

Northland Reliability Project



Stakeholder Workshops

October 2022

Agenda

- Safety Moment
- Introductions
- Project Overview
- Question & Answer Section
- Mapping Exercise
- Wrap Up

Safety moment

- Exits
- Restrooms
- AED
- First Aid + CPR Certified



Introductions

- Name
- Organization
- Role
- What you are most interested to learn today



Today's workshop goals

- Introduce the project
- Gather community insights
- Collect data to support the routing process
- Identify questions prior to future public engagement



Northland Reliability Project

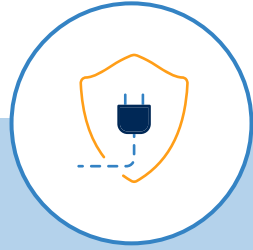


Fulfilling a need



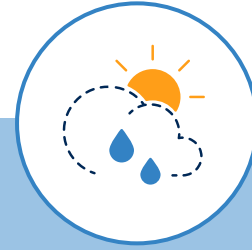
Maintaining Reliability

Providing system support as fossil-fueled baseload generation is retired



Enabling Clean Energy

Facilitating increased capacity to safely and reliably deliver clean energy from where it's produced to where it's needed by our customers and members



Creating Resiliency

Enhancing system resiliency during extreme weather events

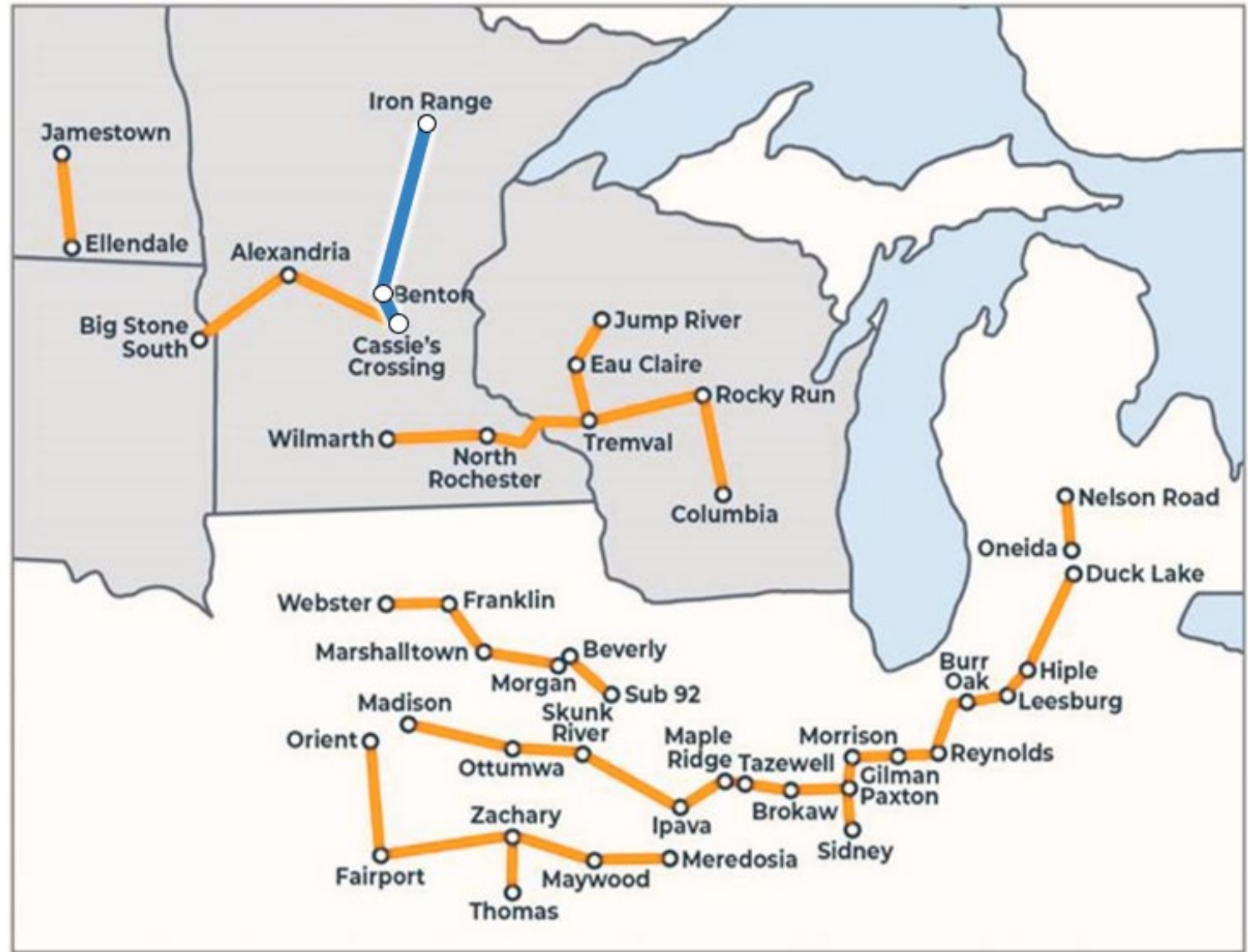


Providing Flexibility

Planning proactively to meet changing customer and members' power needs due to decarbonization and electrification

MISO-approved project: part of a regional plan

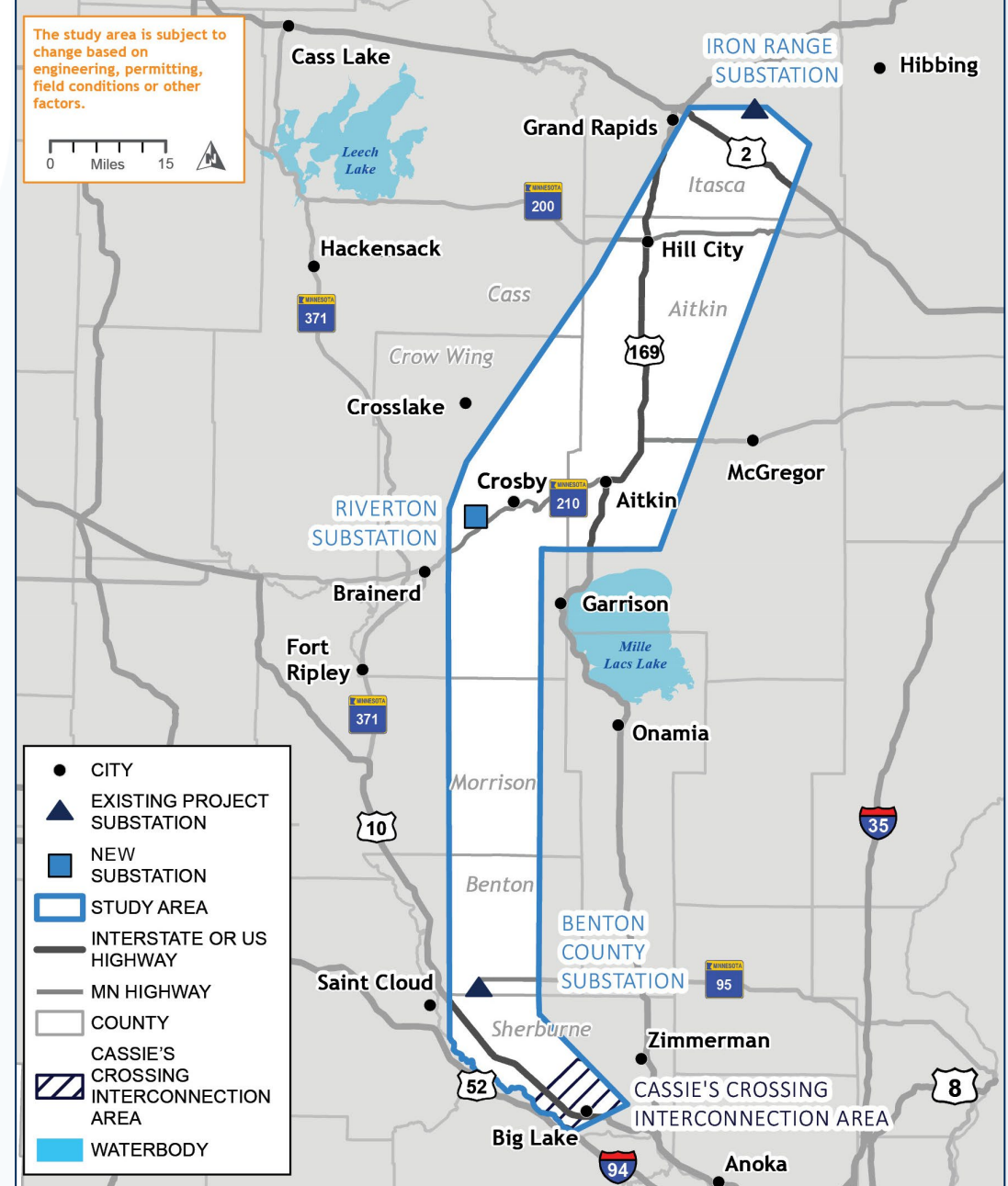
Learn more at
misoenergy.org



Our study area

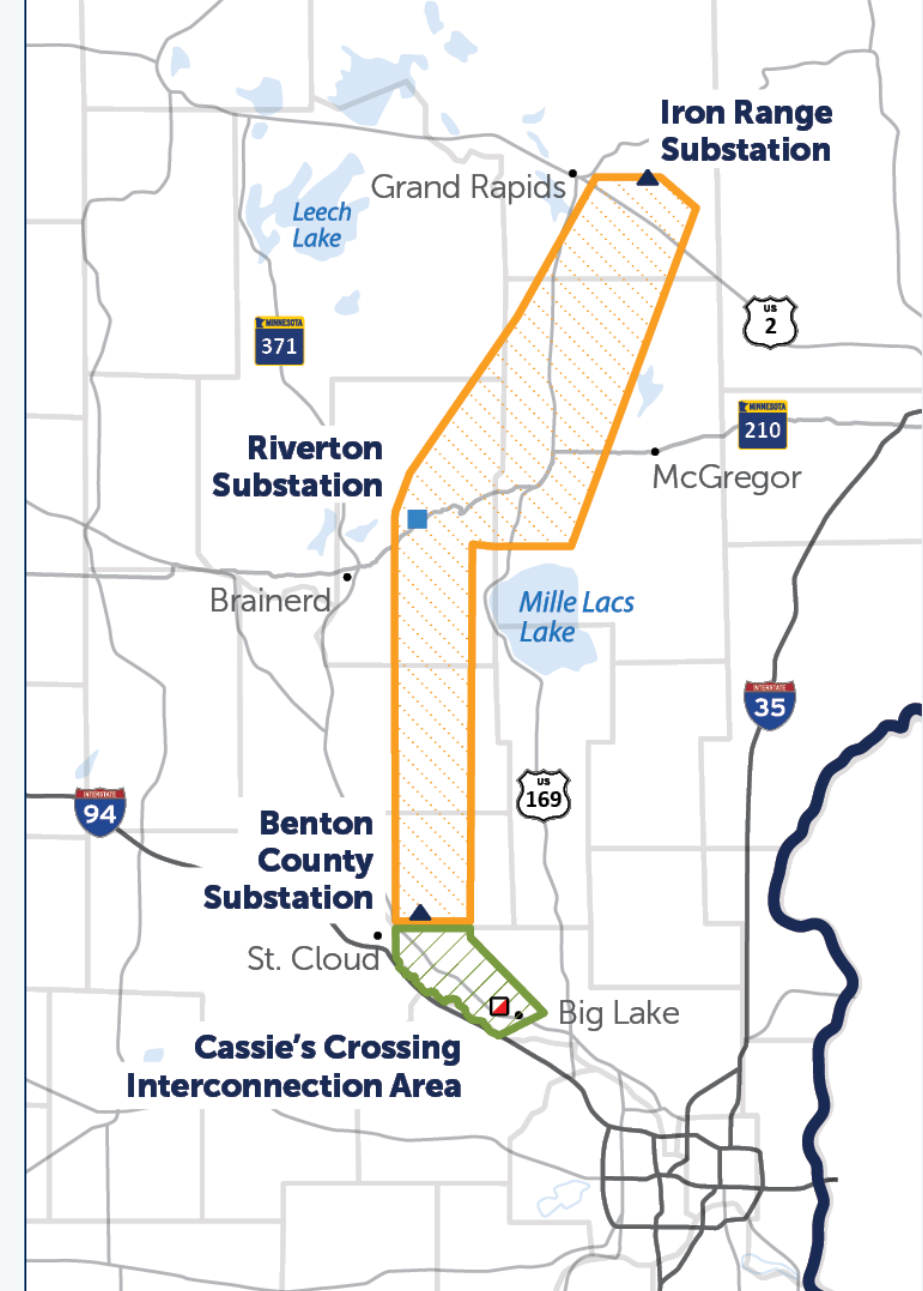
How we defined our study area:

- Substation connections
- Existing corridors



Two main project segments

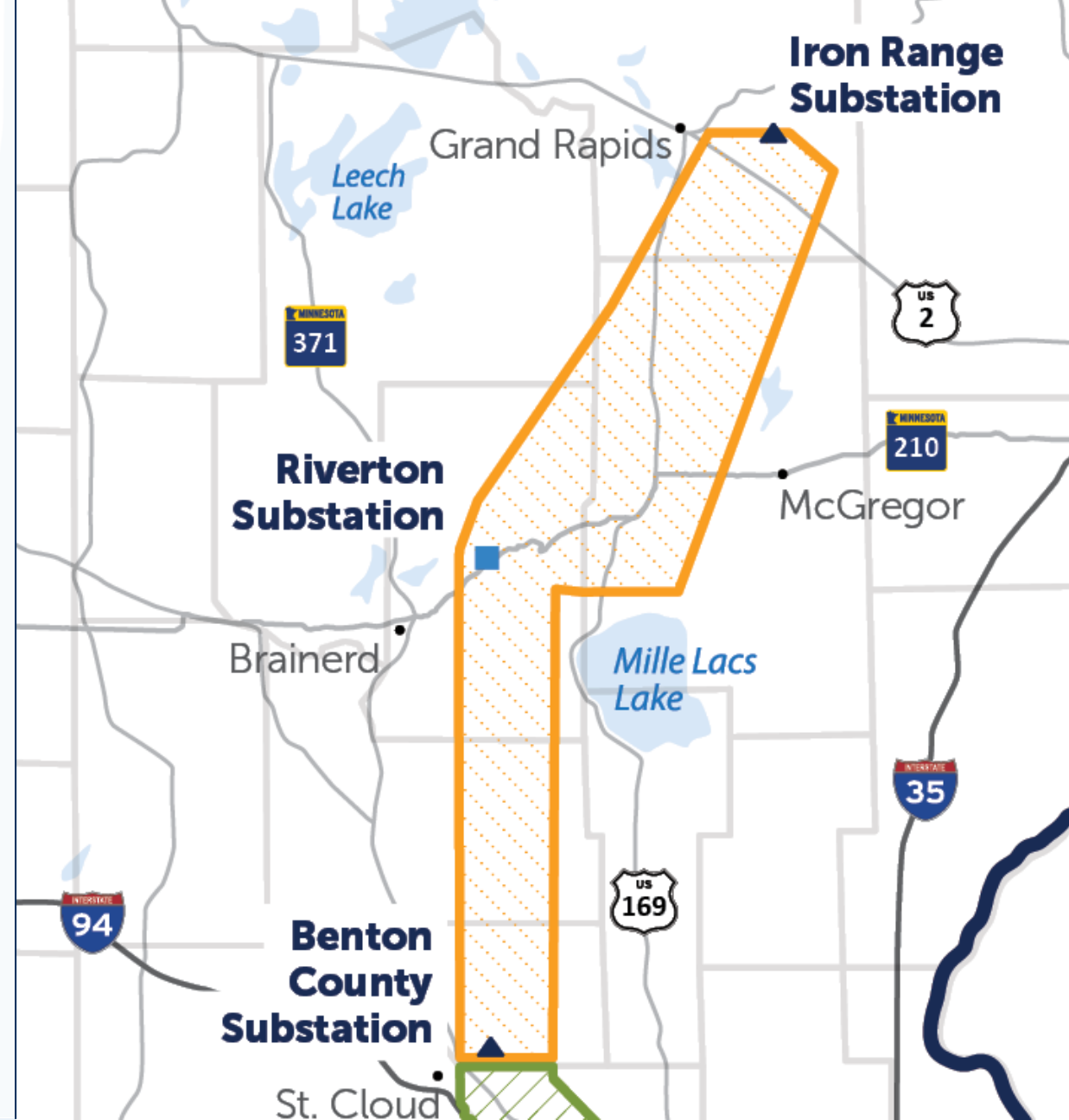
- **Segment one:** Iron Range Substation to Riverton Substation to Benton County Substation
- **Segment two:** Benton County Substation to Cassie's Crossing Interconnection Area



Segment one

Iron Range Substation to Riverton Substation to Benton County Substation

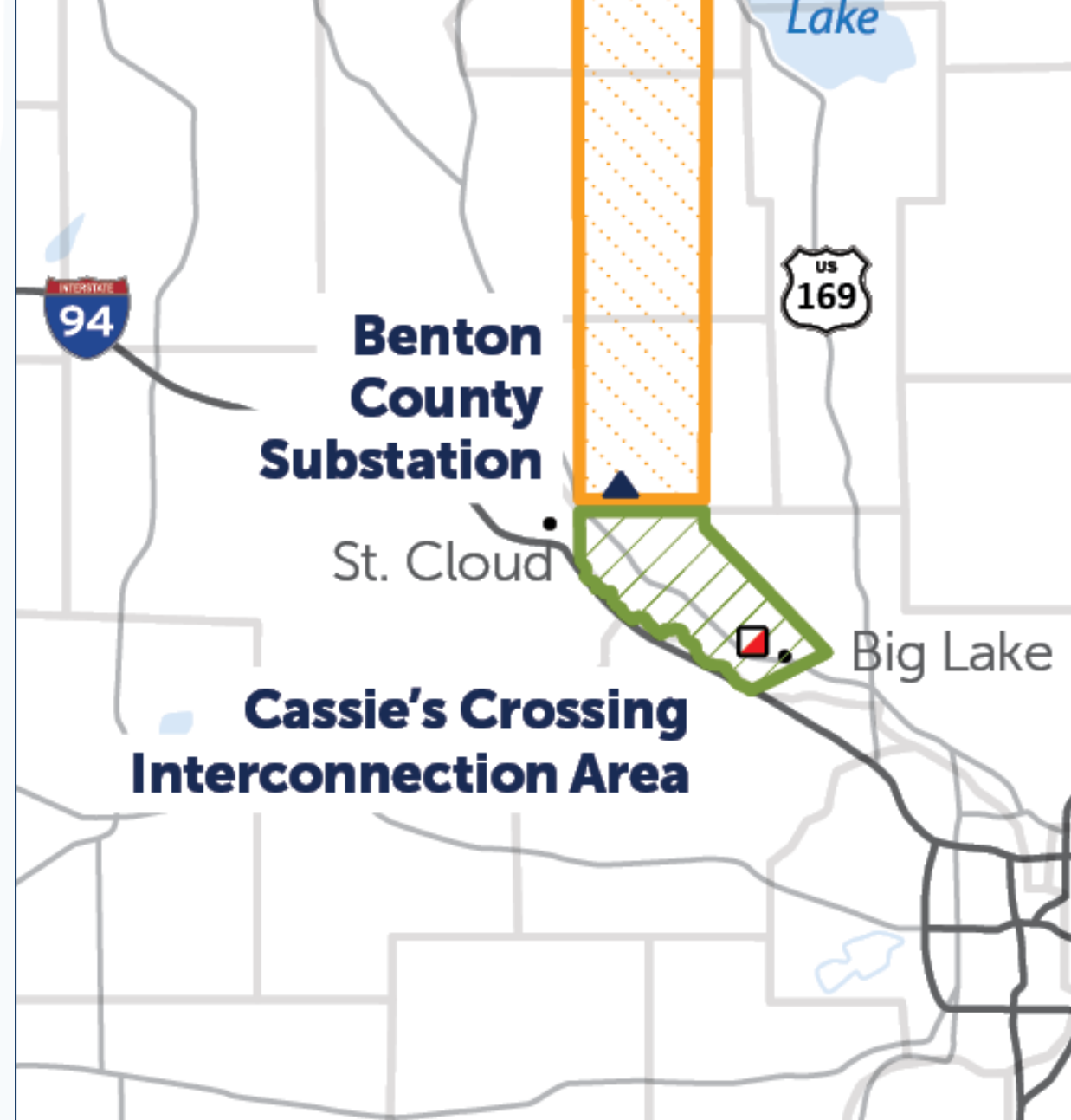
- New double-circuit 345-kV transmission line
- Approximately 130 miles
- Opportunities to route near existing transmission lines
- Connect into new Riverton Substation



Segment two

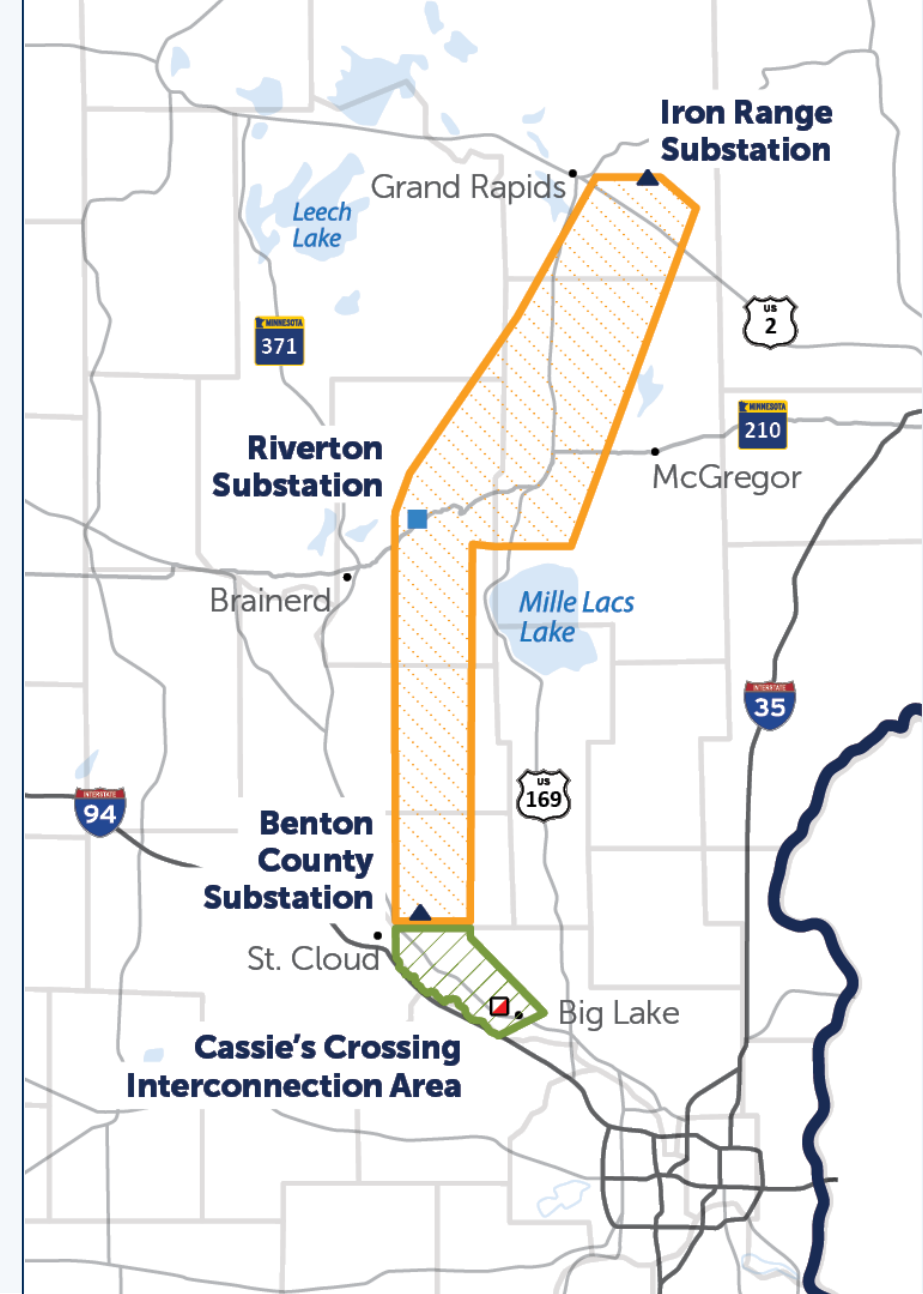
Benton County Substation to Cassie's Crossing Interconnection Area

- Replace existing 230-kV transmission line to double-circuit 345-kV transmission line
- Approximately 20 miles
- Verifying existing route and right-of-way are suitable for a 345-kV line

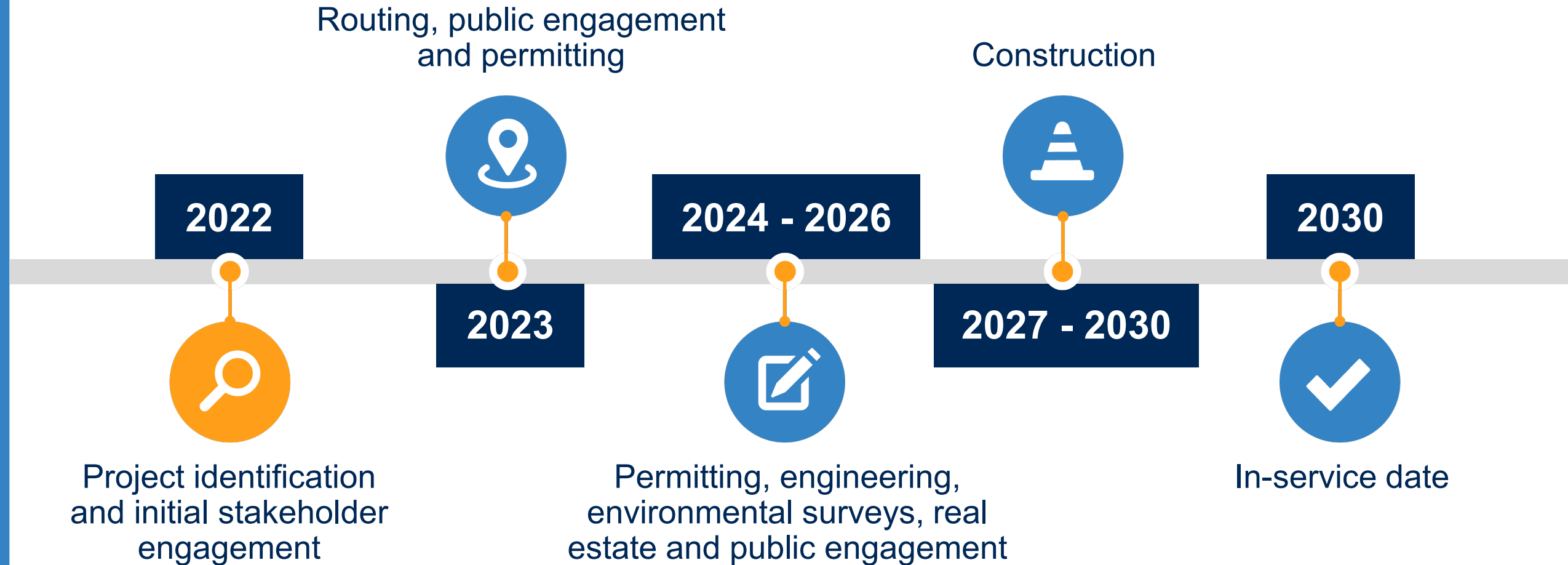


Additional project improvements

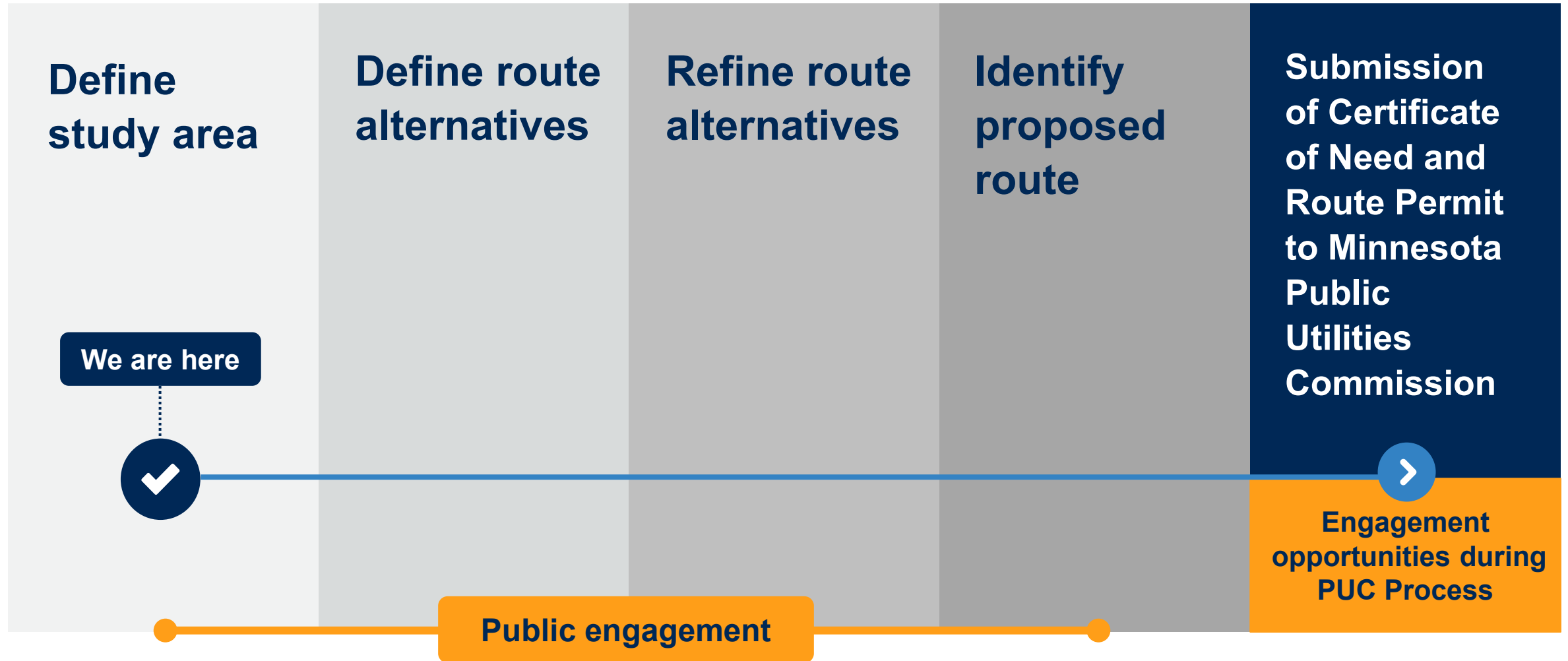
- Expanding the existing Iron Range Substation and the Benton County Substation
- Installing a new substation at or near the existing Riverton Substation and reconfiguring existing transmission lines in the Riverton area
- Rebuilding approximately 20 miles of existing single-circuit 345-kv line from the Benton County Substation to the Sherco Substation in Sherburne County



Anticipated schedule



Our routing process & input opportunities



Routing process considerations

The criteria for route development is set by Minnesota statute and guides our routing process.

To route a project, we consider:

- Opportunities
- Constraints
- Engineering and construction considerations

Typical design

Structure type factors:

- Land use/land cover
- Topography
- Water/wetlands
- Soil types

Minimum right-of-way of 150 feet

Average of 5 – 7 structures per mile

Typical height 120 – 180 feet

Upcoming community engagement



- Website launch in 2022
- Open houses in early 2023
- In-person and virtual engagement opportunities

Communicating our path forward

Ongoing communication with stakeholders and landowners throughout the project.

Question and answer

Mapping exercise

- Break into smaller groups (3 – 4 per table)
- Facilitator will ask questions and capture insights on opportunities and constraints within the study area

Share out

- What did you learn?
- What were the themes of your discussion?

Complete the comment form

Workshop schedule

Date	County	Location	Time
Tuesday, Oct. 11	Itasca	IRA Civic Center Grand Rapids, MN	8:30 – 10 a.m.
Tuesday, Oct. 11	Aitkin	The Ripple Center Aitkin, MN	3 – 4:30 p.m.
Wednesday, Oct. 12	Crow Wing	American Legion – Deerwood Deerwood, MN	11:30 a.m. – 1 p.m.
Tuesday, Oct. 18	Sherburne	Pebble Creek Golf Club Becker, MN	8:30 – 10 a.m.
Tuesday, Oct. 18	Benton	Sauk Rapids Government Center Sauk Rapids, MN	3 – 4:30 p.m.
Wednesday, Oct. 19	Morrison	Morrison County Government Center Little Falls, MN	11:30 a.m. – 1 p.m.

Northland Reliability Project



Connect with us!



Project website – *coming soon!*



Send us an email at
connect@northlandreliabilityproject.com



Call our hotline at
218-864-6059