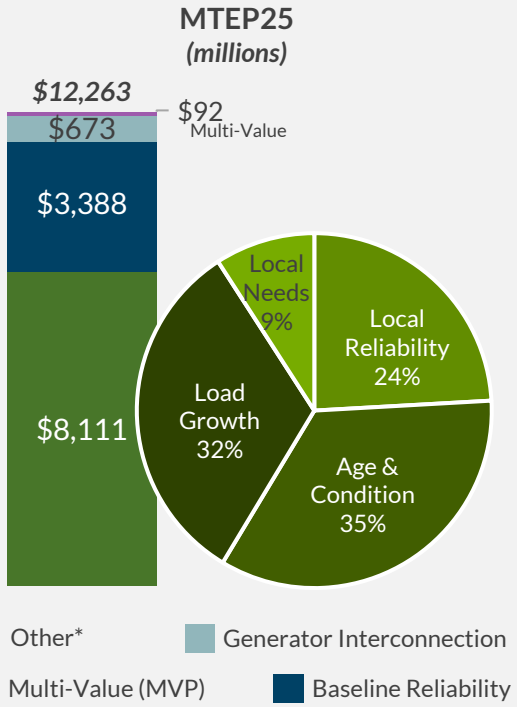
# Entergy Region State Committee

Transmission Planning

November 2025

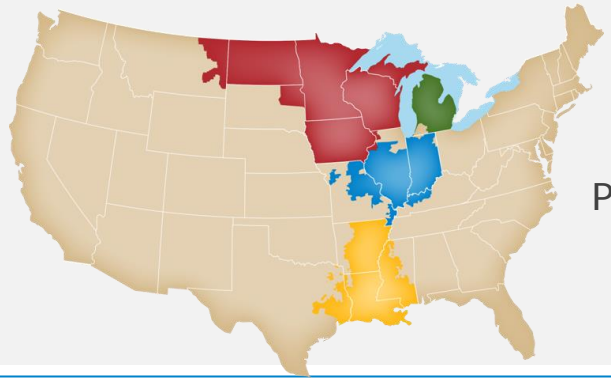
- Large load investment continues to drive transmission investment in the South, as shown in the proposed MTEP25 projects.
- In 2026, MISO will begin the South LRTP study to focus on long-term load growth and load pockets in Louisiana and Texas, with a scope defined through stakeholder collaboration
  - The detailed scope of the South LRTP will be defined in coordination with stakeholders, using one or more of the MISO Futures currently being refreshed as its foundation
  - The goal will be to identify initial issues in 2026; potential solutions will be developed in 2027, including transmission and generation

# 432 projects are recommended for MTEP25 approval in December, enabling new load, continued reliability and generation interconnection




## Subregional Project Breakdown

| | West | East | Central | South | Total |
|---|---|---|---|---|---|
| Toal line miles | 849 | 137 | 546 | 370 | 1,901 |
| Large load additions (MW) | 2,376 | 20 | 4,329 | 4,924 | 11.6 GW |
| Expedited projects | 10 | 1 | 24 | 14 | 49 |



Projects submitted by 33 Transmission Owners



Project information as of October 24, 2025
*Other: Projects based on local needs including reliability, economics, equipment age and condition, environmental, etc.

# Increased reliability is an ongoing outcome of the partnership with Transmission Owners in the MTEP process, with projects supporting transfers, load growth and operational flexibility

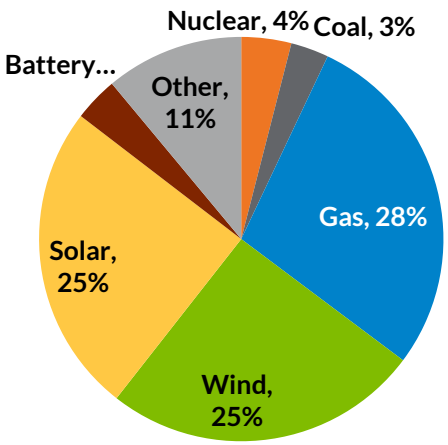

## TOP FIVE PROJECTS BY INVESTMENT

1. **Cargas and Smalling Stations:** Local system enhancements in northern Louisiana to meet a new customer load, including two 27-mile, 500 kV lines
2. **Babel to Webre:** 145-mile, 500 kV line in southern Louisiana that facilitates transfers and increases load-serving capability
3. **Missouri Multi-Entity New Transmission:** 190-mile, 345 kV facilities planned jointly with AECI and SPP across Missouri, increasing reliability and transfer capability
4. **Sarepta to Mount Olive:** 60-mile, 500 kV line in northern Louisiana that enhances reliability and operational flexibility
5. **Mill Road to Granville:** Enhances reliability in eastern Wisconsin with various system enhancements, relieving loading on local 138 kV and 345 kV systems

# MISO's Future scenarios bookend long-term potential load and generation profiles for the system. Preliminary values are below, inclusive of the OBBBA and ERAS submissions through August

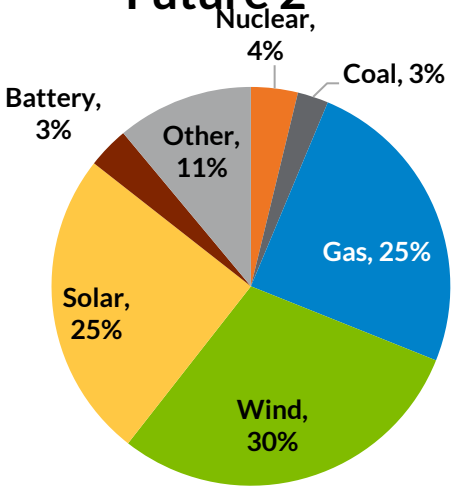
## Installed Capacity (GW, 2045)

### Future 1



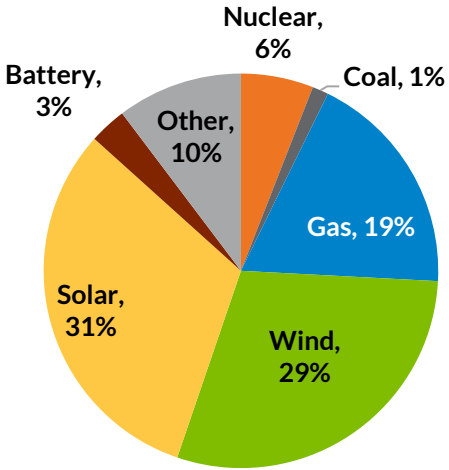

Total: 383 GW

### Future 2



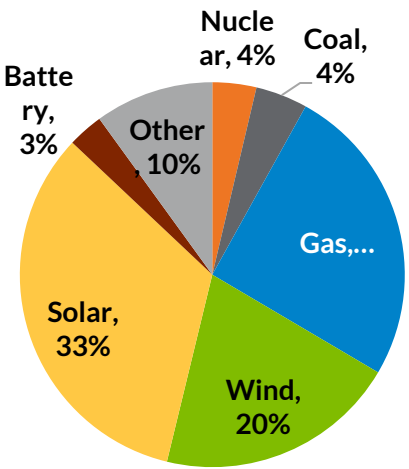

Total: 403 GW

### Future 3




Total: 446 GW

### Future 4




Total: 454 GW

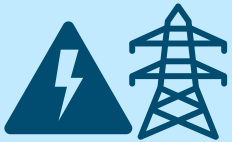
OBBBA: One Big Beautiful Bill Act ERAS: Expedited Resource Availability Study
Other includes DER and DSM, oil, conventional hydro, biomass, geothermal and other resource types.
Nuclear includes traditional and SMR.

# MTEP26 South LRTP begins journey to determine long-term system needs with a collaborative, investigative approach

## Approach

START THE JOURNEY

IDENTIFY OPTIONS

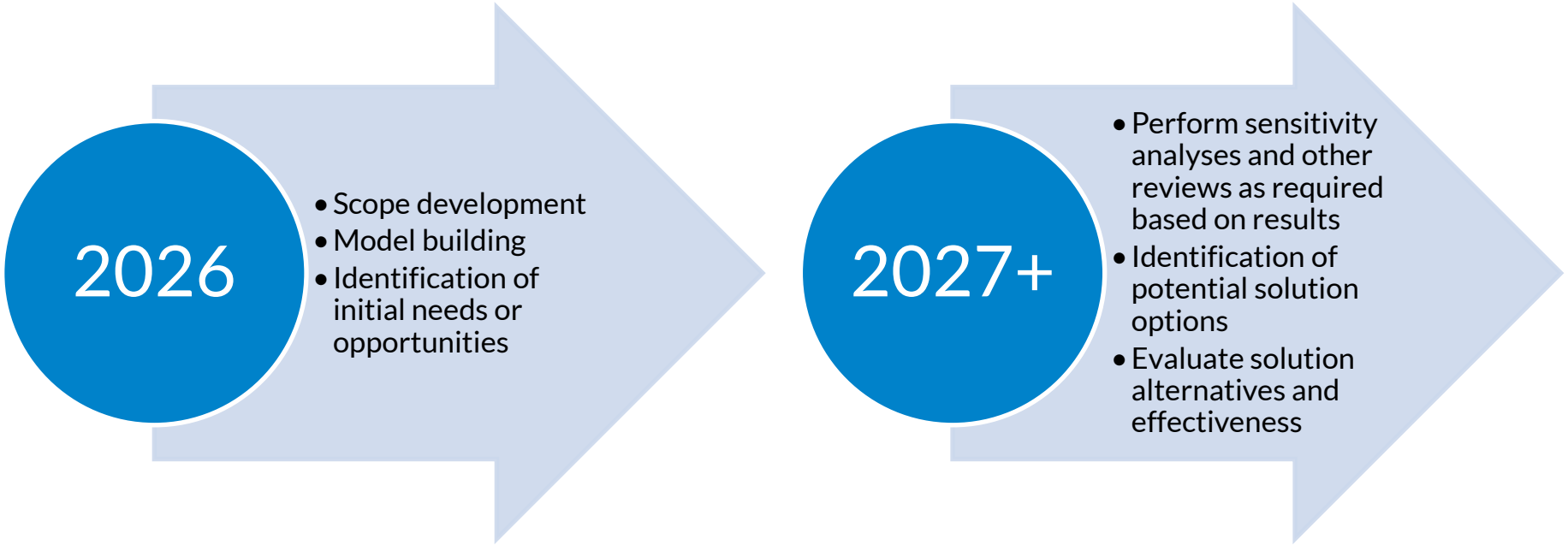


## MTEP26 South LRTP

| | |
|---|---|
| **Needs** | Support reliability and load growth |
| **Process** | Evaluate system reliability and load-serving needs using models defined by the updated Futures; develop detailed scope with stakeholders, beginning with Louisiana and progressing to Texas |
| **Outcome** | Options to guide next steps, which could include transmission and/or generation solutions for further study |

**Numbered "tranche" nomenclature** is retiring as LRTP continues to progress

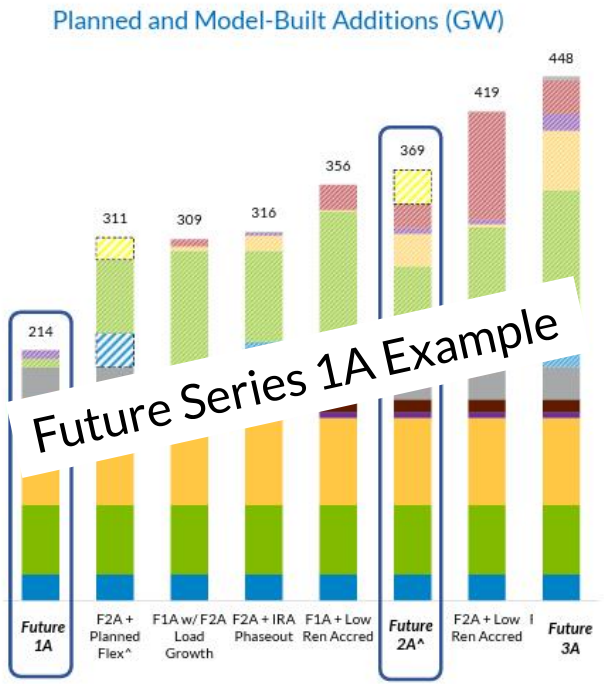
# Although the scope is still being formed, the South LRTP analysis is anticipated to take 3 years after the completion of MISO futures



# Questions?

# Appendix

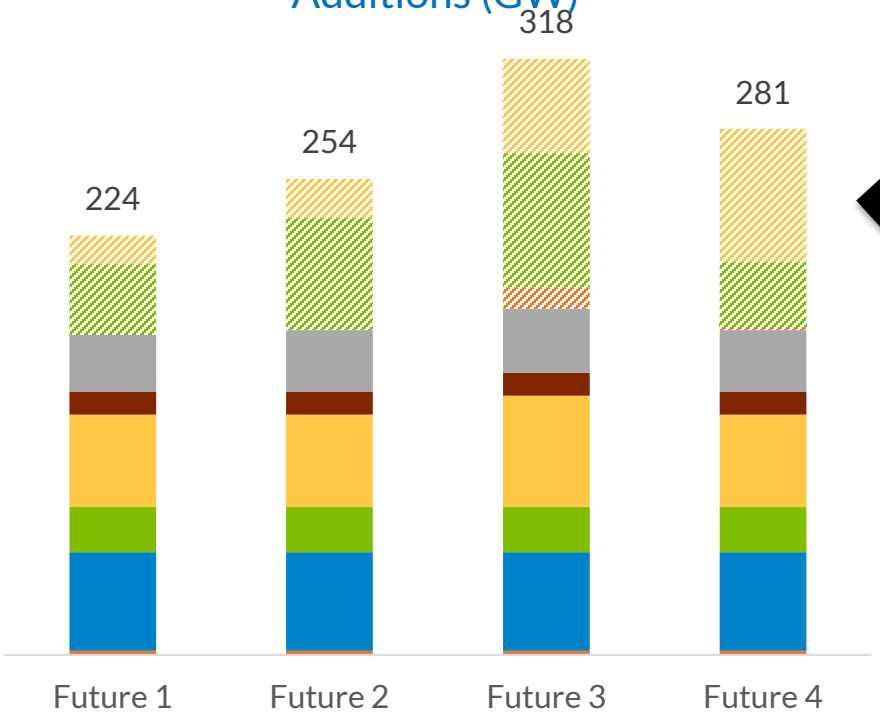
# MISO will conduct sensitivities to validate the Futures bookends are sufficiently broad and to determine if any adjustments are needed



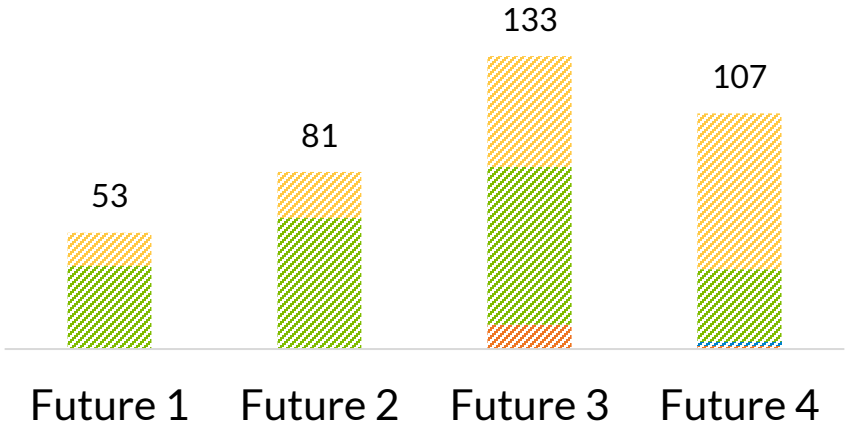

- The goal of Futures is not to define a single future, but to capture a broad range of possibilities
  - Sensitivities can validate scenarios chosen for studies and capture key risks
- MISO is considering potential sensitivities for study after completing Futures 1-4
  - These sensitivities should change key model assumptions that determine capacity expansion results
- A subset of sensitivities for further analysis will be identified and shared at an upcoming workshop

# Total Expansion (Member-Planned + Model-Built), Futures 1-4

## Member-Planned and Model-Built Additions (GW)




## Model-Built Additions (GW)




| | % Member-Planned | % Model-Built |
|---|---|---|
| Future 1 | 76% | 24% |
| Future 2 | 68% | 32% |
| Future 3 | 58% | 42% |
| Future 4 | 62% | 38% |

Nuclear Gas Wind Solar Battery Other

Member-Planned Model-Built

MISO