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## Northwest **Power** and **Conservation** Council

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September 4, 2024

### **MEMORANDUM**

**TO: Council Members**

**FROM: Jennifer Light, Director of Power Planning**

**SUBJECT: Update to 2021 Power Plan Mid-Term Assessment Summary**

### **BACKGROUND:**

**Presenter:** Jennifer Light

**Summary:** The Council will discuss proposed updates to the 2021 Power Plan Mid-Term Assessment summary. The Council first released the Mid-Term Assessment in February of 2024 and updated the summary in May 2024. This will be the second update to the summary since the release of the Mid-Term Assessment. The update reflect new information from the Council's recently released Adequacy Assessment for 2029 and other information gathered and presented in June through September. Assuming Council support of the language, staff will post the updated summary (including any required changes) and supporting mid-term assessment materials.

**Workplan:** A.1.6. Maintain Mid-Term Assessment.

**Background:** In the 2021 Power Plan, the Council committed to monitoring the region's rapidly evolving power system and policies, analyzing the impacts of changes, and reporting to the region through a mid-term assessment of the plan. In order to provide timely and useful information to the region, while also transitioning some time to the preparation of the Council's next power plan, the Power Committee agreed to developing a more dynamic

mid-term assessment. This mid-term assessment is hosted on the Council's website and provides a way of regularly updating the region as new information becomes available. At least quarterly, the Council will review and approve updates to the mid-term assessment summary. This will be the second update since the adoption of the Mid-Term Assessment at the February 2024 Council meeting.

The proposed updates account for new information since February, including:

- Updated load forecast information showing electric vehicle forecasts tracking along the 2021 Power Plan high forecast and large and uncertain data center load forecasts.
- Findings from the Council's Adequacy Assessment for 2029 including paths where the region will remain adequate and risks of significant load growth or too little investment in energy efficiency
- Information around the MLK winter event that caused significant challenges for the region, requiring the region to rely significantly more on market purchases than assumed in Council analysis to date.
- Updates on the progress of the implementation of the Conservation Program in the 2021 Power Plan showing that the region is making good progress towards the multiple goals outlined.

Staff shared the draft updates with members under a separate cover.

Reference: [2021 Power Plan Mid-Term Assessment on Council Website](#)

# Update to 2021 Power Plan Mid-Term Assessment

Jennifer Light

September 10, 2024



Northwest **Power** and  
Conservation Council

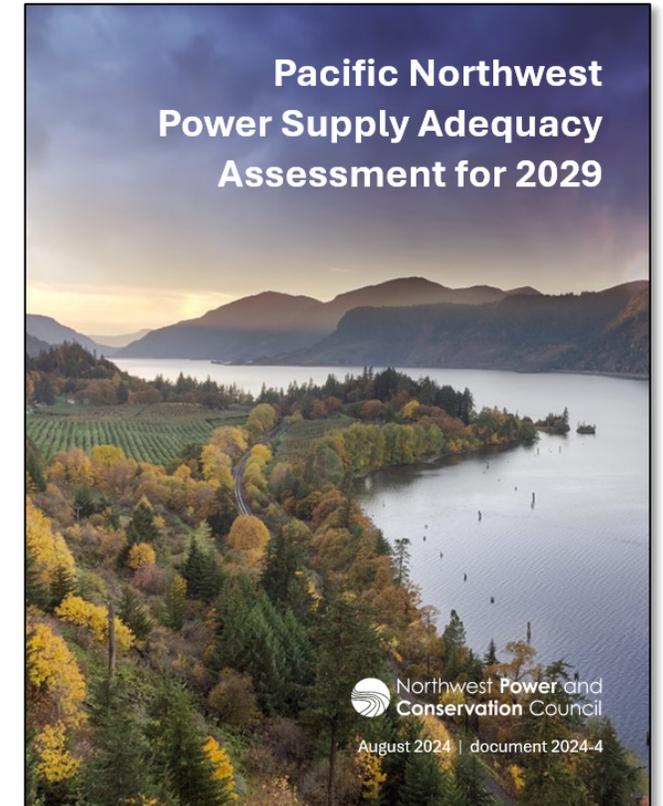
# Purpose

- Seek a head nod from the Council on an updated summary for the Council's Mid-Term Assessment
- Update primarily focuses on new information from the Adequacy Assessment for 2029

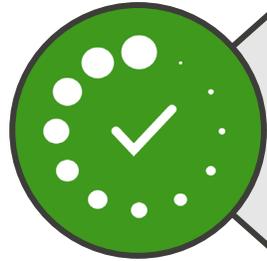
The screenshot shows the Northwest Power and Conservation Council website. The header includes the logo, navigation links (ABOUT, NEWS, FISH AND WILDLIFE, ENERGY, MEETINGS, REPORTS AND DOCUMENTS), a CONTACT link, and a search bar. The main content area is titled "2021 Power Plan Mid-Term Assessment" and features a "Summary" section updated in May 2024. The summary text discusses the Council's Adequacy Assessment for 2027, highlighting the region's progress in developing resources and addressing load growth. It also mentions the region's progress in achieving energy efficiency and renewable energy goals. To the right of the summary are four informational boxes: "Energy Efficiency" (updated October 2023), "Renewables" (updated February 2024), "Demand Response" (updated December 2023), and "Reserves". Each box contains a brief overview of the region's progress and a link to more information.

# Adequacy Assessment for 2029

- **Question:** Given the known changes in the system since the completion of the 2021 Power Plan, does the plan resource strategy continue to provide for an adequate system?
- **Short Answer:** It depends on how much load growth the region experiences and how much of the power plan strategy is pursued.
- **Longer Answer:**
  - Implementing the 2021 Power Plan resource strategy will provide for an adequate system, assuming loads and resource acquisition consistent with the reference scenario
  - Changes to the existing system appear to alleviate some challenges with load growth
  - Achieving only the low end of the energy efficiency target presents adequacy risk to the region
  - Load growth presents a more significant risk

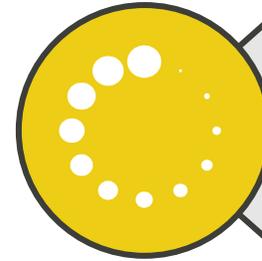


# Dashboard Highlights



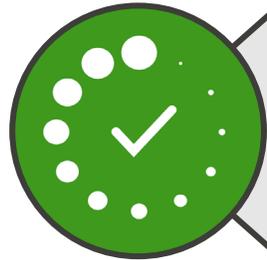
## Renewable Development:

Region has acquired over 3,200 MW of renewables, on track to surpass the minimum called for in the plan



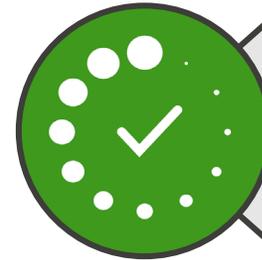
## Reserves:

A successful WRAP and day ahead market(s) will likely provide needed signals, but near-term risk remains



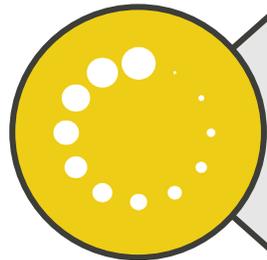
## Energy Efficiency:

Regional acquisition of energy efficiency appears to be on track with the power plan target



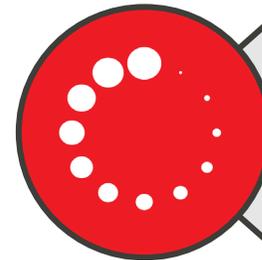
## Existing System Changes:

Changing decisions around coal plants (~1480 MW of conversions) alleviate near-term challenges



## Demand Response:

Regional utilities are exploring demand response products, however more potential remains



## Load Growth:

Future load growth is a significant risk area, particularly near-term uncertainty around data centers

# Proposed Updates to the Mid-Term Assessment Summary

1. Reiteration of the plan strategy and explaining the purpose of the mid-term assessment
2. Key findings from the adequacy assessment (pulled from the executive summary)
3. Report on progress of resource development relative to plan goals
4. Highlighting near-term reserves risk and importance of programs like the WRAP
5. Discussion of significant adequacy risk from high load growth, akin to the recent winter event, and pointing to the importance of the ninth plan

