

November 16, 2022

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7<sup>th</sup> Place East, Suite 350
St. Paul, Minnesota 55101-2147

RE: Joint Recommendation of the Minnesota Department of Commerce, Division of Energy Resources, the Office of the Attorney General – Residential Utilities Division, and the Citizens Utility Board of Minnesota

Docket Nos. E002/M-20-680 and E002/M-21-814

Dear Mr. Seuffert:

Attached is the Joint Recommendation of the Minnesota Department of Commerce, Division of Energy Resources (Department), the Office of the Attorney General – Residential Utilities Division (OAG-RUD), and the Citizens Utility Board of Minnesota (CUB) (together, Joint Commenters) in the following matter:

In the Matter of Northern States Power Company d/b/a Xcel Energy's Petition for Approval of the Transmission Cost Recovery Rider Revenue Requirements for 2021 and 2022, Tracker Trueup and Revised Adjustment Factors

The Joint Commenters are available to answer any questions the Minnesota Public Utilities Commission may have.

Sincerely,

/s/ MATTHEW LANDI Rates Analyst Department /s/ PETER SCHOLTZ
Asst. Attorney General
OAG-RUD

/s/ ANNIE LEVENSON-FALK Executive Director CUB

ML/ja Attachment



# **Before the Minnesota Public Utilities Commission**

# Joint Recommendation of the Minnesota Department of Commerce Division of Energy Resources and Joint Commenters

Docket Nos. E002/M-20-680 and E002/M-21-814

#### I. INTRODUCTION

On November 24, 2021, Xcel Energy (Xcel, or the Company) filed its 2021-2022 Transmission Cost Recovery (TCR) Rider petition in which the Company seeks approval of its 2021-2022 TCR Rider revenue requirements and resulting rate classes' adjustment factors (Xcel's 2021-2022 TCR Rider petition).

Xcel's 2021-2022 TCR Rider petition proposed a 2022 TCR Rider revenue requirement of approximately \$104.5 million, an increase of approximately \$22.6 million over 2020 revenue requirements of approximately \$81.9 million. Xcel's proposed revenue requirements and the resulting adjustment factors were calculated with an assumed implementation date of June 1, 2022, and the Company is proposing to recalculate the adjustment factors for implementation in compliance based on the timing of a Commission decision.

Through Xcel's 2021-2022 TCR Rider, the Company is proposing to recover the following:<sup>2</sup>

- Costs associated with distribution-grid modernization projects previously certified by the Commission and eligible for TCR cost recovery, as follows:
  - The ADMS Project;
  - The AMI Project;
  - The FAN Project;
  - The TOU Rider Pilot; and
  - The APT/LoadSEER project.
- Costs associated with transmission projects previously approved for TCR Rider recovery, including:<sup>3</sup>
  - CapX2020 Fargo Twin Cities;
  - CapX2020 La Crosse;

<sup>&</sup>lt;sup>1</sup> 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, Xcel's Transmission Cost Recovery Rider Petition (Xcel's 2021-2022 TCR Rider Petition), Docket No. E002/M-21-814, November 24, 2021. Accessed at (PUBLIC):

 $<sup>\</sup>frac{https://efiling.web.commerce.state.mn.us/edockets/searchDocuments.do?method=showPoup\&documentId=\{D031537D-0000-C911-9323-7302B00603AD\}\&documentTitle=202111-180141-01.$ 

<sup>&</sup>lt;sup>2</sup> Xcel's 2021-2022 TCR Rider Petition, at 1-2.

<sup>&</sup>lt;sup>3</sup> Xcel's 2021-2022 TCR Rider Petition, Attachment 1.

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- CapX2020 Brookings Twin Cities;
- La Crosse Madison (also referred to as Badger Coulee);
- Big Stone-Brookings 345 kV Line; and
- o Huntley-Wilmarth 345 kV Transmission Line.

Xcel submitted its TCR Rider Petition Supplement on August 17, 2022 (Supplement).<sup>4</sup> On August 22, 2022, the Commission issued a Notice of Comment Period for the TCR Rider Petition and Supplement (August 22 Notice). The following topics are open for comment:

- Does Xcel Energy's AGIS-related cost recovery request in the instant TCR Petition including what is found in the Company's August 17, 2022 Supplemental filing comply with:
  - o the Commission's July 23, 2020 Order in Docket No. E-002/M-19-666; and
  - o the Commission's September 27, 2019 [Order] in Docket No. E-002/M-17-797?
- Should the Commission approve, modify, or reject Xcel Energy's 2021-2022 TCR revenue requirement and resulting adjustment factors?
- Are there other issues or concerns related to this matter?

On or before October 17, 2022, the following parties submitted comments in response to the August 22 Notice:

- The Department
- The Office of Attorney General Residential Utilities Division (OAG); and
- The Citizens Utility Board of Minnesota (CUB).

The Joint Commenters provide a recommendation below in response to the Commission's August 22 Notice.

#### II. RECOMMENDATION

The Department, OAG-RUD, and CUB jointly recommend that the Commission adopt the following ratepayer protections for Xcel's AMI and FAN investments:

- 1. The AMI and FAN projects are subject to the following respective cost caps for capital costs and operations and maintenance (O&M) expenses based on the lesser of the estimated amounts included in the Company's certification request in the 2019 Integrated Distribution Plan (IDP) and AGIS Certification Request Petition or in the Company's 2021-2022 TCR Rider Petition.<sup>5</sup>
  - a. AMI Cost Caps:

<sup>&</sup>lt;sup>4</sup> Xcel Supplement Filing (Supplement). Dockets Nos. E002/M-20-680 and E002/M-21-814. Accessed at (PUBLIC): <a href="https://www.edockets.state.mn.us/edockets/searchDocuments.do?method=showPoup&documentId={2056AD82-0000-C935-9831-9C640FAA4300}&documentTitle=20228-188420-02.">https://www.edockets.state.mn.us/edockets/searchDocuments.do?method=showPoup&documentId={2056AD82-0000-C935-9831-9C640FAA4300}&documentTitle=20228-188420-02.</a>

 $<sup>^{5}</sup>$  Cost caps derived from the Company's 2021-2022 TCR Rider Petition, Att. 4, Tables 1 – 4, at 55-56.

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i. Capital: \$366.3 million

ii. O&M: \$92.9 million

b. FAN Cost Caps:

i. Capital: \$92.6 million

ii. O&M: \$8.1 million

- c. Cost recovery is limited to these cost caps unless the Company can show by clear and convincing evidence that the costs were reasonable, prudent, and beyond the Company's control.
- The Company must track and return any incremental cost savings or revenues attributable to the AMI and FAN investments to customers through an annual true-up process in the Company's TCR Rider, with cost savings or revenues included as a credit or offset in the Company's true-up filing.
- 3. The performance metrics and targets in Table 1 below are based upon the quantifiable benefits that the Company identified in its benefit-cost analysis of the AMI and FAN investments, and should serve as the basis for evaluating the ongoing performance and cost recovery request of the Company's AMI and FAN investments consistent with Order Point No. 8 of the Commission's July 23, 2020 Order in Docket No. E002/M-19-666 (the 2019 IDP Order).

Table 1. AMI and FAN Performance Metrics and Targets							
Benefit	Metric	Target					
Distribution Management Efficiency	Capital and O&M \$ spent on Asset Health and Reliability projects and Capacity projects	1% reduction					
Outage Management	Capital and O&M \$ spent on	10% capital reduction					
Efficiency	storm recovery	0.1% O&M reduction					
Avoided Meter Purchases	\$ spent on meter replacement due to failure	Undefined					
Reduced Field and Meter	Field trips due to customer equipment damage	50% reduction					
O&M Expenses	Percent of disconnects and reconnects done remotely	70% of disconnects					

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		95% of reconnects <sup>6</sup>
	"Ok on arrival" outage field visits	50% reduction
Reduced Consumption on	Usage on unassigned	20% reduction
Inactive Meters	accounts	20% (eddction
Reduced Bad Debt Expense	\$ of bad-debt write-offs	8% reduction <sup>7</sup>
Reduced Theft/Meter Tampering	Increase in retail revenue	Undefined
	Customer energy price savings due to time-of-use (TOU) rates	Undefined
Load Flexibility Benefits	Avoid tons of CO <sub>2</sub> emissions due to TOU rates	4,500 tons annual reduction
	Customer savings due to critical peak pricing (CPP)	Undefined

- 4. In a Compliance Filing to be submitted no later than 60 days after the Commission's Order:
  - a. The Company must provide interim performance targets for each of the performance metrics that are not defined in Table 1 above. Such interim performance targets must be based upon projected benefits used in the Company's benefit-cost analysis of the AMI and FAN Projects, and any other pertinent information; and
  - b. The Company must propose evaluation methods for each of the performance targets consistent with Order Point No. 8 of the Commission's 2019 IDP Order.
- 5. In the Company's next TCR Rider Proceeding:
  - a. The Company must propose Performance Incentive Mechanisms (PIMs) for each performance target listed in Table 1 above, in accordance with the Commission's order that "all future cost recovery will be based upon the Company accomplishing Commission-approved metrics and performance evaluations for the certified projects" and using the PIM Design Process outlined in Docket No. E002/CI-17-401. Xcel's PIM proposal will include, at minimum, the following elements:

<sup>&</sup>lt;sup>6</sup> These targets are not intended to prejudge the outcome of Docket No. E002/M-22-233.

<sup>&</sup>lt;sup>7</sup> This target is not intended to prejudge the outcome of Docket No. E002/M-22-233.

<sup>&</sup>lt;sup>8</sup> In the Matter of Xcel Energy's Integrated Distribution Plan and Advanced Grid Intelligence and Security Certification Request, Docket No. E-002/M-19-666, Order Accepting Integrated Distribution Plan, Modifying Reporting Requirements, and Certifying Certain Grid Modernization Projects (July 23, 2020), Order Point 8.

- i. PIM structure;9
- ii. The dates when the PIMs will take effect and terminate;
- iii. The penalty associated with each PIM; and
- iv. Specific mechanisms for effectuating a penalty.
- b. Xcel's PIM proposal must include at least two penalty options: one that calculates the penalty as a proportion of the incremental costs of the proposed investments compared to the least-cost alternative, and another that calculates the penalty as a proportion of the *return* on these incremental costs.
- 6. The Company must evaluate AMI and FAN performance targets on an annual basis consistent with the Company's evaluation of Performance Incentive Mechanisms (PIMs) in Docket No. E002/CI-17-401.
- 7. The Company must file an annual report of the metrics outlined in Attachment A: AMI and FAN Reporting Metrics beginning November 1, 2023.
- 8. In the next Xcel Integrated Distribution Plan proceeding, Xcel will address the following topics in its Initial Filing:
  - a. Should the Commission establish standard procedures for reviewing utility grid modernization proposals and cost recovery petitions and if so, what should those procedures be?;
  - Should the Commission require utility grid modernization proposals to adhere to standardized filing requirements and if so, what should those filing requirements be?;
  - c. Should the Commission establish formal criteria for evaluating certification requests in Integrated Distribution Plan proceedings and if so, what should those criteria be?; and

<sup>&</sup>lt;sup>9</sup> The Company's filing should address whether these PIMs include dead-bands, how penalties will be structured, and other PIM design issues. Dead-bands refer to a range of performance outcomes around a performance target in which no incentive (positive or negative) is incurred. Dead-bands are included in PIMs to provide some allowance for "noise" and other non-significant variation in performance. For more detail on PIM design, see Whited, et al. "Utility Performance Incentive Mechanisms: a Handbook for Regulators." 2015. Prepared for the Western Interstate Energy Board. Accessed at: <a href="https://www.synapseenergy.com/sites/default/files/Utility%20Performance%20Incentive%20Mechanisms%2014-098">https://www.synapseenergy.com/sites/default/files/Utility%20Performance%20Incentive%20Mechanisms%2014-098</a> 0.pdf.

d. Should the Commission establish a timeline for reviewing the prudence of projects it certifies in Xcel's IDP and if so, what should that timeline be?

## **Attachment A: AMI and FAN Reporting Requirements**

In addition to Table 1 below, the Company must provide the following information in its annual report:

- a. Narrative description of AMI and FAN developments, including
  - i. comprehensive account of all functionalities achieved and any changes to functionality or potential future uses;
  - ii. the Company's plan and scope for implementation in the upcoming year; and
  - iii. Implementation and integration status of related information technology systems in comparison to the Company's plans and scope.
- b. Description and explanation of any AMI or FAN functionalities that have been disabled and the number of impacted meters;
- c. Revenue-generating opportunities identified or engaged that relate to the use of AMI, FAN, or the use of associated data or distributed intelligence technologies;
- d. All entities with whom the Company shares AMI data; and
- e. Any metrics derived from the quantitative benefits assumed in Xcel's benefit-cost analysis of the AMI and FAN projects that are not represented in Table 1 below.

For any metric that the Company is unable to provide data for, the Company must explain why it is unable to do so and what efforts can be taken to obtain that data in future reports.

Table 1: AMI and FAN Metrics						
Category	Description					
Customer Outreach and Education	Survey results of customer on the adequacy and clarity of communications prior to installation of advanced meters					
Installation and Deployment	Number of advanced meters installed					
Installation and Deployment	Percentage of advanced meters deployed compared to planned installation					
Installation and Deployment	Percentage of customers with advanced meters					
Installation and Deployment	Percentage of FAN deployed					
Installation and Deployment	Percentage of FAN deployed compared to planned installation					
Installation and Deployment	Number of customers electing to opt-out of AMI installation					
Installation and Deployment	Number of calls to Customer Contact Center and meter installation vendor regarding meter installation					
Installation and Deployment	Number of complaints regarding AMI installation					
Installation and Deployment	Number of intelligent field devices enabled by the FAN					
Installation and Deployment	Number of missed installation appointments					

Financial	Total AMI project capital spend to-date vs. total AMI project capital budget
Financial	Total FAN project capital spend to-date vs. total FAN project capital budget
Financial	Total AMI project O&M spend to-date vs. total AMI project O&M budget
Financial	Total FAN project O&M spend to-date vs. total FAN project O&M budget
Financial	O&M cost savings from avoided field visits
Post-Deployment	Percentage of customers with advanced meters that receive estimated bills
Post-Deployment	Total number of AMI meters use for billing (activated)
Post-Deployment	Percentage of customers with an advanced meter that have made a complaint of inaccurate meter readings
Post-Deployment	Survey of customer satisfaction with outage related communications
Post-Deployment	Number of customers with an advanced meter with an active web portal account
Post-Deployment	Number of monthly, unique visits to the web portal (My Account)
Post-Deployment	Percentage of customers with an advanced meter with Home Area Network (HAN) functionality
Post-Deployment	Number of customers with an advanced meter with Home Area Network (HAN) functionality
Post-Deployment	Percent of customers with an advanced meter with Green Button Connect My Data (CMD) functionality
Post-Deployment	Number of customers with an advanced meter with Green Button Connect My Data (CMD) functionality
Post-Deployment	Number of customer/account inquiries regarding AMI or time- varying rates
Post-Deployment	Number of customers enrolled in time-varying rate programs
Post-Deployment	Number of customers enrolled in other AMI-enabled demand management programs
Post-Deployment	Number of avoided truck rolls/field visits
Post-Deployment	Meter accuracy test percentage
Post-Deployment	Percentage of interval reads received
Post-Deployment	Number of remote meter disconnect operations
Post-Deployment	Number of remote meter connect operations
Post-Deployment	Percentage of interval reads received

Customer Engagement	Percentage of customers with advanced meter at least 30 days that are targeted with energy savings messaging				
Customer Engagement	Percentage of low-income customers with advanced meters at least 30 days that are targeted with energy savings messaging				
Customer Engagement	Percentage of customers aware of AMI				
Customer Engagement	Understanding of AMI technology and benefits				
Customer Engagement	Percentage of low-income customers aware of AMI				
Customer Engagement	Number of customers with advanced meters that adopt an advanced rate option (e.g. TOU ) tariff, expressed as a number and percentage by each rate				
Customer Engagement	Number of organizational events attended where information on AMI presented, by region				
Customer Engagement	Demand Response: percentage participation by class				
Customer Engagement	DER: percentage adoption, by class				
Customer Engagement	Storage: percentage adoption, by class				
Customer Engagement	Customer access to hourly or sub-hourly data				
Customer Engagement	Third-party service access to customer data				
Customer Engagement	Variety, quality, accessibility of customer data available (consistent with privacy and CEUD requirements)				
Customer-Site Asset Effectiveness	Demand Response: annual max MW reduction total and as a percentage of load, by class				
Customer-Site Asset Effectiveness	Demand Response: MW enrolled total and as percentage of load, by class				
Customer-Site Asset Effectiveness	DER: MWh generated as percentage of sales, by class				
Customer-Site Asset Effectiveness	DER: MW installed as percentage of load, by class				
Customer-Site Asset Effectiveness	Storage: MWh installed energy capacity as percentage as percentage of sales, by class				
Customer-Site Asset Effectiveness	Storage: MW installed capacity as percentage of load, by class				
Customer-Site Asset Effectiveness	Non-Wires Alternatives (NWA): MW as percentage of (peak) load				
Customer-Site Asset Effectiveness	NWA: percentage of customers participating, by class				
Customer-Site Asset Effectiveness	NWA: savings (\$) per year				
Customer-Site Asset Effectiveness	Percentage of grid supporting services provided by DER vs. traditional solutions				
AMI (Capital)	Capex for Asset Health/Reliability, Capacity Projects				
AMI (Capital)	Storm related capital restoration costs				
AMI (Capital)	AMI meter failure rate (avoided meter purchases)				
AMI (O&M)	Annual trips for damaged customer equipment				
AMI (O&M)	Annual trips for residential manual disconnection				

AMI (O&M)	Annual trips for residential manual reconnection
AMI (O&M)	Annual "OK on Arrival" field visits
AMI (O&M)	Annual voltage investigation field visits
AMI (O&M)	O&M for Asset Health/Reliability, Capacity Projects
AMI (O&M)	O&M for storm related activity
AMI (Other)	Customer-minutes of outage (CMO) - major events
AMI (Other)	CMO-single customer events
AMI (Other)	CMO-tap level events
AMI (Other)	Cost of consumption on inactive meters
AMI (Other)	Commodity bad-debt expense
AMI (Other)	Residential demand shift from TOU rates
AMI (Other)	Medium C&I demand shift from TOU rates
AMI (Other)	Residential peak demand reduction from Critical Peak Pricing
AMI (Other)	Medium C&I peak demand reduction from Critical Peak Pricing

### **CERTIFICATE OF SERVICE**

I, Sharon Ferguson, hereby certify that I have this day, served copies of the following document on the attached list of persons by electronic filing, certified mail, e-mail, or by depositing a true and correct copy thereof properly enveloped with postage paid in the United States Mail at St. Paul, Minnesota.

**Minnesota Department of Commerce Joint Reply Comments** 

Docket No. E002/M-20-680 and E002/M-21-814

Dated this 16th day of November 2022

/s/Sharon Ferguson

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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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				55101			
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174  Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_21-814_M-21-814
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@xcelen ergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, 401-8  Minneapolis, MN 55401	Electronic Service	No	OFF_SL_21-814_M-21-814
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Carlon	Doyle Fontaine	carlon.doyle.fontaine@sen ate.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@otpco.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade S Fergus Falls, MN 565380498	Electronic Service treet	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
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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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