PowerOn Midwest 765kV & 345kV Projects

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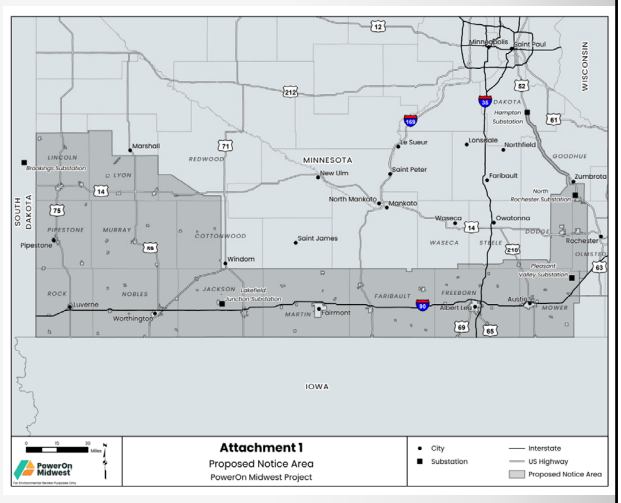
Energy Infrastructure Permitting with the Public Utilities Commission



PowerOn Midwest Project Components

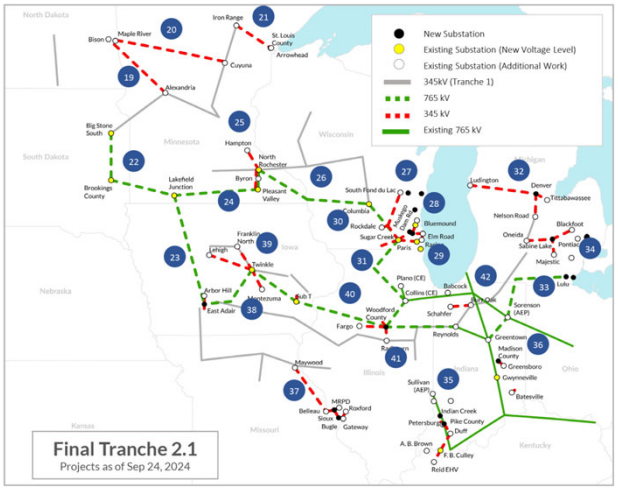
As a part of the MISO LRTP Tranche 2.1 projects, establish a new 765 kV "backbone" across the Midwest.
Applicants intend to file an application for a Certificate of Need* (CN Application) for the Project with the PUC no later than February 6, 2026.
The CN Application will include the Minnesota portions of LRTP Nos. 22, 23, 24, and 25.
Applicants will submit separate route permit applications for these projects, beginning no earlier than late 2026.

*In Minnesota, certain large electric generating facilities and large high-voltage transmission lines are required by law to obtain a certificate of need in addition to any necessary site or route permits. A certificate of need is an approval from the Minnesota Public Utilities Commission that confirms the demonstrated need for a large electric generating facility or high-voltage transmission line.



MN Projects in MISO LRTP Tranche 2.1

- Bison – Alex 345kV 2nd Circuit (LRTP #19)
- Maple River – Cuyuna 345kV (LRTP #20)
- Iron Range – St. Louis Co – Arrowhead 345kV (LRTP #21)
- Brookings – Lakefield 765kV (LRTP #22)
  - SD/MN border and the Lakefield Junction Substation in Jackson County
- Lakefield Jct – East Adair 765kV (LRTP #23)
  - Lakefield Junction Substation and the MN/Iowa border
- Lakefield Jct – Pleasant Valley 765kV (LRTP #24)
  - Lakefield Junction Substation and the Pleasant Valley Substation in Mower County
- Pleasant Valley – North Roch (LRTP #25)
  - Pleasant Valley Substation and the North Rochester Substation in Goodhue County
- North Rochester – Columbia 765kV (LRTP #26)
  - Not a part of this set of Projects



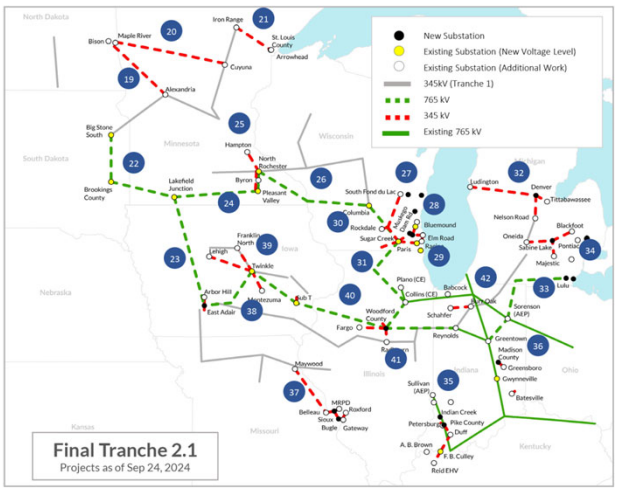
MN Projects in MISO LRTP Tranche 2.1

• A new 345 kV transmission circuit from the Pleasant Valley Substation to the North Rochester Substation. The existing 345 kV single-circuit structures are proposed to be removed and replaced with new double-circuit capable 345 kV structures

• A new, second 345 kV transmission circuit between the North Rochester substation to the Hampton Substation, to be strung on existing double-circuit capable 345 kV structures (LRTP #25 too?)

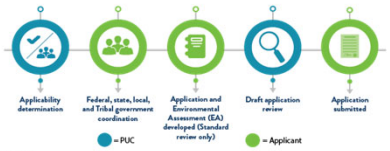
Expansions / improvements at the following existing substations:

- Lakefield Junction Substation in Jackson County
- Pleasant Valley Substation in Mower County
- North Rochester Substation in Goodhue County
- Hampton Substation in Dakota County



The PUC Processes

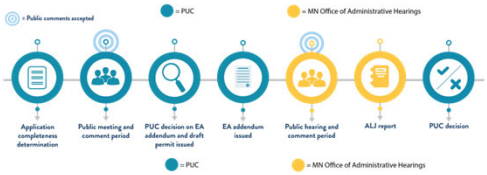
Preapplication Process



Standard Review Process



Major Review Process



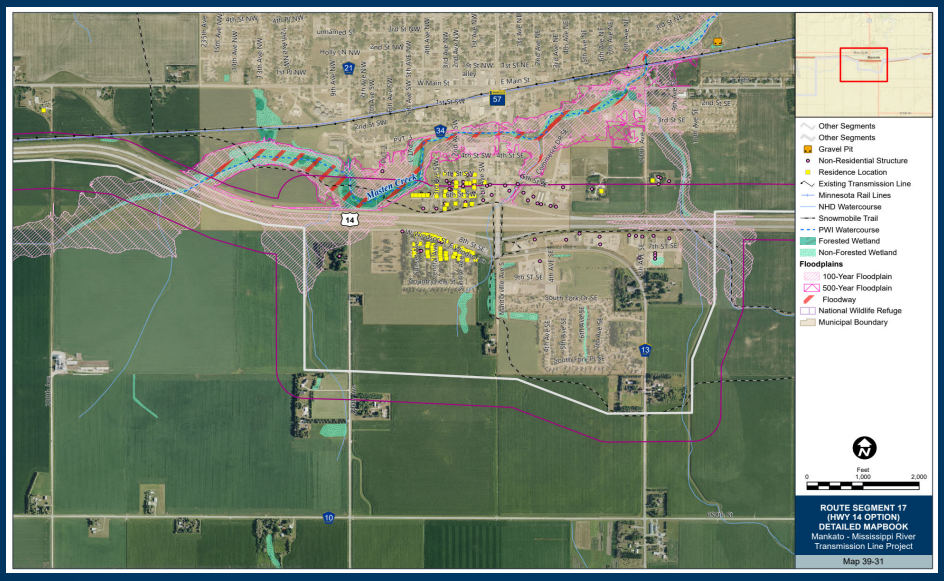
The PUC Processes

PUC's LEI Draft Guidance states:

Transmission Line Design: Discuss the following design considerations in the text and illustrate them on the accompanying maps:

- *Requested route width:* The application should describe the route width the application is requesting, highlighting areas where the applicant seeks an expanded route width (e.g., around substations, near road intersections, near natural resource areas). Maps should illustrate the requested route width.
- *Required ROW width:* The application should discuss the ROW required for the transmission line, indicating where the proposed route shares or parallels existing road or transmission ROW. The applicant must demonstrate that it has the ability to control the transmission line ROW in such a manner as to ensure its safe operation, particularly with respect to the National Electric Safety Code and applicable National American Electric Reliability Corporation standards. Maps should illustrate the required ROW.
- *ROW Sharing and Paralleling:* The PUC must consider, when appropriate, routes that would use or parallel existing railroad and highway ROW.120 When applicable, the PUC must make a specific finding that the PUC considered locating a transmission route on an existing route and using parallel existing highway right-of-way. If an existing transmission route or parallel existing ROW is not used, the PUC must state the reasons. 121 Discuss whether the applicant considered locating the facility along an existing transmission line or parallel to or within existing highway ROW.
- *Anticipated Alignment:* The application should discuss generally the anticipated alignment and illustrate the alignment on application maps.

The PUC Processes



Deeper Dive…How is MnDOT Involved?

- Utility Early Notification Memo (ENM) and Supplemental Checklist

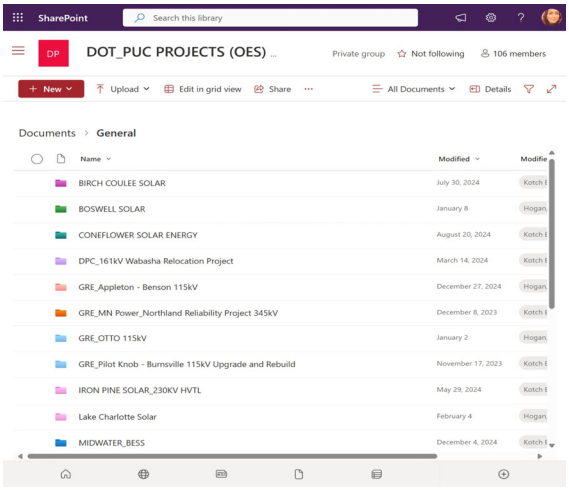
Preferred engagement 3 months prior to RPA/SPA

  - Populated by project proposers
  - Specifically identifies project areas impacting MnDOT resources
  - Wide range of impact information
    - Scope of work/project timeline
    - GIS/Non-GIS Mapping/Typicals
    - Other State/Federal Agency coordination documents to-date

- Reviewed by:
  - **ALL** Environmental Stewardship (OES)
  - District Permit/Planning
  - Design Support
  - Safety and Operations
  - Rail
  - Aeronautics
  - Safety Rest Area
  - Historic Roadside Properties
  - Living Snow Fences/Blowing/Snow Control
  - Statewide Radio Communications (wind projects only)
  - Regional Transportation Management Center (RTMC)/ITS/TMS

30-day review timeline

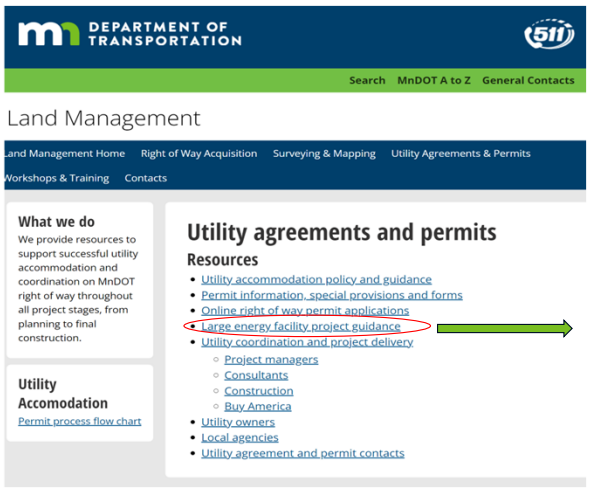
Deeper Dive…How is MnDOT Involved?



- ENM/Project reviews in SharePoint/Teams
  - ENM Main Files
    - Populated ENM
    - Supplemental Checklist
  - Mapping/Shapefiles
  - Supplemental Information
    - Relevant PUC docket submittals
    - Project Fact Sheets
    - Meeting Notes
    - Applicant's Project Website
    - Commenting Spreadsheet
    - Autosave enabled
    - Simultaneously accessible

One-stop review shop 365

Deeper Dive…How is MnDOT Involved?



Large Energy Facility Project Guidance

Overview

The Minnesota Department of Transportation (MnDOT) has developed several guidance documents to assist Large Energy Project proposers in providing adequate information, specific to MnDOT needs, during various stages of project development. This guidance applies to projects affecting MnDOT-owned land, rights-of-way, and other areas of interest requiring a Certificate of Need, Route Permit, Site Permit, or Minor Alteration (CN, RP, SP, MA) from the Minnesota Public Utilities Commission (MPUC).

Contact MnDOT's Routing and Siting Coordinator for assistance with MPUC project review coordination.

Guidance Documents

MnDOT Utility Project Guidance for Large Energy Facility Project Proposals
Transmission Line Guidelines
MnDOT Environmental Requirements
PUC and MnDOT Permitting Process Flowchart

Other Resources

Home / Public Utilities Commission (mn.gov)
Energy Environmental Review and Analysis Home (state.mn.us)
MN DOC Efiling (state.mn.us)

To view full case records for MPUC projects:
1. Visit eDockets / Public Utilities Commission (mn.gov)
2. Select "Go to eDockets" Project Database.
3. Enter the year (XX) and the docket number (XXX) in the Basic Search area.
4. Select Search.

Resources

EIP Projects	DOT EIP Page	UAP Page	MISO LRTP

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DEPARTMENT OF TRANSPORTATION

Thank You!

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