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March 2, 2021

MEMORANDUM

TO: Power Committee

FROM: Chad Madron

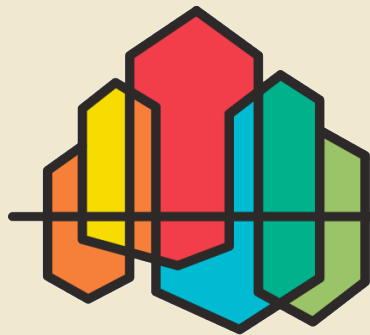
SUBJECT: Power Plan Project Timing Check-In

BACKGROUND:

Presenter: Ben Kujala, Chad Madron

Summary: Staff will provide an overview of power plan related presentations and findings to date and discuss the schedule for the coming months of power committee work.

2021 NW Power Plan Status



THE 2021
NORTHWEST
POWER PLAN

FOR A SECURE & AFFORDABLE
ENERGY FUTURE

Topics From Last 3 Months

- January 12
 - [Power Plan Timing Update](#)
 - [Overview of Hydrogen](#)
 - [Exports/Imports in RPM](#)
 - [Review of Baseline Conditions Modeling Results](#)
- January 28
 - [Update on Power Plan Needs Assessment \(Adequacy Reserve Margin\)](#)
 - [Baseline Conditions Modeling Results Update](#)
 - [Relative costs](#) of resources and update on Robustness of EE scenario approach
- February 9 + 10
 - [Robustness of EE Scenario Findings](#)
 - [State of Utilities Report](#) and Update on 2020 Loads and Covid Impacts
 - [Summary of Baseline Condition Modeling Results for Power Plan](#)
- Other past [Plan Related Presentations to the Power Committee or Full Council...](#)



Plan Related Topics This Month

Power Committee

- Update on Power Plan Needs Assessment (ASCC)
- Summary of System Integration Forum's exploration of energy equity in the 2021 Power Plan
- Rates and Bills Modeling and Regional Portfolio Model (RPM)
- Power Plan Timing Update

Full Council

- Robustness of EE Scenario Summary
- State of the Region's EE Programs: Successes and Challenges of Adapting to COVID

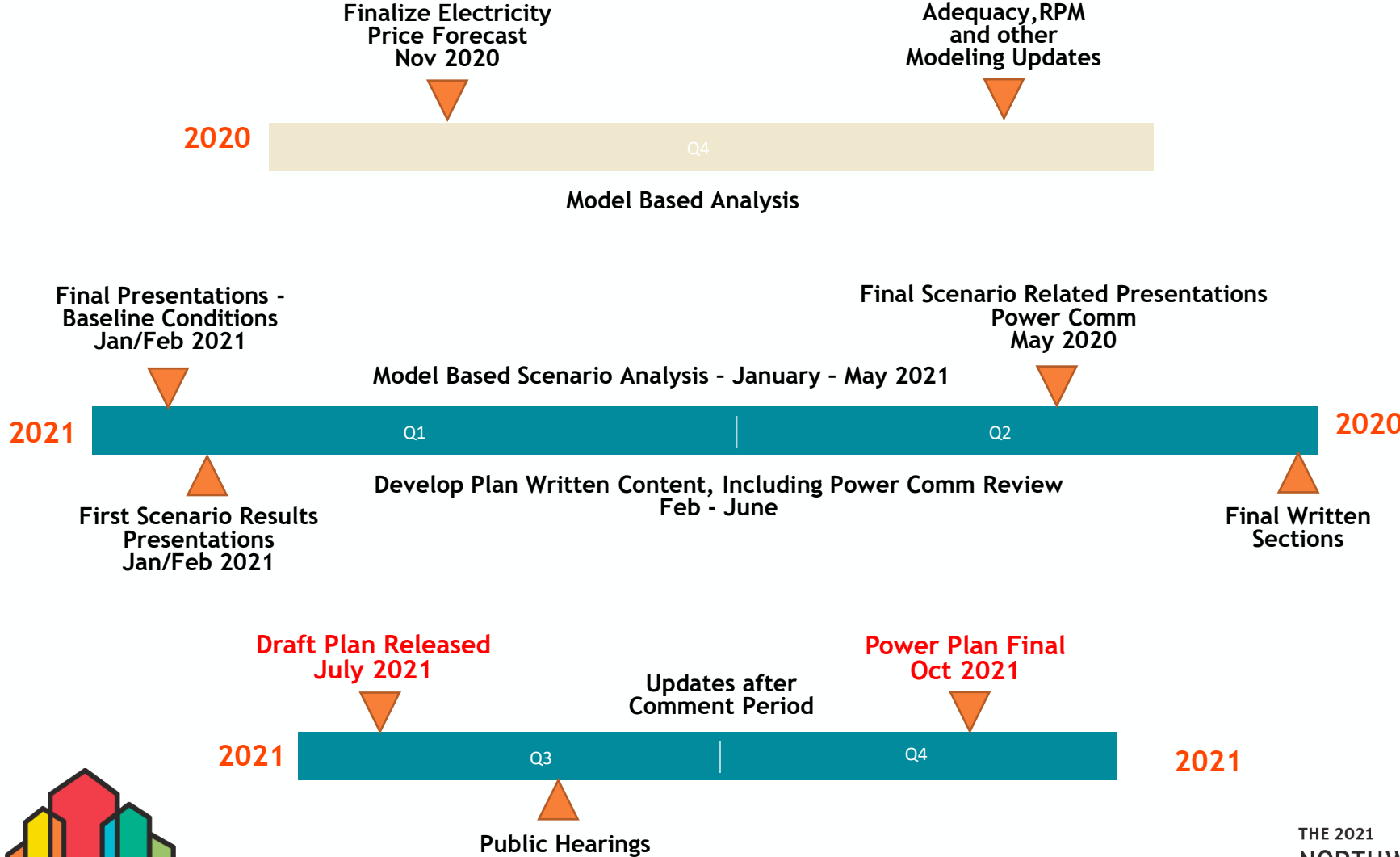




Proposed Schedule Updates

2021 Power Plan Work Schedule

Revised December 2020



March

- Update on Power Plan Needs Assessment (ASCC)
- Rates and Bills Modeling

Late March

- Early Coal Retirement
- Greenhouse Gas Tipping Point

April

- Extra Regional Markets and Adequacy
- Markets for Energy/Capacity
- Early look at BPA Scenario

Late April

- Bonneville Portfolio
 - Including related load, model runs, other findings

May

- Bonneville Portfolio
 - Including related load, model runs, other findings
- Overview of Pathways to Decarbonization Scenario

Late May

- Pathways to Decarbonization Scenario
- Written material for plan review



These dates will likely change

June

- Scenario discussion wrap up
- Written material for plan review

Late June

- Written material for plan review

July

- Written material for plan review
- Release of Draft Plan

August

- Public Comment
- Planning for public hearings

August/September

- Public Hearings
- Plan updates between draft and final

October


- Release final plan



These dates will likely change

A photograph of a mountainous landscape shrouded in mist. In the foreground, a dark lake is visible. The mountains are covered in green and brown vegetation. A white, geometric, multi-sided shape is overlaid on the right side of the image, resembling a stylized house or a modern architectural element. The word "Questions?" is written in a large, black, sans-serif font on the left side of the image.

Questions?



**Extra Slides for
Reference**

Plan Related Presentations to the Power Committee or Full Council

- Scenario Analysis
 - [Summary](#) of Baseline Condition Modeling Results for Power Plan (02/2021)
 - [Robustness of EE Scenario Findings](#) (02/2021)
 - [Relative costs](#) of resources and update on Robustness of EE scenario approach (01/28/2020)
 - BPA scenario [update](#) (06/2020)
 - [Review](#) of Plan Scenarios – Part 1 (01/2020) & Part 2 (02/2020)
 - Scenarios proposed for [inclusion](#) (07/2019)
- Resource Strategy
 - [Update](#) on Power Plan Needs Assessment (Adequacy Reserve Margin) (01/28/2020)
 - Baseline Conditions Modeling [Results Update](#) (01/28/2020)
 - [Exports/Imports in RPM](#) (01/2021)
 - [Review](#) of Baseline Conditions Modeling Results (01/2021)
 - [First look](#) at Baseline Conditions RPM Results (12/15/2020)
 - [Adequacy results](#) from Redeveloped GENESYS (12/15/2020)
 - [Overview](#) of updates to Regional Portfolio Model (12/15/2020)



Plan Related Presentations to the Power Committee or Full Council

- Resource Strategy Continued
 - [First look](#) at redeveloped GENESYS result (12/03/2020)
 - Wholesale Electricity Price Forecast [Update](#) (11/2020)
 - Electricity Price Forecast [Updates](#) (10/2020)
 - Wholesale Electricity Forecast [Results](#) Part 2 (09/2020)
 - Challenges with RPM [Methodology](#) (09/2020)
 - Adequacy [Update](#) (ASCC/ARM) for 2021 Power Plan Part 2
 - Electricity Price [Forecast](#) Part 1 (08/2020)
 - Adequacy [Update](#) (ASCC/ARM) for 2021 Power Plan Part 1 (08/2020)
 - Briefings on Power Plan Analytical Process (02 - 04/2020)
 - [Updates](#) to RPM Methodologies (01/2020)
 - [Overview](#) of Plan and how the proposed resource strategy is developed (05/2019)



Plan Related Presentations to the Power Committee or Full Council

- Conservation and Energy Efficiency
 - [Comments](#) on Draft Framework for Conservation Program (10/2020)
 - [Initial Conservation Target Framework](#) (08/2020)
 - [EE Supply Curves](#) for Baseline and for Scenario Analysis (05/2020)
 - EE Typical [Meteorological Year Adjustment](#) (04/2020)
 - Draft EE Supply Curves (03/2020)
 - [Briefing](#) on Lighting Standards and Considerations for the 2021 Power Plan (02/2020)
 - [Update](#) on planning parameters for EE supply curves (08/2019)
- Generation Resources
 - [Update](#) on WECC-Wide Clean Policy Wrap Up (08/2020)
 - [Summary](#) of primary generating resource reference plants and emerging tech reference plant for draft 2021 Power Plan (06/2020)
 - [Update](#) on Existing System, Coal Retirements, and Policies (05/2020)
 - [Update](#) on historical regional greenhouse gas emissions (04/2020)
 - [Draft natural gas reference plants](#) & [Draft conventional geothermal reference plant](#) (02/2020)
 - [Draft Pumped storage reference plant](#) (12/2019)
 - [Onshore Wind Generation Reference Plant](#) (11/2019)
 - Solar, Battery Storage, and Solar + Battery Storage [Reference Plants](#) (10/2019)
 - [Review](#) of Existing System and WECC-Wide Coal Retirements (09/2019)



Plan Related Presentations to the Power Committee or Full Council

- Load and Price Forecasts
 - Load Forecast [Updates](#) (08/2020)
 - [Briefing](#) on upstream methane in Power Plan (06/2020)
 - [BPA Load forecast](#) (04/2020)
 - [Out-of-region load forecast and California climate-inclusive load forecast](#) (04/2020)
 - [Updates](#) to load and other forecasts based on GCM Selection (02/2020)
 - Further Detail on [Load Forecast](#) (10/2019)
 - [Forecast](#) of Draft Loads w/Frozen Efficiency for 2021 Power Plan/Related GCMs, (09/2019)
 - [Economic drivers](#) for the plan (04/2019)
 - [Upstream Methane](#) (01/2020)
 - [Update](#) on Wholesale Electricity Price Forecast and Avoided Emissions Rate (11/2019)
 - Natural Gas Price [Forecast](#) for 2021 Power Plan (11/2019)
- Climate Change
 - [Update](#) on Climate Scenario Selection (04/2020)
 - [General Circulation Model](#) Scenario Selection (11/2019)
 - Intro to [Climate change](#) and the 2021 power plan (04/2019)



Plan Related Presentations to the Power Committee or Full Council

PLUS:

- [State of Utilities Report](#) and Update on 2020 Loads and Covid Impacts (02/2021)
- [Overview](#) of Hydrogen (01/2021)
- [State of Electric Utilities 2019](#) (12/2020)
- [DEI at Advisory Committees](#) - key takeaways (12/2020)
- [Results](#) from stakeholder survey on use of previous power plan content (08/2020)
- [Development](#) of technical written material for the Power Plan (07/2020)
- [Stakeholder survey](#) regarding use of previous plan's written content and supporting materials (07/2020)
- [Update](#) on New Version of GENESYS (05/2020)
- Draft DR Supply Curves (03/2020)
- Review State Clean Energy Policies and Impact on 2021 Plan Analysis
- [Briefing](#) on methodology for quantifying the environmental costs and benefits of new resources for the 2021 Power Plan (09/2019)
- [Environmental Methodology](#) Development Primer (8/2019)
- Establishing global financial and economic [assumptions](#) for the 2021 Power Plan (07/2019)
- [Establish existing system parameters and interpret state policies](#) (07/2019)
- [Consistent Treatment](#) of Quantifiable Resource Costs (03/2019)
- [Proposed discount rate](#) for the 2021 Power Plan (02/2019)

