September 12, 2018

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, Minnesota 55101-2147

RE: 2020-2034 Upper Midwest Resource Plan
     September 10, 2018 Workshop Materials
     Docket No. E002/RP-15-21

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission the materials presented at our September 10, 2018 workshop, Economic and Technical Considerations – Part 1. This workshop was the fourth in a series leading-up to our 2020-2034 Upper Midwest Integrated Resource Plan filing in early 2019.

Due to technical issues with the conference line during the September 10 workshop, the Company will be hosting a 90 minute webinar to re-present the materials on Friday, October 5 from 1pm – 2:30pm. All parties on the Company’s stakeholders list will receive an invitation.

We have electronically filed this document with the Commission, and copies have been served on the parties on the attached service list. Please contact Amber Hedlund at 612-337-2268 or amber.r.hedlund@xcelenergy.com or Bria Shea at (612) 330-6064 or bria.e.shea@xcelenergy.com if you have any questions regarding this filing.

Sincerely,

/s/

Bria Shea
Director, Regulatory and Strategic Analysis

Enclosures
cc: Service list

—Via Electronic Filing—
Xcel Energy’s IRP Stakeholder Workshop 4: Economic and Technical Considerations—Part 1

September 10, 2018
Agenda

1:00 – 1:15 pm    Welcome, Agenda Review, Intros
1:15 – 2:00 pm    Load Forecast Overview
                  – Jannell Marks, Xcel Energy, Director of Energy Sales and Demand
                  – Q&A

2:00 – 2:30 pm    Energy Efficiency, Demand Response, and Distributed Solar
                  – Shawn White, Xcel Energy, DSM Manager
                  – Q&A

2:30 – 2:40 pm    Break

2:40 – 3:30 pm    Modeling Assumptions Overview
                  – Jon Landrum, Xcel Energy, Resource Planning Analytics Manager
                  – Q&A

3:30 – 4:00 pm    Q&A and Table Activity

4:00 pm          ADJOURN
Agenda

- Load forecasting process overview
- Load forecast results
- Key assumptions
- Changes from last Resource Plan
Load Forecast Process

- MWh Sales Forecasts by State/Class
- Total System MWh Energy Forecast
- System MW Peak Demand Forecast
**Sales Forecast**

- **MWh Sales Forecasts by State/Class**
  - Unique model for each state/class
    - Econometric models
    - Trend models
  - Historical and forecast data (monthly frequency)
    - Historical sales
    - Historical and forecast data on customers, prices, Demand Side Management (DSM), Distributed Generation (DG) solar, economic/demographic data, weather

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Econometric models define the relationship between historical sales and explanatory variables.

Economic & Demographic data includes housing, population, personal income, gross state/metro product, employment.
Sales Forecast

- Adjustments to model results
  - DSM, DG solar, EV’s
  - Large customer information

Large Customer adjustments are made to account for changes not captured with economic drivers.
Energy Forecast

- Aggregate class sales to derive state sales
- Apply monthly loss factors to state sales
  - Average of last 5 years of actual loss factors
- Aggregate state energy (sales + losses + company use) to derive monthly system energy
**Peak Demand Forecast**

- Econometric model
- Historical and forecast data (monthly frequency)
  - Historical system peak demand
  - Historical and forecast energy (w/o DSM, DG solar, EV adjustments), DSM, DG solar, weather
- Adjustments to model results
  - DSM, DG solar, EV’s
Retail Sales Forecast

NSP Annual Retail Sales Growth

- **History**
- **Forecast**

2002-2017 CAGR = 0.2%

2018-2035 CAGR = 0.2%
Energy and Peak Demand Forecast

NSP Annual Energy and Peak Demand

2002-2017 CAGR
WN Energy = 0.1%
WN Peak Demand = 0.2%

2018-2035 CAGR
Energy = 0.2%
Peak Demand = 0.7%
## Residential Forecast
### Exogenous Adjustment for Electric Vehicles

<table>
<thead>
<tr>
<th>Method</th>
<th>Adoption (Energy)</th>
<th>Behavior (Demand)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Internal modeling (Bass Diffusion)</td>
<td>Estimation using representative datasets</td>
</tr>
<tr>
<td>Key Variables</td>
<td>Electricity Prices</td>
<td>Share of charging done at homes</td>
</tr>
<tr>
<td></td>
<td>Vehicle Battery Prices</td>
<td>Penetration of managed charging solutions</td>
</tr>
<tr>
<td></td>
<td>Gasoline Prices</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Car ownership</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Car usage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Efficiency</td>
<td></td>
</tr>
<tr>
<td>Sources</td>
<td>Compare to Bloomberg, Navigant, GTM, EIA</td>
<td>DOE EV Project Data Set</td>
</tr>
</tbody>
</table>
EV Adoption and Sales Growth

Impact of EV Adoption on Electricity Sales

Electric Vehicle Adoption Comparison

<table>
<thead>
<tr>
<th>U.S. Adoption Rates</th>
<th>2016</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xcel Energy</td>
<td>0.2%</td>
<td>0.7%</td>
<td>2.8%</td>
<td>9.6%</td>
</tr>
<tr>
<td>Bloomberg</td>
<td>0.2%</td>
<td>1.0%</td>
<td>3.0%</td>
<td>9.0%</td>
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<tr>
<td>GreenTech Media</td>
<td></td>
<td></td>
<td>3.8%</td>
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<tr>
<td>Energy Information Agency</td>
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<td></td>
<td>2.6%</td>
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<tr>
<td>Navigant</td>
<td>0.2%</td>
<td>1.0%</td>
<td>2.8%</td>
<td></td>
</tr>
<tr>
<td>Bank of America/Merrill Lynch (global adoption)</td>
<td>0.2%</td>
<td>1.0%</td>
<td>10.0%</td>
<td>33.0%</td>
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</table>

NSP Likely Scenario

<table>
<thead>
<tr>
<th>Year</th>
<th># Cars</th>
<th>% of Cars</th>
<th>GWh</th>
<th>MW</th>
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<tbody>
<tr>
<td>2018</td>
<td>8,947</td>
<td>0.3%</td>
<td>35</td>
<td>2</td>
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<tr>
<td>2019</td>
<td>14,492</td>
<td>0.4%</td>
<td>53</td>
<td>7</td>
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<tr>
<td>2020</td>
<td>25,126</td>
<td>0.7%</td>
<td>89</td>
<td>16</td>
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<td>2021</td>
<td>33,329</td>
<td>1.0%</td>
<td>132</td>
<td>24</td>
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<td>2022</td>
<td>42,641</td>
<td>1.2%</td>
<td>171</td>
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<tr>
<td>2023</td>
<td>55,370</td>
<td>1.6%</td>
<td>221</td>
<td>43</td>
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**EV Peak Load Impacts**

Idaho National Lab’s EV Project Data. The EV Project is a public/private partnership partially funded by the Dept. of Energy which has collected and analyzed operating and charging data from more than 8,300 plug-in electric vehicles and approximately 12,000 public and residential charging stations over a two year period. The EV Project data has been used in other utilities’ IRPs (Portland General Electric, Puget Sound Energy, Seattle City Light) as well as in cost-benefit analyses performed by consultants for government agencies (MJ Bradley).

**Table: Unmanaged vs. Baseline vs. Managed**

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<thead>
<tr>
<th>Unmanaged</th>
<th>Baseline</th>
<th>Managed</th>
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<tbody>
<tr>
<td>• 17% Public</td>
<td>• 17% Public</td>
<td>• 17% Public</td>
</tr>
<tr>
<td>• 83% Residential:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 1% Managed</td>
<td>• 83% Residential:</td>
<td></td>
</tr>
<tr>
<td>• 99% Unmanaged</td>
<td>• 20% Managed</td>
<td>• 90% Managed</td>
</tr>
<tr>
<td></td>
<td>• 80%</td>
<td>• 10%</td>
</tr>
<tr>
<td></td>
<td>Unmanaged</td>
<td>Unmanaged</td>
</tr>
</tbody>
</table>
DG Solar Forecast

◆ Based on MW (DC) installed capacity targets for 2018-2036 (both Solar*Rewards and Non Solar*Rewards)

◆ Econometric models used to determine historical relationships between number of customers, installed DC kW solar capacity and monthly kWh solar generation based on historical solar customer data

◆ Historical relationships are used to determine:
  ▪ Number of customers required to achieve the forecasted solar capacity targets
  ▪ Forecasted kW capacity
  ▪ kWh generation volumes
DSM Assumptions

- DSM forecast excludes peak kW from Load Management (Saver’s Switch & Peak Control)
- Future DSM impacts
  - 2018-2019 Triennial Plan Goals
  - 2020+ 1.5% Scenario from 2016-2030 NSP RP
  - Limited to 14-year Lifetime
  - Additional impact from Lighting Codes and Standards (adjustment for Residential and Business DSM not included in Xcel Energy-sponsored programs)
Forecast sensitivities are derived using a Monte Carlo simulation method which generates a probability distribution around the mean energy and mean peak demand forecasts.
Changes from Last Resource Plan

**NSP Annual Energy**

- WN Actual Energy
- Forecast Energy
- Prev RP Forecast Energy

**NSP Annual Demand**

- WN Actual Peak
- Forecast Peak
- Prev RP Forecast Peak
Changes from Last Resource Plan

- Actual sales and peak demand over past four years have been lower than expected
  - Declining Residential and Small C/I use per customer
  - Loss of large C/I loads
- Expected additional loss of large C/I loads
- Inclusion of DG solar and EV impacts
NSPM C&I Sales Have Declined

NSPM Small C&I (GWh)

- History
- 2018 Fcst v 2.0
- 2017 Fcst v 2.0
- 2016 Fcst v 2.0
- 2015 Fcst v 2.0

NSPM Large C&I (GWh)

- History
- 2018 Fcst v 2.0
- 2017 Fcst v 2.0
- 2016 Fcst v 2.0
- 2015 Fcst v 2.0
Large Losses in NSPM Large C&I

**History**

- 2009: -9.3% due to recession
- 2012: shutdown of CMP Sartell and shutdown of Ford Motor Co.
- 2013: additional GWh impact from CMP Sartell; remainder of top 40 was down 111 GWh
- 2017: CHP partial year impact

- **2008-2017 total change**
  = -1,321 GWh, -13.0%

**Forecast**

- 2018
  - Additional CHP impact
  - Change in large customers’ operations

- 2019
  - Additional CHP impact
  - Change in large customers’ operations

- **2018-2019 total change**
  = -544 GWh, -6.2%
NSPM Total Retail (GWh)

NSPM Retail Sales forecasts have been lowered

NSPW Total Retail (GWh)

NSPW Retail Sales forecasts have been fairly consistent for past few years
Integrated Resource Plan
Energy Efficiency & Demand Response

IRP Stakeholder Meeting
September 10, 2018
Integrated Resource Plan
Resource Need – EE & DR

Stakeholders & Customers
Low-Cost Resource
Requirements
Demand Response Stakeholders

- 6 meetings since Dec. 2017
- Stakeholder & policy objectives
- Future potential
- Collaborative development of design principles
- New programs to achieve future potential
Energy Efficiency Stakeholders

- MN Statewide Potential Study (Dept. of Commerce)
- Advisory group of interested parties
- Electric & Gas
- Preliminary results under review
- Policy recommendations from study provider (Center for Energy & Environment and their partners)
## Integrated Resource Plan

### Base Case Scenario

<table>
<thead>
<tr>
<th>Source</th>
<th>Base Case Model</th>
<th>Sensitivities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Efficiency</td>
<td>Xcel Energy</td>
<td>High sensitivities for EE based on Statewide Potential Study (<em>in process</em>). Estimates close to 2% of Xcel Energy’s annual electric sales.</td>
</tr>
<tr>
<td></td>
<td>Base level at 1.5% requirement. (approximately 440+ GWh per year)</td>
<td></td>
</tr>
<tr>
<td>Demand Response</td>
<td>The Brattle Group</td>
<td>DR Potential from The Brattle Group Study at varying avoided costs.</td>
</tr>
<tr>
<td></td>
<td>400 MW to comply with MPUC Order.</td>
<td></td>
</tr>
</tbody>
</table>
Integrated Resource Plan
Energy Efficiency
• Base case scenario from most recent DSM Potential Study.
• Annual variations from expected reality but cumulative potential remains realistic

![Graph showing energy savings and spending from 2018 to 2026]

- Energy & Demand Savings
- $ (Millions)
- MW
- GWh
- $
Energy Efficiency

Base Case

• 1.5% of annual electric sales
• Consistent with 2015 Potential Study
• Headwinds for EE (cost effectiveness, market transformation, diminishing savings w/new tech) [But we remain committed to state goals]
Energy Efficiency Sensitivities

- Minnesota Statewide Potential Study
  - High scenario likely approaching 2.0%
  - Break state into 7 regions, including a region for Xcel Energy territory
  - Use some region/utility-specific assumptions (e.g., Xcel’s avoided energy cost, Xcel’s mix of 16 different building types), but many model assumptions are statewide across all regions (e.g., measure saturation levels)
  - 2020 – 2029 timeframe
  - Study completed fall 2018
Methodology

**INPUTS**
- Sales, demographics, end-use data
- Cost, savings, load shapes
- Avoided costs: Generation, Capacity Transmission & Distribution, Fuel (Natural Gas), Emissions
- Market barriers, technology adoption trends

**STEP 1**
- Forecast and disaggregate the baseline energy load

**STEP 2**
- Characterize the efficiency measures

**STEP 3**
- Screen measures for cost-effectiveness

**STEP 4**
- Estimate program budgets and measure penetrations

**STEP 5**
- Calculate total savings and net benefits

**OUTPUTS**
- Technical Potential
- Economical Potential
- Program Potential

Source: Center for Energy & Environment
Integrated Resource Plan
Demand Response

Met with a dozen or so stakeholders since December to educate them on demand response and engage them in our planning process

Review cost-effectiveness potential by engaging The Brattle Group

400 MW of incremental DR in 2023
Study feasibility of 1,000 MW by 2025
The Brattle Group Potential Study
Preliminary Results

• Preliminary Study Reviewed Two Types of Demand Response:
  – Conventional (Peak Load Reductions for 2023)
  – Non-Traditional (Impacts to the Load Forecast & Peak Load Reductions for 2025 and beyond)

• Extended DR value streams included
  – capacity deferral,
  – load building; and
  – ancillary services.

• Avoided generation costs continues to be primarily driver of DR benefits.
The Brattle Group Potential Study
2023 Preliminary Results

- Cost-Effective Demand Response = less than 400 MW
- While the model will include 400 MW in the base case; we will present the analysis that this will be difficult to achieve
- Final study will update costs and provide further sensitivities
- Five-year plan to reach 400 MW

Total DR Potential in 2023

- 850 MW
- 287 MW
- 42 MW

Demand Response Potential in Xcel Energy’s Northern States Power Service Territory
The Brattle Group 81.18
The Brattle Group Potential Study

2030 Preliminary Results

- Results indicate 1000 MW by 2030 is not feasible
- Potential includes Critical Peak Pricing, Auto-DR, Smart Water Heating, EV charging

![Total DR Potential in 2030](chart.png)

- Total DR Potential in 2030
  - 850 MW
  - 314 MW
  - 368 MW

Demand Response Potential in Xcel Energy’s Northern States Power Service Territory
The Brattle Group 8.1.18
In Summary

• Base Case scenarios will include 1.5% for Energy Efficiency and 400 MW of Demand Response

• Potential Scenarios will be dependent on finalized potential studies
Strategist Model

Strategic planning software package used for electric utility resource planning

35+ years in the industry

Approximately 50 Companies currently license some or all components of Strategist
- Utilities: IOUs, Coops, & Municipals
- Federal and State Regulatory Commissions
- ISOs, and RTOs
- Consulting companies

Minnesota Department of Commerce uses Strategist as its model to evaluate plans filed with the Minnesota Public Utilities Commission
Variable Inputs Drive Results

- Demand & Energy Forecast
- Energy Efficiency, Demand Response Assumptions
- Fuel Prices
- New Thermal Unit Data
- Value of Excess Capacity
- Emission Costs
- Reserve Requirements
- Inflation Rates
- New Renewable Data
- Transmission Costs
- Existing Fleet Data
- Timing of Replacements
- New Renewable Data
Model Inputs Rigorously Developed

All inputs come from internal and external subject matter experts

- JD Energy, Hauou Energy, John T Boyd (coal)
- PIRA/CERA/Wood Mackenzie (gas, power)
- NYMEX
- Global Insight (Economics)
- EPRI
- Energy Supply Construction
- Load Forecasting
- Transmission Access
- Environmental Policy
- Brattle Group / KEMA
- Energy Supply Operations
Strategist Modules and Layout

- Generate Portfolios & Rank Plans
- Process Customer Loads, Apply DSM, & Calculate Production Costs
- Optimization, Resource Plans
  - PROVIEW
  - DP Resource Optimization
- Load Forecast Adjustment
  - Generation and Fuel
  - Capital Expenditures Recovery
  - Calculate Capital Project Revenue Requirements
# Defining the Reference or Base Case

<table>
<thead>
<tr>
<th>Resource</th>
<th>Assumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclear</td>
<td>Monti retires 2030, PI 1 retires 2033, PI 2 retires 2034</td>
</tr>
<tr>
<td>Coal</td>
<td>Sherco 2 retires 2023, Sherco 1 retires 2026, King retires 2037, Sherco 3 retires 2040</td>
</tr>
<tr>
<td>Renewable Expansion</td>
<td>No going back on renewables (hold committed/2015 IRP preferred plan wind/solar nameplate constant into future)</td>
</tr>
<tr>
<td>PPA Extensions</td>
<td>Assume NOT extended (Manitoba Hydro, MEC 1, Cottage Grove, Cannon Falls, etc.)</td>
</tr>
<tr>
<td>Energy Efficiency</td>
<td>1.5% annual energy savings</td>
</tr>
<tr>
<td>Demand Response</td>
<td>400 MW incremental added by 2023</td>
</tr>
<tr>
<td>PVSC (Carbon Costs)</td>
<td>Base case to assume high externality costs which applies until 2025 and then high regulatory costs of carbon afterwards</td>
</tr>
</tbody>
</table>
Assumptions – Financial

- WACC is updated for TCJA, weighted average of MN/ND/SD/WI
- Inflation from Global Insight long term forecast for Chained Price Index of Total Personal Consumption Expenditures
- Planning Period – 2020-2035
- Model Period – 2018-2057

### Discount Rate and Capital Structure

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<thead>
<tr>
<th></th>
<th>Before Tax WACC</th>
<th>After Tax WACC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WACC</strong></td>
<td>7.17%</td>
<td>6.53%</td>
</tr>
</tbody>
</table>

### Inflation

- 2.00%
Assumptions – Reserve Requirements

- No assumption made at this time for future change
- MISO’s reserve margin at the time of peak is 8.4%. Coincidence factor between NSP System and MISO system peak is 5%.
- Effective reserve margin is:
  \[(1 - 5\%) \times (1 + 8.4\%) - 1 = 2.98\%\.

<table>
<thead>
<tr>
<th>Reserve Margin</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Coincidence Factor</td>
<td>5.00%</td>
</tr>
<tr>
<td>MISO Coincident Peak Reserve Margin %</td>
<td>8.40%</td>
</tr>
<tr>
<td>Effective RM Based on Non-coincident Peak</td>
<td>2.98%</td>
</tr>
</tbody>
</table>
Existing Resources – Net Capacity Position

- Assume PPA’s and owned units retire at EOL/expiration
- Prior IRP order requires 400MW incremental DR by 2023
- Projected surplus capacity through Action Period
Assumptions – Environmental Costs

- CO2 values per January and June 2018 MPUC Orders

- Base Case (PVSC):
  - CO2 until 2025 based on "High" externalities values
  - 2025 and beyond based on the "High" end of range from June 11, 2018 Order

- All costs escalate at general inflation

- Will run PVSC and 4 other cases (including PVRR)
Assumptions – Coal Costs

- Combination of existing short term contracts and generic PRB long-term forecasts from external experts
- Similar methodology as 4-source gas, but different vendors due to specialization
- Effective annualized growth from forecasts is 2.5% (2018-2057)
Assumptions – Gas and Markets

- Same 4-source blend methodology as previous IRP’s (NYMEX, IHS CERA, PIRA, Wood Mackenzie)
- High and Low sensitivities based on $1/2$ or $2 \cdot$ base escalation rate
- Model prices shown are for Ventura Hub, derived from HH forecast

- Market prices come from same vendors as 4-source gas data
- Increase in market is less than gas – implied heat rate is declining
- Expect market will remain clearing mostly on gas – thermal units will likely be needed for balancing unless technology sea change occurs
Wind / Solar costs in development with strong influence from NREL 2018 ATB data

Pursuing other external data points for comparison

Reviewing recent market intelligence to inform near-term pricing (CO solicitation, NSP unsolicited proposals, etc.)

Will use data points consistent with expected capacity factors for NSP region

Adjustments will be made to incorporate updated tax and tariff assumptions (solar tariff, IRS guidance, TCJA, etc.)
Assumptions – Renewable Integration

- Enernex analysis nearing completion

- Will include:
  - Integration
  - Congestion
  - Coal Cycling

- Preliminary results indicate (wind):
  - Integration + Cycling < $1
  - Congestion ≈ $3.50

- Expect minimal impact from solar
Assumptions – Distributed Solar

- Data shown is compliance-based Q3 2018 forecast
- Exploring “adoption based” forecast
- Early CSG growth is related to initial (2014) program/tariff structure. As rules and credits have been revised, applications have tapered to more sustainable level
- Expect transition from Solar*Rewards to non-incentivized DG over time
Assumptions – Capacity Costs and Value

- Based on Public Service of Colorado all-source solicitation bids (Nov 28, 2017). Assumed 10% improvement rate

- ELCC for 4 hour = 100%, no assumption for degradation of ELCC

- Strategist calculates arbitrage and spinning reserve value

- Representation of other ancillary benefits still being evaluated
Assumptions – Transmission Costs

- These are preliminary estimates based on internal transmission planning study of queue, recent projects, and available sites. Still working on finalizing costs pending study completion.

- CT expected to be $0 for brownfield site

- CC and wind have higher costs due to MISO study process reviewing all-hours

- CT and solar are lower due to on-peak nature of generation

<table>
<thead>
<tr>
<th>Preliminary Grid Upgrade and Interconnection Costs (Greenfield)</th>
<th>$/kw</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC</td>
<td>$225</td>
</tr>
<tr>
<td>CT</td>
<td>$100</td>
</tr>
<tr>
<td>Wind</td>
<td>$200</td>
</tr>
<tr>
<td>Solar</td>
<td>$ 70</td>
</tr>
</tbody>
</table>
CERTIFICATE OF SERVICE

I, Carl Cronin, hereby certify that I have this day served copies of the foregoing document on the attached lists of persons.

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

   xx electronic filing

Docket No.    E002/RP-15-21

Dated this 12th day of September 2018

/s/

____________________________
Carl Cronin
Regulatory Administrator
<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Email</th>
<th>Company Name</th>
<th>Address</th>
<th>Delivery Method</th>
<th>View Trade Secret</th>
<th>Service List Name</th>
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<tbody>
<tr>
<td>David</td>
<td>Aafedt</td>
<td><a href="mailto:daafedt@winthrop.com">daafedt@winthrop.com</a></td>
<td>Winthrop &amp; Weinstine, P.A.</td>
<td>Suite 3500, 225 South Sixth Street Minneapolis, MN 554024629</td>
<td>Electronic Service</td>
<td>No</td>
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</tr>
<tr>
<td>Christopher</td>
<td>Anderson</td>
<td><a href="mailto:canderson@allete.com">canderson@allete.com</a></td>
<td>Minnesota Power</td>
<td>30 W Superior St Duluth, MN 558022191</td>
<td>Electronic Service</td>
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<td>OFF_SL_15-21_Official</td>
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<tr>
<td>Alison C</td>
<td>Archer</td>
<td><a href="mailto:aarcher@misoenergy.org">aarcher@misoenergy.org</a></td>
<td>MISO</td>
<td>2965 Ames Crossing Rd Eagan, MN 55121</td>
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<td>Mara</td>
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<td><a href="mailto:mara.k.ascheman@xcelenergy.com">mara.k.ascheman@xcelenergy.com</a></td>
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<td>414 Nicollet Mall Fl 5 Minneapolis, MN 55401</td>
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<tr>
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<td>Bertram</td>
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<td>Beth H.</td>
<td>Soholt</td>
<td><a href="mailto:bsoholt@windonthewires.org">bsoholt@windonthewires.org</a></td>
<td>Wind on the Wires</td>
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<td>Anna</td>
<td>Sommer</td>
<td><a href="mailto:anna@sommerenergy.com">anna@sommerenergy.com</a></td>
<td>Sommer Energy LLC</td>
<td>PO Box 766 Grand Canyon, AZ 86023</td>
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<td>Mark</td>
<td>Spurr</td>
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<td>222 South Ninth St., Suite 825 Minneapolis,</td>
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<td>Byron E.</td>
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<td>50 S 6th St Ste 2600 Minneapolis, MN 55402</td>
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<td>James M.</td>
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<td>470 U.S. Bank Plaza 250 South Sixth Street Minneapolis, MN 55402</td>
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<td>Julie</td>
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<td>700 Universe Blvd Juno Beach, FL 33408</td>
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<td>20 N. Wacker Drive Ste 1600 Chicago, IL 60606</td>
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<td>121 7th Place East Suite 350 St. Paul, MN 55101214</td>
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<td>Jonathan</td>
<td>G. Zierdt</td>
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<td>Greater Mankato Growth</td>
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<td>Patrick</td>
<td>Zomer</td>
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<td>150 S. 5th Street, #1200</td>
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