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# Iron Range – St. Louis County – Arrowhead ISA TRANSMISSION PROJECT

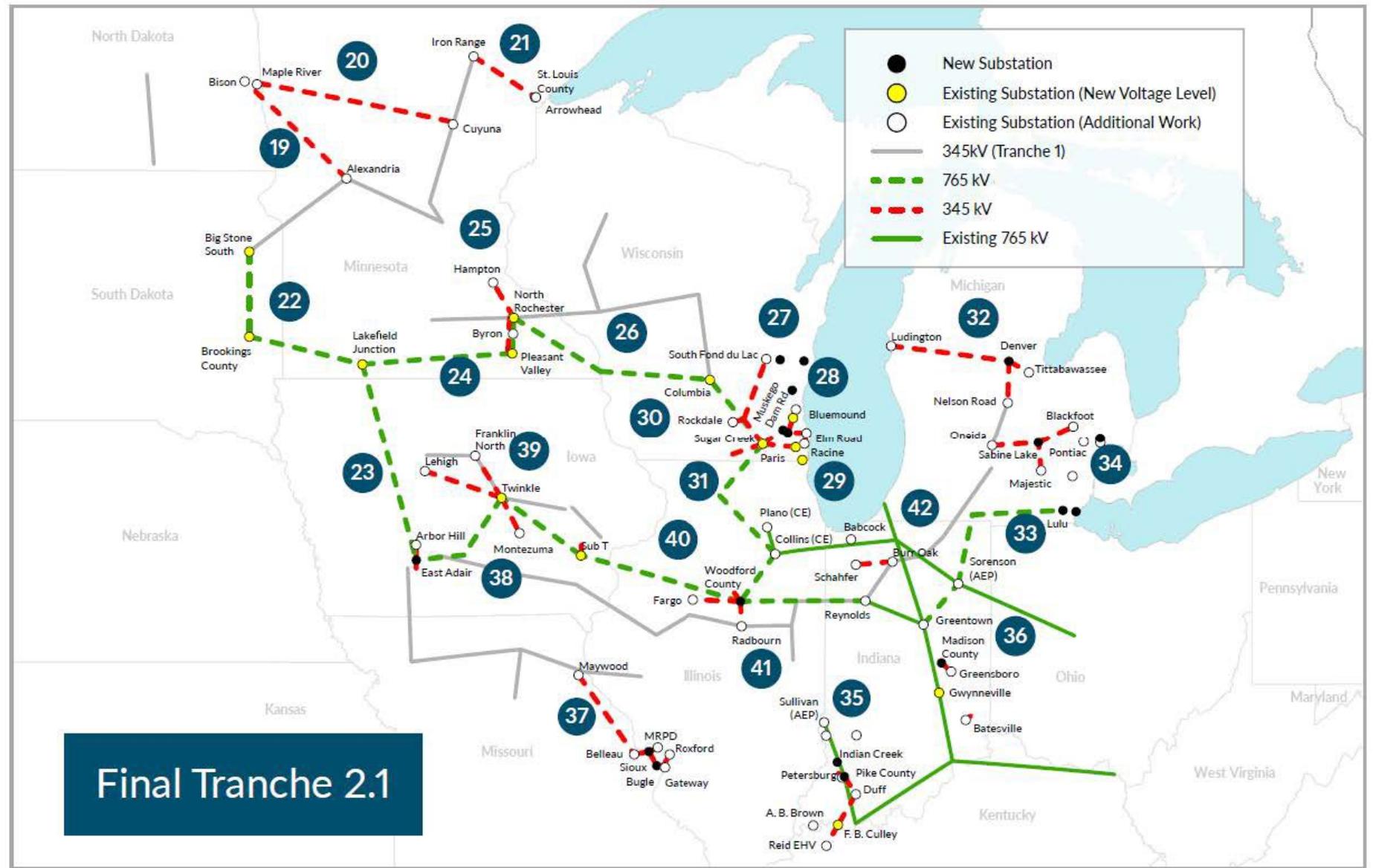
**Zach Golkowski**  
Senior Environmental  
Compliance Specialist

# Agenda

- Introductions
- Project Overview
- Discussion

# MISO- approved project #21: Part of a regional plan

Learn more at  
[misoenergy.org](http://misoenergy.org)





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# Project need



*Enhance grid reliability in the Upper Midwest as grid operating conditions become more variable*



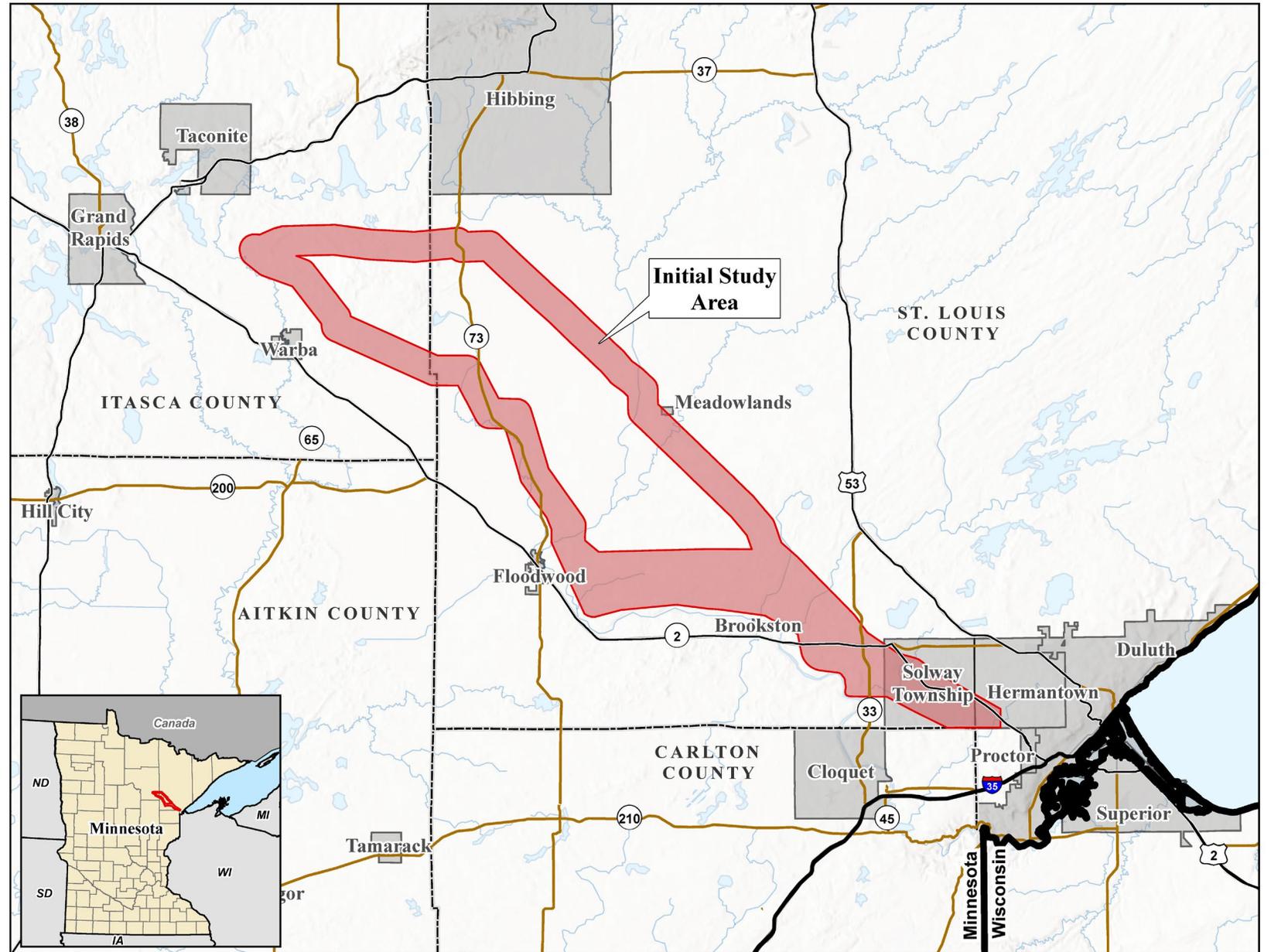
*Increase grid efficiency as energy is transferred from where it is produced to where it is needed*



*Meet the growing demand for reliable clean energy in the Upper Midwest*

# Initial Study Area

The Study Area will be evaluated for potential routing opportunities based on stakeholder feedback



# Project components

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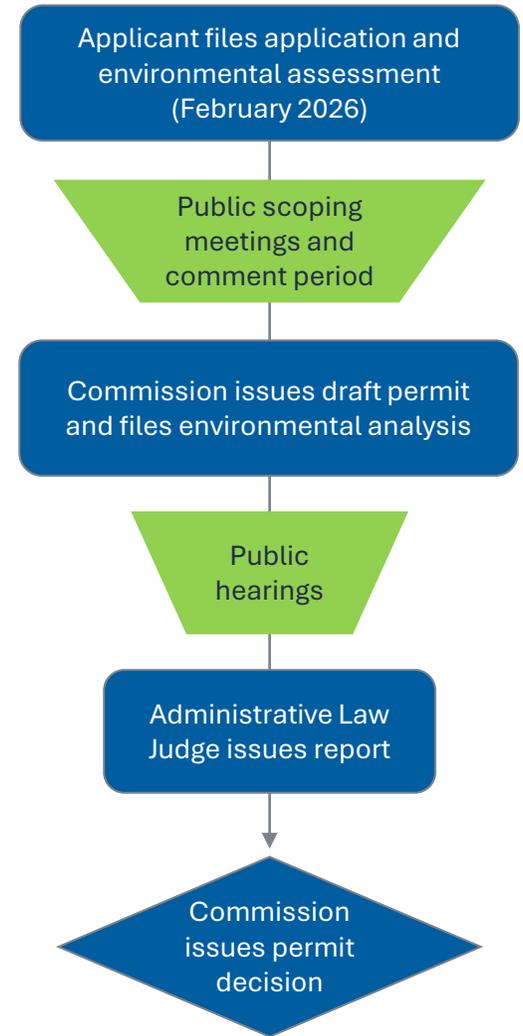
A new, approximately 62-mile-long, single-circuit 345 kilovolt (kV) transmission line built on double-circuit capable structures from Minnesota Power's Iron Range Substation near Grand Rapids in Itasca County, Minnesota to Minnesota Power's St. Louis County Substation near Hermantown, Minnesota

A new, approximately 1-mile-long double circuit 345 kV transmission line from Minnesota Power's St. Louis County Substation to American Transmission Company's Arrowhead Substation near Hermantown, St. Louis County, Minnesota

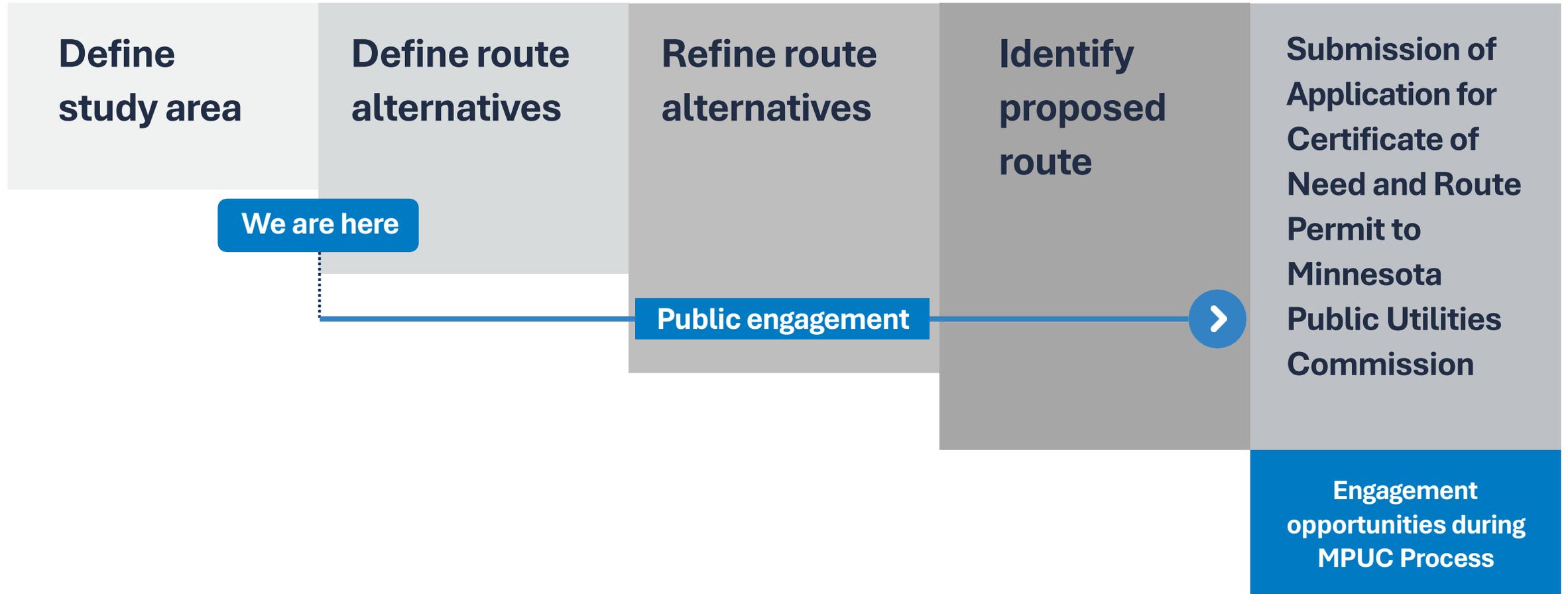
# Project timeline



High Voltage Transmission  
Line Permitting Process



# Our routing process & input opportunities



# Routing process considerations

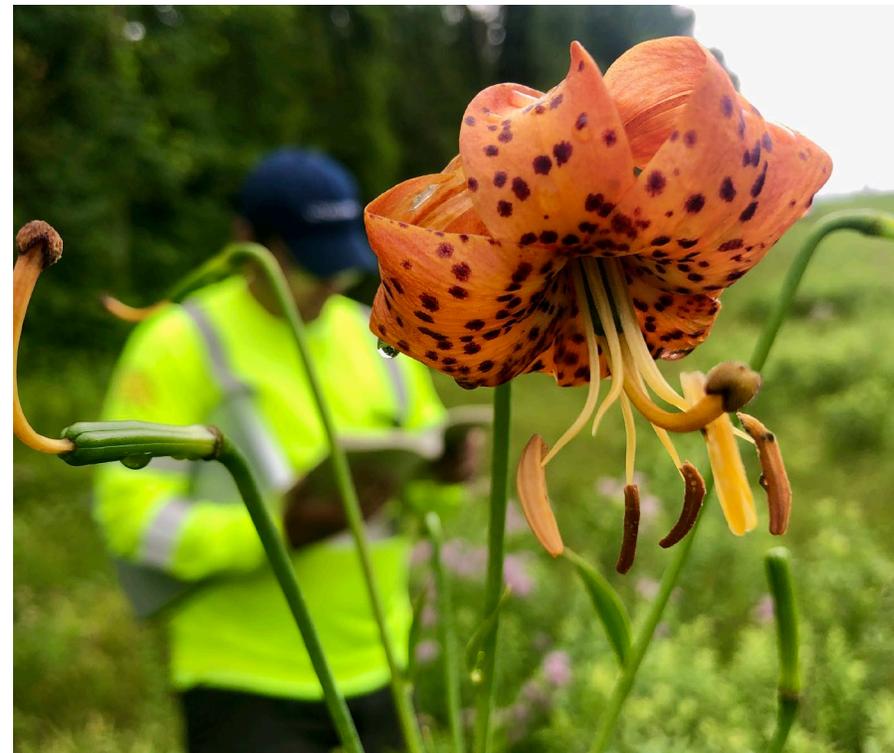
The criteria for route development is set by Minnesota statute and guides our routing process. To route a project, we consider:

- Opportunities
- Constraints
- Engineering and construction considerations

# Anticipated studies

Field surveys allow the project team to verify or collect new information about the proposed route to help minimize impacts for construction of the transmission line. Studies may include:

- Geotechnical
- Biological
- Cultural resources
- Wetland and waterbodies
- Invasive species
- Protected species
- Raptor nests



# 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 May 2025
- Open houses in May 2025
- In-person and virtual engagement opportunities
- Engagement through the Minnesota Public Utilities Commission permitting process

## Communicating our path forward

Ongoing communication with stakeholders and landowners throughout all phases of the project.

# May 2025 Open Houses

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## Tuesday, May 20

**1:00-3:00PM**

Yanmar Arena  
1401 NW 3<sup>rd</sup> Avenue  
Grand Rapids, MN 55744

**5:00-8:00PM**

Meadowlands Community  
Center  
7758 Western Avenue  
Meadowlands, MN 55765

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## Wednesday, May 21

**5:00-8:00PM**

Floodwood Event Center  
201 W 7<sup>th</sup> Avenue  
Meadowlands, MN 55765

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## Thursday, May 22

**12:00-2:00PM**

Hermantown Gov't Center/  
City Hall – Training Center  
5105 Maple Grove Road  
Hermantown, MN 55811

**5:00-8:00PM**

Solway Town Hall  
4029 Munger Shaw Road  
Cloquet, MN 55720

# Questions?