February 13, 2019

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
     FEBRUARY 12, 2019 WORKSHOP MATERIALS
     DOCKET NO. E002/RP-15-21

Dear Mr. Wolf:


The February 12, 2019 workshop featured discussions and presentations from a variety of stakeholders. Namely, the Center for Energy and Environment (CEE) discussed the host community study they are leading, the Coalition of Utility Cities and representatives from each of Xcel Energy’s baseload host communities presented on host community considerations, and Community Power presented on stakeholder engagement.

This workshop was the tenth in a series leading-up to our 2020-2034 Upper Midwest Integrated Resource Plan filing in July 2019.

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 me 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
Xcel Energy’s IRP Stakeholder Workshop 10:
Host Community Considerations

February 12, 2019
Agenda

1:00 – 1:05 pm    Xcel Energy Introduction and Welcome

Center for Energy and Environment 1-3pm
1:05 – 1:15 pm    Center for Energy and Environment Overview of the Host Community Study
1:15 – 1:30 pm    Coalition of Utility Cities Overview of Host Community Issues
1:30 – 2:10 pm    Presentations by Minnesota Host Communities
   » Becker – Greg Pruszinkse, City Administrator
   » Oak Park Heights – Mary McComber, Mayor
   » Red Wing – Marshall Hallock, Administrative Business Director
   » Monticello – Jeff O’Neill, City Administrator
   » Prairie Island Indian Community – Heather Westra, Consultant/Representative

2:10 – 2:45 pm    Minnesota Host Community Panel Discussion with Q&A
2:45 – 3:00 pm    BREAK

Community Power 3-4pm
3:00 – 3:30 pm    Community Power Presentation
3:30 – 4:00 pm    Q&A
4:00 pm           ADJOURN
Host Communities in Transition

Shane Zahrt, Flaherty & Hood
Xcel Energy IRP Stakeholder Presentation
February 12, 2019
What is a “Utility City”

• The Coalition of Utility Cities is a group of 8 cities that host large, baseload power plants owned by Investor-owned utilities

• 5 Xcel; 2 Minnesota Power; 1 Ottertail Power

• 2 nuclear; 5 coal; 1 natural gas
CUC Members

- *Becker
- Cohasset
- Fergus Falls
- Granite Falls
- Hoyt Lakes
- *Monticello
- *Oak Park Heights
- *Red Wing
About CUC

• Formed in 1997

• Cities formed the Coalition to have their interests represented at the legislature

• Historically focused on taxation

• Cities collectively represent over 60,000 residents
Hosting plants have major local impacts

- Infrastructure
- Safety & preparedness
- Land use implications
- Economic development challenges
Plants are integral to their host communities

• Largest property taxpayers

• Major employers

• Utility & plant employees tied into every aspect of civic life
Becker

Sherburne County Generating Station, or “Sherco”

• Population:
  – Approximately 4,800

• Tax impact of utility property:
  – Around 75% of city budget

• Jobs
  – Approximately 300 plant employees

• “The town that Sherco Built”
Oak Park Heights

Allen S. King Coal Plant

• Population:
  – Approximately 4,900

• Tax impact of utility property:
  – Over 39% of city budget

• Jobs
  – Approximately 120 employees
Red Wing

Prairie Island Nuclear Generating Station

• Population
  – Approx. 16,500

• Tax impact of utility property
  – Around 55% of city budget

• Jobs
  – Approximately 700 plant employees (more during planned outages)
Monticello

Monticello Nuclear Generating Station

• Population:
  – Over 13,500

• Tax impact of utility property:
  – Over 60% of city budget

• Jobs
  – Approximately 500 plant employees
The coming transition

• The changing energy landscape will have major impacts on host communities

• Host communities hope to partner with the state, utilities, and other stakeholders to achieve a transition that is responsible and responsive to local taxpayers and plant workers
Host communities role in transition

- Protecting local taxpayers and residents
- Working to re-shape our communities for post-plant life
- Maximizing existing assets to develop for the future
Host communities role in transition

• It’s the unknowns that keep community leaders up at night
  – Replacing economic impact of plants
  – Impact on local housing markets
  – Impact on local philanthropy community
  – Impact on school systems

• Socio-economic impact study underway with CEE
  – Hope that participation in this study can start to answer some questions and identify others
The largest power plant in the state
Part of the Becker identity
Production = 2,238 MW
Unit 1 – Built in 1976
Unit 2 – Built in 1977
Unit 3 – Built in 1987
Units 1 and 2 to be decommissioned in 2023 and 2026
Plans to build natural gas power plant on the existing site
The 2017 bill signed into law by Governor Dayton

Natural gas generating plant to support renewables

The gas plant only requires about 10 to 15 employees to run; Unit 3 still active

Loss of an additional 400 to 800 (appx) jobs on site when the plant is undergoing maintenance

Large influx of construction jobs during the construction of the gas plant
**ECONOMIC IMPACT**

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**Entered 150 Jobs in the Electronic Power Generation – Fossil Fuels NAICS Code**
## ECONOMIC IMPACT CONTINUED – INDUCED/INDIRECT INDUSTRIES IMPACTED

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<td>Full-service restaurants</td>
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<td>Offices of physicians</td>
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ECONOMIC IMPACT CONTINUED

- 2016 Sherco Property Tax Bill = $18,327,106
  - County = $6,452,892 (14%)
  - Becker School District = $3,204,458 (57%)
  - City of Becker = $4,563,863 (76%)

- 2016 Property Tax Bill of all other Commercial/Industrial properties in the City of Becker combined = $2,043,264

- Decommissioning Units 1 & 2 would reduce the City's revenue by an estimated 21%

- School District Referendum Levy = $4,335,998 (Sherco pays 42.1%)

- City Referendum Levy = $176,975 (Sherco pays 67.4%)
POPULATION GROWTH – CITY OF BECKER

- 1970: 365
- 1980: 601
- 1990: 902
- 2000: 2819
- 2010: 4538

- The City grew by 60.98% between 2000-2010.
- The County grew by 37.38% during the same time period.
- Minnesota grew by 7.81% during the same time period.
- Although the Sherco plant wasn’t the sole reason of population growth, it played a large role.
PHILANTHROPIC ACTIVITY

- Sherco Classic for United Way, $75,000
- Support for the Local Robotics Team
- Partnerships with Local Public Safety departments
- Annual Day of Volunteering
- Mississippi River Clean Up
- Local fire departments: training, safety gear and equipment, many employees serve as volunteer fire fighters in the region
CHALLENGES

- Time
  - Enough
- Infrastructure
  - Roads
  - Water
  - Sewer
- Transportation
  - Rail
  - Highway
STRATEGY: BUSINESS DEVELOPMENT

- Leverage assets currently in the ground
- Develop our way out of the transition away from coal
- Collaborate and Partner

- Time: 2023; 2026
- Highway Network: US 10; US 169; MN25; I94
- Robust/Redundant Power: Sherco; Monticello
- Power Options: carbon free, renewable
- Undeveloped Property: several thousand acres
- Real-estate that is conducive to business development: flat; stable soils
- Water: industrial; recreational
- Rail: BNSF; Xcel Energy’ spur; City’s spur
City of Oak Park Heights

Mayor Mary McComber
February 12, 2019
City of Oak Park Heights

• King plant is central to the community’s identity

• “As soon as I see the smokestack, I know I’m almost home”

• King plant occupies around 160 acres of shoreline on the St. Croix River
Oak Park Crossing Park
Pollinator Project
Challenges for post-plant development

- Replacing lost tax base

- Land Use Concerns
  - Plant’s footprint will be significant even after facility is retired
  - Coal ash storage limits options for redevelopment
  - Significant portions of St. Croix shoreline are not developable
  - Significant transmission line system currently limits options for development
Marshall Hallock
Administrative Business Director
Prairie Island Nuclear Generating Plant
Baseline Data

- Red Wing hosts the Prairie Island Nuclear Generating Plant
- Began operations in 1973
- Current licenses expire 2033 and 2034
- Regionally significant
- Greater than 50% of Red Wing’s Tax Base
- Approximately 700 good high paying full-time jobs (5.55% of total city employment)
- Approximately 800 – 1,000 additional contractors employed during refueling outages
- Vertically integrated in business community
Prairie Island Nuclear Generating Plant Challenges/Impacts/Unknowns Post-PINGP

• Timeline and tools
• Housing market
• Public schools
• Business community: from welding shops to the hotels and restaurants supporting the refueling outages
• Social and cultural fabric change – religious organizations, philanthropic organizations
• Legacy issues
Jeff O’Neill
City Administrator
50 Year Legacy

For nearly five decades, the plant has shaped our community
Plant’s Current Impact

• Plant is currently licensed through 2030
• Taxes from utility property contribute around 60% of city’s budget
• Plant not only provides power to the region, it also helps provide basic services to residents:
  – Transportation
  – Sewer & water
  – Law enforcement
Impacts beyond the plant’s life

- Replacing tax base

- Plant’s footprint is 10% of Monticello’s acreage

- Future uncertainty around nuclear waste storage impacts city planning

- Redevelopment challenges
The coming transition

• Eventual plant retirement will have broad-ranging, regional impacts

• Successful transition will be accomplished in part through:
  – State legislation to support communities
  – Continued partnership with the utilities
  – Local Government Aid
  – Employment training
Thank you
Non-Traditional Community Impacts

Heather Westra
Prairie Island Indian Community
Welch, Minnesota

February 12, 2019
Location

Prairie Island Indian Community
1/2 and 1 Mile Radius
Non-Traditional Impacts to the Prairie Island Indian Community

- Unique legal/political status
- Traditional/Cultural
- Community
- Economic consequences
- Financial
Towards Genuine Engagement

Community Power
February 12th, 2019
“If I had an hour to solve a problem, and my life depended on the solution, I would spend the first 55 minutes determining the proper question to ask, for once I know the proper question, I could solve the problem in less than 5 minutes” - Albert Einstein
Overview

- **Historical Grounding** - Why do we have Integrated Resource Plans?
- **Key Elements of Genuine Engagement** - How does process transform outcomes?
- **Critical Analysis** - What is missing?
- **Case Studies** - What does ‘engagement’ require?
- **Closing** - Where should we go from here?
Historical Grounding:

Why Do We Have Integrated Resources Plans?
● Inaccurate Forecasting & the Birth of the IRP: 1970s, California

● Risk & the Nuclear Question: 2000s, South Carolina

V.C. Summer Nuclear plant in South Carolina
Key Elements of Genuine Engagement:

How Does Process Transform Outcomes?
Quick Poll:

- Felis Catus
- Canis Lupus
- Cavia porcellus
What draws out full participation?

Timing
Structure
Clarity
Cultural context
Level of complexity
Transparency
Responsiveness to Input
Accountability
Trust

What limits participation?
Critical Analysis:

What is missing?
Example 1: Gridlab’s Local Model

Local scenario offers nearly highest savings for Minnesota customers.
Example 1: Gridlab’s Local Model

Local scenario means 13,000 megawatts of rooftop solar.
Example 2: Shift Efficiency to Decision Points

In Calif., High Cost Refrigerators Get Rebates
Percent that get rebates, by retail price

Less than $1000
More than $1000

But half of customers buy the cheapest model
(well under $1000)

Spend more
Buy the cheapest model
Example 2: Shift Efficiency to Decision Points

Make the efficient model the same price as the low-cost best seller.
Example 2: Shift Efficiency for Big Behavior Change

BEFORE: Share of sub-$500 washers sold

AFTER: Share of sub-$500 washers sold
Case Studies:

What Does “Engagement” Require?
Fate of $28 billion Georgia nuclear plant down to 'game of chicken'

Updated Sep 25, 2018; Posted Sep 25, 2018

PG&E spikes 75% after California investigators absolve utility of 2017 fire

PUBLISHED THU, JAN 24 2019 - 1:24 PM EST | UPDATED THU, JAN 24 2019 - 6:06 PM EST

Rancho Seco nuclear power station, closed down by referendum in 1989, California, United States

Residents of Sacramento, California, voted in June 1989 to shut down a 913 MW nuclear power plant, the first time voters decided to close a working reactor. The reasons were economic and environmental.
The Rules of Engagement

- Choice
- Democratic Process
- Shared Definitions of “Costs” & “Benefits”
- Transparency
- Clear Documentation
- Accountability
Closing:

Where Do We Go From Here?

Thank You!
CERTIFICATE OF SERVICE

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

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

electronic filing

Docket No.   E002/RP-15-21

Dated this 13th day of February 2019

/s/

Paget Pengelly
Regulatory Administrator
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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>Stoe Rives LLP</td>
<td>33 S. 6th Street Suite 2200 Minneapolis, MN 55402</td>
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<td>James</td>
<td>Denniston</td>
<td><a href="mailto:james.r.denniston@xcelenergy.com">james.r.denniston@xcelenergy.com</a></td>
<td>Xcel Energy Services, Inc.</td>
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<td>Ian</td>
<td>Dobson</td>
<td><a href="mailto:residential.utilities@ag.state.mn.us">residential.utilities@ag.state.mn.us</a></td>
<td>Office of the Attorney General-RUD</td>
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<td>John</td>
<td>Farrell</td>
<td><a href="mailto:jfarrell@ilsr.org">jfarrell@ilsr.org</a></td>
<td>Institute for Local Self-Reliance</td>
<td>1313 5th St SE #303 Minneapolis, MN 55414</td>
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<td>Sharon</td>
<td>Ferguson</td>
<td><a href="mailto:sharon.ferguson@state.mn.us">sharon.ferguson@state.mn.us</a></td>
<td>Department of Commerce</td>
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<td>Mike</td>
<td>Fiterman</td>
<td><a href="mailto:mikefiterman@libertydiversified.com">mikefiterman@libertydiversified.com</a></td>
<td>Liberty Diversified International</td>
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<td>J Drake</td>
<td>Hamilton</td>
<td><a href="mailto:hamilton@fresh-energy.org">hamilton@fresh-energy.org</a></td>
<td>Fresh Energy</td>
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<td>Hellwig</td>
<td><a href="mailto:kimberly.hellwig@stoel.co">kimberly.hellwig@stoel.co</a></td>
<td>Stoel Rives LLP</td>
<td>33 South Sixth Street Suite 4200 Minneapolis, MN 55402</td>
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<td>Annette</td>
<td>Henkel</td>
<td><a href="mailto:mui@mnutilityinvestors.org">mui@mnutilityinvestors.org</a></td>
<td>Minnesota Utility Investors</td>
<td>413 Wacouta Street #230 St. Paul, MN 55101</td>
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<td>Patrick</td>
<td>Hentges</td>
<td><a href="mailto:phentges@mankatomm.gov">phentges@mankatomm.gov</a></td>
<td>City Of Mankato</td>
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<td>Alan</td>
<td>Jenkins</td>
<td><a href="mailto:aj@jenkinsatlaw.com">aj@jenkinsatlaw.com</a></td>
<td>Jenkins at Law</td>
<td>2265 Roswell Road Suite 100 Marietta, GA 30062</td>
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<tr>
<td>Linda</td>
<td>Jensen</td>
<td><a href="mailto:linda.s.jensen@ag.state.mn.us">linda.s.jensen@ag.state.mn.us</a></td>
<td>Office of the Attorney General-DOC</td>
<td>1800 BRM Tower 445 Minnesota Street St. Paul, MN 551012134</td>
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<td>Richard</td>
<td>Johnson</td>
<td><a href="mailto:Rick.Johnson@lawmoss.com">Rick.Johnson@lawmoss.com</a></td>
<td>Moss &amp; Barnett</td>
<td>150 S. 5th Street Suite 1200 Minneapolis, MN 55402</td>
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<td>Sarah</td>
<td>Johnson Phillips</td>
<td><a href="mailto:sarah.phillips@stoel.com">sarah.phillips@stoel.com</a></td>
<td>Stoel Rives LLP</td>
<td>33 South Sixth Street Suite 4200 Minneapolis, MN 55402</td>
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<td>Mark J.</td>
<td>Kaufman</td>
<td><a href="mailto:mkaufman@ibewlocal949.org">mkaufman@ibewlocal949.org</a></td>
<td>IBEW Local Union 949</td>
<td>12908 Nicollet Avenue South Burnsville, MN 55337</td>
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<td>Hank</td>
<td>Koegel</td>
<td><a href="mailto:hank.koegel@edf-re.com">hank.koegel@edf-re.com</a></td>
<td>EDF Renewable Energy</td>
<td>10 2nd St NE Ste 400 Minneapolis, MN 55413-2652</td>
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<td>Thomas</td>
<td>Koehler</td>
<td><a href="mailto:TGK@IBEW160.org">TGK@IBEW160.org</a></td>
<td>Local Union #160, IBEW</td>
<td>2909 Anthony Ln St Anthony Village, MN 55418-3238</td>
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<td>Frank</td>
<td>Kohlasch</td>
<td><a href="mailto:frank.kohlasch@state.mn.us">frank.kohlasch@state.mn.us</a></td>
<td>MN Pollution Control Agency</td>
<td>520 Lafayette Rd N. St Paul, MN 55155</td>
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<td>Michael</td>
<td>Krikava</td>
<td><a href="mailto:mkrikava@briggs.com">mkrikava@briggs.com</a></td>
<td>Briggs And Morgan, P.A.</td>
<td>2200 IDS Center 80 S 8th St Minneapolis, MN 55402</td>
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<td>Peder</td>
<td>Larson</td>
<td><a href="mailto:plarson@larkinhoffman.com">plarson@larkinhoffman.com</a></td>
<td>Larkin Hoffman Daly &amp; Lindgren, Ltd.</td>
<td>8300 Norman Center Drive Suite 1000 Bloomington, MN 55402</td>
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<tr>
<td>Douglas</td>
<td>Larson</td>
<td><a href="mailto:dlarson@dakotaelectric.com">dlarson@dakotaelectric.com</a></td>
<td>Dakota Electric Association</td>
<td>4300 220th St W Farmington, MN 55024</td>
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<td>Peter</td>
<td>Madsen</td>
<td><a href="mailto:peter.madsen@ag.state.mn.us">peter.madsen@ag.state.mn.us</a></td>
<td>Office of the Attorney General-DOC</td>
<td>Bremer Tower, Suite 1800 445 Minnesota Street St Paul, Minnesota 55101</td>
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<td>Kavita</td>
<td>Maini</td>
<td><a href="mailto:kmaini@wi.rr.com">kmaini@wi.rr.com</a></td>
<td>KM Energy Consulting LLC</td>
<td>961 N Lost Woods Rd Oconomowoc, WI 53066</td>
<td>Electronic Service</td>
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<td>Pam</td>
<td>Marshall</td>
<td><a href="mailto:pam@energycents.org">pam@energycents.org</a></td>
<td>Energy CENTS Coalition</td>
<td>823 7th St E St Paul, MN 55106</td>
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<td>Mary</td>
<td>Martinka</td>
<td><a href="mailto:mary.a.martinka@xcelenergy.com">mary.a.martinka@xcelenergy.com</a></td>
<td>Xcel Energy Inc</td>
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<td>Daryl</td>
<td>Maxwell</td>
<td><a href="mailto:dmaxwell@hydro.mb.ca">dmaxwell@hydro.mb.ca</a></td>
<td>Manitoba Hydro</td>
<td>360 Portage Ave FL 16 PO Box 815, Station Main Winnipeg, Manitoba R3C 2P4</td>
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<td>Brian</td>
<td>Meloy</td>
<td><a href="mailto:brian.meloy@stinson.com">brian.meloy@stinson.com</a></td>
<td>Stinson, Leonard, Street LLP</td>
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<td>David</td>
<td>Moeller</td>
<td><a href="mailto:dmoeller@allete.com">dmoeller@allete.com</a></td>
<td>Minnesota Power</td>
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<td><a href="mailto:alan@greendel.org">alan@greendel.org</a></td>
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<td>Carl</td>
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<td><a href="mailto:cnelson@mncee.org">cnelson@mncee.org</a></td>
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<td>J</td>
<td>Newberger</td>
<td><a href="mailto:jnewberger1@yahoo.com">jnewberger1@yahoo.com</a></td>
<td>State Rep</td>
<td>14225 Balsam Blvd Becker, MN 55308</td>
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<td>David</td>
<td>Niles</td>
<td><a href="mailto:david.niles@avantenergy.com">david.niles@avantenergy.com</a></td>
<td>Minnesota Municipal Power Agency</td>
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<td>Carol A.</td>
<td>Overland</td>
<td><a href="mailto:overland@legalectric.org">overland@legalectric.org</a></td>
<td>Legalectric - Overland Law Office</td>
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<td><a href="mailto:gpruszinske@ci.becker.mn.us">gpruszinske@ci.becker.mn.us</a></td>
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<td>Kevin</td>
<td>Reuther</td>
<td><a href="mailto:kreuther@mncenter.org">kreuther@mncenter.org</a></td>
<td>MN Center for Environmental Advocacy</td>
<td>26 E Exchange St, Ste 206 St Paul, MN 551011667</td>
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<td>Richard</td>
<td>Savelkoul</td>
<td><a href="mailto:rsavelkoul@martinsquires.com">rsavelkoul@martinsquires.com</a></td>
<td>Martin &amp; Squires, P.A.</td>
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<td>Larry L.</td>
<td>Schedin</td>
<td><a href="mailto:Larry@LLSResources.com">Larry@LLSResources.com</a></td>
<td>LLS Resources, LLC</td>
<td>332 Minnesota Sreet Ste W1990 St Paul, MN 55101</td>
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</tr>
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<td>Janet</td>
<td>Shaddix Elling</td>
<td><a href="mailto:jshaddix@janetshaddix.com">jshaddix@janetshaddix.com</a></td>
<td>Shaddix And Associates</td>
<td>7400 Lyndale Ave S Ste 190 Richfield, MN 55423</td>
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<td>Jessie</td>
<td>Smith</td>
<td><a href="mailto:jseim@piic.org">jseim@piic.org</a></td>
<td>Prairie Island Indian Community</td>
<td>5636 Sturgeon Lake Rd Welch, MN 55089</td>
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<td>Ken</td>
<td>Smith</td>
<td><a href="mailto:ken.smith@districtenergy.com">ken.smith@districtenergy.com</a></td>
<td>District Energy St. Paul Inc.</td>
<td>76 W Kellogg Blvd St Paul, MN 55102</td>
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<tr>
<td>Joshua</td>
<td>Smith</td>
<td><a href="mailto:joshua.smith@sierraclub.org">joshua.smith@sierraclub.org</a></td>
<td></td>
<td>85 Second St FL 2 San Francisco, California 94105</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>
<td>570 Asbury Street Suite 201 St Paul, MN 55104</td>
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<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>
<td>Electronic Service</td>
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<td>Mark</td>
<td>Spurr</td>
<td><a href="mailto:mspurr@fvbenergy.com">mspurr@fvbenergy.com</a></td>
<td>International District Energy Association</td>
<td>222 South Ninth St., Suite 825 Minneapolis, Minnesota 55402</td>
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<td>Byron E.</td>
<td>Starns</td>
<td><a href="mailto:byron.starns@stinson.com">byron.starns@stinson.com</a></td>
<td>Stinson Leonard Street LLP</td>
<td>50 S 6th St Ste 2600 Minneapolis, MN 55402</td>
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<td>James M.</td>
<td>Strommen</td>
<td><a href="mailto:jstrommen@kennedy-graven.com">jstrommen@kennedy-graven.com</a></td>
<td>Kennedy &amp; Graven, Chartered</td>
<td>470 U.S. Bank Plaza 200 South Sixth Street Minneapolis, MN 55402</td>
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<td>OFF_SL_15-21_Official</td>
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<td>Eric</td>
<td>Swanson</td>
<td><a href="mailto:eswanson@winthrop.com">eswanson@winthrop.com</a></td>
<td>Winthrop &amp; Weinstine</td>
<td>225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629</td>
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<td>Lynnette</td>
<td>Sweet</td>
<td>Regulatory.records@xcele nergy.com</td>
<td>Xcel Energy</td>
<td>414 Nicollet Mall FL 7 Minneapolis, MN 554011993</td>
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<tr>
<td>Douglas</td>
<td>Tiffany</td>
<td><a href="mailto:tiffa002@umn.edu">tiffa002@umn.edu</a></td>
<td>University of Minnesota</td>
<td>316d Ruttan Hall 1994 Buford Avenue St. Paul, MN 55108</td>
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<td>Julie</td>
<td>Voeck</td>
<td><a href="mailto:julie.voeck@nee.com">julie.voeck@nee.com</a></td>
<td>NextEra Energy Resources, LLC</td>
<td>700 Universe Blvd Juno Beach, FL 33408</td>
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<td>Samantha</td>
<td>Williams</td>
<td><a href="mailto:swilliams@nrdc.org">swilliams@nrdc.org</a></td>
<td>Natural Resources Defense Council</td>
<td>20 N. Wacker Drive Ste 1600 Chicago, IL 60606</td>
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<td>Daniel P</td>
<td>Wolf</td>
<td><a href="mailto:dan.wolf@state.mn.us">dan.wolf@state.mn.us</a></td>
<td>Public Utilities Commission</td>
<td>121 7th Place East Suite 350 St. Paul, MN 551012147</td>
<td>Electronic Service</td>
<td>Yes</td>
<td>OFF_SL_15-21_Official</td>
</tr>
<tr>
<td>Jonathan G.</td>
<td>Zierdt</td>
<td><a href="mailto:jzierdt@greatermankato.com">jzierdt@greatermankato.com</a></td>
<td>Greater Mankato Growth</td>
<td>1961 Premier Dr Ste 100 Mankato, MN 56001</td>
<td>Electronic Service</td>
<td>No</td>
<td>OFF_SL_15-21_Official</td>
</tr>
<tr>
<td>Patrick</td>
<td>Zomer</td>
<td><a href="mailto:Patrick.Zomer@lawmoss.com">Patrick.Zomer@lawmoss.com</a></td>
<td>Moss &amp; Barnett a Professional Association</td>
<td>150 S. 5th Street, #1200 Minneapolis, MN 55402</td>
<td>Electronic Service</td>
<td>No</td>
<td>OFF_SL_15-21_Official</td>
</tr>
</tbody>
</table>