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January 30, 2024

### MEMORANDUM

TO: Council Members

FROM: Jennifer Light, Director of Power Planning

SUBJECT: Mid-Term Assessment Summary

### **BACKGROUND:**

- Presenter: Jennifer Light
- Summary: The Power Committee will discuss staff's proposed summary for the 2021 Power Plan Mid-Term Assessment. This is the first summary to be reviewed by the Power Committee. Assuming Committee approval, staff plans to post the 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. Over the past few meetings, the Power Committee has been discussing how to provide timely and useful information to the region, while also transitioning some time to the preparation of the Council's next power plan. In January, the Power Committee agreed to move forward with a mid-term assessment that would be hosted on the Council's website and provide a way of regularly updating the region as new information becomes available. At least quarterly, the Power Committee will review and approve updates to the mid-term assessment summary.



# **Goal for Today**

• Staff is seeking a head nod from the Power Committee on the proposed 2021 Mid-Term Assessment Summary, including any changes identified by the Committee today

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

# Revisiting the Plan and Most Recent Adequacy Assessment

# **Reminder: 2021 Power Plan Strategy**



Existing System: Increase Reserves To reduce regional needs and support integration of renewables, the region needs to double the assumed reserves. This can most cost-effectively be done through more conservative operation of the existing system (both thermal and hydro units).



Energy Efficiency: 750-1,000 aMW by 2027

Significantly less acquisition than prior plan due being less cost-competitive, a lower build resource, not inherently dispatchable, and sensitive to market prices. Efficiency that supports system flexibility is most valuable.



### Renewables: At least 3,500 MW by 2027 Renewables are recommended due to their low costs,

interruptibility, and carbon reduction benefits. Longterm build out will impact the transmission system and should be done mindful of the cumulative impacts of the new resources.

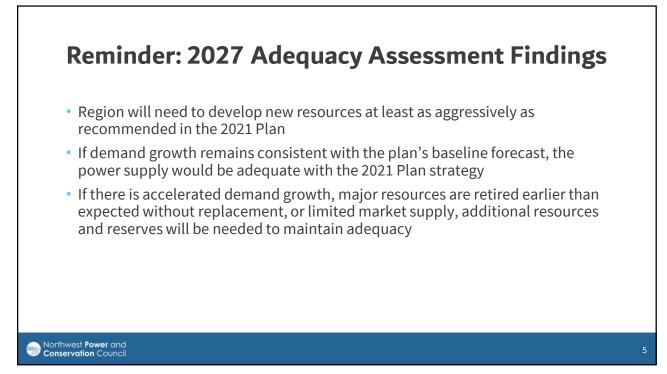


### Demand Response: Low-Cost Capacity

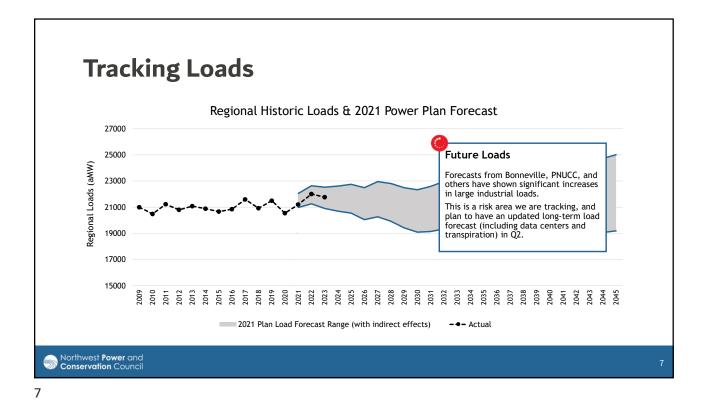
Highest value products are those that can be regularly deployed at a low-cost and with minimal to no impact on customer. The Council identified demand voltage regulation and time of use rates as two products, estimating 720 MW of potential.

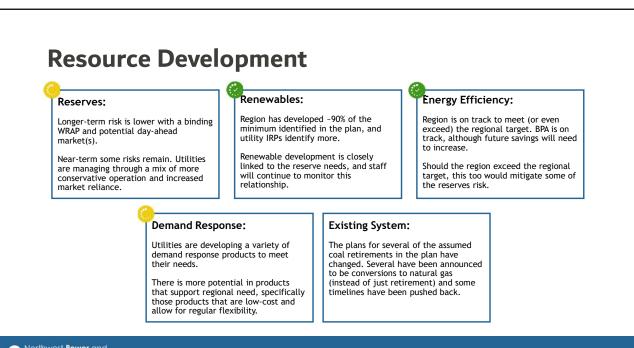
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# Next Steps for the Mid-Term Assessment

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# Head-Nod on Proposed Summary

# **Current Summary**

- Region needs to develop resources at least as aggressively as in the plan
  - Regional renewable development is ahead of pace and efficiency acquisition is on track
  - Demand response is being developed, although more potential remains
- Sufficient reserves are a critical element of the 2021 Power Plan strategy
  - Long-term, the WRAP and day-ahead market(s) will provide the signals needed
  - Near-term, there is some risk, which is being managed by utilities
  - Early data on regional efficiency acquisition suggests current levels may also mitigate risk
- Significant load growth or resource retirement without replacement bring risk
  - Load growth, particularly in the industrial sector, is a current risk area we are analyzing
  - Changing decisions around coal retirements mitigate this risk somewhat



