



414 Nicollet Mall
Minneapolis, MN 55401

January 25, 2023

—Via Electronic Filing—

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

RE: ADVANCED DISTRIBUTION MANAGEMENT SYSTEM ANNUAL REPORT
INTEGRATED DISTRIBUTION SYSTEM PLAN & 2021 AND 2022 TRANSMISSION
COST RECOVERY RIDER
DOCKET NOS. E002/M-21-694 & E002/M-21-814

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Annual Report to the Minnesota Public Utilities Commission in the above-referenced dockets in compliance with Commission requirements specified in Docket Nos. E002/M-17-797, E002/M-19-666, and E002/M-19-721.

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 Madeline Lydon at madeline.k.lydon@xcelenergy.com or me at monsherra.s.blank@xcelenergy.com if you have any questions regarding this filing.

SINCERELY,

/s/

MONSHERRA S. BLANK
DIRECTOR, REGULATORY & STRATEGIC ANALYSIS

cc: Enclosures
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 XCEL ENERGY'S 2021
INTEGRATED DISTRIBUTION SYSTEM
PLAN AND REQUEST FOR CERTIFICATION
OF DISTRIBUTED INTELLIGENCE AND
THE RESILIENT MINNEAPOLIS PROJECT

DOCKET NO. E002/M-21-694

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF THE TRANSMISSION
COST RECOVERY RIDER REVENUE
REQUIREMENTS FOR 2021 AND 2022,
TRACKER TRUE-UP, AND REVISED
ADJUSTMENT FACTORS

DOCKET NO. E002/M-21-814

ANNUAL REPORT

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits this Annual Report to the Minnesota Public Utilities Commission in the above-referenced dockets, in compliance with Commission requirements specified in Docket Nos. E002/M-17-797, E002/M-19-666, and E002/M-19-721.¹

The Commission's May 19, 2020 Notice requires this Annual Report to be filed on January 25 of each year, and also instructs that it be filed in the Company's most recent Transmission Cost Recovery (TCR) Rider and the most recent Integrated Distribution Plan (IDP) dockets. The Order setting the reporting requirements

¹ See 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 set the filing requirements; 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.

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 January 24, 2020, January 25, 2021, and January 25, 2022 Compliance Reports.

COMPLIANCE REPORT

In this section, we describe the progress we have made to date and the current status of our ADMS implementation in various categories of work, including the relevant requirements from the Commission's September 27, 2019 Order in Docket No. E002/M-17-797.

I. PROJECT EXPENDITURES AND STATUS

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 2022 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 2022
State of Minnesota
(Millions)

	Prior to 2022	2022			
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	\$11.7	\$0.0	\$0.0	\$0.0	\$11.7
Implementation	\$13.5	\$0.1	\$0.3	\$0.0	\$13.9
Hardware	\$10.1	\$0.0	\$0.0	\$0.0	\$10.1
GIS	\$3.4	\$0.4	\$0.3	\$0.0	\$4.1
Sub-Total	\$48.8	\$0.5	\$0.6	\$0.0	\$50.0
AFUDC*	\$6.5	\$0.0	\$0.0	\$0.1	\$6.6
Total	\$55.3	\$0.5	\$0.6	\$0.1	\$56.6

** We note that AFUDC is not a capital expenditure; we include it here to portray a view of all project expenditures. Also, amounts are subject to rounding differences.*

Table 2: Total ADMS O&M Expenditures through 2022
State of Minnesota
(Millions)

	Prior to 2022	2022			
Category	All Labor + Non-Labor	Internal Labor	External Labor	Non-Labor	TOTAL
Software	\$0.4	\$0.1	\$0.3	\$0.1	\$0.9
Design	\$0.1	\$0.0	\$0.0	\$0.0	\$0.1
Testing	\$0.8	\$0.0	\$0.0	\$0.0	\$0.8
Implementation	\$0.8	\$0.8	\$0.1	\$0.0	\$1.7
Hardware	\$1.7	\$0.0	\$0.0	\$0.0	\$1.7
GIS	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$3.8	\$0.9	\$0.4	\$0.1	\$5.2

** Amounts are subject to rounding differences.*

See Attachment A to this Annual Report for the detailed costs in these categories by year.

B. ADMS Major Tasks Status

This section discusses the major ADMS implementation tasks completed to date, as required by Order Point No. 7b, as well as major tasks that are still in progress.

In 2021, the Company went live with ADMS in all three Minnesota Distribution Control Centers. In 2022, we brought all the substations and feeders that are part of

the Minnesota system into ADMS, based on current asset information in GIS. As a result, the full Minnesota primary distribution system is depicted in and can be operated from ADMS. The ADMS software functional requirements to enable the proof of functionality for FLISR and IVVO are also complete. We summarized the many activities relating to the design, build, configuration, and initial testing of the ADMS system leading up to go-live in our past Annual Reports.²

1. Complete Tasks

Software

The software category of the ADMS project includes the purchase, installation, and configuration of the software. We completed this in 2020.

Software Testing

We completed the software testing for the ADMS project in 2020.

Hardware

The hardware category of the ADMS project includes the purchase and installation of networking equipment and operator workstations in all three Distribution Control Centers. We completed this in 2021.

Device Testing

All project-related device testing was completed prior to 2022. In 2021, we completed all device testing required for the Control Center go-lives. This included field device verification, substation point-to-point testing, and substation and distribution displays at all the Control Centers. Going forward, as we continue to add field devices to the system, they will be configured and tested prior to being functional in ADMS.

Training, Technical Validation, and Business Readiness

All project-related training was completed prior to 2022. In 2021 we completed the operator and non-operator training, final technical validation, and all business readiness activities.

2. Tasks in Progress

ADMS Network Model Enhancement Activities

An important part of ADMS going live was the work we performed to have a valid network impedance model for a subset of the NSPM distribution system. With the

² See Xcel Energy Annual Report filings: Docket Nos. E002/M-21-694 and E002/M-21-814 (January 25, 2022); Docket Nos. E002/M-19-666, E002/M-19-721, and E002/M-20-680 (January 25, 2021); and Docket Nos. E002/M-17-797 and E002/M-19-666 (January 24, 2020).

three Minnesota Control Centers live and using ADMS, this is the only part of the ADMS initiative that will continue beyond 2022.

The ADMS deployment has been a gradual expansion of capabilities, and the ADMS Network Model Build effort can generally be separated into phases, with each having distinct network model requirements. The initial phase of the ADMS project was to meet the initial network model requirements for each of the three Control Centers, which operate the approximately 240 substations and 1,050 feeders in Minnesota. Each of the three Control Centers operates a separate geographic area of responsibility. Operators have used ADMS to control and monitor the system since it has gone live. This includes tasks such as responding to alarms and opening and closing feeder breakers. We expect to continue expanding the enablement of ADMS capabilities, which is part of the overall journey for integrating new devices to ADMS and leveraging its capabilities to enable additional functionality of ADMS, such as Fault Location Isolation and Service Restoration (FLISR).

For each Control Center go-live, a network model for that center's geographic area of responsibility (a subset of substation, field devices, and feeders the Company maintains) was required. This included building, testing, and validating substations and field devices, and the initial build of the feeders into ADMS. As part of this process, each of the substations and field devices underwent a testing and validation process that was conducted prior to go-live to ensure the monitoring and control capabilities in ADMS were functioning as expected.

We originally assumed that we would be bringing in the remaining substations and feeders that were not part of the initial Network Model Build over the course of several years after the Control Center go-lives. However, based on the efficiencies and maturation of completing these activities, we were able to bring all the substations and feeders that are part of the Minnesota system into ADMS as part of the Control Center go lives. We did this based on current asset information in GIS, and as a result, the full Minnesota primary distribution system is depicted and can be operated from ADMS.³

The final phase of the ADMS project will include additional data collection, validation, and testing effort of feeders on which we have not performed these activities previously, and that are necessary to support the additional functionality of ADMS, such as FLISR. However, based on the higher-than-expected GIS data quality in the Minnesota region, the data collection and validation effort was not as extensive as originally anticipated. Hence, the 2023-2027 budget forecast (GIS

³ Although not all the feeders will have undergone the same data validation process.

category, specifically) reflects this reduction in project scope. This work will be consistent with data improvements performed post-ADMS deployment in other Operating Companies, and generally includes back-office data cleanup, field verification of resulting data gaps, updating of the GIS network model based on results, building of a primary connectivity model in ADMS, and static model tuning to enable advanced functions such as FLISR. This effort will result in benefits to ADMS and other Company systems that rely on GIS network model data.

C. Additional Functional Requirements Installed

In compliance with Order Point 7c, we discuss the additional functional requirements installed to achieve ADMS functionality, including support for Advanced Metering Infrastructure (AMI), integration with the Field Area Network (FAN), and proof of functionality for FLISR and IVVO. In the summary below, we detail which installments of additional functional requirements have been completed and which are still in progress.

1. Completed Activities

Proof of Functionality – FLISR and IVVO

The ADMS software functional requirements to enable the proof of functionality for FLISR and IVVO are complete.⁴ This includes the hardware installed for the validation feeders (two feeders for FLISR and seven feeders for IVVO, with one overlapping both applications), confirming communications, and performing final tests. Final device integration, tuning, and testing of the operation of each application within ADMS was completed in 2022. Final device integration consisted of establishing communications paths to installed devices, backend upgrades to relevant intermediary software that facilitates integration with those devices, and representing and testing those devices in the ADMS model.⁵

For FLISR, final testing generally included operating feeders with FLISR enabled and validating that the expected fault location and ADMS generated switching plan are reasonable and appropriate. The final testing will help validate the functionality is working as expected for actual fault scenarios and will support the functionality as we expand it as part of the FLISR project. This work took place in parallel with ongoing FLISR expansion efforts, with continuing expansion to the installed device footprint across the Company's service area.

⁴ As discussed in Direct Testimony by Company Witness Ms. Kelly A. Bloch in the Company's pending multi-year rate case, the Company is planning to deploy FLISR in Minnesota beginning in 2022.

⁵ While installing IVVO was necessary for the ADMS verification process, the Company does not have plans to deploy IVVO in Minnesota.

2. *Ongoing Activities*

AMI and FAN

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 the Outage Management System (OMS) and, as part of the integration between OMS and ADMS, will provide updates in ADMS. 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 began in 2021, with implementation concurrent with AMI implementation, which began in early 2022 and is on track for completion by the end of 2024. 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.

D. Estimated Future Costs

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

1. *Capital Costs*

Because ADMS is being developed as a software system across the Xcel Energy enterprise system and will be implemented in each specific Operating Company on a different timeline, the ADMS costs are allocated to specific Operating Companies and jurisdictions. Table 3 shows the Minnesota allocated share of actual and budgeted costs for the project 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 2023-2027 –
State of Minnesota
(Millions)**

Category	Actuals through 2022	2023 through 2027 Budget			
		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	\$11.7	\$0.0	\$0.0	\$0.0	\$11.7
Implementation	\$13.9	\$0.0	\$0.0	\$0.0	\$13.9
Hardware	\$10.1	\$0.0	\$0.0	\$0.0	\$10.1
GIS	\$4.1	\$0.0	\$9.2	\$0.0	\$13.3
Sub-Total	\$50.0	\$0.0	\$9.2	\$0.0	\$59.2
AFUDC*	\$6.6	\$0.0	\$0.0	\$0.9	\$7.5
Total	\$56.6	\$0.0	\$9.2	\$0.9	\$66.7

** We note that AFUDC is not a capital expenditure; we include it here to portray a view of all project expenditures. Also, amounts are subject to rounding differences.*

The ADMS project budget as presented in our initial cost recovery request was \$69.1 million for Minnesota, which does not include AFUDC.⁶ Our current budgeted capital expenditures for the ADMS project are approximately \$59.2 million for Minnesota (not including AFUDC), a net decrease of \$9.9 million.

2. O&M Costs

Table 4 below presents the actual and budgeted O&M costs for 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.

⁶ *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). The total ADMS budget for the Xcel Energy enterprise, as presented in the Petition, was \$208.9 million, not including AFUDC.

**Table 4: Total ADMS O&M Budget for 2023-2027 –
State of Minnesota
(Millions)**

Category	Actuals through 2022	2023 through 2027 Budget			
		Internal Labor	External Labor	Non- Labor	Total
Software	\$0.9	\$2.5	\$2.3	\$2.0	\$7.7
Design	\$0.1	\$0.0	\$0.0	\$0.0	\$0.1
Testing	\$0.8	\$0.0	\$0.0	\$0.0	\$0.8
Implementation	\$1.7	\$0.0	\$0.0	\$0.0	\$1.7
Hardware	\$1.7	\$0.3	\$1.7	\$0.0	\$3.7
GIS	\$0.0	\$0.0	\$1.4	\$0.0	\$1.4
Total	\$5.2	\$2.8	\$5.4	\$2.0	\$15.4

** Amounts are subject to rounding differences.*

Now that ADMS is in service in Minnesota, the Company will incur approximately \$1.8 million per year in O&M costs on an ongoing basis for external software support and maintenance, hardware support, wide-area network costs, and internal labor supporting the application and technical infrastructure.

II. COST ALLOCATION, SERVICE LIFE, AND COST RECOVERY

We are currently recovering the majority of costs of the ADMS project through our TCR Rider.⁷ We submitted our most recent TCR Petition on November 24, 2021. In that Petition, we explained that all Operating Companies and jurisdictions will benefit from ADMS, and we described the way that the shared costs associated with the ADMS project are allocated to the Company and being treated for cost recovery purposes. We also discussed the service life of the ADMS project components, which consists of two asset categories: software and communications equipment. Software has a 5-year life and the ADMS communications equipment is currently classified as having a 10-year average service life.

CONCLUSION

Since the first Control Center go-live in April 2021, the ADMS system has performed very well and has been extremely stable. The Control Center has continued to provide positive feedback about ADMS performance. Features such as Fault Location Prediction have been utilized by engineers to assist with fault investigation, and in several instances, the ADMS has predicted the exact span of cable or conductor that

⁷ See further explanation of the cost recovery of ADMS project expenditures in the Company's TCR Petition in Docket No. E002/M-21-814 (November 24, 2021).

experienced the fault, exceeding expectations. As the AMI rollout continues, near real-time power information will be provided to ADMS. A benefit this will provide to the Company and our customers is more timely and accurate information about outages and restoration confirmation notifications, which will lead to optimized restoration efforts.

ADMS is a foundational tool for a modern grid. It is a critical part of the overall package of tools necessary to deliver reliability and energy efficiency measures, and to enable the integration of increasing quantities of distributed energy resources without compromising reliability and power quality.

Dated: January 25, 2023

Northern States Power Company

Capital

Internal Labor ADMS Capital Expenditures – State of Minnesota																			
	Actuals											Forecast							TOTAL
Internal	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	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	663,490	-	\$ 3,199,158	-	-	-	-	-	\$ -	\$ 3,199,158	
Implementation	-	-	-	89,885	154,690	582,558	841,363	1,111,747	663,490	66,440	\$ 3,510,172	-	-	-	-	-	\$ -	\$ 3,510,172	
Hardware	-	-	-	-	8,929	156,149	299,500	221,347	21,494	2,942	\$ 710,361	-	-	-	-	-	\$ -	\$ 710,361	
GIS	-	-	-	-	-	12,638	22,956	299,179	447,671	387,664	\$ 1,170,109	-	-	-	-	-	\$ -	\$ 1,170,109	
Internal Total:	-	1,441	87,488	449,425	782,377	1,333,903	2,005,181	2,744,021	1,796,146	457,045	\$ 9,657,028	-	-	-	-	-	\$ -	\$ 9,657,028	

External Labor ADMS Capital Expenditures – State of Minnesota																		
	Actuals											Forecast						TOTAL
External	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	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	989,019	-	\$ 8,338,965	-	-	-	-	-	\$ -	\$ 8,338,965
Implementation	-	-	-	438,804	727,894	2,714,745	2,464,945	2,170,257	989,019	326,110	\$ 9,831,774	-	-	-	-	-	\$ -	\$ 9,831,774
Hardware	-	-	-	-	31,869	234,996	1,568,534	345,903	173,976	(5,058)	\$ 2,350,221	-	-	-	-	-	\$ -	\$ 2,350,221
GIS	-	-	-	-	-	356,748	916,892	684,496	533,275	324,011	\$ 2,815,422	1,308,173	3,412,526	4,510,863	-	-	\$ 9,231,562	\$ 12,046,983
External Total:	65,799	640,364	1,240,409	2,194,020	3,671,339	6,021,235	7,415,315	5,370,912	2,685,289	645,063	\$ 29,949,744	1,308,173	3,412,526	4,510,863	-	-	\$ 9,231,562	\$ 39,181,306

Non-Labor ADMS Capital Expenditures – State of Minnesota																		
	Actuals												Forecast					TOTAL
Non-Labor	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	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	45,784	-	\$ 206,275	-	-	-	-	-	\$ -	\$ 206,275
Implementation	-	-	-	38,708	36,811	137,639	142,317	160,491	45,784	30,617	\$ 592,367	-	-	-	-	-	\$ -	\$ 592,367
Hardware	-	-	-	-	5,383,297	525,246	891,400	198,891	60,995	118	\$ 7,059,947	-	-	-	-	-	\$ -	\$ 7,059,947
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	919,037	96,722	\$ 6,595,239	167,358	289,751	407,906	-	-	\$ 865,015	\$ 7,460,254
GIS	-	-	-	-	-	8,350	85,211	10,293	15,716	3,630	\$ 123,200	-	-	-	-	-	\$ -	\$ 123,200
Non-Labor Total:	907	49,082	184,508	241,996	7,939,771	1,823,507	2,793,751	2,724,756	1,087,316	131,085	\$ 16,976,677	167,358	289,751	407,906	-	-	\$ 865,015	\$ 17,841,692

Total ADMS Capital Expenditures – State of Minnesota																		
	Actuals											Forecast						TOTAL
Capital Total	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	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	1,698,293	-	\$ 11,744,399	-	-	-	-	-	\$ -	\$ 11,744,399
Implementation	-	-	-	567,397	919,395	3,434,942	3,448,624	3,442,495	1,698,293	423,167	\$ 13,934,313	-	-	-	-	-	\$ -	\$ 13,934,313
Hardware	-	-	-	-	5,424,096	916,391	2,759,434	766,141	256,466	(1,999)	\$ 10,120,530	-	-	-	-	-	\$ -	\$ 10,120,530
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	919,037	96,722	\$ 6,595,239	167,358	289,751	407,906	-	-	\$ 865,015	\$ 7,460,254
GIS	-	-	-	-	-	377,737	1,025,058	993,968	996,662	715,305	\$ 4,108,730	1,308,173	3,412,526	4,510,863	-	-	\$ 9,231,562	\$ 13,340,291
Capital Total	66,705	690,887	1,512,404	2,885,441	12,393,487	9,178,644	12,214,247	10,839,689	5,568,751	1,233,194	\$ 56,583,449	1,475,531	3,702,277	4,918,768	-	-	\$ 10,096,577	\$ 66,680,026

O&M

Internal Labor ADMS O&M Expenditures – State of Minnesota																				
	Actuals												Forecast							TOTAL
Internal	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date		2023	2024	2025	2026	2027	Forecast Total		
Software	-	-	-	-	-	-	-	37,201	69,973	102,761	\$ 209,936		602,862	538,755	556,188	635,716	238,112	\$ 2,571,633	\$ 2,781,569	
Design	-	-	-	-	-	-	-	-	-	-	\$ -		-	-	-	-	-	\$ -	\$ -	
Testing	-	-	-	-	-	2,028	10,866	53,719	303,704	-	\$ 370,316		-	-	-	-	-	\$ -	\$ 370,316	
Implementation	-	-	-	-	-	2,028	10,866	53,719	303,704	826,178	\$ 1,196,494		-	-	-	-	-	\$ -	\$ 1,196,494	
Hardware	-	-	-	-	-	-	-	21,568	22,038	-	\$ 43,606		55,417	50,075	48,662	50,154	50,154	\$ 254,463	\$ 298,069	
GIS	-	-	-	-	-	-	-	-	-	-	\$ -		-	-	-	-	-	\$ -	\$ -	
Internal Total:	-	-	-	-	-	4,055	21,731	166,207	699,419	928,939	\$ 1,820,352		658,279	588,830	604,850	685,871	288,267	\$ 2,826,097	\$ 4,646,449	

External Labor ADMS O&M Expenditures – State of Minnesota																			
	Actuals											Forecast							TOTAL
External	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	Forecast Total		
Software	-	-	-	-	-	-	-	29,193	-	261,536	\$ 290,729	456,682	451,973	451,123	451,123	451,123	\$ 2,262,023	\$ 2,552,751	
Design	25,288	50,027	8,734	-	-	-	-	-	-	-	\$ 84,049	-	-	-	-	-	\$ -	\$ 84,049	
Testing	-	-	-	-	-	5,386	17,816	88,044	250,104	-	\$ 361,350	-	-	-	-	-	\$ -	\$ 361,350	
Implementation	-	-	-	-	-	5,386	17,816	88,044	250,104	121,114	\$ 482,464	-	-	-	-	-	\$ -	\$ 482,464	
Hardware	-	-	-	-	-	-	-	24,547	20,250	2,504	\$ 47,301	333,394	333,394	333,394	333,394	333,394	\$ 1,666,970	\$ 1,714,271	
GIS	-	-	-	-	-	-	-	-	-	-	\$ -	332,920	332,920	332,920	228,134	228,134	\$ 1,455,030	\$ 1,455,030	
External Total:	25,288	50,027	8,734	-	-	10,772	35,632	229,828	520,458	385,154	\$ 1,265,893	1,122,996	1,118,287	1,117,437	1,012,651	1,012,651	\$ 5,384,022	\$ 6,649,916	

Non-Labor ADMS O&M Expenditures – State of Minnesota																				
	Actuals												Forecast							TOTAL
Non-Labor	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date		2023	2024	2025	2026	2027	Non-Labor Total		
Software	-	-	-	-	-	-	209,278	28,143	37,977	138,485	\$ 413,883		392,241	392,241	392,241	392,241	392,241	\$ 1,961,204	\$ 2,375,087	
Design	-	-	1,955	-	-	-	-	-	-	-	\$ 1,955		-	-	-	-	-	\$ -	\$ 1,955	
Testing	-	-	-	-	-	1,342	5,003	4,442	2,524	-	\$ 13,311		-	-	-	-	-	\$ -	\$ 13,311	
Implementation	-	-	-	-	-	1,342	40,728	4,442	2,524	1,108	\$ 50,144		-	-	-	-	-	\$ -	\$ 50,144	
Hardware	-	-	-	-	-	28,730	757,309	797,034	66,721	4,747	\$ 1,654,541		-	-	-	-	-	\$ -	\$ 1,654,541	
GIS	-	-	-	-	-	-	-	-	-	-	\$ -		-	-	-	-	-	\$ -	\$ -	
Non-Labor Total:	-	-	1,955	-	-	31,413	1,012,318	834,061	109,747	144,340	\$ 2,133,835		392,241	392,241	392,241	392,241	392,241	\$ 1,961,204	\$ 4,095,039	

Total ADMS O&M Expenditures – State of Minnesota																		
	Actuals											Forecast						TOTAL
O&M Total	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Actuals to Date	2023	2024	2025	2026	2027	Forecast Total	
Software	-	-	-	-	-	-	209,278	94,537	107,951	502,782	\$ 914,548	1,451,784	1,382,969	1,399,551	1,479,080	1,081,476	\$ 6,794,860	\$ 7,709,408
Design	25,288	50,027	10,690	-	-	-	-	-	-	-	\$ 86,004	-	-	-	-	-	\$ -	\$ 86,004
Testing	-	-	-	-	-	8,755	33,684	146,206	556,332	-	\$ 744,977	-	-	-	-	-	\$ -	\$ 744,977
Implementation	-	-	-	-	-	8,755	69,410	146,206	556,332	948,400	\$ 1,729,102	-	-	-	-	-	\$ -	\$ 1,729,102
Hardware	-	-	-	-	-	28,730	757,309	843,148	109,010	7,251	\$ 1,745,449	388,811	383,469	382,056	383,548	383,548	\$ 1,921,433	\$ 3,666,882
GIS	-	-	-	-	-	-	-	-	-	-	\$ -	332,920	332,920	332,920	228,134	228,134	\$ 1,455,030	\$ 1,455,030
O&M Total	25,288	50,027	10,690	-	-	46,241	1,069,681	1,230,096	1,329,625	1,458,433	\$ 5,220,080	2,173,516	2,099,358	2,114,528	2,090,762	1,693,158	\$ 10,171,323	\$ 15,391,403

CERTIFICATE OF SERVICE

I, Amber Hedlund, 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-21-694
E002/M-21-814

Dated this 25th day of January 2023

/s/

Amber Hedlund

[illegible]

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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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_21-694_21-694
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_21-694_21-694
Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	OFF_SL_21-694_21-694
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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_21-694_21-694
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_21-694_21-694
Hannah	Polikov	hpolikov@aee.net	Advanced Energy Economy Institute	1000 Vermont Ave, Third Floor Washington, DC 20005	Electronic Service	No	OFF_SL_21-694_21-694
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_21-694_21-694

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kenneth	Rance	krance@sabathani.org	Sabathani Community Center	310 East 38th St Rm #120 Minneapolis, MN 55409	Electronic Service	No	OFF_SL_21-694_21-694
Mark	Rathbun	mrathbun@greenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_21-694_21-694
Michael	Reinertson	michael.reinertson@avanteenergy.com	Avant Energy	220 S. Sixth St. Ste 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_21-694_21-694
John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_21-694_21-694
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_21-694_21-694
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_21-694_21-694
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_21-694_21-694
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Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227 Madison, SD 57042	Electronic Service	No	OFF_SL_21-694_21-694
Joseph L	Sathe	jsathe@kennedy-graven.com	Kennedy & Graven, Chartered	150 S 5th St Ste 700 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_21-694_21-694

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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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_21-694_21-694

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Roger	Warehime	roger.warehime@owatonna-utilities.com	Owatonna Municipal Public Utilities	208 S Walnut Ave PO BOX 800 Owatonna, MN 55060	Electronic Service	No	OFF_SL_21-694_21-694
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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[illegible]

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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_21-814_M-21-814
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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LORI	CLOBES	lclobes@mienergy.coop	MiEnergy Cooperative	31110 COOPERATIVE WAY PO BOX 626 RUSHFORD, MN 55971	Electronic Service	No	OFF_SL_21-814_M-21-814
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_21-814_M-21-814
Douglas M.	Carnival	dmc@mcgrannshea.com	McGrann Shea Carnival Straughn & Lamb	N/A	Electronic Service	No	OFF_SL_21-814_M-21-814
Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.	12700 West Dodge Road PO Box 2047 Omaha, NE 68103-2047	Electronic Service	No	OFF_SL_21-814_M-21-814
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St. Louis, MO 63119-2044	Electronic Service	No	OFF_SL_21-814_M-21-814
Kenneth A.	Colburn	kcolburn@symbioticstrategies.com	Symbiotic Strategies, LLC	26 Winton Road Meredith, NH 32535413	Electronic Service	No	OFF_SL_21-814_M-21-814
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_21-814_M-21-814
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Brooke	Cooper	bcooper@allte.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	OFF_SL_21-814_M-21-814

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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_21-814_M-21-814
James	Denniston	james.r.denniston@xcenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, 401-8 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-814_M-21-814
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_21-814_M-21-814
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_21-814_M-21-814
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_21-814_M-21-814
Brian	Edstrom	briane@cubminnesota.org	Citizens Utility Board of Minnesota	332 Minnesota St Ste W1360 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_21-814_M-21-814
Kristen	Eide Tollefson	healingsystems69@gmail.com	R-CURE	28477 N Lake Ave Frontenac, MN 55026-1044	Electronic Service	No	OFF_SL_21-814_M-21-814

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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Tony	Hainault	anthony.hainault@co.hennepin.mn.us	Hennepin County DES	701 4th Ave S Ste 700 Minneapolis, MN 55415-1842	Paper Service	No	OFF_SL_21-814_M-21-814
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Brian	Krambeer	bkrambeer@mienergy.coop	MiEnergy Cooperative	PO Box 626 31110 Cooperative Way Rushford, MN 55971	Electronic Service	No	OFF_SL_21-814_M-21-814
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