



414 Nicollet Mall  
Minneapolis, MN 55401

January 25, 2021

—Via Electronic Filing—

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

RE: ADVANCED DISTRIBUTION MANAGEMENT SYSTEM ANNUAL REPORT

INTEGRATED DISTRIBUTION PLAN AND ADVANCED GRID INTELLIGENCE AND  
SECURITY CERTIFICATION REQUEST  
DOCKET NO. E002/M-19-666

2019 AND 2020 TRANSMISSION COST RECOVERY RIDER  
DOCKET NO. E002/M-19-721

2021 TRANSMISSION COST RECOVERY RIDER  
DOCKET NO. E002/M-20-680

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits this filing in the above-referenced dockets in compliance with Order Point 7 of the Commission's September 27, 2019 ORDER AUTHORIZING RIDER RECOVERY, SETTING RETURN ON EQUITY, AND SETTING FILING REQUIREMENTS in Docket No. E002/M-17-797. Order Point 7 requires the Company to submit an annual filing to provide detailed information about our Advanced Distribution Management System (ADMS).

The Commission's May 19, 2020 NOTICE OF ADMS ANNUAL FILING DATE in Docket Nos. E002/M-17-797, E002/M-19-666, and E002/M-19-721 set the January 25 annual filing date and stipulated that the filing should be submitted in the Company's most recent Transmission Cost Recovery Rider and Integrated Distribution Plan dockets.

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

Please contact me at [holly.r.hinman@xcelenergy.com](mailto:holly.r.hinman@xcelenergy.com) or (612) 330-5941 or [martha.e.hoschmiller@xcelenergy.com](mailto:martha.e.hoschmiller@xcelenergy.com) or (612) 330-5973 if you have any questions regarding this filing.

SINCERELY,

/s/

HOLLY HINMAN  
REGULATORY MANAGER

c: Enclosure  
Service List

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 XCEL ENERGY'S  
INTEGRATED DISTRIBUTION PLAN AND  
ADVANCED GRID INTELLIGENCE AND  
SECURITY CERTIFICATION REQUEST

DOCKET NO. E002/M-19-666

IN THE MATTER OF THE PETITION OF  
NORTHERN STATES POWER COMPANY  
FOR APPROVAL OF THE TRANSMISSION  
COST RECOVERY RIDER REVENUE  
REQUIREMENTS FOR 2019 AND 2020 AND  
REVISED ADJUSTMENT FACTORS

DOCKET NO. E002/M-19-721

IN THE MATTER OF THE PETITION OF  
NORTHERN STATES POWER COMPANY  
FOR APPROVAL OF THE TRANSMISSION  
COST RECOVERY RIDER REVENUE  
REQUIREMENTS FOR 2021 AND REVISED  
ADJUSTMENT FACTORS

DOCKET NO. E002/M-20-680

**ANNUAL REPORT**

**OVERVIEW**

Northern States Power Company, doing business as Xcel Energy, submits this filing in the above-referenced dockets in compliance with Order Point 7 of the Commission's September 27, 2019 ORDER AUTHORIZING RIDER RECOVERY, SETTING RETURN ON EQUITY, AND SETTING FILING REQUIREMENTS issued in Docket No. E002/M-17-797 and the Commission's May 19, 2020 NOTICE OF ADMS ANNUAL FILING DATE in Docket Nos. E002/M-17-797, E002/M-19-666, and E002/M-19-721.

The NOTICE setting the filing date instructs that we provide the annual filing in the

Company's most recent Transmission Cost Recovery (TCR) Rider and the most recent Integrated Distribution Plan (IDP) dockets. To this end, we are submitting this report in our pending TCR proceeding and in the latest TCR proceeding we initiated, but in which we have not yet submitted a Petition. Order Point No. 7 of the ORDER setting the reporting requirements requires the Company to make an annual Advanced Distribution Management System (ADMS) report that includes:

- a. The actual costs spent on the ADMS implementation for the reporting period, and for the work to date, broken down in the categories of: design (including software configuration and software interfaces), hardware, software, testing and implementation – broken down by internal and external labor.*
- b. An estimate of the total quantity of work completed on the ADMS Project identified by major category. In the event work cannot be quantified, major tasks completed shall be provided.*
- c. The additional functional requirements installed to achieve ADMS usage functions (including AMI, FAN, FLISR or IVVO modules), their percent of system implementation or integration, and cost incurred to date.*
- d. The estimated anticipated expenses in coming reporting periods, both capital and O&M.*

This Compliance Report builds on the information provided in our initial January 24, 2020 Compliance Report.

## **COMPLIANCE REPORT**

### **A. Actual ADMS Expenditures**

In compliance with Order Point No. 7a, Tables 1 and 2 below summarize actual capital and operating & maintenance (O&M) ADMS expenditures, including internal labor, external labor and non-labor expenditures, through 2020 for the categories of Software, Design, Testing, Implementation, Hardware, and associated work with our Geospatial Information System (GIS).

**Table 1: Total ADMS Capital Expenditures through 2020 –  
State of Minnesota  
(Millions)**

	Prior to 2020	2020			
Category	All Labor + Non-Labor	Internal Labor	External Labor	Non-Labor	TOTAL
Software	\$2.3	\$0.0	\$0.0	\$0.0	\$2.3
Design	\$7.8	\$0.0	\$0.0	\$0.0	\$7.8
Testing	\$6.6	\$1.1	\$2.2	\$0.1	\$10.0
Implementation	\$8.4	\$1.1	\$2.2	\$0.2	\$11.9
Hardware	\$9.1	\$0.2	\$0.3	\$0.2	\$9.8
GIS	\$1.4	\$0.3	\$0.7	\$0.0	\$2.4
Sub-Total	\$35.6	\$2.7	\$5.4	\$0.5	\$44.2
AFUDC*	\$3.4	\$0.0	\$0.0	\$2.2	\$5.6
Total	\$39.0	\$2.7	\$5.4	\$2.7	\$49.8

\* We note that AFUDC is not a capital expenditure; we include it here to portray a view of all project expenditures.

**Table 2: Total ADMS O&M Expenditures through 2020 –  
State of Minnesota  
(Millions)**

	Prior to 2020	2020			
Category	All Labor + Non-Labor	Internal Labor	External Labor	Non-Labor	TOTAL
Software	\$0.2	\$0.0	\$0.0	\$0.0	\$0.3
Design	\$0.1	\$0.0	\$0.0	\$0.0	\$0.1
Testing	\$0.0	\$0.1	\$0.1	\$0.0	\$0.2
Implementation	\$0.1	\$0.1	\$0.1	\$0.0	\$0.2
Hardware	\$0.8	\$0.0	\$0.0	\$0.8	\$1.6
GIS	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$1.2	\$0.2	\$0.2	\$0.8	\$2.4

See Attachment A to this compliance filing for the detailed costs in these categories by year.

## **B. ADMS Major Tasks Status**

In 2020, the Company made additional progress on the ADMS implementation. Prior to 2020, the Company completed many activities relating to the design, build, configuration and initial testing of the ADMS system. Please see our January 24, 2020 *Compliance Filing* in Docket Nos. E002/M-17-797 and E002/M-19-666 for those details, including the completion of the ADMS design. This section discusses the

major ADMS implementation tasks completed in 2020, as required by Order Point No. 7b, as well as the overall completion status of such major tasks.

## *1. Software, Software Testing, and Hardware*

### **Software – Overall Completion 100%**

During 2020, we completed the Software category of the ADMS project, which includes the purchase, installation and configuration of software; specifically, we completed the following:

- *Application software and configuration* – 100% Complete

### **Software Testing – Overall Completion 100%**

During 2020, we completed all software testing planned for the ADMS project, including the following software testing:

- *SAT Test Resolution and Retesting* – 100% Complete
- *Institute Security Controls* – 100% Complete
- *System Performance Testing* – 100% Complete
- *User Acceptance Testing (UAT)* – 100% Complete
- *Disaster Recovery Testing* – 100% Complete

### **Hardware – Overall Completion 95%**

During 2020, we completed much of the Hardware category of the ADMS project, including the purchase and installation of networking equipment and operator workstations in the two control centers in Minneapolis (Metro West and Outstate), and we continued our work in the St. Paul control center.

- *Control center network and workstation hardware purchase and installation* – Minneapolis is 100% complete. The St. Paul control center is 25% complete; in 2021, we will make final purchases and complete the setup of the operator workstations.
- *Substation Equipment* – 100% Complete
- *Field Device Installation and Provisioning* – 100% Complete

## *2. Implementation-Related Tasks*

We are currently focused on the Minnesota control centers’ “go-live” portion of the ADMS initiative, which was delayed due to COVID-19 constraints. One of the Minneapolis control centers (Metro West) will be the first of the three NSPM control centers that will be enabled (to “go live”) with the ADMS system in second quarter 2021, with the remaining two control centers planned to go-live later in Q2 and Q4

respectively.

Going-live is the culmination of all necessary efforts to implement an operational system and occurs when the software begins serving its intended function. Specifically, this is when our control center operators will begin using the ADMS system as designed – which for the first control center go-live is for a subset of substations and feeders.

a. ADMS Network Model Build

Currently, the Company maintains approximately 240 substations and 1,050 feeders in Minnesota. The ADMS deployment is a gradual expansion of capabilities and the ADMS Network Model Build effort can generally be separated into phases that each have distinct requirements. In our NSPM service territory, there are three control centers with each having a separate geographic area of responsibility that they operate. The initial phase of the ADMS project is to meet the network model requirements for each of the three control centers. As part of the control center go-lives, control center operators will use ADMS to control and monitor the system, which includes tasks such as responding to alarms and opening and closing feeder breakers. Beyond the initial control center go-lives, we expect to expand the capabilities of ADMS over many years, which is part of the overall journey for integrating new devices to ADMS and leveraging its capabilities to enable additional advanced functionality of ADMS, such as FLISR and IVVO.

The initial Network Model Build phase involved the work that was required for placing the software into service, which required having the network impedance model (the verified, accurate electrical model) for at least the subset of the NSPM distribution system determined necessary for go-live purposes. That minimum criteria was validation of 59 substations (approximately 25 percent of the Minnesota substations) and 146 feeders (approximately 15 percent of the Minnesota feeders). Each of these feeders and substations have undergone a validation process that enables us to test the software and its capabilities against an appropriate set of feeders providing a diverse set of operating and grid conditions. We completed this work in 2020, in support of the first Minnesota control center to go-live which is planned for Q2 2021.

As part of the next phase, the remaining two Minnesota control centers require a unique minimum network model requirement for go-live, which includes building, testing, and validating additional substations, devices, and feeders. This work started in 2020 and will be on-going up until we go-live in the last Minnesota control center which is currently planned for Q4 2021. The estimated cost for this portion of the

Network Model Build work is approximately \$4 million.

The data strategy for these initial phases of the ADMS implementation was informed by the NREL study we have discussed previously and also summarize here. As part of verifying and informing our future data collection strategy, we partnered with the National Renewable Energy Laboratory (NREL) and our selected ADMS product developer, Schneider Electric. We worked together to perform analysis regarding the evaluation of ADMS performance for different levels of system model quality. The project team evaluated the performance of an advanced application, specifically the ADMS Volt/VAr Optimization (VVO) application, in regulating the feeder voltage and performing conservation voltage reduction (CVR) at different levels of model quality and different levels of measurement density. As part of this effort, the Company analyzed whether its planned feeder field verification strategy captured the level of information to support various levels of model quality. As a result of this work, we determined that the volume of system data being captured for each of the feeders via the field verification process could be reduced for ADMS purposes.

After we have all three Minnesota control centers up and running, we will be bringing in the rest of the substations and feeders into ADMS over the course of several years, so the full Minnesota primary distribution system is depicted and can be operated from ADMS.<sup>1</sup> This phase will make all of the Minnesota system feeders available in ADMS – beyond the minimum requirement for each control center go-live – culminating in all of the Minnesota distribution system being represented in ADMS. The estimated cost for this work is approximately \$1 million.

The final phase of this ADMS project is contemplated to include the data collection, validation, and testing of feeders on which we have not performed these activities previously, and that are necessary to support the additional advanced functionality of ADMS, such as FLISR and IVVO. Based on our continuous refinement our data collection strategy and based in part by the Commission's decision to not certify FLISR and IVVO in our most recent request for certification as part of our 2019 Integrated Distribution Plan, we are evaluating our future data collection strategy for this phase of the project. We anticipate we will develop and solidify our plans for our data collection strategy and advanced applications over the next year. Currently we estimate this phase would involve the remaining \$6 million in the 2021-2025 budget forecast (GIS category, specifically) and would be in the 2022 and beyond timeframe.

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<sup>1</sup> Although not all of the feeders will have undergone the same data validation process.



b. Device Testing

Device testing is in its final stages. We are testing field device communication with ADMS prior to promotion to production environment. During 2020, we achieved the following level of completion in device testing actions:

- *Minneapolis Control Centers (Metro West and Outstate) - Field Device Verification Testing (Point-to-Point Testing)* – 40% Complete
- *Minneapolis Control Centers - Substation Point-to-Point Testing* – 50% Complete
- *Minneapolis Control Centers - ADMS substation and distribution displays* – 95% Complete
- *St. Paul Control Center - Field Device Verification Testing (Point-to-Point Testing)* – 0% Complete
- *St. Paul Control Center - Substation Point-to-Point Testing* – 0% Complete
- *St. Paul Control Center - ADMS substation and distribution displays* – 0% Complete

c. Other Implementation Tasks

The ADMS core software and servers are already built to accommodate future NSPM requirements, hence work to enable additional control centers will consist of deployment of workstations, building relevant substation and feeder models for each given area, and testing and validation before the respective areas will be operational in ADMS. Remaining work required for control center go-lives (Minneapolis and St. Paul) includes:

- *IVVO Model “Tuning” for Limited Set of Feeders* – Tuning is an iterative process to ensure the software model accurately calculates the feeder load flows.
- *Operator and Non-operator Training* – Complete ADMS training, in a simulator-based environment, for day to day operations. Trainees include management, technicians, and control center personnel.
- *Final Technical Validation* – Complete the final technical validation leading up to each of the control center go-lives that includes such activities as a final validation of alarms, substation displays, and SCADA.
- *Business Readiness* – Leading up to each of the control center go-lives finalize support plan and business readiness which includes training and documentation of processes for our employees that will use and support ADMS.

Once these remaining tasks are complete, we will commence using the system and complete the go-live process with operators transition the operation of the system

from DEMS to ADMS<sup>2</sup>.

### **C. Additional Functional Requirements Installed**

In compliance with Order Point 7c, below we discuss the additional functional requirements installed to achieve ADMS functionality (including support for Advanced Metering Infrastructure (AMI), integration with Field Area Network (FAN), and proof of functionality for FLISR, and IVVO modules) and their percent of system implementation or integration.<sup>3</sup>

#### *1. AMI*

Outage data gathered by the AMI meters will be used to maintain greater awareness of customer outages and aid in more expedient restoration. Advanced meters report power-out or “last gasp” events to the AMI head-end application and report a power-on event when power is restored. “Last gasp” is the final message transmitted by the meter upon detection of an outage. This information will flow from the head-end application into OMS (Outage Management System). The data will also flow into ADMS where it will improve calculations for the fault location and restoration applications. These power-on and power-off notifications will provide us with a more timely and accurate scope of outages without relying on customers to report them. Relatedly, restoration confirmation notifications will allow us to focus and optimize our restoration efforts on active outages, minimizing field trips where outages do not exist, also known as “Okay on Arrival” calls.

Requirements and design for this integration is expected to begin in 2021, with implementation concurrent with AMI implementation, currently scheduled to begin in early 2022. The Company also intends to use a portion of AMI meters as “bellwether” sensing devices to provide near-real-time power information to ADMS. Finally, AMI data will be used to create improved load profiles for planning and operations.

#### *2. FAN*

The FAN will be the principal communication channel for ADMS. Because the deployment of ADMS precedes AMI, the Company installed cellular (LTE) technology to achieve ADMS functional requirements. The equipment installed is fully capable of working with all technologies envisioned for the FAN. Installation of

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<sup>2</sup> Control center operators will continue to use NMS for outage management related tasks

<sup>3</sup> As previously noted, the NSPM ADMS go-live is for a subset of feeders and substations.

communications equipment to support the ADMS go-live is 95% complete.

3. *Proof of Functionality – FLISR and IVVO*

The ADMS software functional requirements to enable the proof of functionality for FLISR and IVVO are complete. The installation and testing of hardware in the field to interface with ADMS for this is approximately 80 percent complete. While 100 percent of the hardware is installed for the eight validation feeders (two FLISR and seven IVVO, with one overlapping both applications), confirming communications and performing final tests is approximately 20 percent complete. Overall, this work for the validation feeders is 80 percent complete.

**D. Estimated Future Costs**

Order Point 7c requires that we provide estimated anticipated expenses in coming reporting periods, both capital and O&M. We summarize this information below and provide a more detailed view of the information in Attachment A to this compliance filing.

1. *Capital Costs*

Because ADMS is being developed as one software system across the Xcel Energy enterprise system and will be implemented in each specific Operating Company on a different timeline, the ADMS costs will be allocated to specific utilities and jurisdictions. Table 3 shows the Minnesota allocated share of budgeted costs for the remaining years of the project (2021 through 2025) in the categories specified in the September 27, 2019 ORDER. We note that we budget at a project level, so all budgeted costs are categorized as external labor costs in Table 3, except hardware. When actual costs are reported for these years, they will be parsed into the internal labor, external labor, and non-labor categories.

**Table 3: Total ADMS Capital Budget for 2021-2025 –  
State of Minnesota  
(Millions)**

Category	Internal Labor	External Labor	Non-Labor	TOTAL
Software	\$0.0	\$0.0	\$0.0	\$0.0
Design	\$0.0	\$0.0	\$0.0	\$0.0
Testing	\$0.0	\$0.0	\$0.0	\$0.0
Implementation	\$0.0	\$3.0	\$0.0	\$3.0
Hardware	\$0.0	\$0.0	\$0.5	\$0.5
GIS	\$0.0	\$11.0	\$0.0	\$11.0
Sub-Total	\$0.0	\$14.0	\$0.5	\$14.5
AFUDC*	\$0.0	\$0.0	\$1.4	\$1.4
<b>Total</b>	<b>\$0.0</b>	<b>\$14.0</b>	<b>\$1.9</b>	<b>\$15.9</b>

*\* We note that AFUDC is not a capital expenditure; we include it here to portray a view of all project expenditures.*

The ADMS project budget as presented in our initial cost recovery request<sup>4</sup> was \$69.1 million for Minnesota.<sup>5</sup> As summarized below and detailed in Attachment A, our current budgeted capital expenditures for the ADMS project are approximately \$65.7 million for Minnesota. As the latest budget was prepared in July 2020, some expected 2020 costs have shifted into 2021 and are not reflected in the \$65.7 million budget. We anticipate the total project capital expenditures to be approximately \$69.1 million, as originally presented.

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<sup>4</sup> *In the Matter of Northern States Power Company for Approval of the Transmission Cost Recovery Rider Revenue Requirements for 2017 and 2019, and Revised Adjustment Factors*, PETITION AND COMPLIANCE FILING, Docket No. E002/M-17-797 (November 8, 2017).

<sup>5</sup> The total ADMS budget for the Xcel Energy enterprise is \$208.9 million.

**Table 4: ADMS Capital Expenditures Summary –  
State of Minnesota  
(Millions)**

Category	Actual thru 2020	Budgeted 2021-2025	TOTAL
Software	\$2.3	\$0.0	\$2.3
Design	\$7.8	\$0.0	\$7.8
Testing	\$10.0	\$0.0	\$10.0
Implementation	\$11.8	\$3.0	\$14.8
Hardware	\$9.9	\$0.5	\$10.4
GIS	\$2.4	\$11.0	\$13.4
Sub-Total	\$44.2	\$14.5	\$58.7
AFUDC*	\$5.6	\$1.4	\$7.0
Total	\$49.8	\$15.9	\$65.7

*\* We note that AFUDC is not a capital expenditure; however, we believe these costs are important costs to include when presenting all project expenditures.*

## 2. O&M Costs

Table 5 below presents the O&M costs budgeted for the remaining years of the project. Internal labor costs are resources required to maintain the system (software and hardware). The External Labor category includes resources to maintain the hardware as well as costs involved in sustaining GIS asset information at the detailed level and accuracy required to allow ADMS to function optimally. The Non-Labor category represents ongoing hardware and software maintenance costs for the project.

**Table 5: Total ADMS O&M Budget for 2021-2025 –  
State of Minnesota  
(Millions)**

Category	Internal Labor	External Labor	Non- Labor	TOTAL
Software	\$4.5	\$0.0	\$2.8	\$7.3
Design	\$0.0	\$0.0	\$0.0	\$0.0
Testing	\$0.0	\$0.0	\$0.0	\$0.0
Implementation	\$0.0	\$0.0	\$0.0	\$0.0
Hardware	\$0.5	\$0.2	\$2.8	\$3.5
GIS	\$0.0	\$1.7	\$0.0	\$1.7
Total	\$5.0	\$1.9	\$5.6	\$12.5

**Table 6: ADMS O&M Cost Summary –  
State of Minnesota  
(Millions)**

<b>Category</b>	<b>Actual thru 2020</b>	<b>Budgeted 2021-2025</b>	<b>TOTAL</b>
<b>Software</b>	\$0.3	\$7.4	\$7.7
<b>Design</b>	\$0.1	\$0.0	\$0.1
<b>Testing</b>	\$0.2	\$0.0	\$0.2
<b>Implementation</b>	\$0.2	\$0.0	\$0.2
<b>Hardware</b>	\$1.6	\$3.4	\$5.0
<b>GIS</b>	\$0.0	\$1.7	\$1.7
<b>Total</b>	<b>\$2.4</b>	<b>\$12.5</b>	<b>\$14.9</b>

At this time, we estimate that once fully placed in-service, the Minnesota portion of the ADMS system will incur approximately \$1.9 million per year in O&M costs to pay for external software support and maintenance, hardware support, wide-area network costs, and internal labor supporting the application and technical infrastructure starting in 2023.

### **CONCLUSION**

We respectfully request that the Commission accept this compliance report.

Dated: January 25, 2021

Northern States Power Company

## Capital

## Internal Labor ADMS Capital Expenditures – State of Minnesota

	Actuals															TOTAL
Internal	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Design	-	1,441	87,488	359,540	618,759	-	-	-	\$ 1,067,227	-	-	-	-	-	\$ -	\$ 1,067,227
Testing	-	-	-	-	-	582,558	841,363	1,111,747	\$ 2,535,668	-	-	-	-	-	\$ -	\$ 2,535,668
Implementation	-	-	-	89,885	154,690	582,558	841,363	1,111,747	\$ 2,780,243	-	-	-	-	-	\$ -	\$ 2,780,243
Hardware	-	-	-	-	8,929	156,149	299,500	221,347	\$ 685,925	-	-	-	-	-	\$ -	\$ 685,925
GIS	-	-	-	-	-	12,638	22,956	299,179	\$ 334,773	-	-	-	-	-	\$ -	\$ 334,773
Internal Total:	-	1,441	87,488	449,425	782,377	1,333,903	2,005,181	2,744,021	\$ 7,403,837	-	-	-	-	-	\$ -	\$ 7,403,837

## External Labor ADMS Capital Expenditures – State of Minnesota

	Actuals															TOTAL
External	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Design	65,799	640,364	1,240,409	1,755,216	2,911,576	-	-	-	\$ 6,613,363	-	-	-	-	-	\$ -	\$ 6,613,363
Testing	-	-	-	-	-	2,714,745	2,464,945	2,170,257	\$ 7,349,947	-	-	-	-	-	\$ -	\$ 7,349,947
Implementation	-	-	-	438,804	727,894	2,714,745	2,464,945	2,170,257	\$ 8,516,645	3,014,279	-	-	-	-	\$ 3,014,279	\$ 11,530,923
Hardware	-	-	-	-	31,869	234,996	1,568,534	345,903	\$ 2,181,303	8	-	-	-	-	\$ 8	\$ 2,181,310
GIS	-	-	-	-	-	356,748	916,892	684,496	\$ 1,958,135	1,549,362	1,055,255	2,612,627	2,226,343	3,550,532	\$ 10,994,120	\$ 12,952,255
External Total:	65,799	640,364	1,240,409	2,194,020	3,671,339	6,021,235	7,415,315	5,370,912	\$ 26,619,392	4,563,648	1,055,255	2,612,627	2,226,343	3,550,532	\$ 14,008,406	\$ 40,627,798

## Non-Labor ADMS Capital Expenditures – State of Minnesota

	Actuals															TOTAL
Non-Labor	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	10	2,015,999	149,953	120,758	-	\$ 2,286,720	-	-	-	-	-	\$ -	\$ 2,286,720
Design	616	22,680	89,634	-	-	-	-	-	\$ 112,929	-	-	-	-	-	\$ -	\$ 112,929
Testing	-	-	-	-	-	-	-	160,491	\$ 160,491	-	-	-	-	-	\$ -	\$ 160,491
Implementation	-	-	-	38,708	36,811	137,639	142,317	160,491	\$ 515,966	-	-	-	-	-	\$ -	\$ 515,966
Hardware	-	-	-	-	5,383,297	525,246	891,400	198,891	\$ 6,998,834	479,044	-	-	-	-	\$ 479,044	\$ 7,477,879
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	\$ 5,579,481	1,291,009	21,874	54,056	20,713	34,469	\$ 1,422,122	\$ 7,001,602
GIS	-	-	-	-	-	8,350	85,211	10,293	\$ 103,854	-	-	-	-	-	\$ -	\$ 103,854
Non-Labor Total:	907	49,082	184,508	241,996	7,939,771	1,823,507	2,793,751	2,724,756	\$ 15,758,276	1,770,053	21,874	54,056	20,713	34,469	\$ 1,901,166	\$ 17,659,442

## Total ADMS Capital Expenditures – State of Minnesota

	Actuals															TOTAL
Capital Total	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	10	2,015,999	149,953	120,758	-	\$ 2,286,720	-	-	-	-	-	\$ -	\$ 2,286,720
Design	66,414	664,485	1,417,530	2,114,756	3,530,334	-	-	-	\$ 7,793,519	-	-	-	-	-	\$ -	\$ 7,793,519
Testing	-	-	-	-	-	3,297,303	3,306,308	3,442,495	\$ 10,046,106	-	-	-	-	-	\$ -	\$ 10,046,106
Implementation	-	-	-	567,397	919,395	3,434,942	3,448,624	3,442,495	\$ 11,812,853	3,014,279	-	-	-	-	\$ 3,014,279	\$ 14,827,132
Hardware	-	-	-	-	5,424,096	916,391	2,759,434	766,141	\$ 9,866,062	479,052	-	-	-	-	\$ 479,052	\$ 10,345,115
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	\$ 5,579,481	1,291,009	21,874	54,056	20,713	34,469	\$ 1,422,122	\$ 7,001,602
GIS	-	-	-	-	-	377,737	1,025,058	993,968	\$ 2,396,763	1,549,362	1,055,255	2,612,627	2,226,343	3,550,532	\$ 10,994,120	\$ 13,390,883
Capital Total	66,705	690,887	1,512,404	2,885,441	12,393,487	9,178,644	12,214,247	10,839,689	\$ 49,781,505	6,333,702	1,077,129	2,666,684	2,247,056	3,585,001	\$ 15,909,572	\$ 65,691,077

## O&amp;M

## Internal Labor ADMS O&amp;M Expenditures – State of Minnesota

	Actuals															TOTAL
Internal	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	-	-	-	-	37,201	\$ 37,201	1,383,629	1,391,349	651,512	563,443	527,494	\$ 4,517,427	\$ 4,554,629
Design	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Testing	-	-	-	-	-	2,028	10,866	53,719	\$ 66,612	-	-	-	-	-	\$ -	\$ 66,612
Implementation	-	-	-	-	-	2,028	10,866	53,719	\$ 66,612	-	-	-	-	-	\$ -	\$ 66,612
Hardware	-	-	-	-	-	-	-	21,568	\$ 21,568	159,659	133,787	62,521	47,166	42,075	\$ 445,207	\$ 466,775
GIS	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Internal Total:	-	-	-	-	-	4,055	21,731	166,207	\$ 191,993	1,543,288	1,525,136	714,033	610,609	569,569	\$ 4,962,635	\$ 5,154,628

## External Labor ADMS O&amp;M Expenditures – State of Minnesota

	Actuals															TOTAL
External	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	-	-	-	-	29,193	\$ 29,193	-	-	-	-	-	\$ -	\$ 29,193
Design	25,288	50,027	8,734	-	-	-	-	-	\$ 84,049	-	-	-	-	-	\$ -	\$ 84,049
Testing	-	-	-	-	-	5,386	17,816	88,044	\$ 111,246	-	-	-	-	-	\$ -	\$ 111,246
Implementation	-	-	-	-	-	5,386	17,816	88,044	\$ 111,246	-	-	-	-	-	\$ -	\$ 111,246
Hardware	-	-	-	-	-	-	-	24,547	\$ 24,547	20,579	44,862	44,241	39,533	38,687	\$ 187,903	\$ 212,449
GIS	-	-	-	-	-	-	-	-	\$ -	396,668	332,874	332,874	332,874	332,874	\$ 1,728,165	\$ 1,728,165
External Total:	25,288	50,027	8,734	-	-	10,772	35,632	229,828	\$ 360,281	417,247	377,736	377,116	372,408	371,561	\$ 1,916,068	\$ 2,276,349

## Non-Labor ADMS O&amp;M Expenditures – State of Minnesota

	Actuals															TOTAL	
Non-Labor	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date		2021	2022	2023	2024	2025	Non-Labor Total	
Software	-	-	-	-	-	-	209,278	28,143	\$ 237,421		519,408	573,118	576,490	579,926	583,435	\$ 2,832,377	\$ 3,069,798
Design	-	-	1,955	-	-	-	-	-	\$ 1,955		-	-	-	-	-	\$ -	\$ 1,955
Testing	-	-	-	-	-	1,342	5,003	4,442	\$ 10,787		-	-	-	-	-	\$ -	\$ 10,787
Implementation	-	-	-	-	-	1,342	40,728	4,442	\$ 46,512		-	-	-	-	-	\$ -	\$ 46,512
Hardware	-	-	-	-	-	28,730	757,309	797,034	\$ 1,583,073		595,858	590,297	566,468	532,479	508,702	\$ 2,793,804	\$ 4,376,876
GIS	-	-	-	-	-	-	-	-	\$ -		-	-	-	-	-	\$ -	\$ -
Non-Labor Total:	-	-	1,955	-	-	31,413	1,012,318	834,061	\$ 1,879,748		1,115,267	1,163,414	1,142,958	1,112,405	1,092,137	\$ 5,626,180	\$ 7,505,929

## Total ADMS O&amp;M Expenditures – State of Minnesota

	Actuals															TOTAL
O&M Total	2013	2014	2015	2016	2017	2018	2019	2020	Actuals to Date	2021	2022	2023	2024	2025	Forecast Total	
Software	-	-	-	-	-	-	209,278	94,537	\$ 303,815	1,903,037	1,964,466	1,228,003	1,143,369	1,110,929	\$ 7,349,804	\$ 7,653,619
Design	25,288	50,027	10,690	-	-	-	-	-	\$ 86,004	-	-	-	-	-	\$ -	\$ 86,004
Testing	-	-	-	-	-	8,755	33,684	146,206	\$ 188,645	-	-	-	-	-	\$ -	\$ 188,645
Implementation	-	-	-	-	-	8,755	69,410	146,206	\$ 224,371	-	-	-	-	-	\$ -	\$ 224,371
Hardware	-	-	-	-	-	28,730	757,309	843,148	\$ 1,629,187	776,096	768,946	673,230	619,177	589,464	\$ 3,426,914	\$ 5,056,101
GIS	-	-	-	-	-	-	-	-	\$ -	396,668	332,874	332,874	332,874	332,874	\$ 1,728,165	\$ 1,728,165
O&M Total	25,288	50,027	10,690	-	-	46,241	1,069,681	1,230,096	\$ 2,432,023	3,075,801	3,066,287	2,234,107	2,095,421	2,033,267	\$ 12,504,883	\$ 14,936,905



## CERTIFICATE OF SERVICE

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

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

xx electronic filing

**DOCKET No.      E002/M-19-666**  
**E002/M-19-721**  
**E002/M-20-680**

Dated this 25<sup>th</sup> day of January 2021

/s/

---

Crystal Syvertsen

[illegible]

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Carl	Nelson	cnelson@mncee.org	Center for Energy and Environment	212 3rd Ave N Ste 560  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Dale	Niezwaag	dniezwaag@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58503	Electronic Service	No	OFF_SL_19-666_Official
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Sephra	Ninow	sephra.ninow@energycenter.org	Center for Sustainable Energy	426 17th Street, Suite 700  Oakland, CA 94612	Electronic Service	No	OFF_SL_19-666_Official
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220  Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_19-666_Official
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_19-666_Official
David	O'Brien	david.obrien@navigant.com	Navigant Consulting	77 South Bedford St Ste 400  Burlington, MA 01803	Electronic Service	No	OFF_SL_19-666_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_19-666_Official
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248  Madison, SD 570420248	Electronic Service	No	OFF_SL_19-666_Official
Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue  Red Wing, MN 55066	Electronic Service	No	OFF_SL_19-666_Official
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive  Belmont, CA 94002	Electronic Service	No	OFF_SL_19-666_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_19-666_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_19-666_Official
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_19-666_Official
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-666_Official
Hannah	Polikov	hpolikov@aee.net	Advanced Energy Economy Institute	1000 Vermont Ave, Third Floor Washington, DC 20005	Electronic Service	No	OFF_SL_19-666_Official
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_19-666_Official
Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	26039 Bear Ridge Drive Cohasset, MN 55721	Electronic Service	No	OFF_SL_19-666_Official
Mark	Rathbun	mrathbun@greenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_19-666_Official
Michael	Reinertson	michael.reinertson@avanteenergy.com	Avant Energy	220 S. Sixth St. Ste 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-666_Official
John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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_19-666_Official
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_19-666_Official
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Amanda	Rome	amanda.rome@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 5  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227  Madison, SD 57042	Electronic Service	No	OFF_SL_19-666_Official
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750  St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-666_Official
Thomas	Scharff	thomas.scharff@versoco.com	Verso Corp	600 High Street  Wisconsin Rapids, WI 54495	Electronic Service	No	OFF_SL_19-666_Official
Larry L.	Schedin	Larry@LLSResources.com	LLS Resources, LLC	332 Minnesota St, Ste W1390  St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-666_Official
Christopher	Schoenherr	cp.schoenherr@smmpa.org	SMMPA	500 First Ave SW  Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kay	Schraeder	kschraeder@minnkota.com	Minnkota Power	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_19-666_Official
Dean	Sedgwick	Sedgwick@Itascapower.com	Itasca Power Company	PO Box 455 Spring Lake, MN 56680	Electronic Service	No	OFF_SL_19-666_Official
Maria	Seidler	maria.seidler@dom.com	Dominion Energy Technology	120 Tredegar Street Richmond, Virginia 23219	Electronic Service	No	OFF_SL_19-666_Official
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_19-666_Official
Janet	Shaddix Elling	jshaddix@janetshaddix.com	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	Yes	OFF_SL_19-666_Official
David	Shaffer	shaff081@gmail.com	Minnesota Solar Energy Industries Project	1005 Fairmount Ave Saint Paul, MN 55105	Electronic Service	No	OFF_SL_19-666_Official
Patricia F	Sharkey	psharkey@environmentallawcounsel.com	Midwest Cogeneration Association.	180 N LaSalle St Ste 3700 Chicago, IL 60601	Electronic Service	No	OFF_SL_19-666_Official
Bria	Shea	bria.e.shea@xcelenergy.com	Xcel Energy	414 Nicollet Mall Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_19-666_Official
Anne	Smart	anne.smart@chargepoint.com	ChargePoint, Inc.	254 E Hacienda Ave Campbell, CA 95008	Electronic Service	No	OFF_SL_19-666_Official



First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Trevor	Smith	trevor.smith@avantenergy.com	Avant Energy, Inc.	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-666_Official
Ken	Smith	ken.smith@ever-greenenergy.com	Ever Green Energy	305 Saint Peter St  Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd  St. Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Joshua	Smith	joshua.smith@sierraclub.org		85 Second St FL 2  San Francisco, California 94105	Electronic Service	No	OFF_SL_19-666_Official
Beth H.	Soholt	bsoholt@windonthewires.org	Wind on the Wires	570 Asbury Street Suite 201  St. Paul, MN 55104	Electronic Service	No	OFF_SL_19-666_Official
Benjamin	Stafford	bstafford@cleanenergyeconymn.org	Clean Energy Economy Minnesota	400 South 4th St Ste 401-202 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_19-666_Official
Sky	Stanfield	stanfield@smwlaw.com	Shute, Mihaly & Weinberger	396 Hayes Street  San Francisco, CA 94102	Electronic Service	No	OFF_SL_19-666_Official
Tom	Stanton	tstanton@nrri.org	NRRI	1080 Carmack Road  Columbus, OH 43210	Electronic Service	No	OFF_SL_19-666_Official
Byron E.	Starns	byron.starns@stinson.com	STINSON LLP	50 S 6th St Ste 2600  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_19-666_Official
Thomas P.	Sweeney III	tom.sweeney@easycleane nergy.com	Clean Energy Collective	P O Box 1828  Boulder, CO 80306-1828	Electronic Service	No	OFF_SL_19-666_Official
Lynnette	Sweet	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7  Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_19-666_Official
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_19-666_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_19-666_Official
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_19-666_Official
Karen	Turnboom	karen.turnboom@versoco.c om	Verso Corporation	100 Central Avenue  Duluth, MN 55807	Electronic Service	No	OFF_SL_19-666_Official
Andrew	Twite	twite@fresh-energy.org	Fresh Energy	408 St. Peter Street, Ste. 220  St. Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Thomas	Tynes	jjazynka@energyfreedomc oalition.com	Energy Freedom Coalition of America	101 Constitution Ave NW Ste 525 East  Washington, DC 20001	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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_19-666_Official
Nikhil	Vijaykar	NVijaykar@elpc.org	Enviornental Law & Policy Center	N/A	Electronic Service	No	OFF_SL_19-666_Official
Curt	Volkman	curt@newenergy-advisors.com	Fresh Energy	N/A	Electronic Service	No	OFF_SL_19-666_Official
Roger	Warehime	roger.warehime@owatonnautilities.com	Owatonna Public Utilities	208 South WalnutPO Box 800  Owatonna, MN 55060	Electronic Service	No	OFF_SL_19-666_Official
Jenna	Warmuth	jwarmuth@mnpower.com	Minnesota Power	30 W Superior St  Duluth, MN 55802-2093	Electronic Service	No	OFF_SL_19-666_Official
Samantha	Williams	swilliams@nrdc.org	Natural Resources Defense Council	20 N. Wacker Drive Ste 1600 Chicago, IL 60606	Electronic Service	No	OFF_SL_19-666_Official
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official
Robyn	Woeste	robynwoeste@alliantenergy.com	Interstate Power and Light Company	200 First St SE  Cedar Rapids, IA 52401	Electronic Service	No	OFF_SL_19-666_Official
Yochi	Zakai	yzakai@smwlaw.com	SHUTE, MIHALY & WEINBERGER LLP	396 Hayes Street  San Francisco, CA 94102	Electronic Service	No	OFF_SL_19-666_Official
Thomas J.	Zaremba	TZaremba@wheelerlaw.com	WHEELER, VAN SICKLE & ANDERSON	44 E. Mifflin Street, 10th Floor  Madison, WI 53703	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christopher	Zibart	czibart@atcllc.com	American Transmission Company LLC	W234 N2000 Ridgeview Pkwy Court  Waukesha, WI 53188-1022	Electronic Service	No	OFF_SL_19-666_Official
Patrick	Zomer	Patrick.Zomer@lawmoss.com	Moss & Barnett a Professional Association	150 S. 5th Street, #1200  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Alison C	Archer	aarcher@misoenergy.org	MISO	2985 Ames Crossing Rd  Eagan, MN 55121	Electronic Service	No	OFF_SL_19-721_M-19-721
Mara	Ascheman	mara.k.ascheman@xcelen ergy.com	Xcel Energy	414 Nicollet Mall Fl 5  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-721_M-19-721
James J.	Bertrand	james.bertrand@stinson.co m	STINSON LLP	50 S 6th St Ste 2600  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
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	OFF_SL_19-721_M-19-721
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd.  St, Louis, MO 63119-2044	Electronic Service	No	OFF_SL_19-721_M-19-721
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400  St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-721_M-19-721
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022191	Electronic Service	No	OFF_SL_19-721_M-19-721
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174  Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_19-721_M-19-721
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_19-721_M-19-721

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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_19-721_M-19-721
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St  Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_19-721_M-19-721
Janet	Gonzalez	Janet.gonzalez@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-721_M-19-721
Michael	Hoppe	lu23@ibew23.org	Local Union 23, I.B.E.W.	445 Etna Street Ste. 61 St. Paul, MN 55106	Electronic Service	No	OFF_SL_19-721_M-19-721
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2950 Yellowtail Ave.  Marathon, FL 33050	Electronic Service	No	OFF_SL_19-721_M-19-721
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Mark J.	Kaufman	mkaufman@ibewlocal949.org	IBEW Local Union 949	12908 Nicollet Avenue South  Burnsville, MN 55337	Electronic Service	No	OFF_SL_19-721_M-19-721
Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln  St Anthony Village, MN 55418-3238	Electronic Service	No	OFF_SL_19-721_M-19-721
Peder	Larson	plarson@larkinhoffman.com	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	OFF_SL_19-721_M-19-721

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_19-721_M-19-721
Kavita	Maini	kmaini@wi.rr.com	KM Energy Consulting, LLC	961 N Lost Woods Rd  Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_19-721_M-19-721
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E  St. Paul, MN 55106	Electronic Service	No	OFF_SL_19-721_M-19-721
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	OFF_SL_19-721_M-19-721
Stacy	Miller	stacy.miller@minneapolismn.gov	City of Minneapolis	350 S. 5th Street Room M 301 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_19-721_M-19-721
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022093	Electronic Service	No	OFF_SL_19-721_M-19-721
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue  Red Wing, MN 55066	Electronic Service	No	OFF_SL_19-721_M-19-721
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_19-721_M-19-721

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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_19-721_M-19-721
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750  St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-721_M-19-721
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_19-721_M-19-721
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd  St. Paul, MN 55102	Electronic Service	No	OFF_SL_19-721_M-19-721
Byron E.	Starns	byron.starns@stinson.com	STINSON LLP	50 S 6th St Ste 2600  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_19-721_M-19-721
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7  Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_19-721_M-19-721
Thomas	Tynes	jjazynka@energyfreedomcoalition.com	Energy Freedom Coalition of America	101 Constitution Ave NW Ste 525 East  Washington, DC 20001	Electronic Service	No	OFF_SL_19-721_M-19-721



First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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_19-721_M-19-721
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721
Patrick	Zomer	Patrick.Zomer@lawmoss.com	Moss & Barnett a Professional Association	150 S. 5th Street, #1200  Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-721_M-19-721

[illegible]

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Derek	Bertsch	derek.bertsch@mrenergy.com	Missouri River Energy Services	3724 West Avera Drive PO Box 88920 Sioux Falls, SD 57109-8920	Electronic Service	No	OFF_SL_20-680_Official
William	Black	bblack@mmua.org	MMUA	Suite 200 3131 Fernbrook Lane North  Plymouth, MN 55447	Electronic Service	No	OFF_SL_20-680_Official
Kenneth	Bradley	kbradley1965@gmail.com		2837 Emerson Ave S Apt CW112  Minneapolis, MN 55408	Electronic Service	No	OFF_SL_20-680_Official
Elizabeth	Brama	ebrama@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-680_Official
Jon	Brekke	jbrekke@grenergy.com	Great River Energy	12300 Elm Creek Boulevard  Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_20-680_Official
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_20-680_Official
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_20-680_Official
Christina	Brusven	cbrusven@fredlaw.com	Fredrikson Byron	200 S 6th St Ste 4000  Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_20-680_Official
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_20-680_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jason	Burwen	j.burwen@energystorage.org	Energy Storage Association	1155 15th St NW, Ste 500 Washington, DC 20005	Electronic Service	No	OFF_SL_20-680_Official
LORI	CLOBES	lclobes@mienergy.coop	MiEnergy Cooperative	31110 COOPERATIVE WAY PO BOX 626 RUSHFORD, MN 55971	Electronic Service	No	OFF_SL_20-680_Official
Douglas M.	Carnival	dmc@mcgrannshea.com	McGrann Shea Carnival Straughn & Lamb	N/A	Electronic Service	No	OFF_SL_20-680_Official
Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.	12700 West Dodge Road PO Box 2047 Omaha, NE 68103-2047	Electronic Service	No	OFF_SL_20-680_Official
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd.  St, Louis, MO 63119-2044	Electronic Service	No	OFF_SL_20-680_Official
Kenneth A.	Colburn	kcolburn@symbioticstrategies.com	Symbiotic Strategies, LLC	26 Winton Road  Meredith, NH 32535413	Electronic Service	No	OFF_SL_20-680_Official
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_20-680_Official
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-680_Official
Brooke	Cooper	bcooper@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022191	Electronic Service	No	OFF_SL_20-680_Official
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174  Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_20-680_Official

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_20-680_Official
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_20-680_Official
James	Denniston	james.r.denniston@xcenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, 401-8  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_20-680_Official
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St  Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_20-680_Official
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_20-680_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Nathan	Franzen	nathan@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_20-680_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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_20-680_Official
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Todd	Headlee	theadlee@dvigridsolutions.com	Dominion Voltage, Inc.	701 E. Cary Street Richmond, VA 23219	Electronic Service	No	OFF_SL_20-680_Official
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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
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_20-680_Official
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Amanda	Rome	amanda.rome@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 5  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_20-680_Official
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