



414 Nicollet Mall
Minneapolis, MN 55401

July 22, 2025

—Via Electronic Filing—

Mike Bull
Acting Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: STAKEHOLDER OUTREACH –MEETING 1: 2025
SITE REMEDIATION PLANS FOR DECOMMISSIONING THE SHERCO PLANT
DOCKET NOS. E002/M-22-263 & E002/RP-19-368

Dear Mr. Bull:

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission the materials from our first 2025 Sherburne County Generating (Sherco) Plant stakeholder outreach meeting.¹ The materials are provided as Attachment A.

We appreciate the opportunity to host these meetings to provide information to Sherco Plant stakeholders. At the June 11, 2025, meeting we provided an update on plant operations, and overviews of projects in and around the Sherco Plant including: Sherco Solar, the MN Energy Connection, the Lyon County Combustion Turbine, the Natural Gas Innovation Act Hydrogen Project, and the Form Energy and Sherco Battery Energy Storage System projects. Prior to the meeting, several stakeholders participated in a tour of the Sherco Solar project that we had offered to all stakeholders as part of this outreach meeting.

We have electronically filed this document, and copies have been served on the parties on the attached service lists. Please contact me at patricia.b.leaf@xcelenergy.com if you have any questions regarding this filing.

Sincerely,

/s/

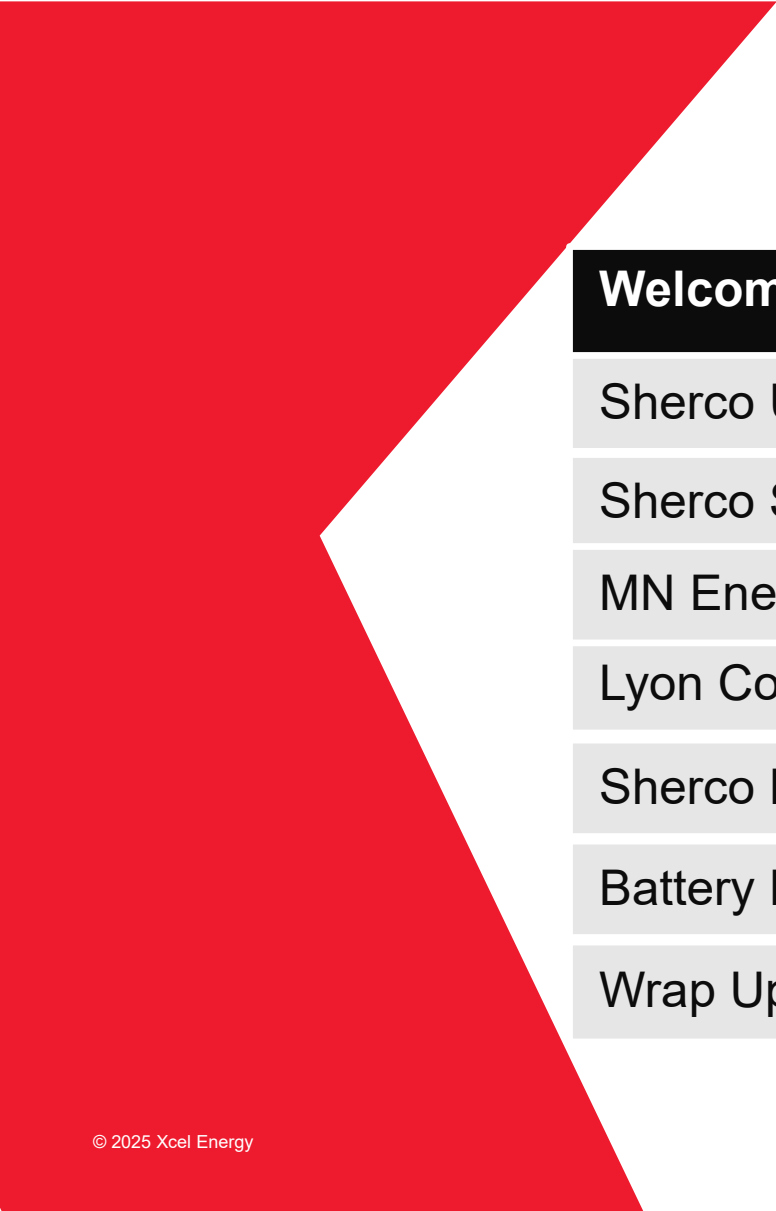
PATTI LEAF
REGULATORY POLICY SPECIALIST

Enclosures
cc: Service Lists

¹ The Workshop was hosted consistent with the Commission's April 15, 2022 Order in Docket No. E002/RP-19-368.



SHERCO GENERATING PLANT COMMUNITY STAKEHOLDER OUTREACH JUNE 11, 2025



Welcome

Sherco Update

Sherco Solar Update

MN Energy Connection Update

Lyon County CT Update

Sherco NGIA Hydrogen Project Update

Battery Projects

Wrap Up



Patti Leaf

Regulatory Policy Specialist

WELCOME

- Welcome environment for all.
- Sherco Plant update, Sherco Energy Hub Project Updates
- Plenty of time for questions and input.

Welcome

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Michelle Neal
Senior Plant Director

Sherco Plant Update

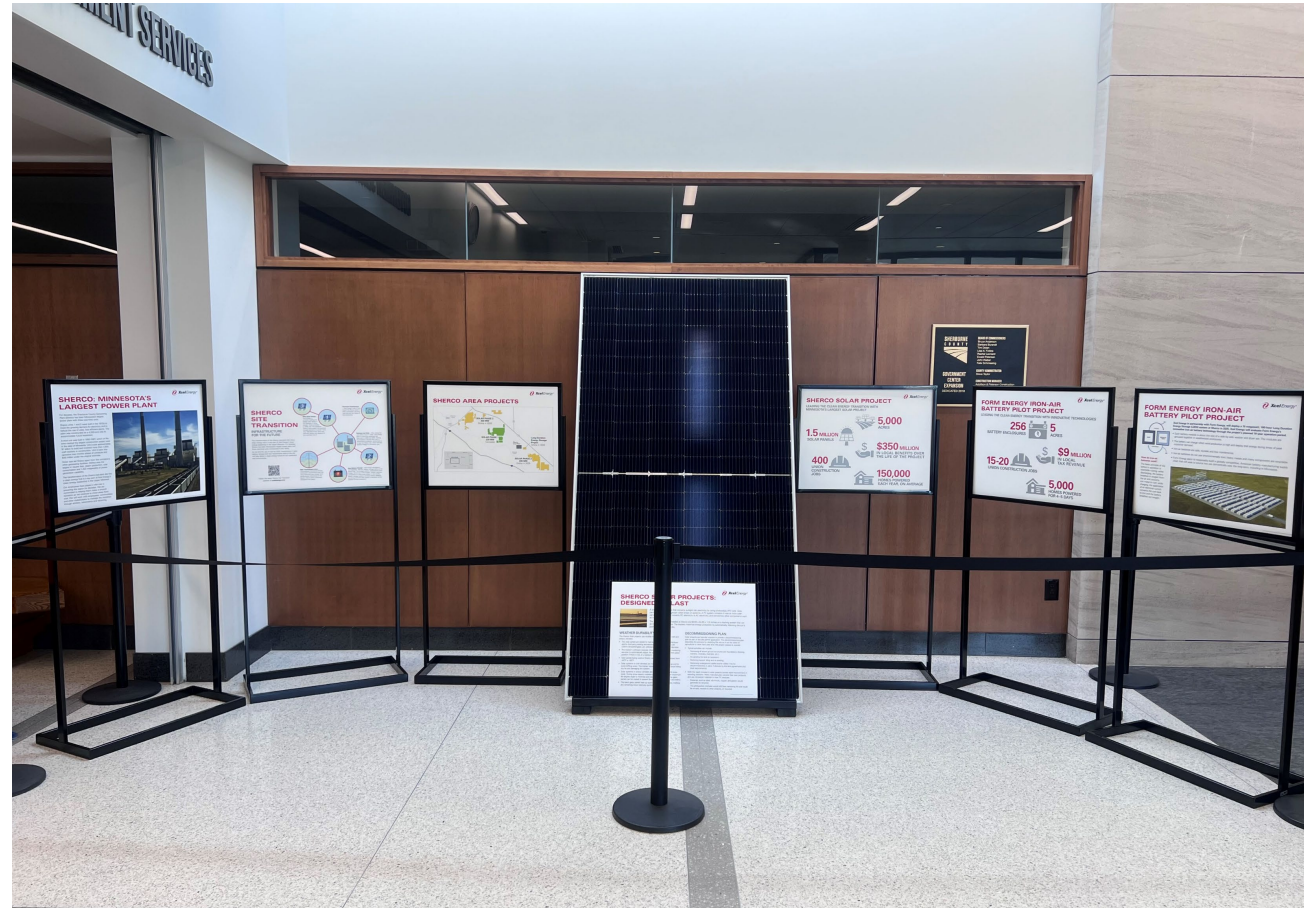
- Unit 1 retirement December 2026
 - Currently in an outage expected return 6/13
- Unit 3 retirement December 2030
 - Currently in a summer readiness outage expected return 6/13
- Sherco Job Fair occurred on April 1, 2025
 - 25 individuals from 15 different areas (Breaker, Relay, Nuclear Maintenance, Gas, Quality Assurance, Trucking, Underground, Transmission, Electric Meter, Logistics, ERC, OH Monti, St. Cloud, Facilities, Riverside) of Xcel Energy discussed their job functions with over 60 individuals from the Sherco team.



Michelle Schmitz
Community Relations Manager

Sherco Energy Hub Exhibit

- Located in the Sherburne County Government Center
- Informing the community about renewable energy transition
- Features a solar panel and information on the Sherco plant's history, local projects and solar facts
- QR code for up-to-date information
- Future updates will cover the Minnesota Energy Connection and other developments





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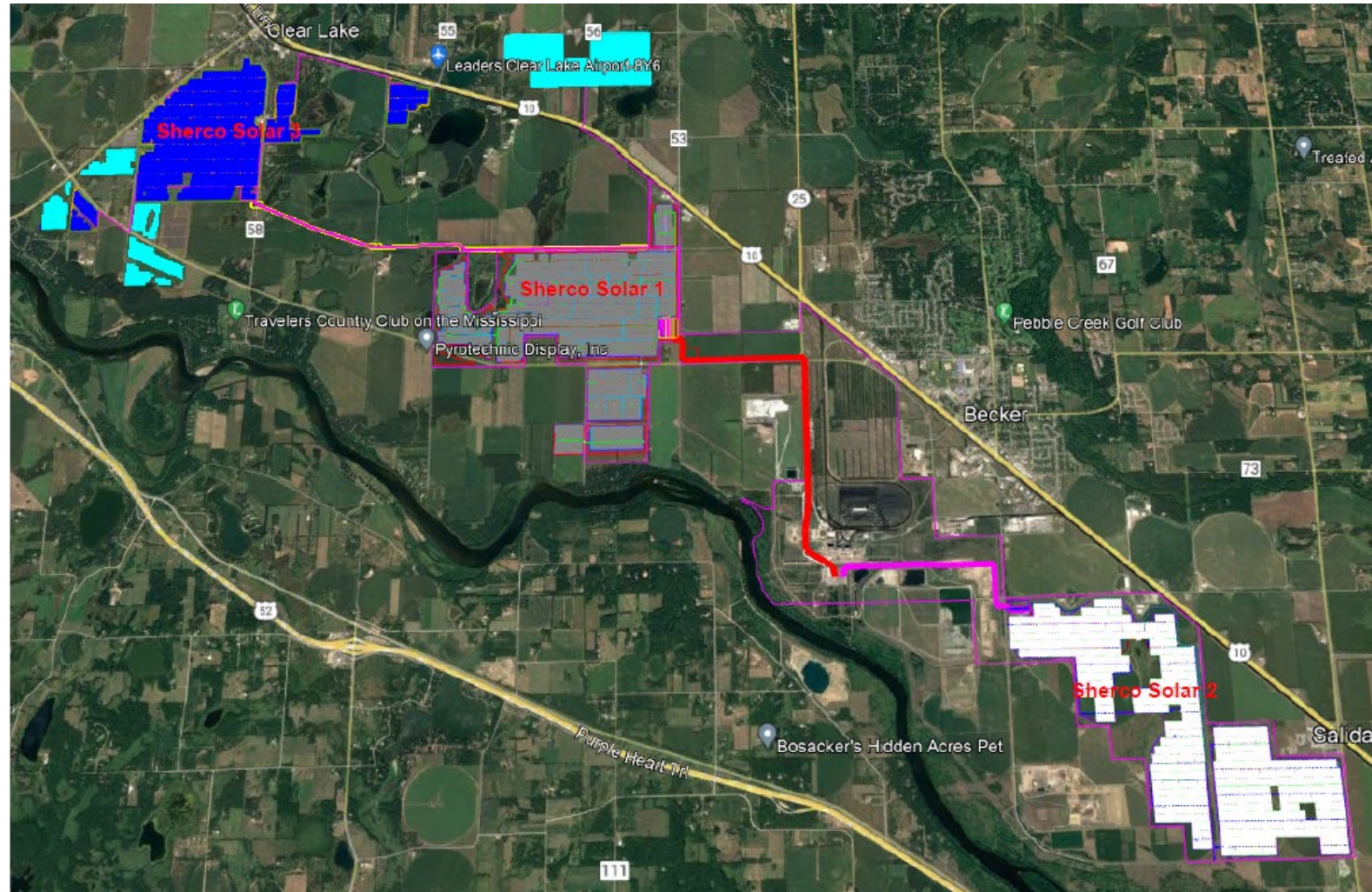
Wrap Up



Luke Molus

Sherco Solar – Site Operations Manager

Sherco Solar 1-3



Sherco Solar - Project Overview

Sherco Solar				
Project	Capacity	Budgeted CapEx	Budgeted LCOE	ISD/COD
SS1	223 MW	\$355M	N/A	October-24
SS2	237 MW	\$344M	N/A	October-25
SS1&2	460 MW	\$690M	\$67.97	See Above
SS3	250 MW	\$433M	\$55.17	August-26
Entire Site	710 MW	\$1.097B		

Sherco Solar - Project Overview

	Land (Acres)	Modules (panels)	Power Blocks (PB)
SS1	1,653	529,227	63
SS2	1,825	547,299	67
SS3	1,750	554,688	71

Sherco Solar Updates



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- **Commissioning is well under way for Sherco Solar 2.**
- **Construction on Sherco Solar 3 is in full swing and tracker pile has started**
- **Best way to explain solar construction – Its an assembly line where the people move and the equipment is stationary**



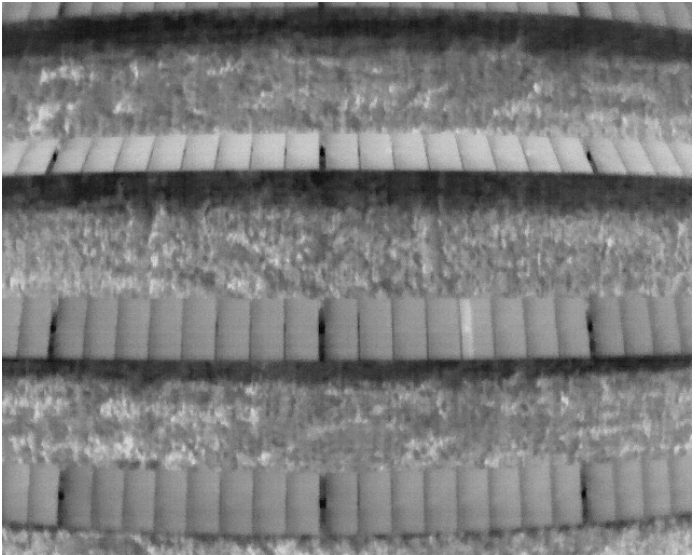
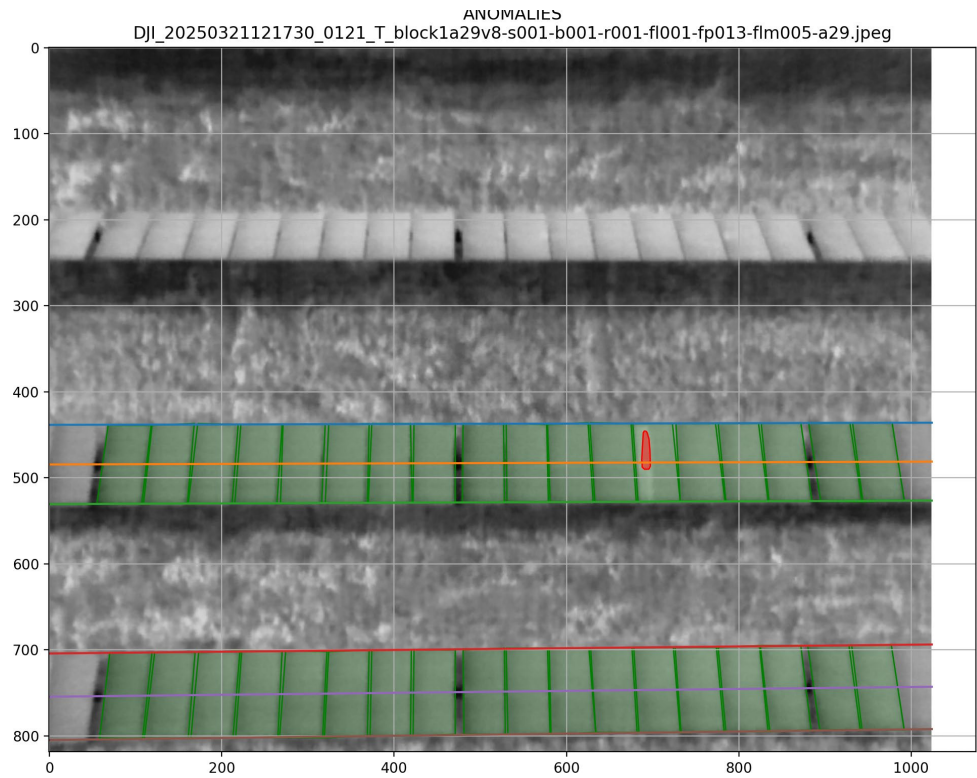
16

SHERCO SOLAR DRONE IN A BOX TECHNOLOGY

- Fully autonomous flights
- Can fly for 35 minutes depending on wind conditions
- Cost savings through identification of module issues and no need for manual scanning of the site



Sherco Solar Drone Scanning



Vegetation Management Grazing - Sheep



- **There are about 1,000+ sheep onsite currently at Sherco Solar 1**
- **400 of the sheep came to site ready to lamb**
- **Sheep have grazed a few hundred acres in just one month**





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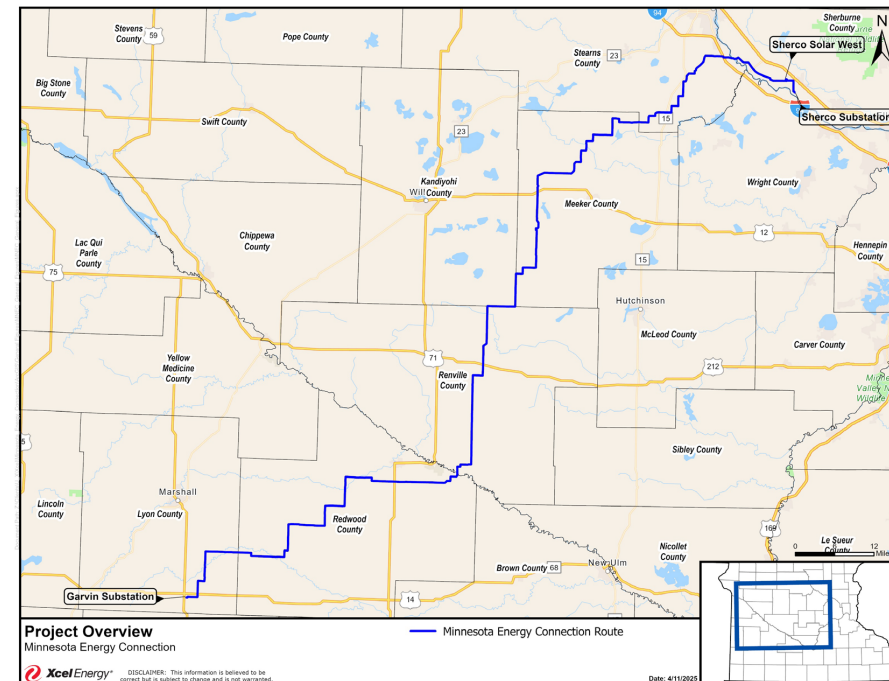
Randy Fordice

Manager, Transmission Communications and Public Affairs

MN ENERGY CONNECTION

➤ Background:

- Approximately 180-mile double-circuit 345 kV transmission line connecting wind-rich southwest Minnesota with existing grid connections at Sherco plant
- Will deliver renewable and always-available energy to customers throughout the Upper Midwest
- Minnesota Public Utilities Commission approved Certificate of Need and Route Permit on April 10, 2025 (pending written Order)
- Construction to begin May 2026



Transmission Line Construction



Construction Photos—Drilling Foundations



Construction—Setting Structures



Construction—Stringing Conductor





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Michael Aasen

Development Project Manager

Lyon County Generating Station

Dispatchable Power and Grid Support

- Located at the end of the MNEC tie-line to Sherco near Garvin, MN
- 420 MW natural gas-fired power plant (2 x 210MW combustion turbines)
- Will operate when renewables aren't available and at peak usage times
- Reliable, affordable energy for Upper Midwest electric customers
- Synchronous Condenser functionality for grid support

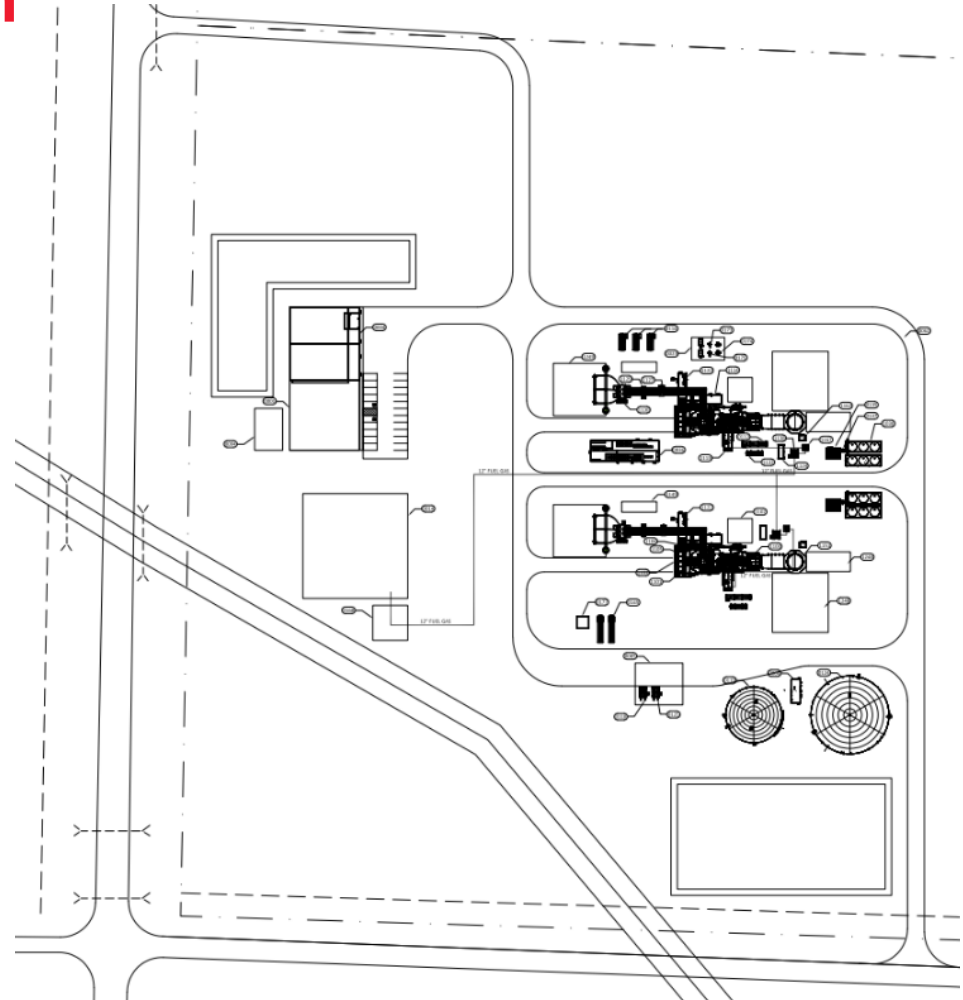


*Conceptual rendering of a generic CT plant

Lyon County Generating Station

Dispatchable Power and Grid Support

- Existing Natural Gas Pipeline runs through plant property
- Fast start capability – 12 min to base load
- Fast ramp rate – up to +/- 32MW/min to follow renewable loads
- Planned to be in service December 2028.



Minnesota Regulatory Processes

- Minnesota Public Utilities Commission approvals required
 - Combined Certificate of Need and Site Permit submitted May 9, 2025
 - Includes Route Permit (short distance for pipeline and transmission line connections to power plant and substation)
- Minnesota Pollution Control Agency approval required
 - Air permit application to be submitted by June 16, 2025

Contact Us

- Project information available at:
 - Web: www.XcelEnergy.com (click on 'projects near you')
 - Phone: 612-330-6540
 - Email: LyonCountyStation@xcelenergy.com



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Nick Lumley, PE

*Manager, Thermal & Emerging Technology
Development*

SHERCO NGIA HYDROGEN PROJECT

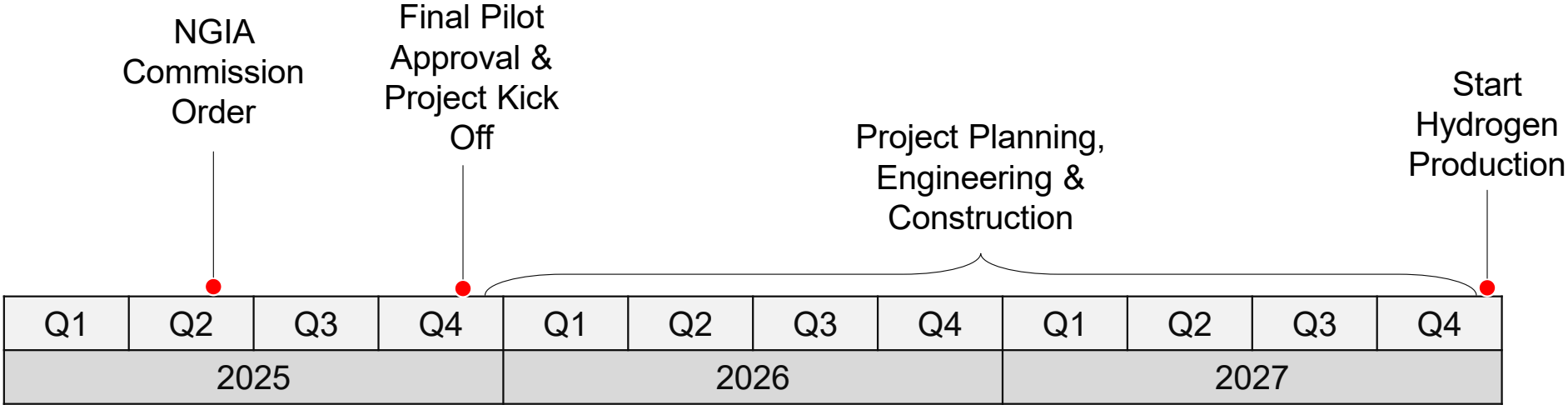
Hydrogen Blending for Sherco Auxiliary Boiler

- On-site hydrogen production and blending into the Sherco auxiliary boiler system
- Gain company and operator experience with hydrogen technology for future deployment
- Reduce CO2 emissions from boiler
- Small, containerized system located at Sherco.
- Hydrogen technology is well-understood, mature, and safe.
 - Decades of safe history in power, oil & gas, chemicals, fertilizers, and other industries.
 - Hydrogen is flammable, but non-toxic and non-polluting.
 - Hydrogen won't leave the plant site – no impact on Xcel natural gas customers.



Image generated by author and representative of equipment size; project may differ in setting and configuration

Proposed Schedule



SHERCO NGIA HYDROGEN PROJECT

Economics and Operations

➤ Economics

- Project supported by NGIA, rates for this project only apply to industrial customers
- Project is intended to be economically beneficial to customers under existing tax policy
- 45V tax credits at up to \$3/kg
 - Up to ~\$5.36M/yr in tax credits available
 - Could be impacted by Federal policy changes

➤ Staffing

- Project expected to have direct effect of over 145 job-years including construction
- 3-5 full-time skilled positions to operate and maintain the project with other staff rotating in for learning
- Operators and maintenance technicians will develop skills useful for future hydrogen projects

➤ Emissions offsets

- Up to 70,000 tonnes CO₂ avoided over the project lifecycle

METRICS & LEARNING OBJECTIVES

Metrics



- Consumption data for the electrolyzer
- Operational performance of electrolyzer utilizing renewable sources
- Operational cost of H2 production and storage
- Capacity Utilization Factor

Learning Objectives

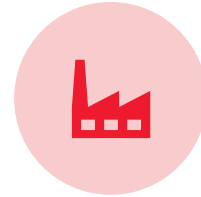


- Gain experience building and operating a H2 system including storage, gas blending skid, injection into existing gas pipeline
- Gain experience generating H2 with renewable energy
- Gather data and learn about hydrogen interaction of blending into pipelines and auxiliary boiler

Justification for Inclusion in NGIA



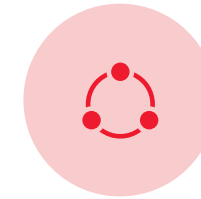
NGIA statute requires 50% of budget for gaseous fuels – plan includes RNG & H2



Scalability potential for offtake to surrounding industries



State support for H2 to meet carbon goals; eNGOs support industrial use



Small pilot under state & company control to assess potential



Experience in building and operating H2 system using renewable resources



Just transition: new career pathways for existing Sherco employees



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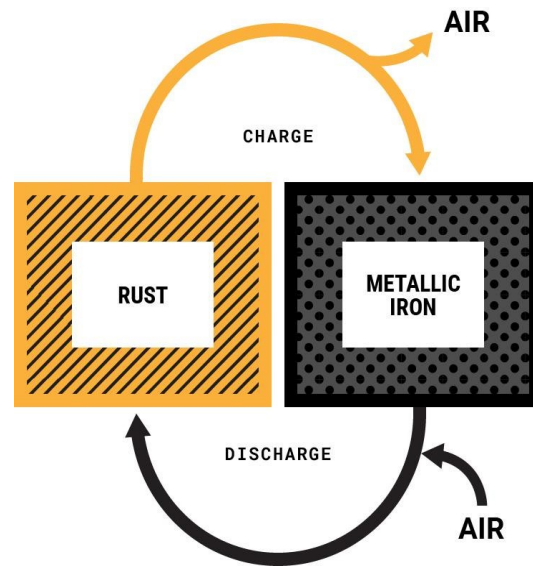
Battery Projects

Wrap Up

Form Energy
Hyde Weissenfluh
External Affairs & Policy Analyst

Form Energy Long Duration Energy Storage

Deploy Multiday Storage (MDS) Systems, 10 MW / 100-hour discharge



Partners: Xcel Energy, Form Energy, Argonne National Lab

Technology: Form Energy Iron-air batteries

Scale: 1GWh of LDES

Lab Support: Technology Validations, Energy System Analysis, Community & Workforce, Economic Analysis



Construction & Operations



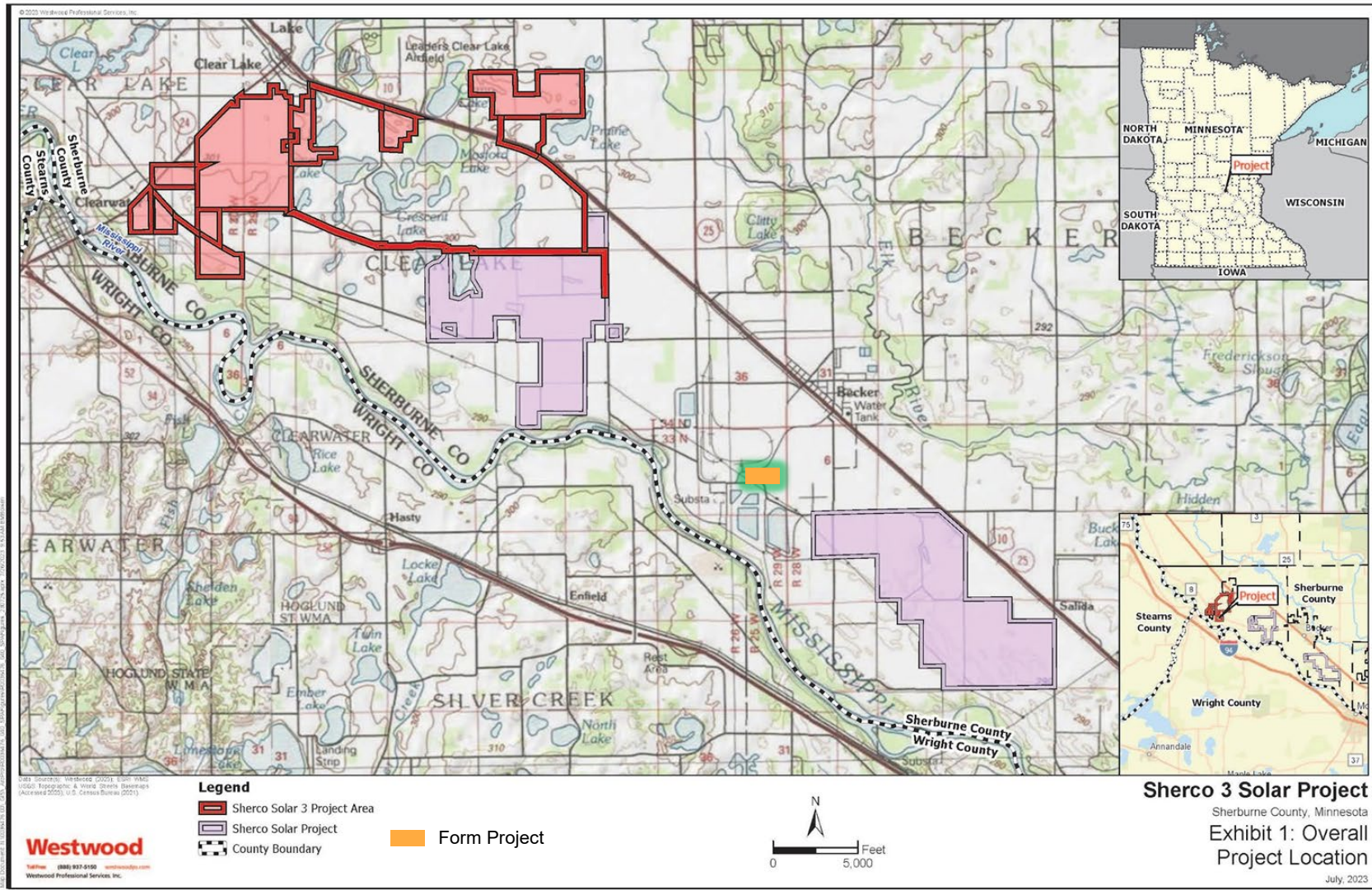
Project Delivery

Battery Delivery

- Form Factory 1 – first high-volume battery manufacturing facility opened in 2024
- Form experienced challenges to scaling production. The Company now expects battery deliveries in the second half of 2026, supporting a commercial operations date for the project in Q4 2026 to Q2 2027.

Federal Funding

- Received questions from the DOE on the benefits of this project.
- Continue submitting monthly invoices for reimbursable project costs.
- Have not received DOE approval to move from Budget Period 1 to Budget Period 2 (construction)



Sherco BESS
Jordan Clitty

Project Manager, Renewables Development

**Sherco Battery
Energy Storage
System (BESS)
Project Area**



SHERCO BESS INFORMATION

- Two (2) 300 MW / 1,200 MWh projects
 - Total 600 MW / 2,400 MWh
 - Sherco South is still part of an active RFP
- ~Q4 2027 Commercial Operation Dates
 - Construction starting ~Q3 2026
- Lithium Iron Phosphate (LFP) battery cell technology
 - Strong safety performance (high thermal stability & low flammability limit)
- Will be constructed by Blattner
 - Expected to have over 100 construction jobs during peak activities
 - 3-6 Full Time Employees after placed in service
- Site will have cameras strategically placed to have remote monitoring capability 24/7

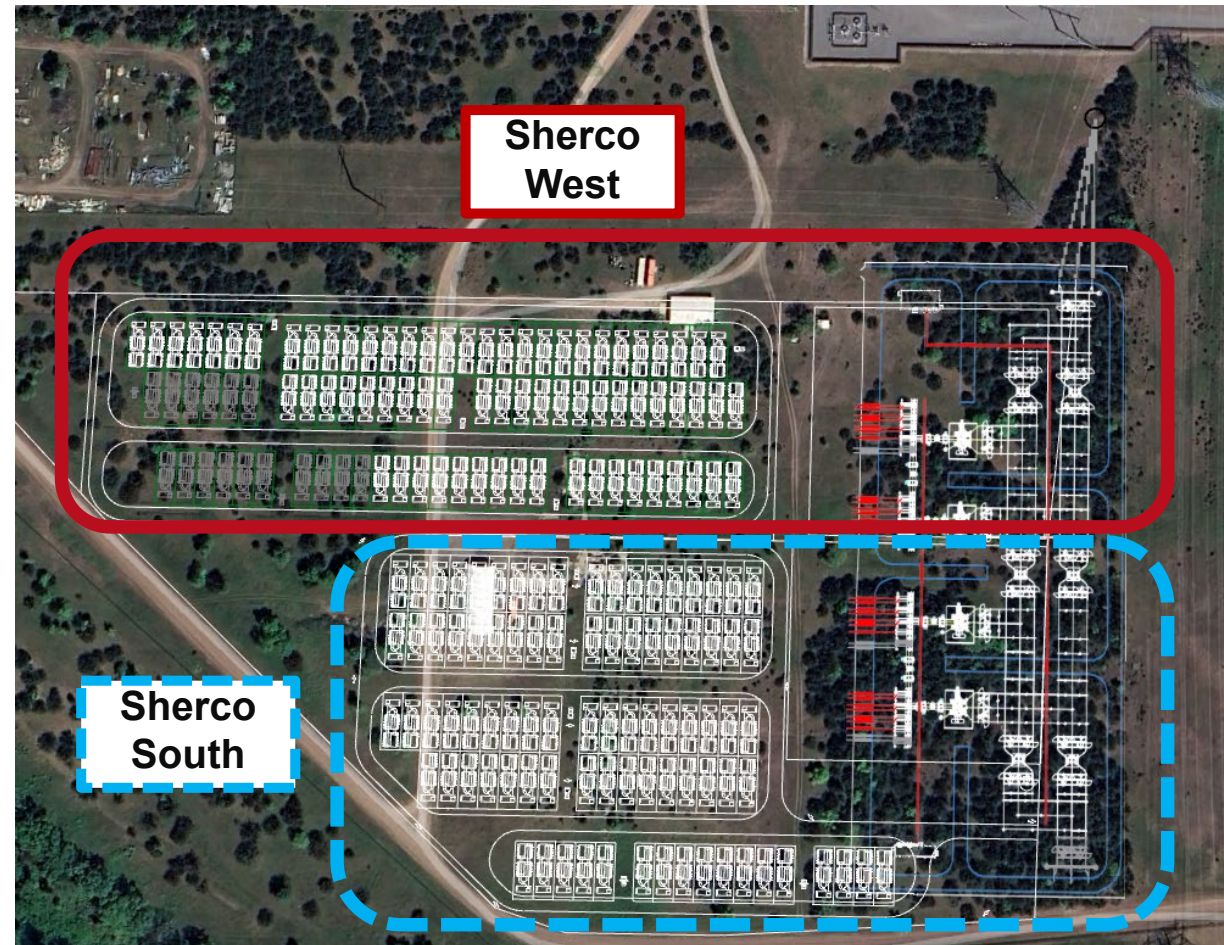
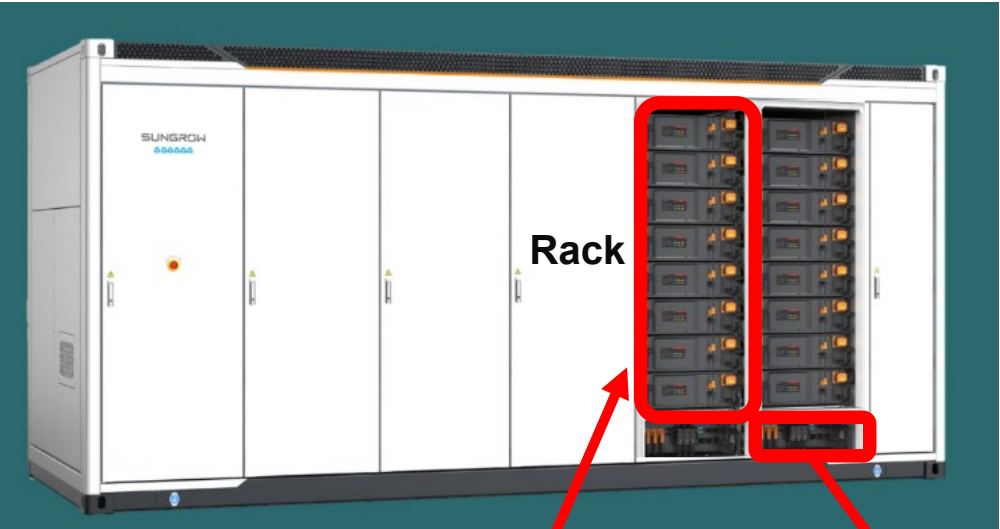


Figure 1 – Image Represents Preliminary Site Layout

SUNGROW EQUIPMENT – BESS ENCLOSURES & MV SKIDS

Power Titan 2.0 BESS Enclosure (5,015 kWh)



Rack



Battery Cell
(314 Ah capacity)



Module (or Pack)
(1,500+ lbs)

**Power Conversion
System (PCS)**
(210 kW AC output power)

Medium Voltage Transformer Skid
(5,140 kVA rated power)





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What's Next?

- Other Updates Roundtable
- Slides will be posted to:
Sherco Remediation Plans Docket No:E002/M22-263
- Next Meeting second half, 2025
- Send Meeting Topic Ideas to:
Patricia.B.Leaf@xcelenergy.com
- Thanks for your continued participation!



Input and Questions?



THANKS FOR JOINING US!

CERTIFICATE OF SERVICE

I, Christine Schwartz, 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-22-263
E002/RP-19-368

Dated this 22nd day of July 2025

/s/

Christine Schwartz
Regulatory Administrator

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16	Brian	Edstrom	briane@cubminnesota.org	Citizens Utility Board of Minnesota		332 Minnesota St Ste W1360 Saint Paul MN, 55101 United States	Electronic Service		No	22-263M-22-263
17	John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance		2720 E. 22nd St Institute for Local Self-Reliance Minneapolis MN, 55406 United States	Electronic Service		No	22-263M-22-263
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78	Scott	Strand	sstrand@elpc.org	Environmental Law & Policy Center		60 S 6th Street Suite 2800 Minneapolis MN, 55402 United States	Electronic Service		No	22-263M-22-263
79	James M	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered		150 S 5th St Ste 700 Minneapolis MN, 55402 United States	Electronic Service		No	22-263M-22-263
80	Julie	Voeck	julie.voeck@nee.com	NextEra Energy Resources, LLC		700 Universe Blvd Juno Beach FL, 33408 United States	Electronic Service		No	22-263M-22-263

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82	Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine		225 South Sixth Street, Suite 3500 Minneapolis MN, 55402 United States	Electronic Service		No	22-263M-22-263
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84	Kurt	Zimmerman	kwz@ibew160.org	Local Union #160, IBEW		2909 Anthony Ln St Anthony Village MN, 55418-3238 United States	Electronic Service		No	22-263M-22-263
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14	George	Crocker	gwillc@nawo.org	North American Water Office		5093 Keats Avenue Lake Elmo MN, 55042 United States	Electronic Service		No	19-36819-368_Official
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16	J.	Drake Hamilton	hamilton@fresh-energy.org	Fresh Energy		408 St Peter St Ste 350 Saint Paul MN, 55101 United States	Electronic Service		No	19-36819-368_Official
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