



414 Nicollet Mall
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September 14, 2022

—Via Electronic Filing—

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

RE: AMI AND FAN TECHNICAL WORKSHOP SERIES – WORKSHOP 3
RECORDING AND PRESENTATION
TRANSMISSION COST RECOVERY RIDER
DOCKET NOS. E002/M-21-814 AND E002/M-20-680

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this letter to provide the recording and presentation from our third Technical Workshop, which was part of the Procedural Agreement the Commission approved in its June 2, 2022 Order in the above-referenced dockets and outlined in our June 29, 2022 Letter.

Workshop 3 was held on September 7, 2022. The Workshop 3 presentation is provided as Attachment A.

A recording of Workshop 3, along with the recordings of Workshop 1 and 2, can be accessed at the link below.

<https://www.youtube.com/playlist?list=PLlogUk2DY9hGpf7n2ABk17uNYDJfnBXO>

We appreciate the opportunity to host these technical workshops and provide stakeholders with information about the Company's AMI and FAN implementation as well as respond to stakeholder questions.

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 Karin Haas at karin.b.haas@xcelenergy.com if you have any questions regarding this filing.

Sincerely,

/s/

BRIA E. SHEA
REGIONAL VICE PRESIDENT, REGULATORY POLICY

c: Service Lists



AMI METERING INFRASTRUCTURE AND FIELD AREA NETWORK – TECHNICAL WORKSHOP SERIES

**Workshop #3: AMI and FAN Financials, Cost-Benefit Analysis, and
Reporting**

September 7, 2022

AGENDA

1. Budgets and Cost Recovery Request

- Capital and O&M Budgets
- Revenue requirements
- Customer impacts and class allocation methodologies

2. AMI and FAN Cost-Benefit Analysis

- Background, Assumptions, and Approach
- Results and Sensitivity Analysis
- Qualitative Benefits

3. Proposed AMI and FAN Reporting

4. Q&A



SPEAKERS

- **Jody Londo**, Manager, Distribution Project Management Office
- **Pablo Martinez**, Senior Principal Risk Analyst
- **Karin Haas**, Regulatory Policy Specialist
- **Raymond Mauya**, Program Manager, AMI



AMI & FAN BUDGETS AND COST RECOVERY

Jody Londo, Manager, Distribution Project Management Office



AMI and FAN – Capital Expenditures (Millions)

Northern States Power Company – NSPM Electric

	Actual	Actual through Jun	Budget				
	2020	2021	2022	2023	2024	2025	2026
AMI	\$4.4	\$13.2	\$103.0	\$143.8	\$101.9	\$0	\$0
FAN	\$1.6	\$5.9	\$9.1	\$15.1	\$8.6	\$0.8	\$57.0
Total	\$6.0	\$19.1	\$112.1	\$158.9	\$110.5	\$0.8	\$57.0

Notes: Period may include additional assumptions, including inflation and labor cost increases that are not part of the capital budget in periods 2021-2025; FAN amounts beyond 2021 are representative of potential full private network; Excludes TOU Pilot; Pending TCR Request is through 2022.

AMI and FAN – O&M Costs (Millions) Northern States Power Company – NSPM Electric

	Actual	Actual through Jun	Budget				
	2020	2021	2022	2023	2024	2025	2026
AMI	\$1.2	\$5.9	\$12.2	\$20.2	\$23.7	\$15.1	\$14.6
FAN	\$0.2	\$1.1	\$0.7	\$1.2	\$0.9	\$0.6	\$6.4
Total	\$1.4	\$7.0	\$12.9	\$21.4	\$24.6	\$15.7	\$21.0

Notes: Period may include additional assumptions, including inflation and labor cost increases that are not part of the capital budget in periods 2021-2025; FAN amounts beyond 2021 are representative of potential full private network; Pending TCR Request is through 2022.

Pending Transmission Cost Recovery (TCR) Rider Request – Revenue Requirements

	2020 (Actual)	2021 (Mixed)	2022 (Budget)	2023* (Budget)
AMI	\$1,210,039	\$4,639,342	\$15,708,542	\$35,101,489
FAN	\$234,981	\$1,239,549	\$1,925,235	\$3,185,952
Total	\$1,445,020	\$5,878,891	\$17,633,777	\$38,287,441

* Not included in Nov 2021 TCR Petition cost recovery request. Informational only.

Pending TCR Request – Customer Cost Impacts

	Currently In-Effect TCR Rider	Nov 2021 TCR Petition Proposed*	Difference
Total Revenue Requirements	\$82,037,297	\$104,536,270	\$22,498,973
Residential Rate/kWh	\$0.003614	\$0.005783	\$0.002169
Commercial Non- Demand/kWh	\$0.003191	\$0.004545	\$0.001354
Demand/kW	\$0.984	\$1.081	\$0.097000

An average residential customer using 675 kWh of electricity per month would see an increase on their bill of approximately \$1.46 per month compared to the current TCR residential adjustment factor. This assumed an effective date of June 1, 2022, which if not implemented on that date, requires recalculation.

* AMI and FAN are approximately \$24 million of the total revenue requirements.

Pending TCR Request – Class Cost of Service Allocation

- **Cost of Service** means an electric utility rate for a class of electricity consumer that is designed, to the maximum extent practicable, to reflect the cost to the utility in providing electric service to such class.
- **The Minnesota TCR includes both transmission and distribution investments**
- **Cost allocation methods are determined by the Commission and differ based on the type of asset/infrastructure**
- **The distribution allocator assigns a larger percentage of costs to residential customers than is the case for the transmission allocator**
 - o The need to have distribution equipment and infrastructure in place to serve the many individual customers is a significant driver of such costs, including AMI and FAN, which involve installation of large numbers of devices at individual customer premises

AMI & FAN COST-BENEFIT ANALYSIS

Pablo Martinez, Senior Principal Risk Analyst



Cost-Benefit Analysis (CBA)

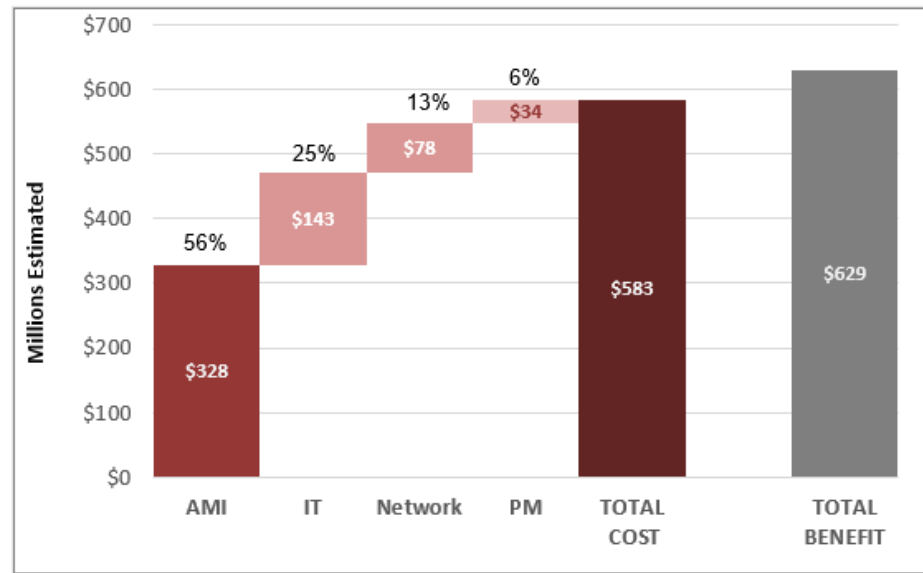
- Cost-Benefit Analysis (CBA) is a process review and methodology that associates and examines costs to resulting benefits of a project or initiative.
- Benefit-Cost Ratio (BCR) is the ratio resulting from the cost-benefit analysis to summarize the overall relationship between the relative benefits over costs.
- CBA is one tool to help evaluate investments.
- CBA includes only quantifiable benefits – excludes nonquantifiable/qualitative benefits.
 - False Implication: A project is only valuable if its benefits outweigh its costs.
- Relationship is provided on a Net Present Value (NPV).
 - When quantified benefits outweigh costs, $BCR > 1$
 - When costs outweigh quantified benefits, $BCR < 1$
 - When costs and quantified benefits are identical, $BCR = 1$

Cost-Benefit Analysis Snapshot – AMI/FAN

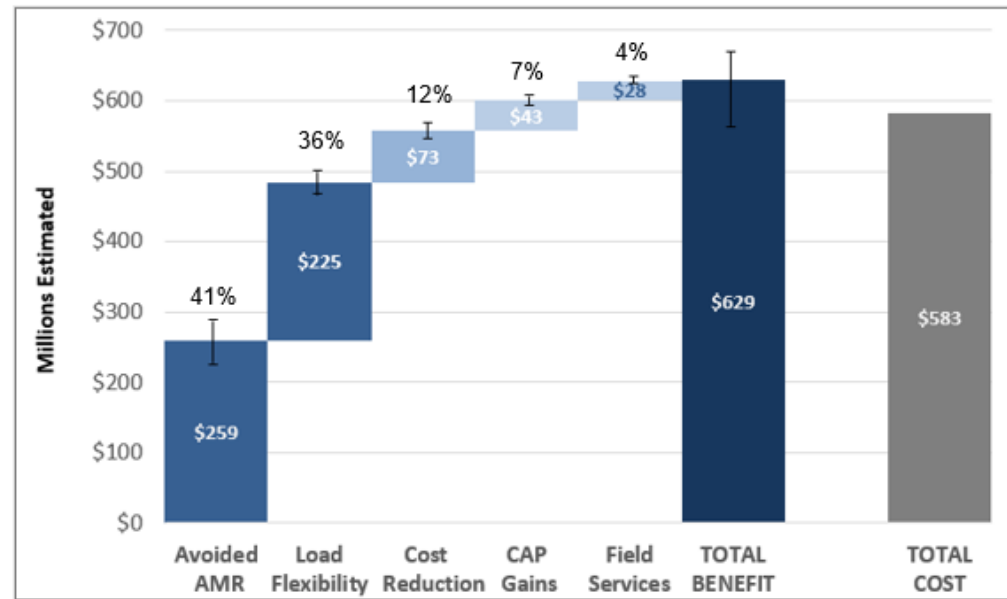
AMI-FAN Base Case Scenario Benefit-Cost Ratio Net Present Value (NPV) 2022 (\$ millions)

	Total (\$ millions)
Benefits	629
O&M Benefits	75
Other Benefits	321
CAP Benefits	234
Costs	(583)
O&M Expense	(163)
Change in Revenue Requirements	(419)
NPV – Net Customer Impact	46
Benefit/Cost Ratio	1.08

AMI-FAN 2022 Capital and O&M – NPV



AMI-FAN 2022 Benefit Base Case Scenario – NPV



Sensitivity Analysis

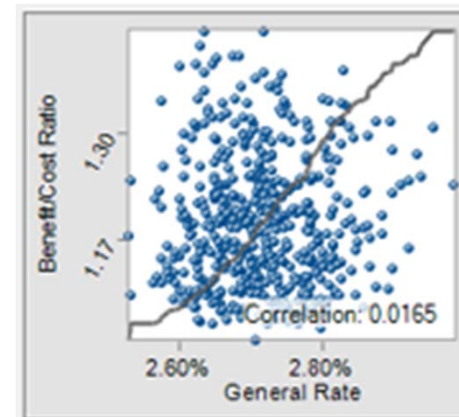
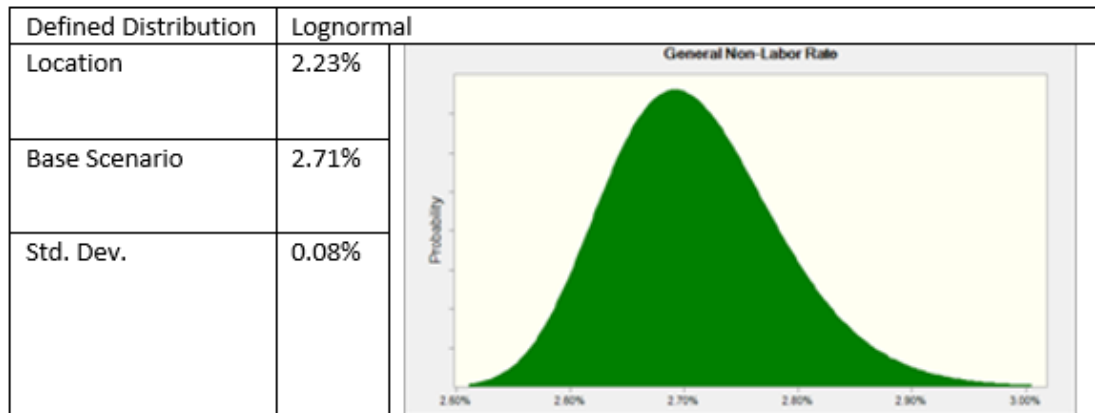
- Performed Monte Carlo simulation, varying financial inputs, costs, and benefits.
- Monte Carlo simulation is a statistical technique by which a quantity is calculated repeatedly, using randomly selected "what-if" scenarios for each calculation.
- The Company selected the Software Oracle-Crystal-Ball to perform the Monte Carlo simulation.
- Simulation involves assigning multiple values to an uncertain variable to achieve multiple results, and then averaging the results to obtain an estimate.
- Project has various assumptions for costs and benefits with different levels of uncertainty.

Sensitivity analysis concludes that AMI/FAN benefits outweigh costs ($BCR > 1$) under almost all futures modeled.

Example of Financial Variance - General Rate

Input: Based on historical rates

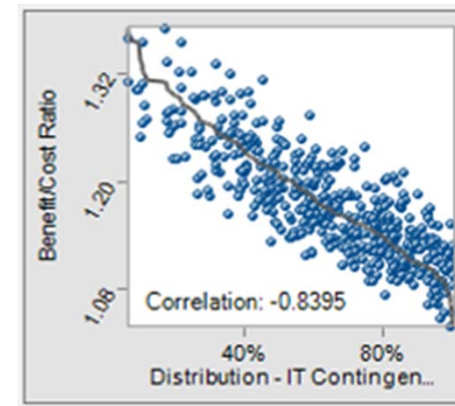
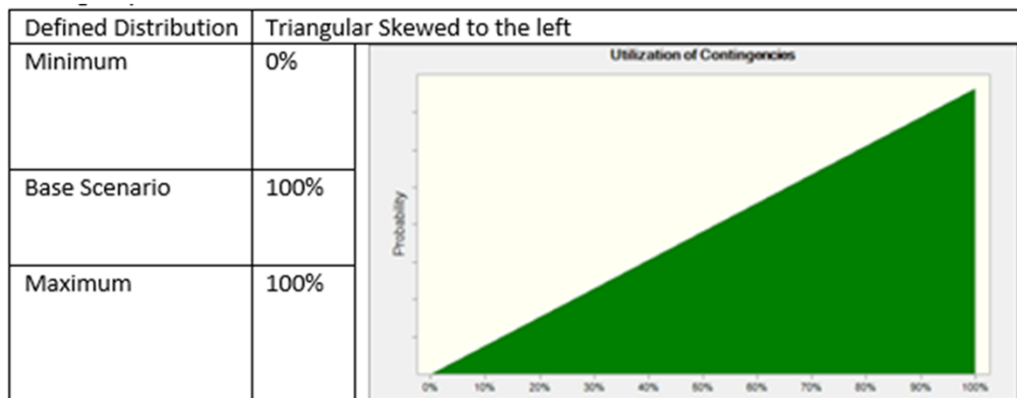
Output: BCR increases as General Rate increases; however, mostly random



Example of Cost Variance – Dist. & IT Contingencies

Input: Base scenario is 100% of contingences utilized. Minimum set as 0%.

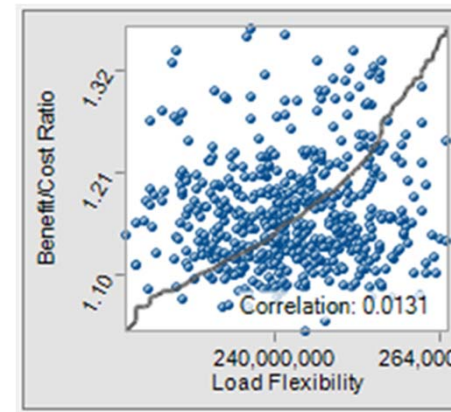
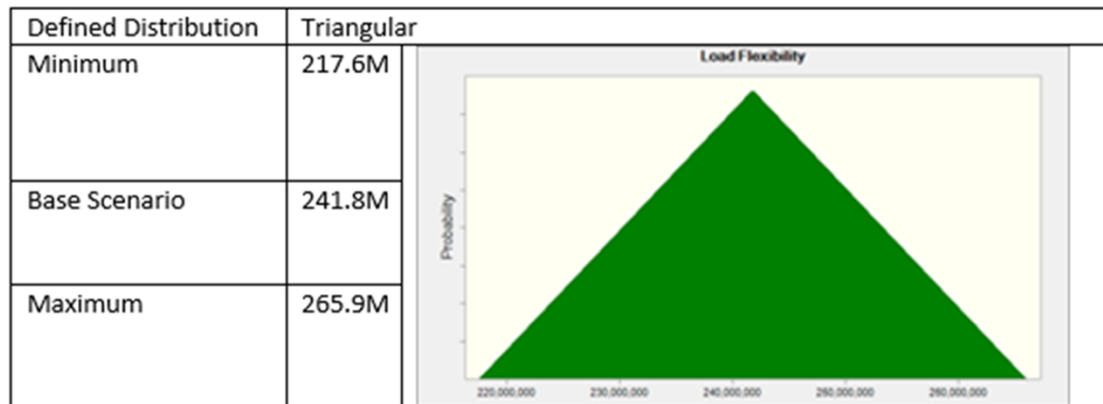
Output: BCR decreases as Dist-IT Contingency increases



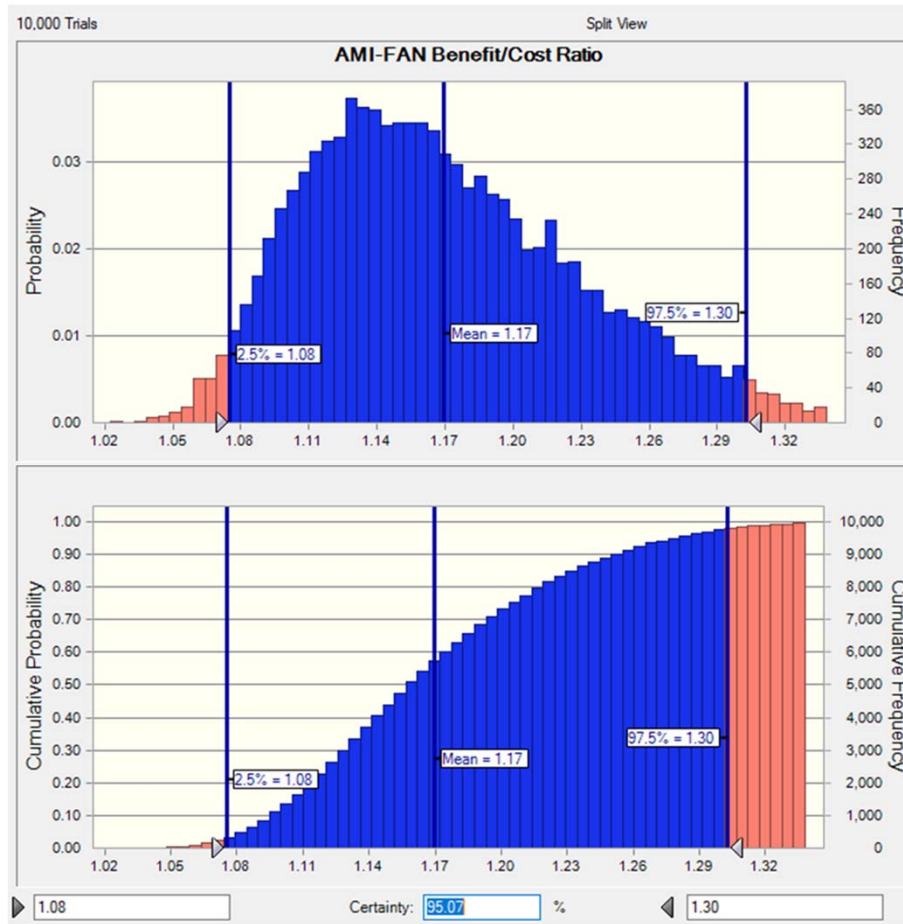
Example of Benefit Variance – Load Flexibility

Input: Expected value provided by Brattle Study/Business Area plus/minus 10%.

Output: BCR increases as load flexibility increases; however, mostly random



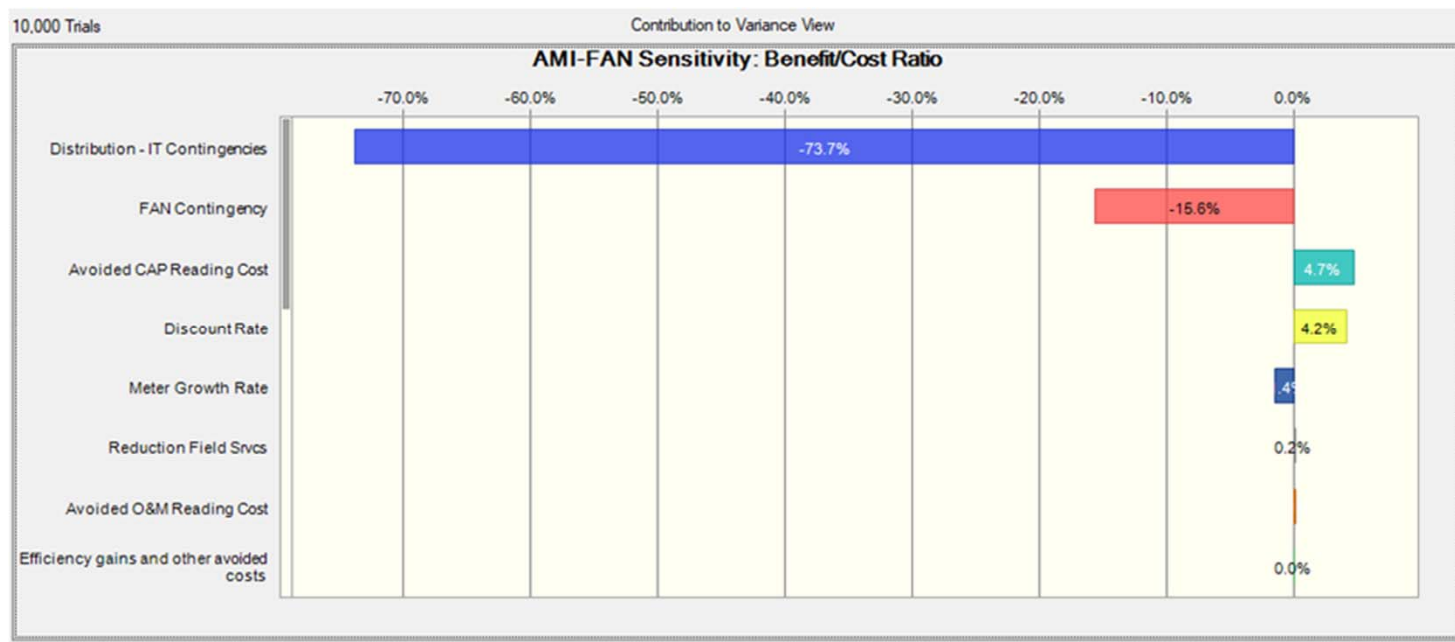
AMI-FAN Distribution of Probability Values at 10,000 Trials



- BCR at 2.5 percentile is 1.08, the maximum at 97.5 percentile is 1.30, and the mean is 1.17
- There is 95% certainty that the BCR will be over 1.

AMI-FAN Percentage of Contribution of Variance per Variable

The Distribution-IT Contingencies is the factor that contributed the most to the variances of the benefit to cost ratio



Qualitative Benefits of AMI/FAN

Qualitative benefits are important considerations in any comprehensive project evaluation.

We categorize a benefit as qualitative when...

- We cannot attribute the benefit directly to AMI and FAN;
- The direct contribution of AMI/FAN to the benefit cannot be parsed out; and/or
- There is no established or practicable method to quantify or monetize.

Qualitative Benefits of AMI/FAN and Examples

- Improved customer choice and experience, leading to customer empowerment and satisfaction
 - Improved outage detection → improved reliability and outage experience
 - New programs and tools for customers → more options, more control, bill savings
- Enhanced integration of distributed energy resources (DER)
 - More accurate modeling of distribution system → improved planning capabilities
- Environmental benefits of enhanced energy efficiency
 - New programs and energy savings messages → possible carbon reduction benefits
- Improved safety to both customers and Company employees
 - Remote capabilities → fewer trucks dispatched (inherent safety risk)
- Improvements in power quality
 - Ability to monitor voltage data → proactively address power quality issues

Qualitative benefits discussed in TCR Petition, Attachment 4, pages 67-70 and Supplement, Attachment D

AMI & FAN REPORTING

Karin Haas, Regulatory Policy Specialist

Raymond Mauya, Program Manager, AMI

Background

- We are committed to robust reporting to measure effectiveness and efficiency of AMI and FAN investments
- Many items already tracked/reported in other dockets
 - e.g., Service Quality Annual Report includes standard reliability metrics
- Comparison points: CBA base scenario assumptions (where applicable)
 - Ex: cost savings/efficiencies

Reporting: Installation and Deployment

Number of AMI meters installed

Percentage of AMI meters deployed compared to planned installation

Percentage of customers with AMI meters

Percentage of FAN deployed

Percentage of FAN deployed compared to planned installation

Number of customers electing to opt-out of AMI installation

Number of calls to Customer Contact Center and meter installation vendor regarding meter installation

Number of complaints regarding AMI installation

Number of missed installation appointments

Survey results of customers on the adequacy and clarity of communications prior to installation of AMI meters

Reporting: Post-Deployment

Percentage of customers with AMI meters that receive estimated bills

Total number of AMI meters use for billing (activated)

Percentage of customers with an AMI meter that have made a complaint of inaccurate meter readings

Survey of customer satisfaction with outage related communications

Number of customers with an AMI meter with an active web portal (MyAccount) account

Number of monthly, unique visits to the web portal (My Account)

Percentage of customers with an AMI meter with Home Area Network (HAN) functionality

Number of customers with an AMI meter with Home Area Network (HAN) functionality

Percent of customers with an AMI meter with Green Button Connect My Data (CMD) functionality

Number of customers with an AMI meter with Green Button Connect My Data (CMD) functionality

Number of avoided truck rolls/field visits

Meter accuracy test percentage

Percentage of interval reads received

Reporting: Financial

Total AMI project capital spend to-date vs. total AMI project capital budget

Total FAN project capital spend to-date vs. total FAN project capital budget

Total AMI project O&M spend to-date vs. total AMI project O&M budget

Total FAN project O&M spend to-date vs. total FAN project O&M budget

O&M cost savings from avoided field visits

Total AMI project capital spend to-date vs. total AMI project capital budget

Total FAN project capital spend to-date vs. total FAN project capital budget

Total AMI project O&M spend to-date vs. total AMI project O&M budget

Total FAN project O&M spend to-date vs. total FAN project O&M budget

O&M cost savings from avoided field visits

Total AMI project capital spend to-date vs. total AMI project capital budget

Total FAN project capital spend to-date vs. total FAN project capital budget

Total AMI project O&M spend to-date vs. total AMI project O&M budget

From TCR Petition, Attachment 4 – Table 14 (page 92)

Reporting: AMI Capital and O&M; Other

Capital – AMI meter failure rate (avoided meter purchases)

O&M – Annual trips for damaged customer equipment

O&M – Annual trips for residential manual disconnection

O&M – Annual trips for residential manual reconnection

O&M – Annual "OK for Arrival" field visits

O&M – Annual voltage investigation field visits

Capital – AMI meter failure rate (avoided meter purchases)

O&M – Annual trips for damaged customer equipment

O&M – Annual trips for residential manual disconnection

Cost of consumption on inactive meters

Reporting: Customer Outreach, Education, & Satisfaction

Survey results of customers on the adequacy and clarity of communications prior to installation of AMI meters

Percentage of customers with advanced meter at least 30 days that are targeted with energy savings messaging

Percentage of low-income customers with advanced meters at least 30 days that are targeted with energy savings messaging

Percentage of customers aware of AMI

Understanding of AMI technology and benefits

Percentage of low-income customers aware of AMI

Number of organizational events attended where information on AMI presented, by region

Customer access to hourly or sub-hourly data

Variety, quality, accessibility of customer data available (consistent with privacy and CEUD requirements)



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-20-680
E002/M-21-814

Dated this 14th day of September 2022

/s/

Crystal Syvertsen

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