



414 Nicollet Mall
Minneapolis, MN 55401

January 25, 2022

—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 AND REQUEST FOR CERTIFICATION
OF DISTRIBUTED INTELLIGENCE AND THE RESILIENT MINNEAPOLIS PROJECT
DOCKET NO. E002/M-21-694

2021 AND 2022 TRANSMISSION COST RECOVERY RIDER
DOCKET NO. 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 me at bria.e.shea@xcelenergy.com or (612) 330-6064 or Amber Hedlund at amber.r.hedlund@xcelenergy.com or (612) 337-2268 if you have any questions regarding this filing.

SINCERELY,

/s/

BRIA E. SHEA
DIRECTOR, REGULATORY & STRATEGIC ANALYSIS

c: 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
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-21-694

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 set the filing date of this Annual Report as January 25th each year, and also 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. The Order setting the reporting requirements requires the Company to make an annual Advanced Distribution Management System (ADMS) report that includes:

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.

- 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 and January 25, 2021 Compliance Reports.

COMPLIANCE REPORT

In this section, we describe the progress we made in 2021 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 2021 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 2021
State of Minnesota
(Millions)

	Prior to 2021	2021			
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	\$10.0	\$0.7	\$1.0	\$0.0	\$11.7
Implementation	\$11.8	\$0.7	\$1.0	\$0.0	\$13.5
Hardware	\$9.9	\$0.0	\$0.2	\$0.1	\$10.1
GIS	\$2.4	\$0.4	\$0.5	\$0.0	\$3.4
Sub-Total	\$44.2	\$1.8	\$2.7	\$0.1	\$48.8
AFUDC*	\$5.6	\$0.0	\$0.0	\$0.9	\$6.5
Total	\$49.8	\$1.8	\$2.7	\$1.0	\$55.3

** 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 2021
State of Minnesota
(Millions)

	Prior to 2021	2021			
Category	All Labor + Non-Labor	Internal Labor	External Labor	Non-Labor	TOTAL
Software	\$0.3	\$0.1	\$0.0	\$0.0	\$0.4
Design	\$0.1	\$0.0	\$0.0	\$0.0	\$0.1
Testing	\$0.2	\$0.3	\$0.3	\$0.0	\$0.8
Implementation	\$0.2	\$0.3	\$0.3	\$0.0	\$0.8
Hardware	\$1.6	\$0.0	\$0.0	\$0.1	\$1.7
GIS	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$2.4	\$0.7	\$0.6	\$0.1	\$3.8

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

B. ADMS Major Tasks Status

In 2021, the Company made additional progress on the ADMS implementation and went live with ADMS in all three Minnesota Control Centers. Prior to 2021, we completed many activities relating to the design, build, configuration and initial testing

of the ADMS system as described in our past Annual Reports.² This section discusses the major ADMS implementation tasks completed in 2021, as required by Order Point No. 7b, as well as the overall completion status of those major tasks.

1. Software, Software Testing, and Hardware

Software – 100% Complete

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

Software Testing – 100% Complete

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

Hardware – 100% Complete

The hardware category of the ADMS project includes the purchase and installation of networking equipment and operator workstations in all three Distribution Control Centers. In 2021, we completed the final purchases and completed the set-up of the operator workstations in our St. Paul Control Center. The other two Control Centers (Metro West and Outstate) were completed in 2020.

2. Implementation-Related Tasks

In 2021, we completed the “go-live” portion of the ADMS initiative for all three Minnesota Control Centers. During the lead up to each go-live, significant training and business readiness work occurred. That work included holding training sessions for over 60 participants, in-depth workshops to discuss how the transition to ADMS will affect relevant Control Center operations such as alarm management, tagging and outage management, and developing ‘day one’ checklists for Control Center staff to follow to validate performance. These efforts all proved successful, with very positive feedback from the NSP training participants – also helping with a seamless transition to ADMS.

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 began using the ADMS system as designed for monitoring and control of substations, field devices, and feeders.

Since the first Control Center go-live in April 2021, the system has performed very

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

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 experienced the fault, exceeding expectations.

a. ADMS Network Model Build

An important part of ADMS going live has been the work we have done and that we have remaining to have a valid network impedance model for at least a subset of the NSPM distribution system. With the three Minnesota Control Centers live and using ADMS, this is the only part of the ADMS initiative that will continue beyond 2021.

The ADMS deployment has been a gradual expansion of capabilities, and the ADMS Network Model Build effort can generally be separated into phases that each have distinct 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 have a separate geographic area of responsibility that they operate. As the Control Centers have gone live, operators have used ADMS to control and monitor the system. This includes tasks such as responding to alarms and opening and closing feeder breakers. After the initial 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 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 A final phase of the ADMS project will include a 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. Based on refinement of our data collection strategy and plans moving forward, the 2022-2026 budget forecast (GIS category, specifically) will support these activities. As shown in Table 3 below, the budget associated with this refined data collection strategy is approximately \$10.5 million, including contingency. 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 all other Company systems that rely on GIS network model data.

b. Device Testing

In 2021 we completed all device testing required for the Control Center go-lives. We tested field device communication with ADMS prior to promotion to production environment. During 2021, we completed all device testing actions. This included field device verification, substation point-to-point testing, and substation and distribution displays at all of 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.

c. Other Implementation Tasks

In 2021 we completed the operator and non-operator training, final technical validation, and all business readiness activities. The training included five instructor led courses:

1. ADMS Foundations
2. Switching Plans and Simulations / SCADA
3. Summaries, Alarms and Trending
4. Load Flow and State Estimation
5. Fault Location Identification and Service Restoration

The above courses were delivered in 44 classes totaling over 5,000 hours of in-person training including over 2,000 pages of participant course guide content.

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

Training also included the four computer based training courses listed below:

1. ADMS Terms and Concepts
2. Power System Fundamentals
3. Supervisory Substation Devices
4. Supervisory Line Devices

The feedback we received on the overall training was very favorable. Notably, training participants indicated the training materials were useful and that they felt confident and prepared for the go-lives.

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 Field Area Network (FAN), and proof of functionality for advanced FLISR and Integrated Volt Var Optimization (IVVO) modules).

1. 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, 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.

The FAN will provide two-way communication between field devices and ADMS. Since the deployment of ADMS precedes AMI, the Company has been using public

cellular Long-Term Evolution (LTE) technology to provide two-way communications from field devices to ADMS.

2. *Proof of Functionality – FLISR and IVVO*

The ADMS software functional requirements to enable the proof of functionality for FLISR and IVVO are in progress.⁴ This includes the hardware installed for the validation feeders (two FLISR and seven IVVO, with one overlapping both applications), confirming communications and performing final tests. Remaining work consists of final device integration, tuning and testing of the automatic operation of each application within ADMS. We expect to complete this final testing in 2022. Final device integration will consist 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.

For FLISR, final testing will generally include operating feeders with Open Loop FLISR enabled and validating that the expected fault location and ADMS generated switching plan are reasonable and appropriate. Once the software has demonstrated appropriate responses to several real world fault scenarios, areas will be gradually transitioned to Closed Loop (automatic) mode, allowing the ADMS to execute switching steps without operator oversight. This operating mode will be closely monitored for several real world fault scenarios as well. Similarly, once ADMS has demonstrated appropriate response to these scenarios, the Closed Loop operating footprint will continue to expand. This work will take place in parallel with ongoing FLISR expansion efforts, with continuing expansion to the installed device footprint across the Company's service area.

For IVVO, final tuning and testing will generally begin once final device integration is completed in 2022. At that point, IVVO will have the relevant telemetry that it requires to allow for tuning utilizing real time measurements. Once this tuning work is completed, IVVO will be transitioned to Closed Loop mode and will be allowed to make decisions without engineering or operator approval. This operation will be closely monitored to ensure the ADMS is making appropriate decisions based on field conditions. Once that is established, IVVO will be considered fully tested in that 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. Ms. Bloch also explains that the Company is not planning to in-service any portion of IVVO during the term of the current rate case. *See* Docket No. E002/GR-21-630 (October 25, 2021).

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 2022-2026 –
State of Minnesota
(Millions)**

Category	Actuals through 2021	2022 through 2026 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	\$13.5	\$0.0	\$0.5	\$0.0	\$14.0
Hardware	\$10.1	\$0.0	\$0.0	\$0.5	\$10.6
GIS	\$3.4	\$0.0	\$10.5	\$0.0	\$13.9
Sub-Total	\$48.8	\$0.0	\$11.0	\$0.5	\$60.3
AFUDC*	\$6.5	\$0.0	\$0.0	\$1.3	\$7.8
Total	\$55.3	\$0.0	\$11.0	\$1.8	\$68.1

* 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 request⁵ was \$69.1

⁵ 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).

million for Minnesota, which does not include AFUDC.⁶ As also outlined in our November 2021 TCR Rider Petition and detailed in Attachment A, our current budgeted capital expenditures for the ADMS project are approximately \$60.3 million for Minnesota (not including AFUDC). The net decrease of \$8.8 million capital estimate is the result of the following changes, by major category.

Labor – Our labor estimate has *increased* by \$3.3 million, primarily due to:

- Schedule delivery delays encountered in all three Operating Company deployments. As the schedule length increased, we incurred additional labor cost from several areas including Schneider Electric, internal labor, and contracted labor.
- Creation of additional virtual training materials due to COVID-19 halting in-person classroom training.
- Additional resources required to perform software testing, field device testing and implementation activities.
- Key vendor contracts exercising contractual provisions to increase bill rates for cost-of-living adjustments (COLA), as specified in the Master Services Agreement.
- ADMS software scope expansion to provide additional functionality.

GIS Data Collection – Our estimate for the GIS asset data work *decreased* by \$17.1 million due to a reduced field data collection scope.

Hardware – Our estimate for hardware *increased* by \$5.0 million. This is primarily due to expansion of the scope in Minnesota to implement the ADMS system in two additional Distribution Control Centers, and higher costs associated with meeting new security standards and requirements.

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 The total ADMS budget for the Xcel Energy enterprise is \$208.9 million, not including AFUDC.

**Table 4: Total ADMS O&M Budget for 2021-2025 –
State of Minnesota
(Millions)**

Category	Actuals through 2021	2022 through 2026 Budget			
		Internal Labor	External Labor	Non- Labor	Total
Software	\$0.4	\$1.8	\$1.7	\$1.9	\$5.8
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	\$0.0	\$0.0	\$0.0	\$0.8
Hardware	\$1.7	\$0.2	\$0.0	\$2.8	\$4.7
GIS	\$0.0	\$0.0	\$1.7	\$0.0	\$1.7
Total	\$3.8	\$2.0	\$3.4	\$4.7	\$13.9

Now that ADMS is in service in Minnesota, the Company will incur approximately \$1.7 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 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.

⁷ See further explanation of the cost recovery of ADMS project expenditures in the Company's TCR Petition in Docket No. E002/GR-21-630 (November 24, 2021).

CONCLUSION

The Company conducted an extensive process to select an ADMS vendor that would deliver the overall business requirements that are necessary to provide the capabilities required to operate a modern electric distribution grid. ADMS is a foundational tool for a modern grid and is a critical part of the overall package of tools necessary to deliver reliability, energy efficiency measures, and to enable the integration of increasing quantities of distributed energy resources without compromising reliability and power quality.

Capital

Internal Labor ADMS Capital Expenditures – State of Minnesota

Internal	Actuals																	TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date		2022	2023	2024	2025	2026	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	\$ 3,443,733		-	-	-	-	-	\$ -	\$ 3,443,733
Hardware	-	-	-	-	-	8,929	299,500	221,347	21,494	\$ 707,420		-	-	-	-	-	\$ -	\$ 707,420
GIS	-	-	-	-	-	12,638	22,956	299,179	447,671	\$ 782,444		-	-	-	-	-	\$ -	\$ 782,444
Internal Total:	-	1,441	87,488	449,425	782,377	1,333,903	2,005,181	2,744,021	1,796,146	\$ 9,199,982		-	-	-	-	-	\$ -	\$ 9,199,982

External Labor ADMS Capital Expenditures – State of Minnesota

External	Actuals																	TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date		2022	2023	2024	2025	2026	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	\$ 9,505,663	434,781	-	-	-	-	-	\$ 434,781	\$ 9,940,445
Hardware	-	-	-	-	31,869	234,996	1,568,534	345,903	173,976	\$ 2,355,279		-	-	-	-	-	\$ -	\$ 2,355,279
GIS	-	-	-	-	-	356,748	916,892	684,496	533,275	\$ 2,491,411		1,286,642	2,615,736	2,540,821	4,075,008	-	\$ 10,518,207	\$ 13,009,618
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	\$ 29,304,681		1,721,423	2,615,736	2,540,821	4,075,008	-	\$ 10,952,988	\$ 40,257,669

Non-Labor ADMS Capital Expenditures – State of Minnesota

Non-Labor	Actuals																	TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date		2022	2023	2024	2025	2026	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	\$ 561,750		-	-	-	-	-	\$ -	\$ 561,750
Hardware	-	-	-	-	5,383,297	525,246	891,400	198,891	60,995	\$ 7,059,830		511,901	-	-	-	-	\$ 511,901	\$ 7,571,731
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	919,037	\$ 6,498,517	190,075	251,814	400,126	487,353	-	-	\$ 1,329,367	\$ 7,827,884
GIS	-	-	-	-	-	8,350	85,211	10,293	15,716	\$ 119,570		-	-	-	-	-	\$ -	\$ 119,570
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	\$ 16,845,592		701,976	251,814	400,126	487,353	-	\$ 1,841,268	\$ 18,686,861

Total ADMS Capital Expenditures – State of Minnesota

Capital Total	Actuals																	TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date		2022	2023	2024	2025	2026	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	\$ 13,511,146	434,781	-	-	-	-	-	\$ 434,781	\$ 13,945,928
Hardware	-	-	-	-	5,424,096	916,391	2,759,434	766,141	256,466	\$ 10,122,528	511,901	-	-	-	-	-	\$ 511,901	\$ 10,634,429
AFUDC	291	26,401	94,874	203,278	503,663	1,002,319	1,554,064	2,194,590	919,037	\$ 6,498,517	190,075	251,814	400,126	487,353	-	-	\$ 1,329,367	\$ 7,827,884
GIS	-	-	-	-	-	377,737	1,025,058	993,968	996,662	\$ 3,393,425	1,286,642	2,615,736	2,540,821	4,075,008	-	-	\$ 10,518,207	\$ 13,911,632
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	\$ 55,350,255		2,423,399	2,867,550	2,940,947	4,562,361	-	\$ 12,794,257	\$ 68,144,512

O&M

Internal Labor ADMS O&M Expenditures – State of Minnesota

Internal	<u>Actuals</u>																TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date	2022	2023	2024	2025	2026	Forecast Total	
Software	-	-	-	-	-	-	-	37,201	69,973	\$ 107,175	407,883	329,438	299,644	335,726	422,149	\$ 1,794,840	\$ 1,902,015
Design	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Testing	-	-	-	-	-	2,028	10,866	53,719	303,704	\$ 370,316	-	-	-	-	-	\$ -	\$ 370,316
Implementation	-	-	-	-	-	2,028	10,866	53,719	303,704	\$ 370,316	-	-	-	-	-	\$ -	\$ 370,316
Hardware	-	-	-	-	-	-	-	21,568	22,038	\$ 43,606	53,558	55,417	50,075	48,662	50,154	\$ 257,867	\$ 301,473
GIS	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Internal Total:	-	-	-	-	-	4,055	21,731	166,207	699,419	\$ 891,413	461,440	384,855	349,719	384,388	472,303	\$ 2,052,707	\$ 2,944,120

External Labor ADMS O&M Expenditures – State of Minnesota

External	<u>Actuals</u>																TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date	2022	2023	2024	2025	2026	Forecast Total	
Software	-	-	-	-	-	-	-	29,193	-	\$ 29,193	398,160	329,666	301,415	318,945	396,412	\$ 1,744,598	\$ 1,773,791
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	\$ 361,350	-	-	-	-	-	\$ -	\$ 361,350
Hardware	-	-	-	-	-	-	-	24,547	20,250	\$ 44,797	-	-	-	-	-	\$ -	\$ 44,797
GIS	-	-	-	-	-	-	-	-	-	\$ -	332,920	332,920	332,920	332,920	332,920	\$ 1,664,602	\$ 1,664,602
External Total:	25,288	50,027	8,734	-	-	10,772	35,632	229,828	520,458	\$ 880,739	731,080	662,586	634,336	651,865	729,332	\$ 3,409,199	\$ 4,289,939

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

Non-Labor	<u>Actuals</u>																TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date	2022	2023	2024	2025	2026	Non-Labor Total	
Software	-	-	-	-	-	-	209,278	28,143	37,977	\$ 275,398	323,247	392,241	392,241	392,241	392,241	\$ 1,892,210	\$ 2,167,608
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	\$ 49,037	-	-	-	-	-	\$ -	\$ 49,037
Hardware	-	-	-	-	-	28,730	757,309	797,034	66,721	\$ 1,649,794	603,391	577,920	542,261	516,790	516,790	\$ 2,757,152	\$ 4,406,946
GIS	-	-	-	-	-	-	-	-	-	\$ -	-	-	-	-	-	\$ -	\$ -
Non-Labor Total:	-	-	1,955	-	-	31,413	1,012,318	834,061	109,747	\$ 1,989,495	926,638	970,161	934,501	909,031	909,031	\$ 4,649,362	\$ 6,638,857

Total ADMS O&M Expenditures – State of Minnesota

O&M Total	<u>Actuals</u>																TOTAL
	2013	2014	2015	2016	2017	2018	2019	2020	2021	Actuals to Date	2022	2023	2024	2025	2026	Forecast Total	
Software	-	-	-	-	-	-	209,278	94,537	107,951	\$ 411,766	1,129,290	1,051,344	993,301	1,046,912	1,210,802	\$ 5,431,648	\$ 5,843,414
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	\$ 780,703	-	-	-	-	-	\$ -	\$ 780,703
Hardware	-	-	-	-	-	28,730	757,309	843,148	109,010	\$ 1,738,197	656,949	633,337	592,336	565,452	566,944	\$ 3,015,018	\$ 4,753,215
GIS	-	-	-	-	-	-	-	-	-	\$ -	332,920	332,920	332,920	332,920	332,920	\$ 1,664,602	\$ 1,664,602
O&M Total	25,288	50,027	10,690	-	-	46,241	1,069,681	1,230,096	1,329,625	\$ 3,761,647	2,119,159	2,017,602	1,918,557	1,945,284	2,110,666	\$ 10,111,268	\$ 13,872,915

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 Nos. E002/M-21-694
E002/M-21-814

Dated this 25th day of January 2022

/s/

Crystal Syvertsen
Regulatory Administrator

[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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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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_21-694_M-21-694
David	O'Brien	david.obrien@navigant.com	Navigant Consulting	77 South Bedford St Ste 400 Burlington, MA 01803	Electronic Service	No	OFF_SL_21-694_M-21-694
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_M-21-694
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_21-694_M-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_M-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_M-21-694
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_21-694_M-21-694

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Kenneth	Rance	krance@sabathani.org	Sabathani Community Center	310 East 38th St Rm #120 Minneapolis, MN 55409	Electronic Service	No	OFF_SL_21-694_M-21-694
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John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_21-694_M-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_M-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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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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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
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Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_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	bkramber@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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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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