



WESTERN RESOURCE ADEQUACY PROGRAM

ESIG Fall Technical Workshop

Wide Area Resource Adequacy Assessments

Western Power Pool

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October 28, 2025

ESSENTIAL WRAP COMPONENTS

Category	Summary
Planning Seasons	<ul style="list-style-type: none"> - Winter: Nov–Mar 15 - Summer: Jun–Sep 15
Forward Showing	<ul style="list-style-type: none"> - Demonstrate firm capacity (P50 + PRM) 7 months prior to season
Reliability Metric	<ul style="list-style-type: none"> - Probabilistic LOLE (1-in-10) analysis sets PRMs
PRM Ranges	<ul style="list-style-type: none"> - <u>Winter 26-27</u> - MidC 29.4-18.8% - SWEDE 13.3-11.8% <p><i>Note: PRMs expressed as an Unforced Capacity Requirement (UCAP approach) and vary by month.</i></p>
Transmission Requirement	<ul style="list-style-type: none"> - 75% demonstration of source-to-sink firm/conditional firm transmission at Forward Showing - 100% firm/conditional firm source-to-sink Operational time horizon (or exposed to financial charges)
Participation Model	<ul style="list-style-type: none"> - <u>Voluntary</u> participation of Load Responsible Entities (LREs)
Qualifying Capacity	<ul style="list-style-type: none"> - Wind/Solar: ELCC - Run-of-River Hydro: Historical output on Capacity Critical Hours - Storage Hydro: WPP-developed hydro model - Thermal: UCAP (forced outage adjustment) - Short Term Storage: ELCC - Hybrid: "Sum of parts" - Customer-side: Load modifier/capacity resource - External (imports): Must have identified source + firm transmission rights
Treatment of Assumed Imports	<ul style="list-style-type: none"> - Assume no non-firm imports and model only those that participants secured before modeling start

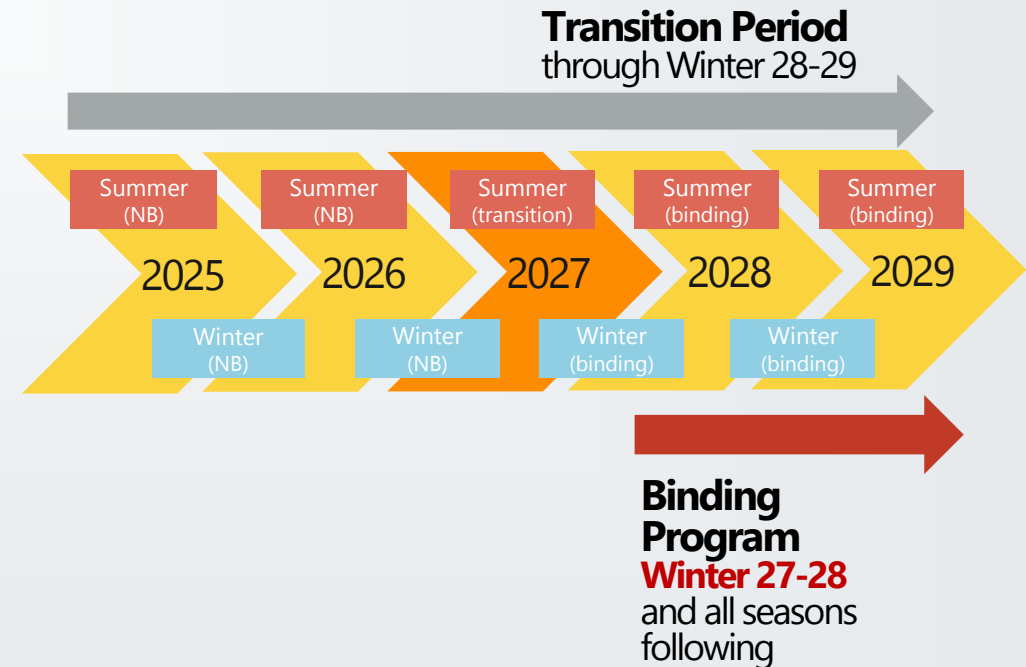
WHERE WRAP IS NOW

» Transition Plan

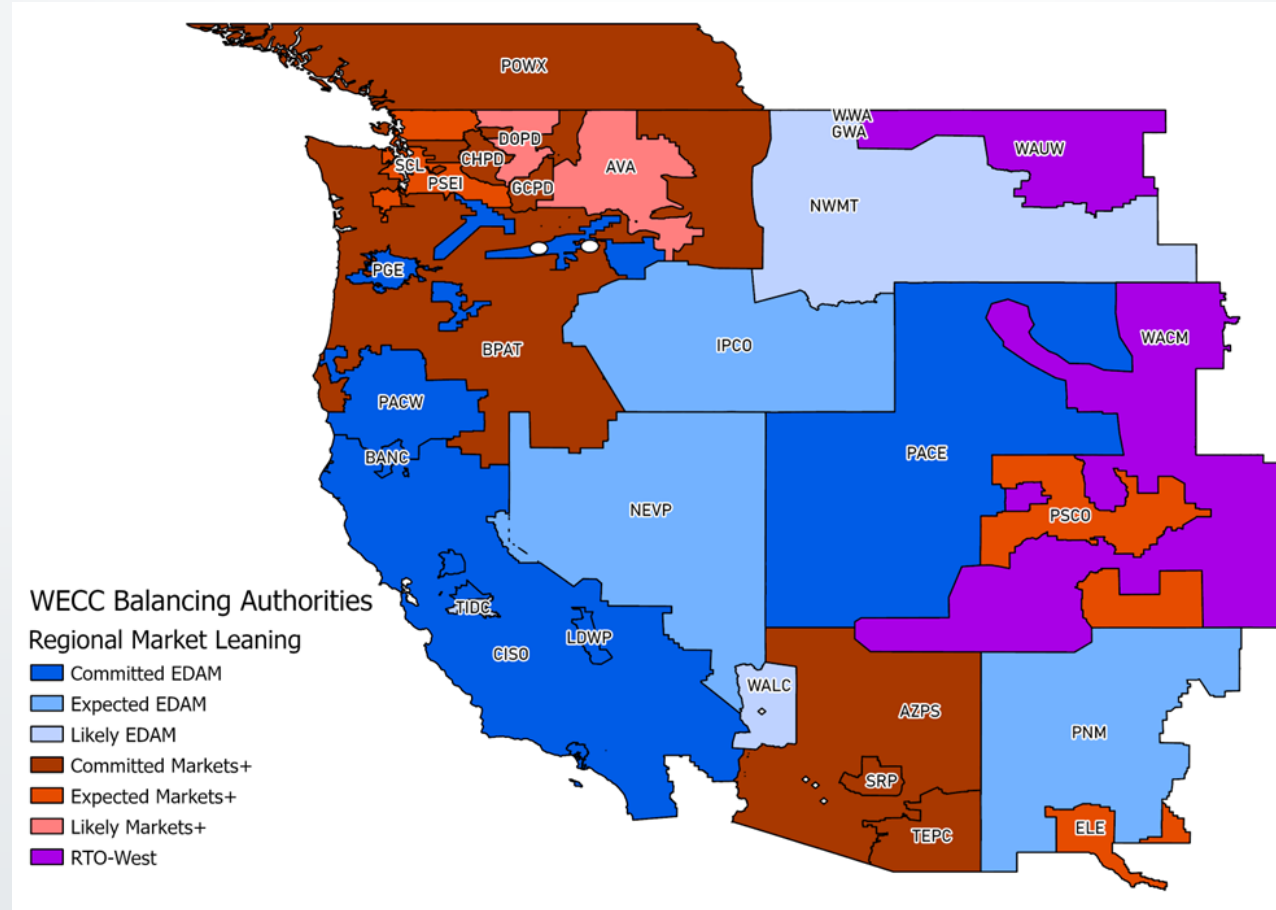
- **First binding season: Winter 2027/28**
- Discounted deficiency charges

» Exit Notice Deadline: October 31, 2025

» Progress & Momentum

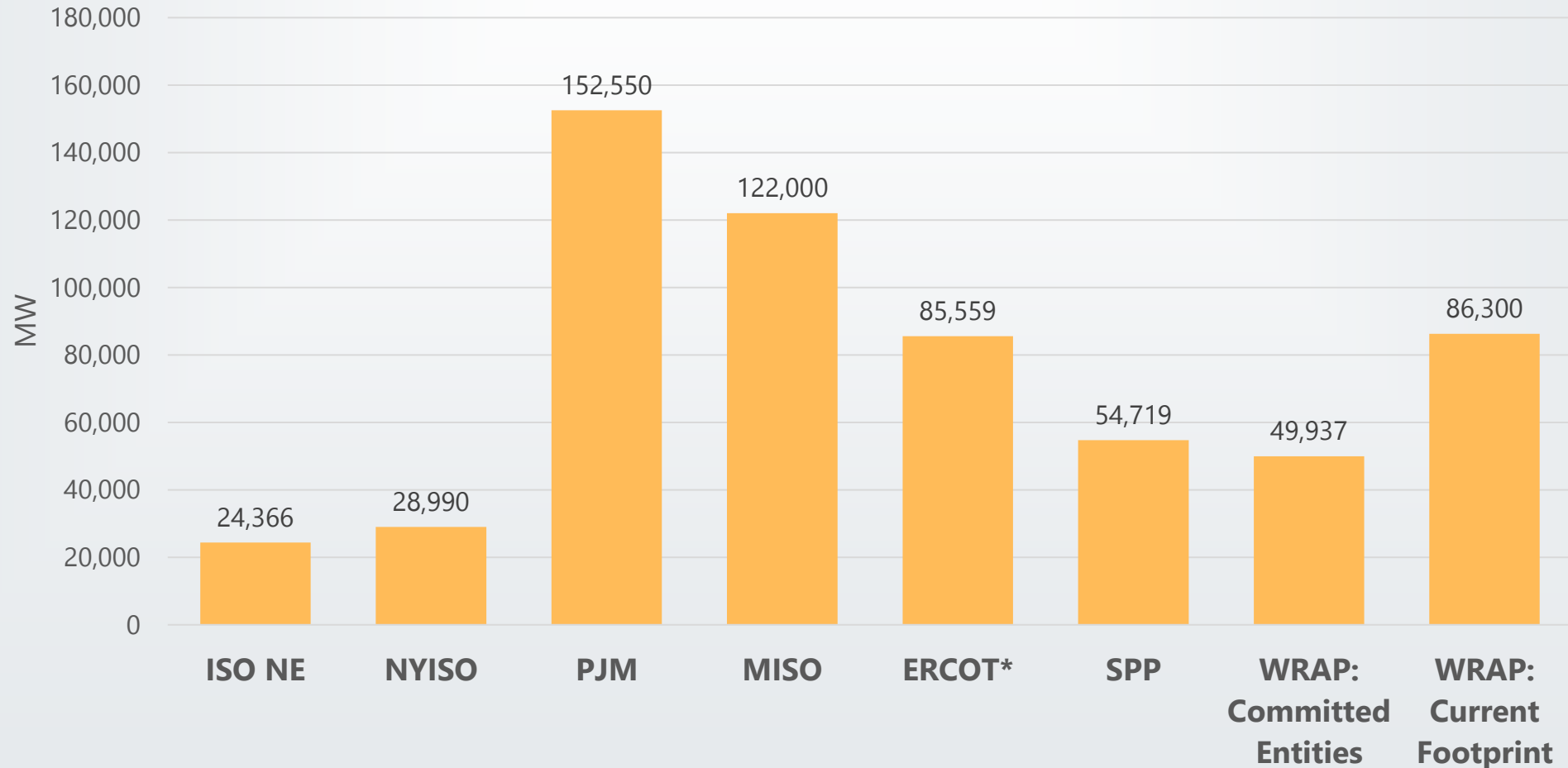


CURRENT WESTERN MARKET LEANINGS



WRAP FOOTPRINT COMPARISON

2024 Peak Load



■ 2024 Peak Load

**ERCOT doesn't have an RA program or capacity market*

**WRAP: Sum of peak load for the 11 already committed entities with expectation to continue growing.*

PROGRAM EVOLUTION AREAS

Task Force Themes:

- » **Planning Metrics:** provide metrics earlier, reduce month-to-month swings
- » **Day-Ahead Market Integration:** capitalize on efficiencies available with forthcoming markets
- » **Resource Capacity Value:** Allocation, demonstration requirements, determination of capacity value
- » **Load Growth:** Load forecasting, growth rates
- » **Firm Transmission:** expanding/generalizing definition

Other Efforts:

- » **Deficiency Charges:** consider transitional or permanent adjustments to enable participation
- » **Odds and Ends:** ongoing policy clean-up, aided by participants' engagement in non-binding program