



Resource Adequacy
Oregon Senate
Committee on Energy and
Environment

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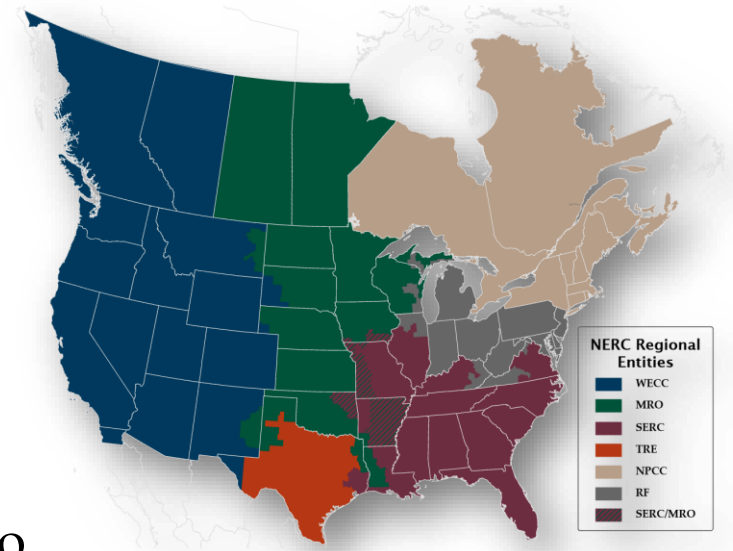
WECC



§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



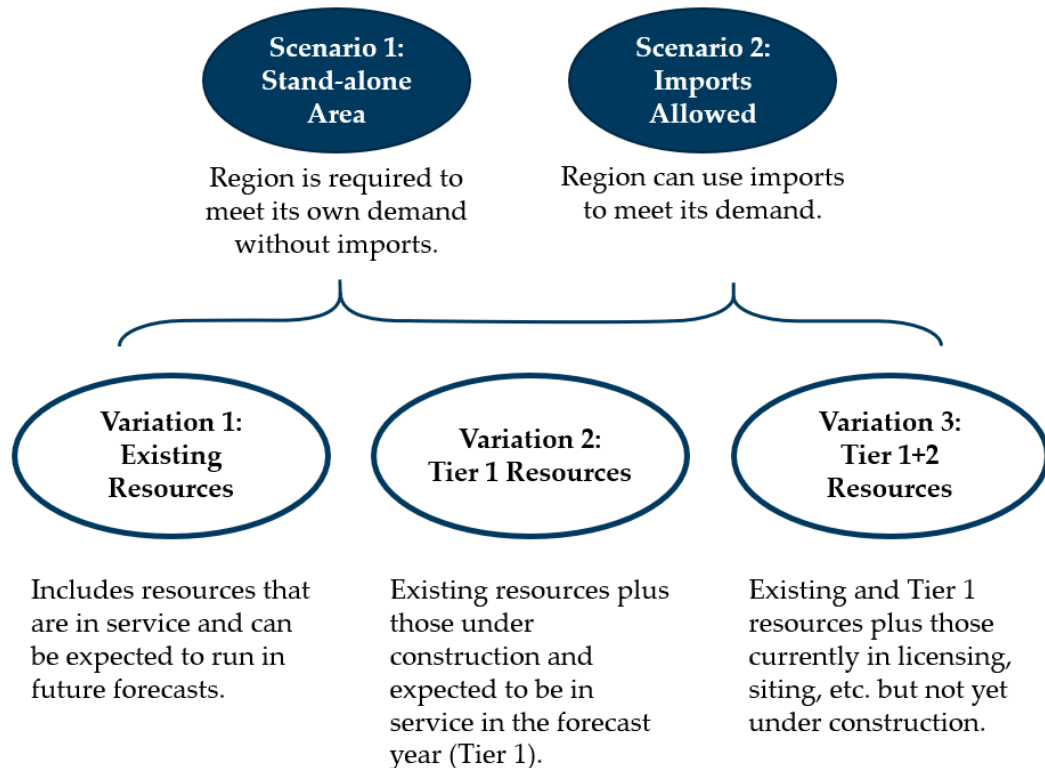
Calculate Reserve
Margin



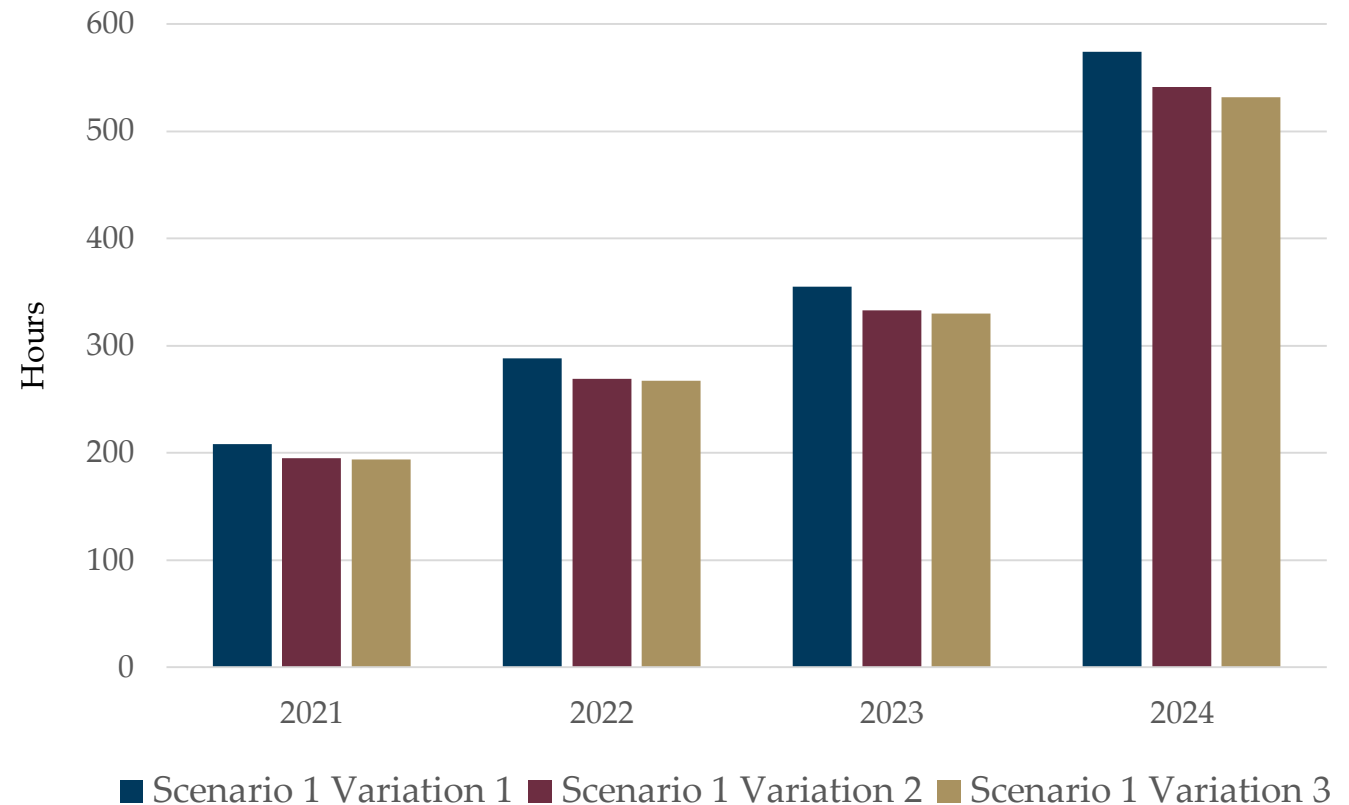
Probability of unserved
demand for each hour over
the next 10 years

Western Assessment: NWPP-NW Results

Scenarios Studied



NWPP-NW Number of Hours with Potential Demand at Risk

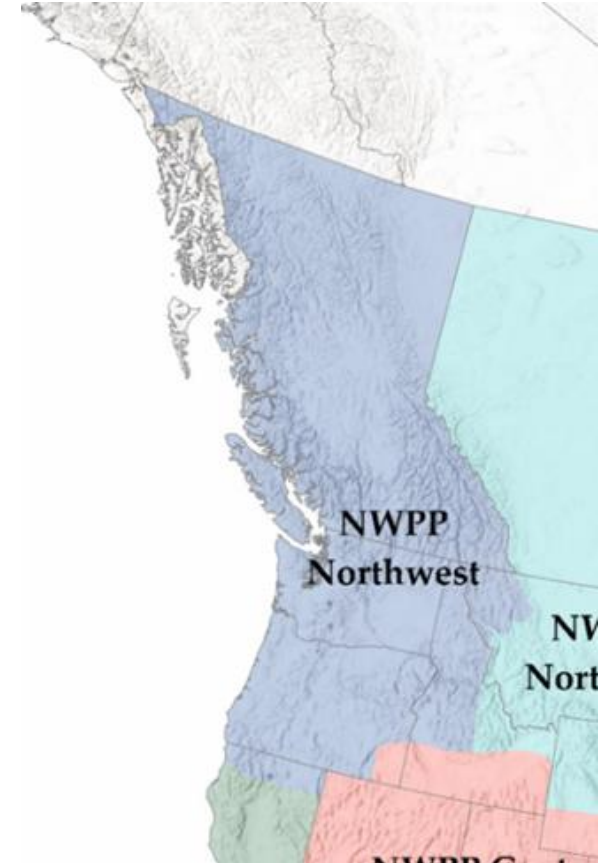


The value for all Scenario 2 variations is 0 hours

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

- **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



WECC

Electric Reliability and Security for the West

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