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

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April 2, 2024

### **MEMORANDUM**

**TO:** Power Committee Members

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

**SUBJECT:** Power Division Update and Planning

### **BACKGROUND:**

**Presenter:** Jennifer Light

**Summary:** The Power Committee will start with a Division Update and Planning item. This will briefly touch on significant activities since the last Council meeting, topics being discussed at this meeting and their connection to the Power Division's work plan, and other efforts underway.

# Committee Update and Planning

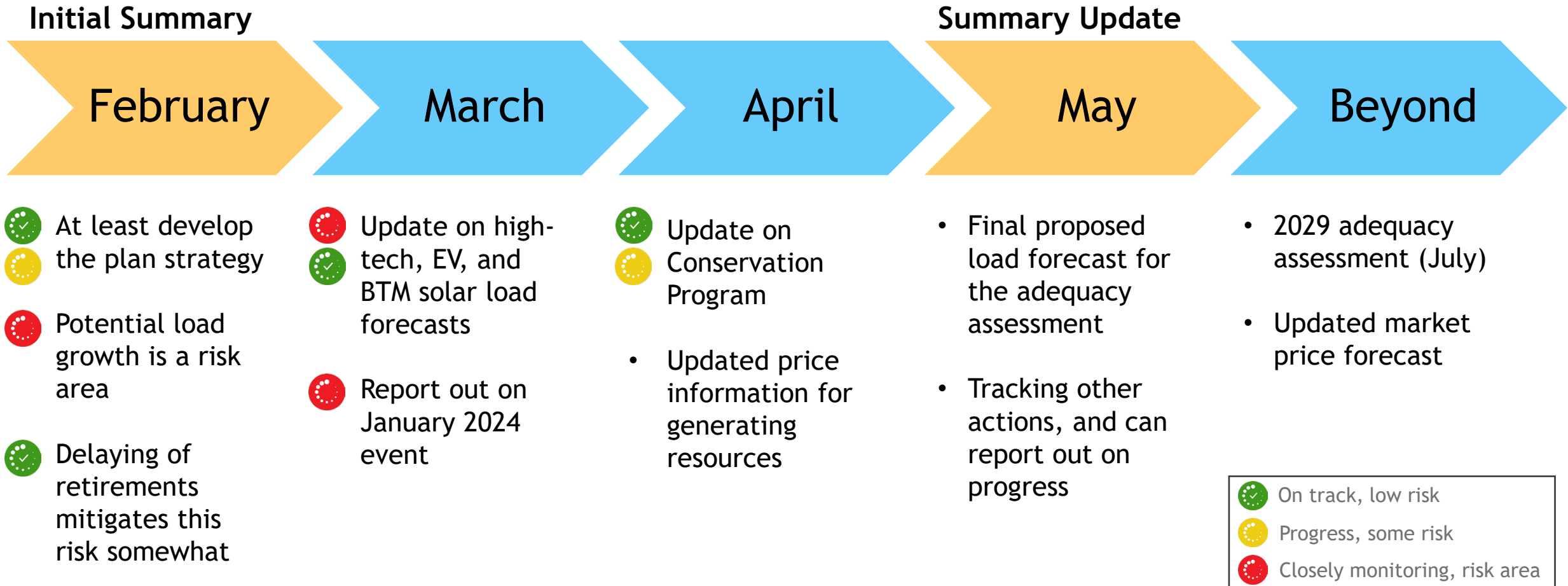
April 9, 2024

# April Meeting Topics

- All the topics on the Power Committee today connect to work plan elements related to 2021 Power Plan Implementation
  - Tracking Conservation Program progress
  - Updating data on generating resources to inform our annual studies and mid-term assessment
  - Tracking emerging technologies

Primary Function	Tasks	Timeframe (CY)
A. Implementation of the 2021 Power Plan and Development of the Mid-Term Assessment	<b>A.1. Reporting on Plan Implementation</b>	
	1. Tracking and reporting on energy efficiency accomplishments relative to the 2021 Power Plan Conservation Program.	Annual Report - Q3
	2. Tracking and reporting on generating resource builds, both in region and across the WECC, as compared to the 2021 Power Plan analysis and strategy.	Annual Report - Q1
	3. Tracking and reporting on demand response efforts in the region relative to the 2021 Power Plan.	Annual Report - Q4
	4. Tracking and reporting on progress across other elements of the 2021 Power Plan, including model conservation standards, research, etc.	Ongoing
	5. Convening and/or participating in regional discussions on topics related to the 2021 Power Plan recommendations.	Ongoing
	6. Maintain Mid-Term Assessment, updating recommendations as new information is available.	Ongoing - Quarterly Updates
	<b>A.2. Conduct Periodic Studies on Regional Adequacy</b>	
	1. Develop an updated fuels price forecast.	Complete for 2023 Next update Q4 2024
	2. Create an updated in region hourly load forecast and updates to WECC-wide loads to inform the Adequacy Assessment.	Q1 2024
	3. Update the wholesale electricity price forecast and the related emissions forecast.	Q2 2024
	4. Conduct the regional Adequacy Assessment and prepare report detailing the analysis and findings.	Q3 2024
	<b>A.3. Tracking Regional Efforts and Policies</b>	
	1. Track emerging technologies, both supply and demand side, providing periodic updates to the Council.	Ongoing - Quarterly Updates
	2. Coordinate with regional utilities on integrated resource planning and other activities to share plan findings and leverage utility insights and advancements.	Ongoing
	3. Track markets efforts, including day-ahead market offerings and transmission planning, to inform Council analysis	Ongoing - Quarterly Updates
	4. Track local, state, and Federal policies that impact the energy system and provide periodic reports to Council on new developments.	Ongoing - Annual Updates

# Building to Next Mid-Term Assessment Update



# Mid-Term Assessment Next Steps

- Staff plan to bring proposed edits for the Mid-Term Assessment summary to the May Power Committee meeting
- Some things we know today:
  - Potential significant near-term load growth creates a risk area
  - Utilities are mitigating this risk (at least somewhat) through changing resource retirement decisions and investment in energy efficiency
- The upcoming adequacy assessment will provide our best picture of the adequacy and related risks (not complete until July)



An aerial, sepia-toned photograph of a large lake with numerous forested islands and peninsulas. A road or railway line runs along the left side of the lake. The sky is filled with large, dramatic clouds. The word "Questions?" is overlaid in the center in a white, bold, sans-serif font.

**Questions?**

# Work Plan Reminder

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	2. Tracking and reporting on generating resource builds, both in region and across the WECC, as compared to the 2021 Power Plan analysis and strategy.	Annual Report - Q1
	3. Tracking and reporting on demand response efforts in the region relative to the 2021 Power Plan.	Annual Report - Q4
	4. Tracking and reporting on progress across other elements of the 2021 Power Plan, including model conservation standards, research, etc.	Ongoing
	5. Convening and/or participating in regional discussions on topics related to the 2021 Power Plan recommendations.	Ongoing
	6. Maintain Mid-Term Assessment, updating recommendations as new information is available.	Ongoing - Quarterly Updates
	<b>A.2. Conduct Periodic Studies on Regional Adequacy</b>	
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	<b>A.3. Tracking Regional Efforts and Policies</b>	
	1. Track emerging technologies, both supply and demand side, providing periodic updates to the Council.	Ongoing - Quarterly Updates
	2. Coordinate with regional utilities on integrated resource planning and other activities to share plan findings and leverage utility insights and advancements.	Ongoing
	3. Track markets efforts, including day-ahead market offerings and transmission planning, to inform Council analysis	Ongoing - Quarterly Updates
	4. Track local, state, and Federal policies that impact the energy system and provide periodic reports to Council on new developments.	Ongoing - Annual Updates

B. Preparation of Tools and Data for the Ninth Power Plan	<b>B.1. Tool Enhancement</b>	
	1. Finalize development of new long-term load forecast model (Itron SAE) and update long-term load forecast.	Build Out - Q2 2024 Plan Forecast - 2025
	2. Prepare and test new capital expansion model (OptGen) in preparation of ninth plan analysis.	Ongoing
	3. Continued enhancement of GENESYS operations to support periodic studies and next power plan.	Ongoing - Annual Update
	4. Updating tools used to estimate new resource options, both supply and demand side, in preparation of the next power plan.	Ongoing
	<b>B.2. Enhanced Data and Modeling</b>	
	1. Prepare for the ninth power plan, developing a draft scope, preparing models and inputs, and developing environmental methodology.	Ongoing in 2024
	2 Expand modeling and data sets to capture modeling of new resources, the locational value of resources and understanding of transmission, hydrogen fuel production and impacts on loads, reserves, and other elements critical to understanding the future power system.	Ongoing
	3. Enhance methodologies to account for interactions between energy efficiency and demand response.	Ongoing
	4. Develop methodologies to account for resiliency across resources and the power system.	Ongoing
	5. Refine new multi-metric adequacy standard approach, focusing on risk thresholds.	Draft - 2024 Final - 2025
	6. Maintaining climate change data to ensure it remains relevant and improve analysis for loads and resources in the ninth power plan and ensure appropriate modeling of extreme weather.	Ongoing
	7. Continue to manage the Regional Technical Forum, leveraging its data and analysis to expand and enhance the assessment of energy efficiency and demand response potential.	Ongoing