



Resource Adequacy  
Oregon House of  
Representatives  
Energy and Environment  
Committee

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# WECC



§215 Federal Power Act—  
FERC certifies an Electric  
Reliability Organization (ERO)

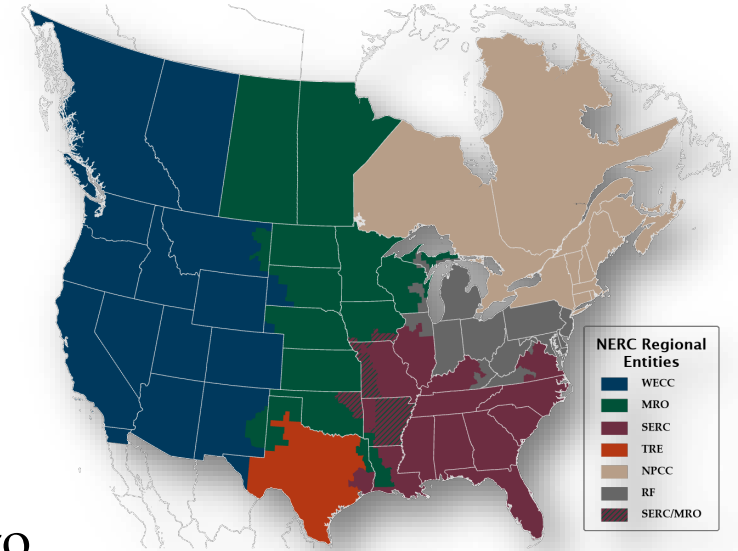


The ERO may  
delegate authority to  
Regional Entities



# WECC

The Regional Entity  
carries out delegated  
responsibilities



# Ensuring Reliability

## WECC's Reliability Risk Priorities

1. Resource Adequacy and Performance
2. Changing Resource Mix
3. Distribution System and Customer Load Impacts on the BPS
4. Extreme Natural Events



# The Western Assessment



Demand and  
Resource Projections  
for next 10 years



Probabilistic  
modeling compares  
demand to resources



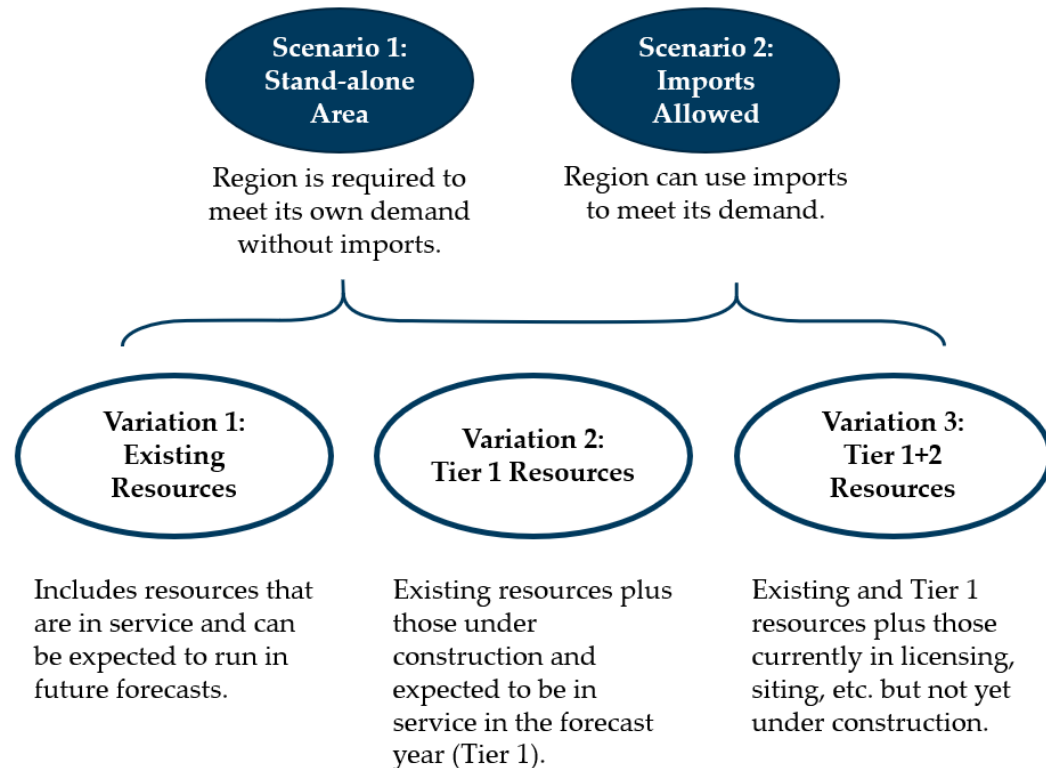
Calculate Reserve  
Margin



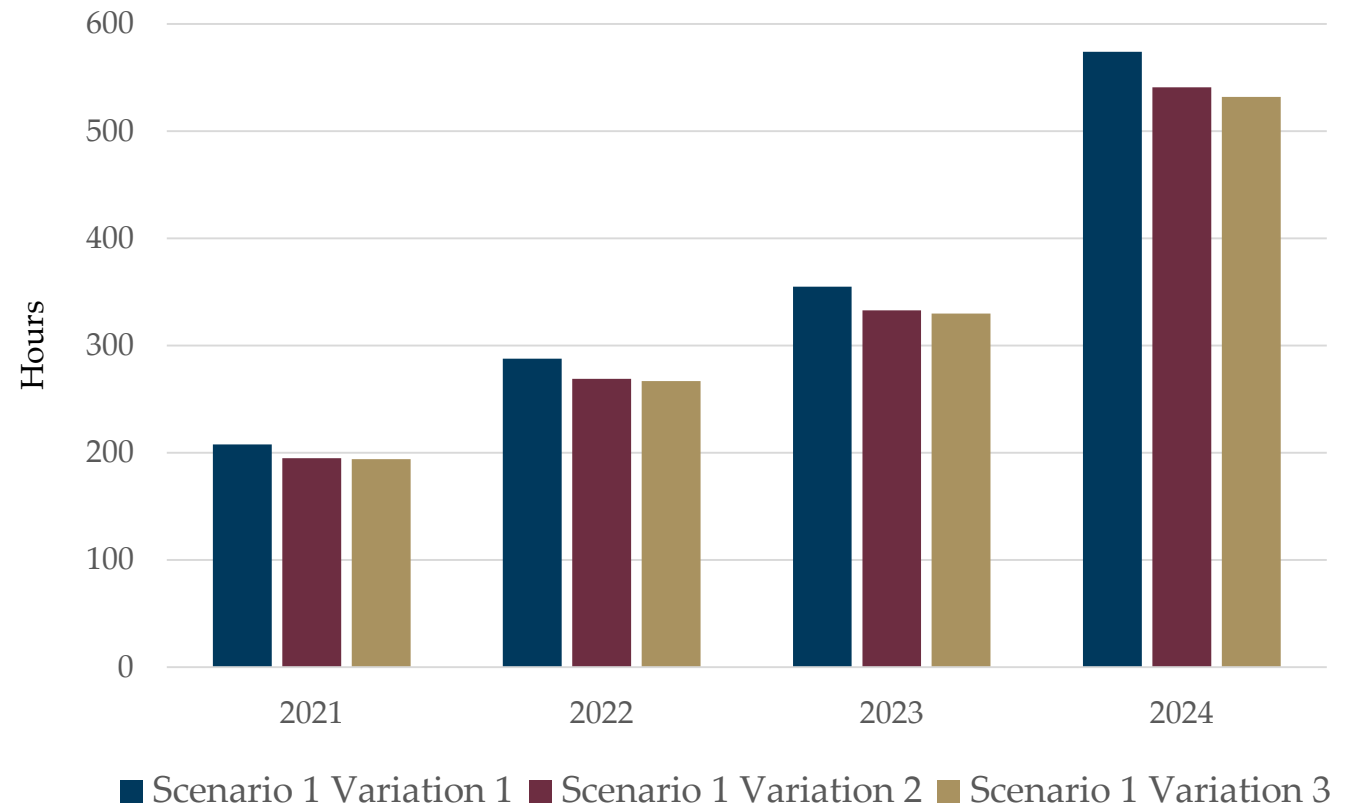
Probability of unserved  
demand for each hour over  
the next 10 years

# Western Assessment: NWPP-NW Results

## Scenarios Studied



## NWPP-NW Number of Hours with Potential Demand at Risk



The value for all Scenario 2 variations is 0 hours



# NWPP-NW Subregion Takeaways

- Without importing energy, the NWPP-NW subregion will not be 100% resource adequate over the next five years
- The NWPP-NW subregion is resource adequate if it can rely on imports
- Imports are becoming more scarce as other regions face similar challenges

*The increasing variability of demand and resources is affecting the entire Western Interconnection, making reliance on neighbors more challenging.*



# Recommendations

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- **Recommendation 1:** As variability grows, a dynamic reserve margin will better ensure reliability for all hours
- **Recommendation 2:** Areas should consider the degree to which they rely on external areas for imports when those areas are facing large amounts of variability as well
- **Recommendation 3:** WECC subregions should coordinate their resource planning each year to ensure they are not counting on the same imports to maintain reliability



## Contact:

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