



# MTEP25 Reliability Planning Scope Overview

3rd West Subregional Planning Meeting  
September 5, 2025

# Purpose & Key Takeaways



Present MISO's final MTEP25 project recommendations for December Board approval

- 434 new Appendix A projects, at an estimated cost of \$12.4 billion, are targeted for MTEP25
- 218 new projects are recommended in the West region at a cost of \$3.8 billion
- The large volume of Expedited Project Review requests were driven by new load growth
- Today's focus is to review projects MISO is recommending for MTEP25 Appendix A
- In December, MISO staff will present the recommended MTEP25 Appendix A projects, as well as the report, for Board approval
- All project information shared today, and within the MTEP25 Report, was pulled from the [MTEP Portal](#) on August 20, 2025

# The MTEP process involves numerous engagement opportunities and requires both internal and external stakeholder collaboration

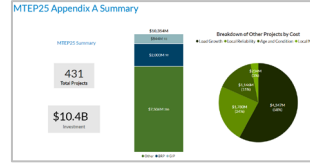
## Project Submission

Proposed projects are submitted through the MTEP Portal



## Subregional Planning Meetings

Proposed projects are reviewed, justified, and recommended in SPMs

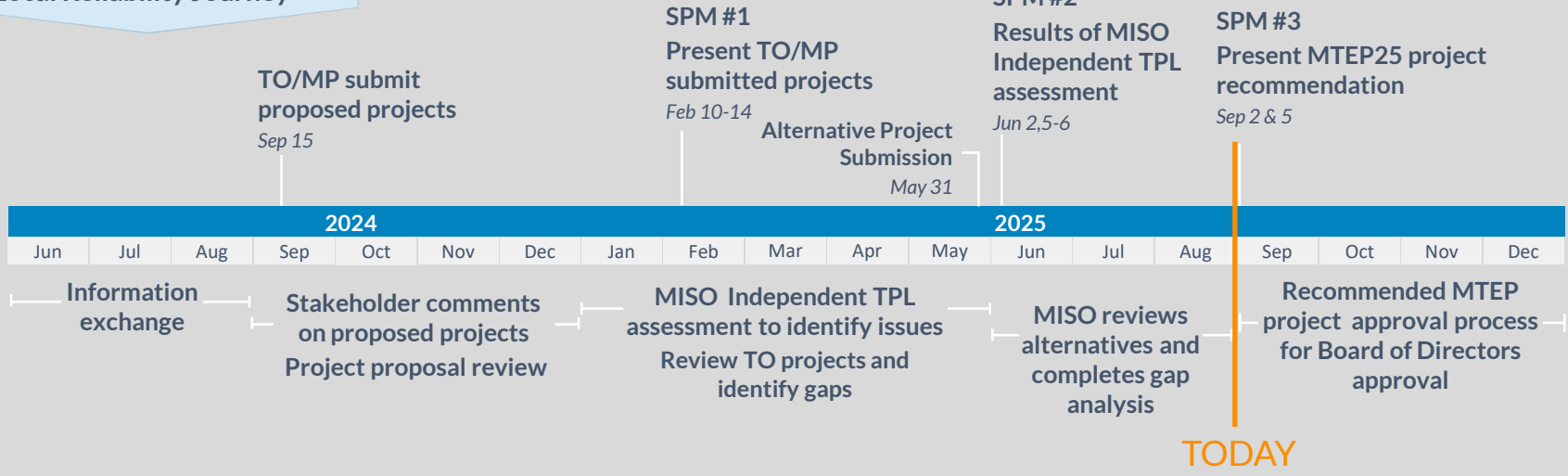


## MTEP Report

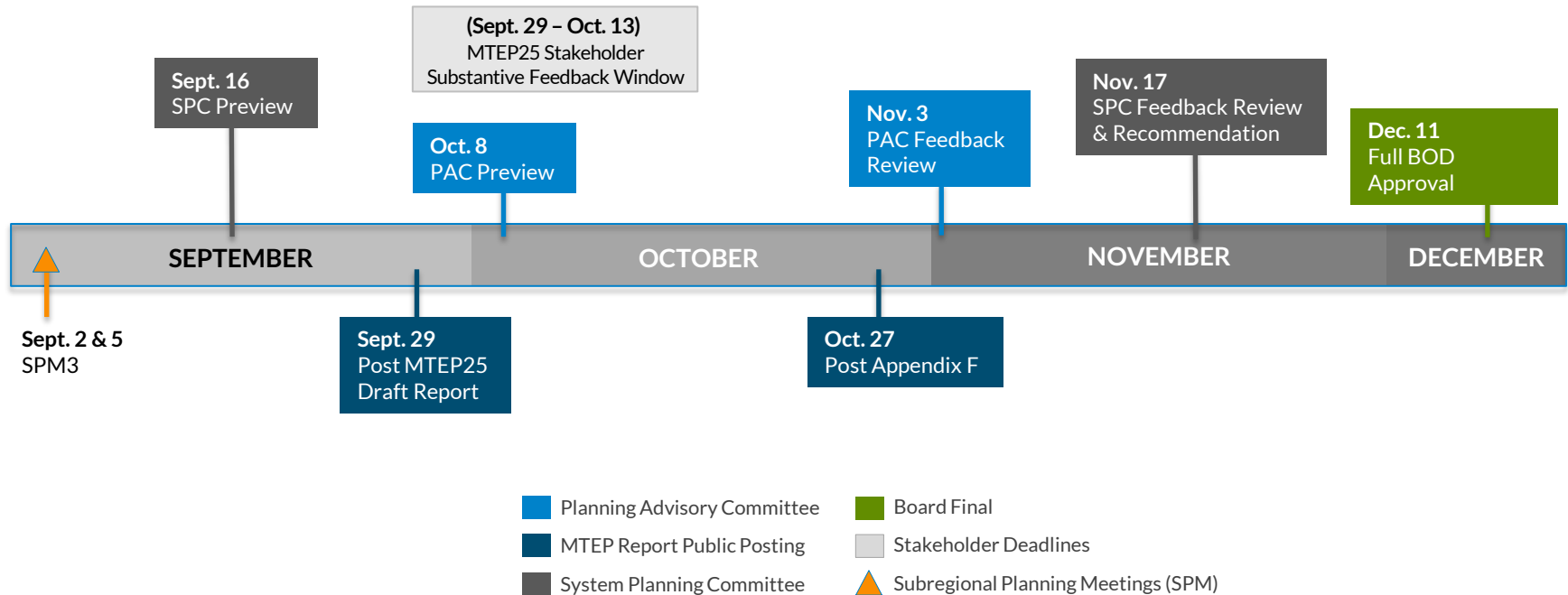
Recommended Appendix A Projects and the official MTEP report are approved by Board of Directors



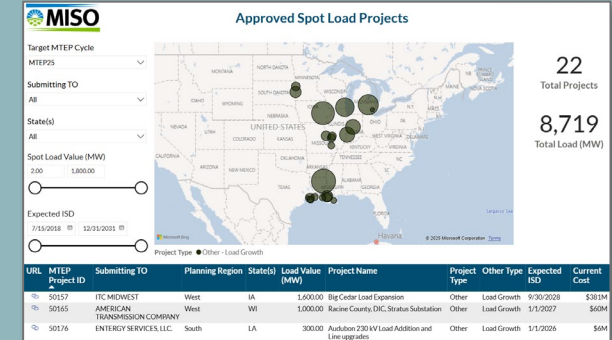
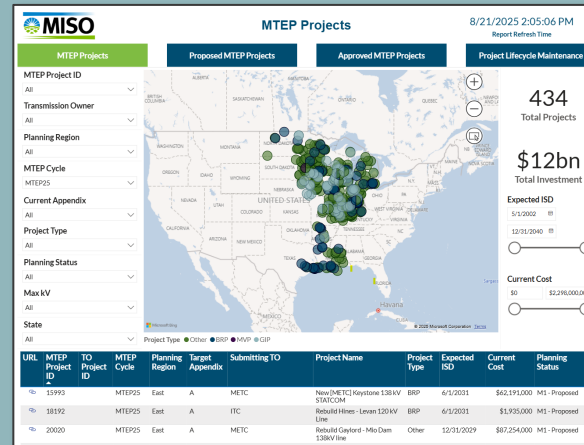
## Local Reliability Journey



# MTEP25 follows the traditional pathway to a December board approval



MISO appreciates the continued collaboration and commitment of its stakeholder community as we work together to evolve planning tools that meet the changing needs of our industry



Thank you for attending the MTEP Workshop

Note: the maps within the MTEP Portal will soon be updated and include even more enhancements.

# MTEP26 Study Scope Development

- Each year, in accordance with Section 2.8.2.1 of the MISO Transmission Planning Business Practice Manual, MISO requests feedback regarding the study scope for the MISO Transmission Expansion Plan (MTEP).
- While the MTEP scope is fixed in part by provisions of the Owners Agreement, Tariff, and Business Practices Manuals, additional study items may be added, as necessary, from cycle-to-cycle.
- In addition to the core MTEP studies, MISO will resume the Long Range Transmission Planning study. This effort, which will be scoped further once the Futures are finalized, is anticipated to require significant commitment of resources and will limit MISO's capacity to take on additional studies.
- MISO will continue Interregional Planning study efforts with SPP and PJM.
- Scope input received in stakeholder forums will be presented for discussion at the Planning Advisory Committee later this fall.

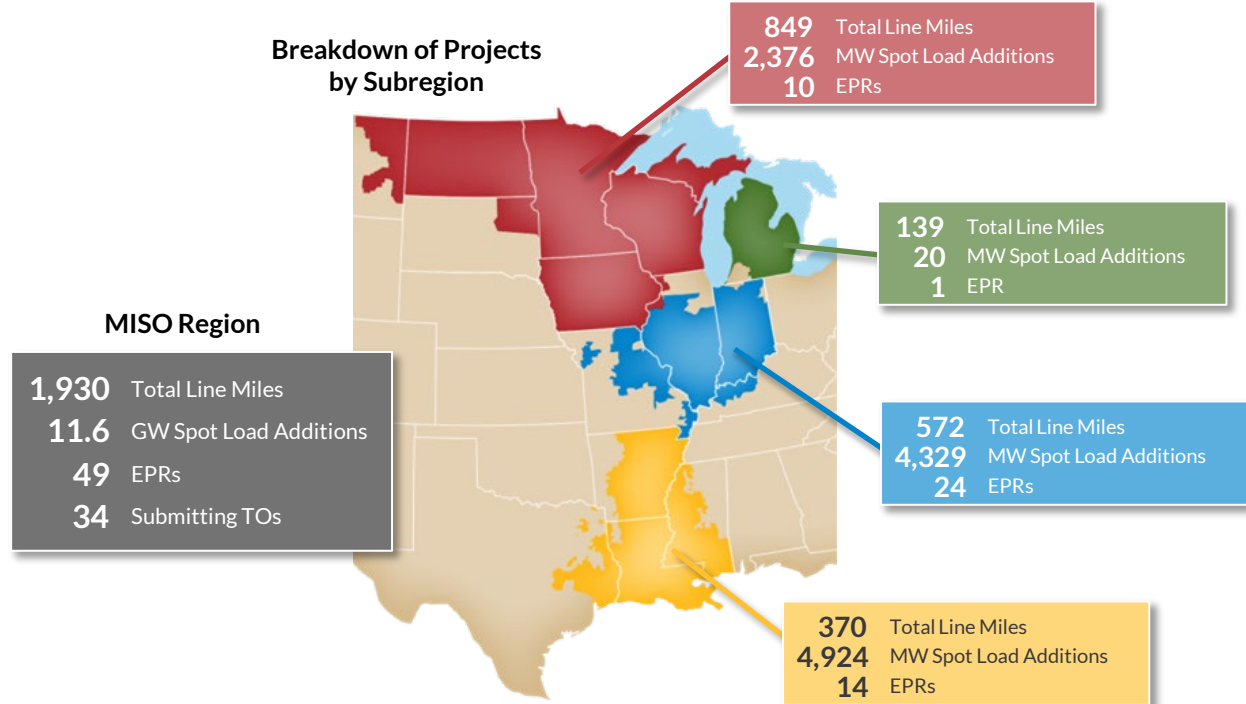
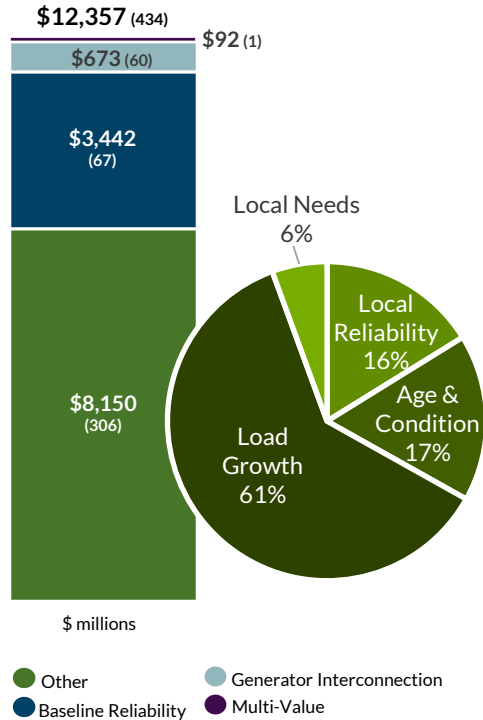
# Stakeholder Feedback Request

- MISO requests feedback by October 29, 2025 on MTEP26 study scope focus on additional/modified planning study work.
- Feedback requests and responses are managed through the Feedback Tool on the MISO website: <https://www.misoenergy.org/engage/stakeholder-feedback/>
  - For comments on MISO's planning policies or processes, use the *Informal Feedback* request on the tool

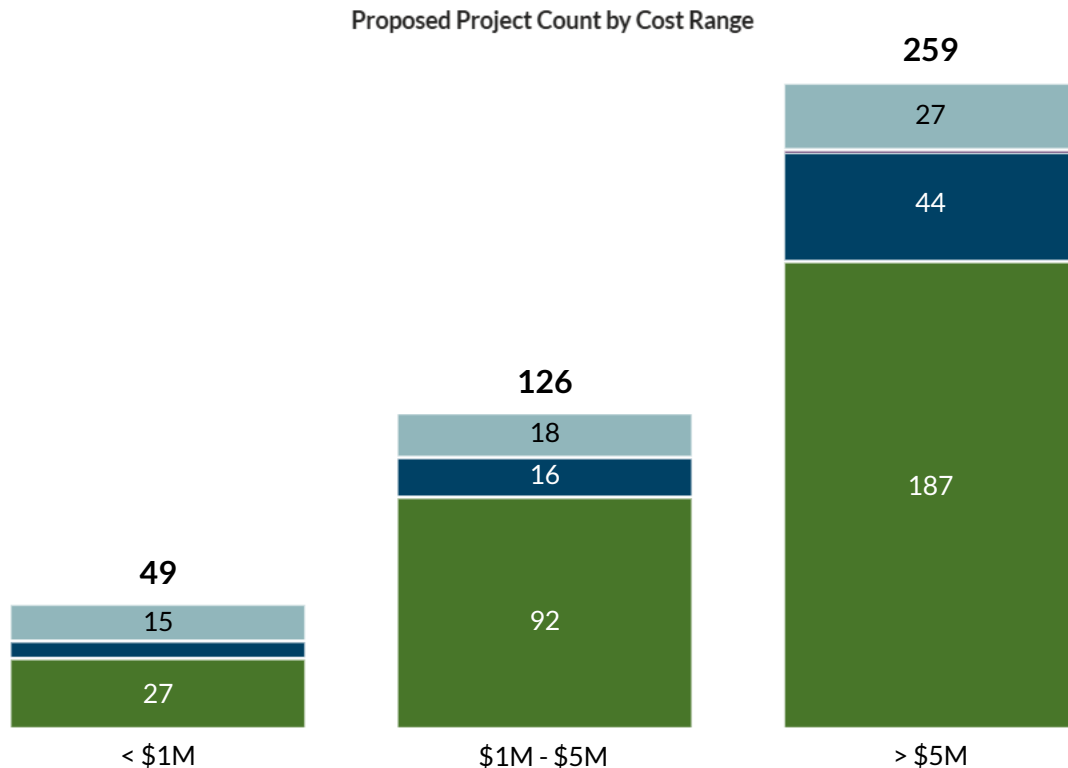
# MTEP25 Overview



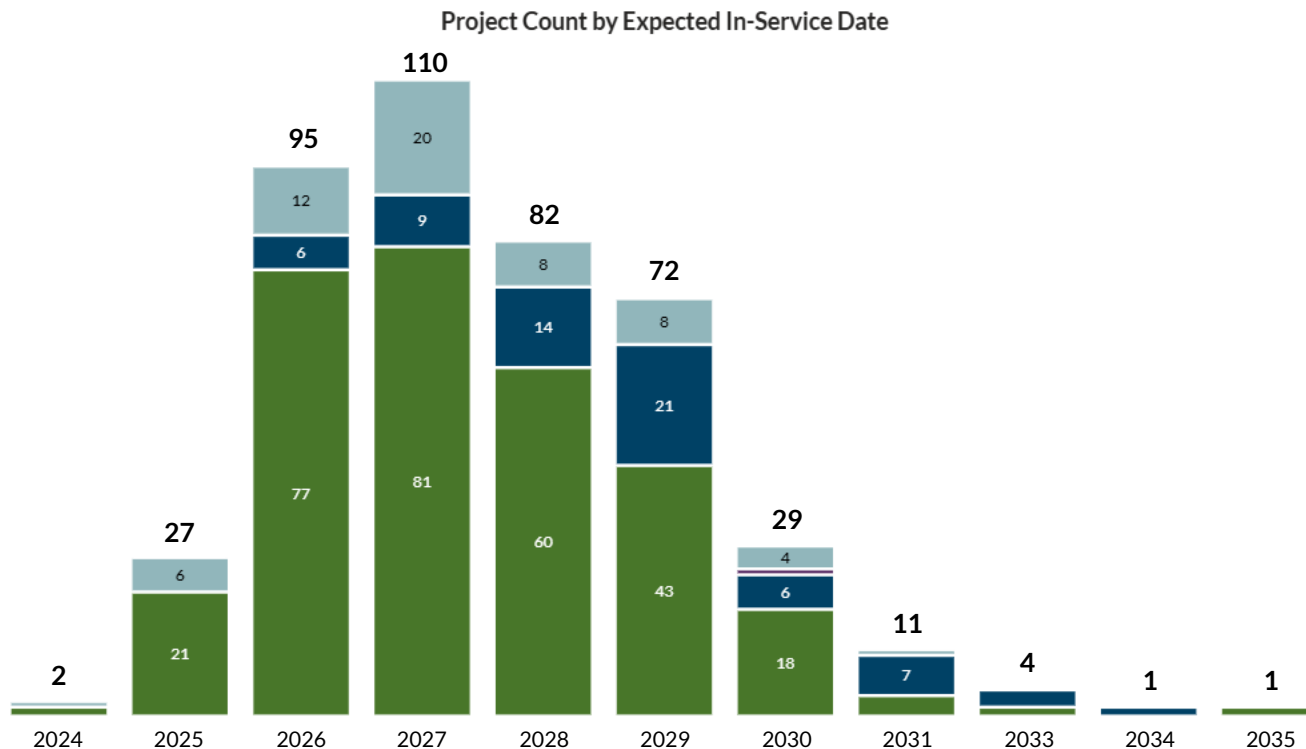
# MTEP25 Appendix A projects consists of 434 projects totaling nearly \$12.4B and are being recommended for Board approval in December



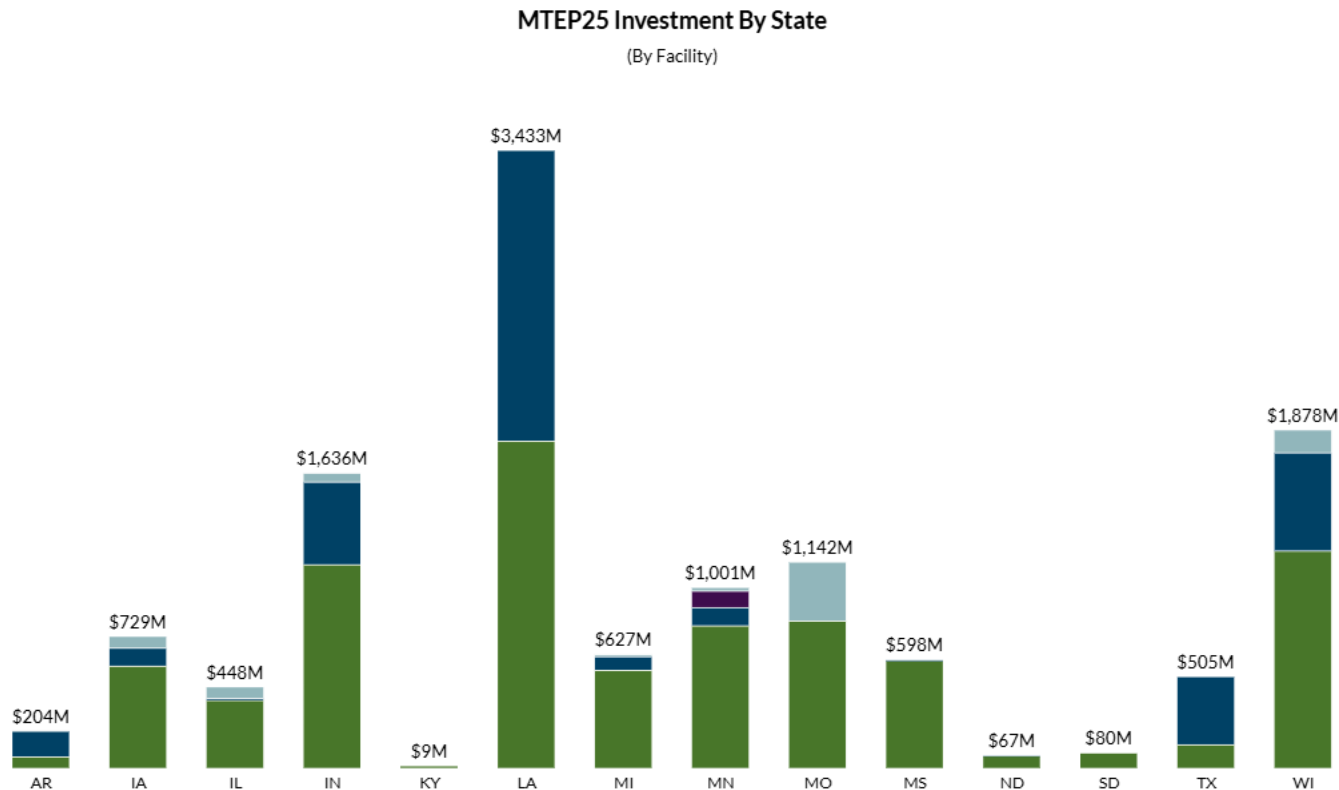
# MISO Region: Summary of MTEP25 Appendix A Projects



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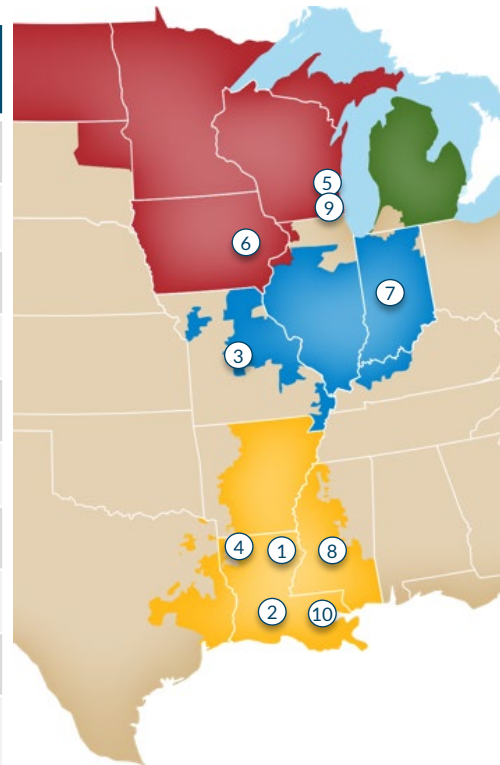


# MISO Region: Summary of MTEP25 Appendix A Projects



# The proposed top 10 projects represent 44% of MTEP25 total investment and primarily addresses load growth

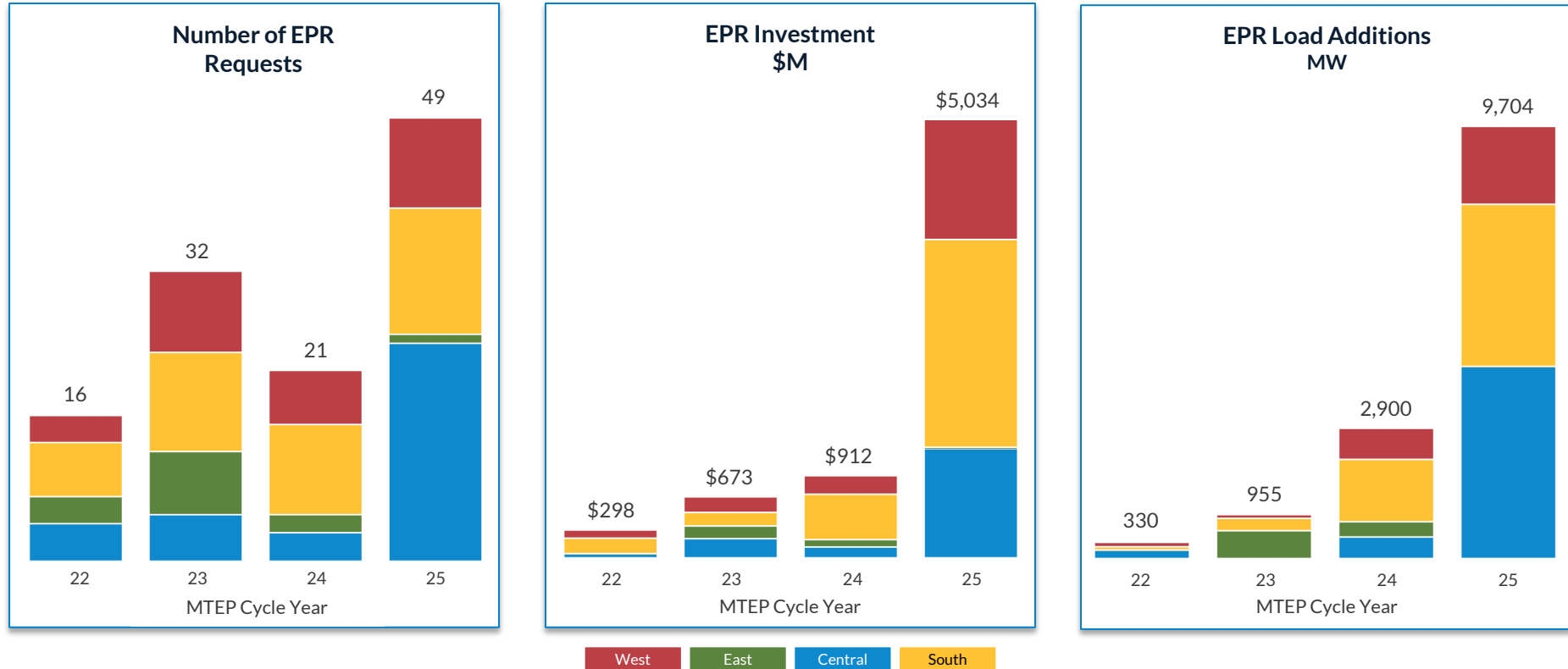
Rank	Project Name	Project Driver	Cost (millions)
1*	Cargas 500 kV and Smalling 500-230 kV Stations	Other – Load Growth	\$1,210
2	Babel to Webre 500 kV New Line	Baseline Reliability	\$1,066
3	Missouri Multi-Entity New Transmission (MoMENT) Project (Primary)	Other – Local Reliability	\$604
4*	Sarepta to Mount Olive 500 kV Project	Baseline Reliability	\$470
5*	Mill Road – Granville Project	Baseline Reliability	\$424
6*	Big Cedar Load Expansion	Other – Load Growth	\$381
7*	Upgrade LEAP Transmission Network Phase 2	Other – Load Growth	\$345
8	Green Acres 500/230 kV New Substation	Other – Load Growth	\$312
9*	Racine County, DIC, Jupiter Substation	Other – Load Growth	\$295
10*	RiverPlex 500-230 kV Station	Other – Load Growth	\$284



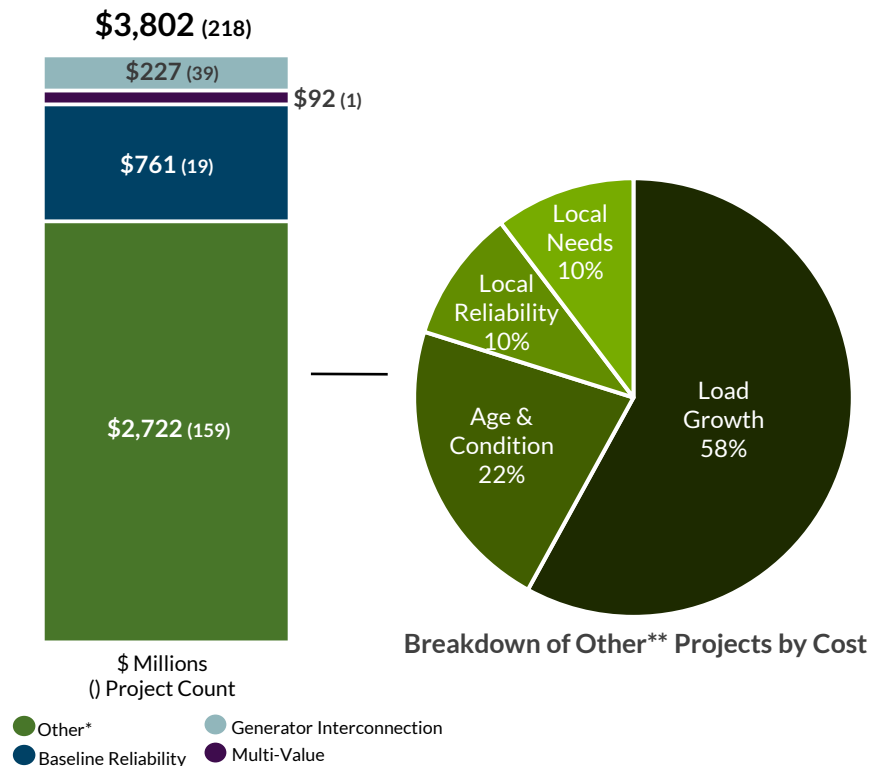
Project information as of August 20, 2025.

\* Projects submitted through Expedited Project Review (EPR) process

# Expedited Project Review requests mainly driven by load growth



# West: Summary of MTEP25 Appendix A Projects



## Insights

- Most investment addresses load growth and reliability needs
- Among Other – Load Growth projects, nearly 67% are located in Minnesota and Wisconsin
- Of the 62 Other – Age & Condition projects, half are located in Minnesota
- Over 51% of GIPs are located in Wisconsin
- Over 849 total transmission miles; 74% within Minnesota
- Top 10 projects represent 52% of total West investment and 2.1 GW of spot load additions
- 10 approved EPRs accounting for 1.8 GW and totaling \$1.5B

# Important Reminder



## Things to keep in mind as all MISO Planners present individual TO presentations

- Present projects submitted for MTEP25 approval and describe any proposed alternatives
- MISO identified n-1-1 reliability issues and is developing corrective action plans collaboratively with TOs
- The MTEP Portal was used to gather information and develop SPM materials. All data was pulled on August 20, 2025 - see the [TO Dashboard](#) for all project details.
- Additionally, quarterly status reports are available on the [MTEP website](#) under *Project Tracking and Monitoring*.
- Today's recommended project information will be used in the MTEP25 Report and will be posted publicly on September 29, 2025



# Next Steps

## MISO

- Continue independent reliability assessment to identify solutions for issues seen in the paired contingency runs
- Finalize MTEP25 Report
- Recommend MTEP25 projects for Board of Directors approval

## Stakeholders

- Provide inputs on identified issues from the paired contingency runs
- Provide input on the MTEP25 Report (publish date is scheduled for September 29, stakeholder feedback window is September 29 – October 13)



Questions?