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January 30, 2024

MEMORANDUM

TO: Council Members

FROM: Jennifer Light, Director of Power Planning

SUBJECT: Committee Update and Planning: 2024-2025 Work Plan

BACKGROUND:

Presenter: Jennifer Light

Summary: The Power Committee will start with another Committee Update and Planning item. This month, the update will focus on discussing the Power Division 2024-2025 Work Plan. The work of the Power Division will continue to focus on (1) Implementation of the 2021 Power Plan and (2) Preparation for the Council's ninth power plan. In 2024, more of the work will shift towards preparation for the next plan.

Northwest Power and Conservation Council Power Division Work Plan Highlights (2024-2025)

Primary Function	Tasks	Timeframe (CY)
A. Implementation of the 2021 Power Plan and Development of the Mid-Term Assessment	A.1. Reporting on Plan Implementation	
	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
	A.2. Conduct Periodic Studies on Regional Adequacy	
	1. Develop an updated fuels price forecast.	Complete for 2024 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
	A.3. Tracking Regional Efforts and Policies	
	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

Northwest Power and Conservation Council Power Division Work Plan Highlights (2024-2025)

B. Preparation of Tools and Data for the Ninth Power Plan	B.1. Tool Enhancement	
	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.2. Enhanced Data and Modeling	
	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	