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January 3, 2024

MEMORANDUM

TO: Council Members

FROM: Jennifer Light, Director of Power Planning

SUBJECT: Committee Update and Planning: Mid-Term Assessment and Ninth Plan Timeline

BACKGROUND:

Presenter: Jennifer Light

Summary: The Power Committee will start with another Committee Update and Planning item. In addition to providing a general update, Jennifer will continue also to touch on the following topics: (1) A look at the proposed approach to the mid-term to seek Committee input and (2) Initial ideas to include in a public paper released in February 2024 seeking comments on areas of focus for the next power plan.

Committee Update and Planning

January 9, 2024

Topics for Today:

- January meeting topics connection to the work plan
- Preview of proposed new approach to the mid-term to seek committee head nod before finalizing it next month

January Meeting Topics

- This meeting includes a mix of implementation of the 2021 Power Plan and preparation for the next plan
 - Tracking IRPs
 - Tracking other efforts that intersect with our work
 - Updating our tools for the 9th plan

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	
	A.2. Conduct Periodic Studies on Regional Adequacy	
	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	

Preview of Proposed Mid-Term Assessment

Reminder of December Discussion

- Staff proposed:
 - Revamping mid-term assessment, moving away from a single report to a more dynamic report
 - Separately release a white paper for comment outlining initial thinking for the next power plan as a means of soliciting broad regional input at the start of that process
- Goals would continue to be for this to provide space for the Council to:
 - Assess implementation of the 2021 power plan resource development considering the changing system dynamics and provide insights on implications for the region; while also
 - Start on development of the next power plan
- Committee expressed support of this approach

2021 Power Plan Mid-Term Assessment

Summary

- Place where the Council would have an opportunity to provide direction to the region based on its current understanding of the changing system dynamics and the implementation of the plan
- Updated at least quarterly, with discussion of the Power Committee

Reminder of 2021 Power Plan Resource Strategy

- Provide a short summary, but mostly a place to link to the power plan materials
- Static

Annual Adequacy Assessment

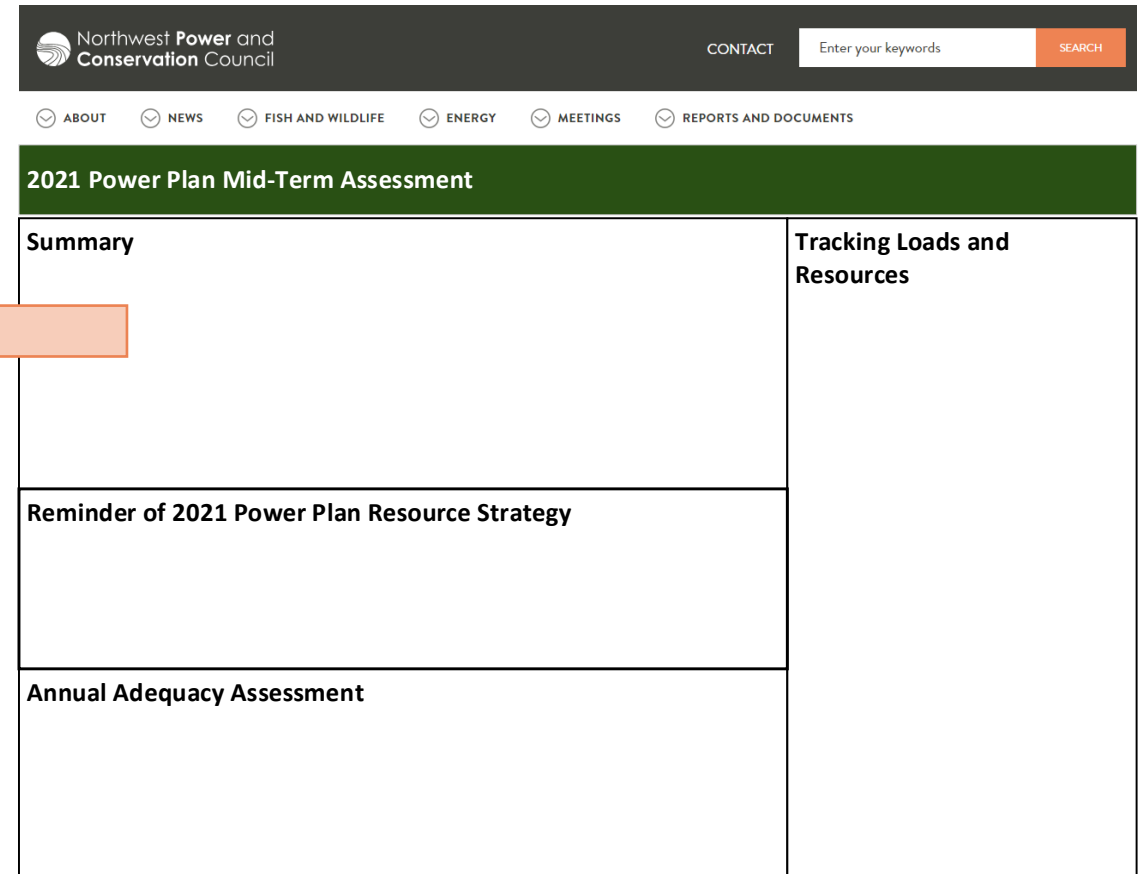
- Updated as materials are finalized and presented to the Power Committee/Council
- No new content, just a place to track and link to materials

Tracking Loads and Resources

- Track resource and load information
- Include icons for quick visual on:
 - Looking good
 - OK but warrant attention
 - Unknown and/or risk area
- Updated as materials are finalized and presented to the Power Committee/Council
- No new content, just a place to track and link to materials

Approach for the Summary

- Place for the Council to draw conclusions and make recommendations
- At least quarterly:
 - **Before meeting:** Staff will draft updated language to share with the Power Committee in advance of meeting
 - **At meeting:** Staff will present key messages for Power Committee to discuss, refine, and ultimately provide a head nod
 - **After meeting:** Staff will post updates, consistent with the Power Committee direction
- Updates can be more frequent, if new information warrants changes



2021 Power Plan Mid-Term Assessment	
Summary	Tracking Loads and Resources
Reminder of 2021 Power Plan Resource Strategy	
Annual Adequacy Assessment	

Live Preview

Discussion

- Is this consistent with what you were envisioning based on our last discussion?
- Does the approach for updating the summary seem sufficient?
- Are there pieces of information that are missing?



Questions

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