Madison, SD 57042	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Kampmeyer	mkampmeyer@a-e-group.com	AEG Group, LLC	260 Salem Church Road Sunfish Lake, Minnesota 55118	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Mark J.	Kaufman	mkaufman@ibewlocal949.org	IBEW Local Union 949	12908 Nicollet Avenue South Burnsville, MN 55337	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Brad	Klein	bklein@elpc.org	Environmental Law & Policy Center	35 E. Wacker Drive, Suite 1600 Suite 1600 Chicago, IL 60601	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln St Anthony Village, MN 55418-3238	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Chris	Kopel	chrisk@CMPASgroup.org	Central Minnesota Municipal Power Agency	459 S Grove St Blue Earth, MN 56013-2629	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Brian	Krambeer	bkrambeer@mienergy.coop	MiEnergy Cooperative	PO Box 626 31110 Cooperative Way Rushford, MN 55971	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jon	Kramer	sundialjon@gmail.com	Sundial Solar	3209 W 76th St Edina, MN 55435	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Krause	michaelkrause61@yahoo.com	Kandiyo Consulting, LLC	433 S 7th Street Suite 2025 Minneapolis, Minnesota 55415	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Matthew	Lacey	mlacey@greenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Douglas	Larson	dlarson@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Dean	Leischow	dean@sunrisenrg.com	Sunrise Energy Ventures	315 Manitoba Ave Wayzata, MN 55391	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Kavita	Maini	kmmaini@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Samuel	Mason	smason@beltramelectric.com	Beltrami Electric Cooperative, Inc.	4111 Technology Dr. NW PO Box 488 Bemidji, MN 56619-0488	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Dave	McNary	David.McNary@hennepin.us	Hennepin County DES	701 Fourth Ave S Ste 700 Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
John	McWilliams	John.McWilliams@DairylandPower.com	Dairyland Power Cooperative	3200 East Ave SPO Box 817 La Crosse, WI 54601-7227	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Thomas	Melone	Thomas.Melone@AllcoUS.com	Minnesota Go Solar LLC	222 South 9th Street Suite 1600 Minneapolis, Minnesota 55120	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Moeller	dmoeller@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Dalene	Monsebroten	dalene.monsebroten@nmp agency.com	Northern Municipal Power Agency	123 2nd St W Thief River Falls, MN 56701	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Andrew	Moratzka	andrew.moratzka@stoel.co m	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Carl	Nelson	cnelson@mncee.org	Center for Energy and Environment	212 3rd Ave N Ste 560 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Ben	Nelson	benn@cmpasgroup.org	CMMPA	459 South Grove Street Blue Earth, MN 56013	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Dale	Niezwaag	dniezwaag@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue Bismarck, ND 58503	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
David	Niles	david.niles@avantenergy.c om	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Rolf	Nordstrom	rnordstrom@gpsd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Samantha	Norris	samanthanorris@alliantene rgy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, Minnesota 55362	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Priti	Patel	ppatel@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369-4718	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive Belmont, CA 94002	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jeffrey C	Paulson	jeff.jcplaw@comcast.net	Paulson Law Office, Ltd.	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Joyce	Peppin	joyce@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Mary Beth	Peranteau	mperanteau@wheelerlaw.com	Wheeler Van Sickle & Anderson SC	44 E. Mifflin Street, 10th Floor Madison, WI 53703	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Jennifer	Peterson	jppeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Hannah	Polikov	hpolikov@aee.net	Advanced Energy Economy Institute	1000 Vermont Ave, Third Floor Washington, DC 20005	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David G.	Prazak	dprazak@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	26039 Bear Ridge Drive Cohasset, MN 55721	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Mark	Rathbun	mrathbun@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Reinertson	michael.reinertson@avante nergy.com	Avant Energy	220 S. Sixth St. Ste 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_16-222_Official Service List 16-222
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_16-222_Official Service List 16-222
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Michael	Riewer	MRiewer@otpc.com	Otter Tail Power Company	PO Box 4496 Fergus Falls, MN 56538-0496	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227 Madison, SD 57042	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Richard	Savelkoul	rsavelkoul@martinsquires.c om	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Thomas	Scharff	thomas.scharff@versoco.com	Verso Corp	600 High Street Wisconsin Rapids, WI 54495	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Larry L.	Schedin	Larry@LLSResources.com	LLS Resources, LLC	332 Minnesota St, Ste W1390 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Christopher	Schoenherr	cp.schoenherr@smmpa.org	SMPMPA	500 First Ave SW Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
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Dean	Sedgwick	Sedgwick@Itascapower.com	Itasca Power Company	PO Box 455 Spring Lake, MN 56680	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Maria	Seidler	maria.seidler@dom.com	Dominion Energy Technology	120 Tredegar Street Richmond, Virginia 23219	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th Pl E Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
David	Shaffer	shaff081@gmail.com	Minnesota Solar Energy Industries Project	1005 Fairmount Ave Saint Paul, MN 55105	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Patricia F.	Sharkey	N/A	Midwest Cogeneration Association	P.O. Box 87374 Carol Stream, IL 60188	Paper Service	No	OFF_SL_16-222_Official Service List 16-222
Patricia	Sharkey	psharkey@environmentallawcounsel.com	Midwest Cogeneration Association.	180 N. LaSalle Street Suite 3700 Chicago, Illinois 60601	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Anne	Smart	anne.smart@chargepoint.com	ChargePoint, Inc.	254 E Hacienda Ave Campbell, CA 95008	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Joshua	Smith	joshua.smith@sierraclub.org		85 Second St FL 2 San Francisco, California 94105	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Ken	Smith	ken.smith@ever-greenenergy.com	Ever Green Energy	305 Saint Peter St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Trevor	Smith	trevor.smith@avantenergy.com	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd St. Paul, MN 55102	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Beth H.	Soholt	bsoholt@windonthewires.org	Wind on the Wires	570 Asbury Street Suite 201 St. Paul, MN 55104	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Sky	Stanfield	stanfield@smwlaw.com	Shute, Mihaly & Weinberger	396 Hayes Street San Francisco, CA 94102	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Tom	Stanton	tstanton@nrri.org	NRRI	1080 Carmack Road Columbus, OH 43210	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Stuart	Tommerdahl	stommerdahl@otpc.com	Otter Tail Power Company	215 S Cascade St PO Box 496 Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Pat	Treseler	pat.jcplaw@comcast.net	Paulson Law Office LTD	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Lise	Trudeau	lise.trudeau@state.mn.us	Department of Commerce	85 7th Place East Suite 500 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Karen	Turnboom	karen.turnboom@versocom.com	Verso Corporation	100 Central Avenue Duluth, MN 55807	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
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	OFF_SL_16-222_Official Service List 16-222

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Jenna	Warmuth	jwarmuth@mnpower.com	Minnesota Power	30 W Superior St Duluth, MN 55802-2093	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
Robyn	Woeste	robynwoeste@alliantenergy.com	Interstate Power and Light Company	200 First St SE Cedar Rapids, IA 52401	Electronic Service	No	OFF_SL_16-222_Official Service List 16-222
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Michael	Allen	michael.allen@allenergysolar.com	All Energy Solar	721 W 26th st Suite 211 Minneapolis, Minnesota 55405	Electronic Service	No	OFF_SL_18-714_M-18-714
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_18-714_M-18-714
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Nick	Lenssen	lenssen.nick@gmail.com		1195 Albion Way Boulder, CO 80305	Electronic Service	No	OFF_SL_18-714_M-18-714
Annie	Levenson Falk	annielf@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota Street, Suite W1360 St. Paul, MN 55101	Electronic Service	No	OFF_SL_18-714_M-18-714
Amy	Liberkowski	amy.a.liberkowski@xcenergy.com	Xcel Energy	414 Nicollet Mall 7th Floor Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_18-714_M-18-714
Carl	Linville	clinville@raponline.org	Regulatory Assistance Project	50 State Street Suite #3 Montpelier, VT 05602	Electronic Service	No	OFF_SL_18-714_M-18-714
Phillip	Lipetsky	greenenergyproductsllc@gmail.com	Green Energy Products	PO Box 108 Springfield, MN 56087	Electronic Service	No	OFF_SL_18-714_M-18-714
Michael	Loeffler	mike.loeffler@nngco.com	Northern Natural Gas Co.	CORP HQ, 714 1111 So. 103rd Street Omaha, NE 681241000	Electronic Service	No	OFF_SL_18-714_M-18-714
William	Lovelace	wlovelace@minnkota.com	Minnkota Power Cooperative	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_18-714_M-18-714

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brian	Lydic	brian@irecusa.org	Interstate Renewable Energy Council, Inc.	PO Box 1156 Latham, NY 12110-1156	Electronic Service	No	OFF_SL_18-714_M-18-714
Richard	Macke	macker@powersystem.org	Power System Engineering, Inc.	10710 Town Square Dr NE Ste 201 Minneapolis, MN 55449	Electronic Service	No	OFF_SL_18-714_M-18-714
Alex	Magerko	amagerko@epri.com	EPRI	942 Corridor Park Blvd Knoxville, TN 37932	Electronic Service	No	OFF_SL_18-714_M-18-714
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_18-714_M-18-714
Sara G	McGrane	smcgrane@felhaber.com	Felhaber Larson	220 S 6th St Ste 2200 Minneapolis, MN 55420	Electronic Service	No	OFF_SL_18-714_M-18-714
Natalie	McIntire	natalie.mcintire@gmail.com	Wind on the Wires	570 Asbury St Ste 201 Saint Paul, MN 55104-1850	Electronic Service	No	OFF_SL_18-714_M-18-714
Dave	McNary	David.McNary@hennepin.us	Hennepin County DES	701 Fourth Ave S Ste 700 Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_18-714_M-18-714
John	McWilliams	John.McWilliams@DairylandPower.com	Dairyland Power Cooperative	3200 East Ave SPO Box 817 La Crosse, WI 54601-7227	Electronic Service	No	OFF_SL_18-714_M-18-714
Thomas	Melone	Thomas.Melone@AllcoUS.com	Minnesota Go Solar LLC	222 South 9th Street Suite 1600 Minneapolis, Minnesota 55120	Electronic Service	No	OFF_SL_18-714_M-18-714

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Alan	Miller	N/A		2210 20th St NE Stewartville, MN 55976	Paper Service	No	OFF_SL_18-714_M-18-714
Darrick	Moe	darrick@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_18-714_M-18-714
David	Moeller	dmoeller@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_18-714_M-18-714
Dalene	Monsebroten	dalene.monsebroten@nmpagency.com	Northern Municipal Power Agency	123 2nd St W Thief River Falls, MN 56701	Electronic Service	No	OFF_SL_18-714_M-18-714
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_18-714_M-18-714
Michael	Murtaugh	mmurtaugh@fmcs.coop	Freeborn-Mower Cooperative Services	2501 Main Street East Albert Lea, MN 56007	Electronic Service	No	OFF_SL_18-714_M-18-714
Tony	Nelson	tnelson@itasca-mantrap.com	Itasca-Mantrap Coop. Electric Assn.	PO Box 192 Park Rapids, MN 56470	Electronic Service	No	OFF_SL_18-714_M-18-714
Ben	Nelson	benn@cmpasgroup.org	CMMPA	459 South Grove Street Blue Earth, MN 56013	Electronic Service	No	OFF_SL_18-714_M-18-714
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_18-714_M-18-714

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_18-714_M-18-714
Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_18-714_M-18-714
Timothy	O'Leary	toleary@llec.coop	Lyon-Lincoln Electric Cooperative, Inc	P.O. Box 639 Tyler, MN 561780639	Electronic Service	No	OFF_SL_18-714_M-18-714
Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, Minnesota 55362	Electronic Service	No	OFF_SL_18-714_M-18-714
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_18-714_M-18-714
Wendi	Olson	wolson@otpc.com	Otter Tail Power Company	215 South Cascade Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_18-714_M-18-714
Bethany	Owen	bowen@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_18-714_M-18-714
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive Belmont, CA 94002	Electronic Service	No	OFF_SL_18-714_M-18-714

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jeffrey C	Paulson	jeff.jcplaw@comcast.net	Paulson Law Office, Ltd.	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_18-714_M-18-714
Dean	Pawlowski	dpawlowski@otpc.com	Otter Tail Power Company	PO Box 496 215 S. Cascade St. Fergus Falls, MN 565370496	Electronic Service	No	OFF_SL_18-714_M-18-714
Susan	Peirce	Susan.Peirce@state.mn.us	Department of Commerce	85 Seventh Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_18-714_M-18-714
Joyce	Peppin	joyce@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_18-714_M-18-714
Mary Beth	Peranteau	mperanteau@wheelerlaw.com	Wheeler Van Sickle & Anderson SC	44 E. Mifflin Street, 10th Floor Madison, WI 53703	Electronic Service	No	OFF_SL_18-714_M-18-714
Jeff M	Peters	jeff.peters@mrenergy.com	Missouri River Energy Services	3724 W Avera Dr PO Box 88920 Sioux Falls, MN 57109-8920	Electronic Service	No	OFF_SL_18-714_M-18-714
Donna	Pickard	dpickardgsss@gmail.com	Genie Solar Support Services	1215 Lilac Lane Excelsior, MN 55331	Electronic Service	No	OFF_SL_18-714_M-18-714
David G.	Prazak	dprazak@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_18-714_M-18-714
Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	26039 Bear Ridge Drive Cohasset, MN 55721	Electronic Service	No	OFF_SL_18-714_M-18-714
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_18-714_M-18-714
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_18-714_M-18-714
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_18-714_M-18-714
Darla	Ruschen	d.ruschen@bcrea.coop	Brown County Rural Electric Assn.	PO Box 529 24386 State Highway 4 Sleepy Eye, MN 56085	Electronic Service	No	OFF_SL_18-714_M-18-714
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227 Madison, SD 57042	Electronic Service	No	OFF_SL_18-714_M-18-714
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Kenric	Scheevel	Kenric.scheevel@dairylandpower.com	Dairyland Power Cooperative	3200 East Ave S PO Box 817 La Crosse, Wisconsin 54602	Electronic Service	No	OFF_SL_18-714_M-18-714

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Rob	Scott Hovland	rob.scott-hovland@mrenergy.com	Missouri River Energy Services	3724 W Avera Dr PO Box 88920 Sioux Falls, SD 571098920	Electronic Service	No	OFF_SL_18-714_M-18-714
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Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_18-714_M-18-714
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Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_18-714_M-18-714

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Trevor	Smith	trevor.smith@avantenergy.com	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_18-714_M-18-714
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Lise	Trudeau	lise.trudeau@state.mn.us	Department of Commerce	85 7th Place East Suite 500 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_18-714_M-18-714
Craig	Turner	cturner@dakotaelectric.com	Dakota Electric Association	4300 - 220th Street West Farmington, MN 550249583	Electronic Service	No	OFF_SL_18-714_M-18-714
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Robert	Walsh	bwalsh@mnvalleyrec.com	Minnesota Valley Coop Light and Power	PO Box 248 501 S 1st St Montevideo, MN 56265	Electronic Service	No	OFF_SL_18-714_M-18-714
Roger	Warehime	roger.warehime@owatonna utilities.com	Owatonna Public Utilities	208 South WalnutPO Box 800 Owatonna, MN 55060	Electronic Service	No	OFF_SL_18-714_M-18-714
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Elizabeth	Wefel	eawefel@flaherty- hood.com	Flaherty & Hood, P.A.	525 Park St Ste 470 Saint Paul, MN 55103	Electronic Service	No	OFF_SL_18-714_M-18-714
John	Williamson	John.Williamson@state.mn. .us	Minnesota Department of Labor and Industry	443 Lafayette Rd N St. Paul, MN 55155-4341	Electronic Service	No	OFF_SL_18-714_M-18-714
Danielle	Winner	danielle.winner@state.mn. us	Department of Commerce	85 7th Place East Suite 500 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_18-714_M-18-714
Robyn	Woeste	robynwoeste@alliantenerg y.com	Interstate Power and Light Company	200 First St SE Cedar Rapids, IA 52401	Electronic Service	No	OFF_SL_18-714_M-18-714
Terry	Wolf	terry.wolf@mrenergy.com	Missouri River Energy Services	3724 W Avera Dr PO Box Sioux Falls, SD 571098920	Electronic Service	No	OFF_SL_18-714_M-18-714

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Alison C	Archer	aarcher@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan, MN 55121	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
James J.	Bertrand	james.bertrand@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
James	Canaday	james.canaday@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
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Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DCC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
George	Crocker	gwilc@nawo.org	North American Water Office	PO Box 174 Lake Elmo, MN 55042	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	2720 E. 22nd St Institute for Local Self-Reliance Minneapolis, MN 55406	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric

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Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Janet	Gonzalez	Janet.gonzalez@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Michael	Hoppe	il23@mtn.org	Local Union 23, I.B.E.W.	932 Payne Avenue St. Paul, MN 55130	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln St Anthony Village, MN 55418-3238	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Douglas	Larson	dlarson@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Kavita	Maini	kmairi@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Stacy	Miller	stacy.miller@minneapolisn.gov	City of Minneapolis	350 S. 5th Street Room M 301 Minneapolis, MN 55415	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric
Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric

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Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
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