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January 7, 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

- November
 - Wholesale Electricity Price Forecast [Update](#)
- December 3
 - [First look](#) at redeveloped GENESYS result
- December 15
 - Power Plan timing [overview](#) - Including new proposed draft release date
 - [State of Electric Utilities 2019](#)
 - [DEI at Advisory Committees](#) - key takeaways
 - [Overview](#) of updates to Regional Portfolio Model
 - [First look](#) at Baseline Conditions RPM Results
 - [Adequacy results](#) from Redeveloped GENESYS
- Other past [Plan Related Presentations to the Power Committee or Full Council...](#)



This Month

- Power Plan Timing Update
- Overview of Hydrogen
- Exports/Imports in RPM
- Review of Baseline Conditions Modeling Results
- Update on Power Plan needs assessment (ARM)

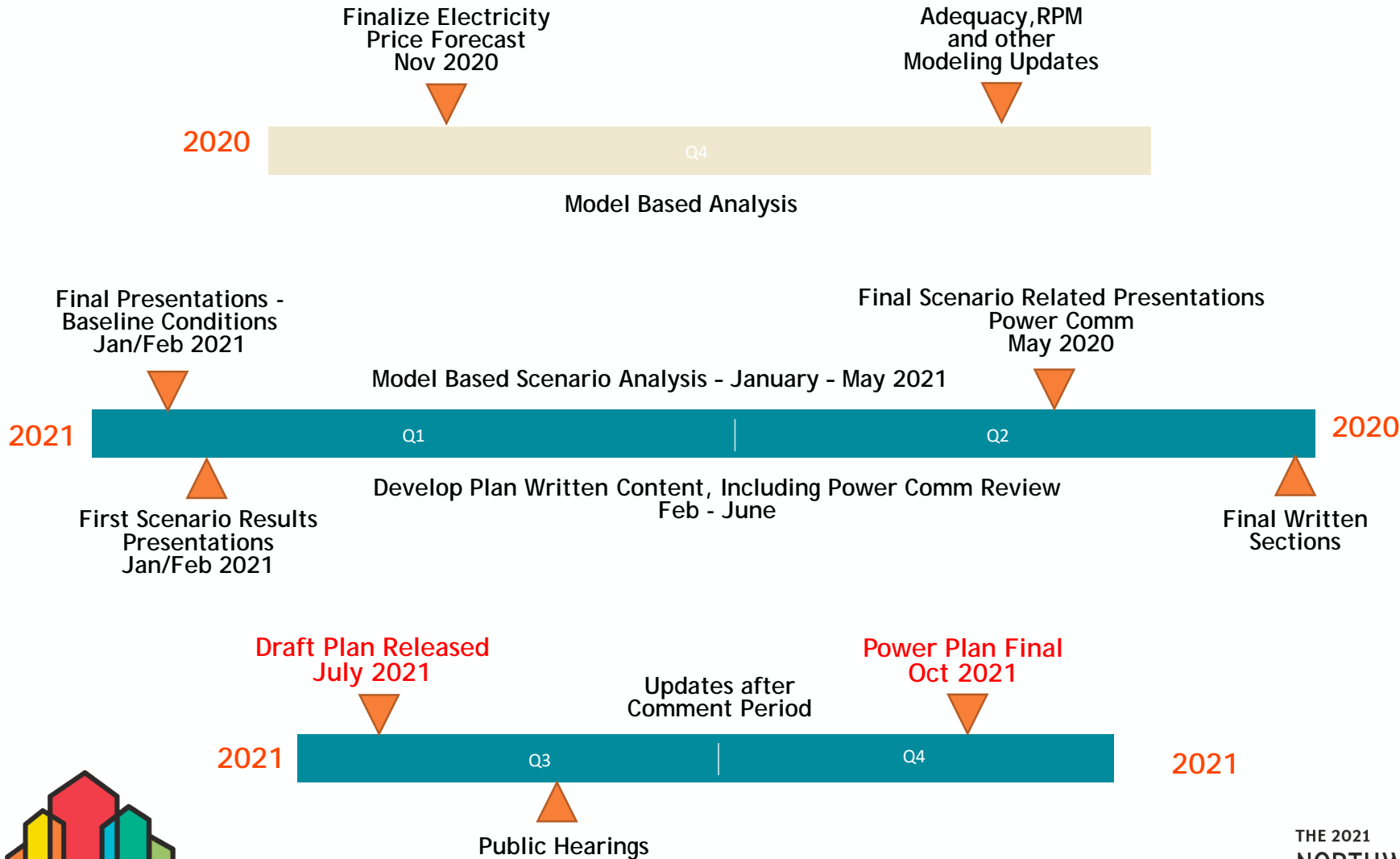




Proposed Schedule Updates

2021 Power Plan Work Schedule

Revised December 2020



Late January

- Baseline Conditions (if needed)
- Robustness of EE
- Update on Power Plan needs assessment
- Relative Costs of Resources

February

- Modeling findings and updates as needed

Late February

- Early Coal Retirement

March

- Extra Regional Markets and Adequacy
- Markets for Energy/Capacity

Late March

- Greenhouse Gas Tipping Point

April

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



These dates will likely change

Late April

- Bonneville Portfolio
 - Including related load, model runs, other findings
- Pathways to Decarbonization inputs

May

- Bonneville wrap up if needed
- Pathways to Decarbonization
- Early written material review

Late May

- Pathways to Decarbonization wrap up
- Written material for plan review

June

- Written material for plan review

Late June

- Written material for plan review

July


- Written material for plan review
- Release of Draft Plan



These dates will likely change

A photograph of a mountainous landscape shrouded in mist. In the foreground, a calm lake reflects the surrounding environment. The mountains in the background are partially obscured by thick white fog. A white, stylized geometric frame, resembling a house or a window, is overlaid on the right side of the image. 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
 - 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
 - [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)
 - [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:

- 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)

