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July 5, 2023

MEMORANDUM

TO: Power Committee Members

FROM: Jennifer Light, Director of Power Planning

SUBJECT: Committee Update and Planning

BACKGROUND:

Presenter: Jennifer Light

Summary: The Power Committee will begin with a new Committee Update and Planning agenda item. This is an opportunity for Jennifer to briefly address important topics for the month. This will include a brief introduction to agenda items and their connection to the division's work plan. Jennifer will also provide an update on other ongoing division work, which might include follow-ups from previous Council discussions and a preview of activities that are underway that will ultimately make it to the Council table for deliberation. This can also provide an opportunity for Committee members to raise questions or discussion items and request future discussion or agenda items.

Committee Update and Planning

July 11, 2023



Northwest **Power** and
Conservation Council

Purpose and Goals

- **Purpose:**
 - Briefly connect agenda items to work plan objectives
 - Highlight other work going on across the division
 - Provide an opportunity to ask questions or discussion items for future meetings
- **Overall Objective:** Keep all the work of the division top of mind and work to better connect each of these items to our ultimate role of power planning

Work Plan Reminder

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, including hydro flexibility and assessment of refined datasets to inform consumer impacts.	Scoping - 2023
	A.2. Conduct Periodic Studies on Regional Adequacy	
	1. Develop an updated fuels price forecast.	Q4 2023
	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 Reports
	2. Coordinate with regional utilities on integrated resource planning and other activities to share plan findings and leverage utility insights and advancements.	Ongoing - Annual Report
	3. Track markets efforts, including day-ahead market offerings and transmission planning, to inform Council analysis	Ongoing - Quarterly Reports
	4. Track local, state, and Federal policies that impact the energy system and provide periodic reports to Council on new developments.	Ongoing - Annual Report

B. Preparation of Tools and Data for the Ninth Power Plan	B.1. Tool Enhancement	
	1. Update load forecasting capabilities to better reflect the current power system.	Selection - Q1 2023 Built Out - Q1 2024
	2. Explore new capital expansion modeling approach to provide better optimization for future power system needs.	Selection - Q3 2023
	3. Continued enhancement of GENESYS operations to support periodic studies and next power plan.	Ongoing - Annual Report
	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. Develop approaches to improve the data assumptions and modeling of commercial and industrial energy efficiency potential.	Q2 2023, Ongoing
	2. Develop methodologies to quantify flexibility and resilience impacts from energy efficiency, with a goal of informing other resources as appropriate.	Q1 2023, Ongoing
	3. Refine new multi-metric adequacy standard approach, focusing on risk thresholds.	Ongoing - Annual Report
	4. Conduct an updated upstream methane analysis with regional stakeholders.	2024 or Later
	5. Maintaining climate change data to ensure it remains relevant and improve analysis for loads and resources in the ninth power plan.	Ongoing
	6. Improve data and modeling of emerging technologies, including distributed energy resources and storage.	Ongoing
	7. Explore improvements to modeling hydrogen fuel production and impacts on loads, reserves, transmission capability, locational impacts of resources, the value of non-quantifiable environmental benefits (e.g. land use), and other elements critical to understanding the future power system.	Ongoing
	8. 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

July Meeting Topics

- Tracking and informing on activities across the region helps the Council:
 - Understand how things are tracking relative to the plan and provide guidance where needed
 - Highlight changing dynamics to be considered in our planning
 - Identify potential scenarios to analyze in our annual studies or power plan
- All topics fit into this overall bucket of plan implementation

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	3. Track markets efforts, including day-ahead market offerings and transmission planning, to inform Council analysis	Ongoing - Quarterly Reports
4. Track local, state, and Federal policies that impact the energy system and provide periodic reports to Council on new developments.	Ongoing - Annual Report	

Other Activities



Demand Forecast Advisory Committee on July 14



Regional engagement on the multi-metric approach to adequacy



Reserves workshop planned for September/October



Power Committee panel in October on small and rural utility efficiency challenges



Questions