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December 8, 2020

MEMORANDUM

TO: Council Members

FROM: Ben Kujala, 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.

This presentation will include new proposed timing for the release of the draft plan.

2021 NW Power Plan Status



THE 2021
NORTHWEST
POWER PLAN

FOR A SECURE & AFFORDABLE
ENERGY FUTURE

Topics From Last 3 Months

- September
 - Adequacy [Update](#) (ASCC/ARM) for 2021 Power Plan Part 2
 - Wholesale Electricity Forecast [Results](#) Part 2
 - Challenges with RPM [Methodology](#)
- October
 - Electricity Price Forecast [Updates](#)
 - [Comments](#) on Draft Framework for Conservation Program
- November
 - Wholesale Electricity Price Forecast [Update](#)
- December 3
 - [First look](#) at redeveloped GENESYS result
- Other past [Plan Related Presentations to the Power Committee or Full Council...](#)



This Month

- **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**

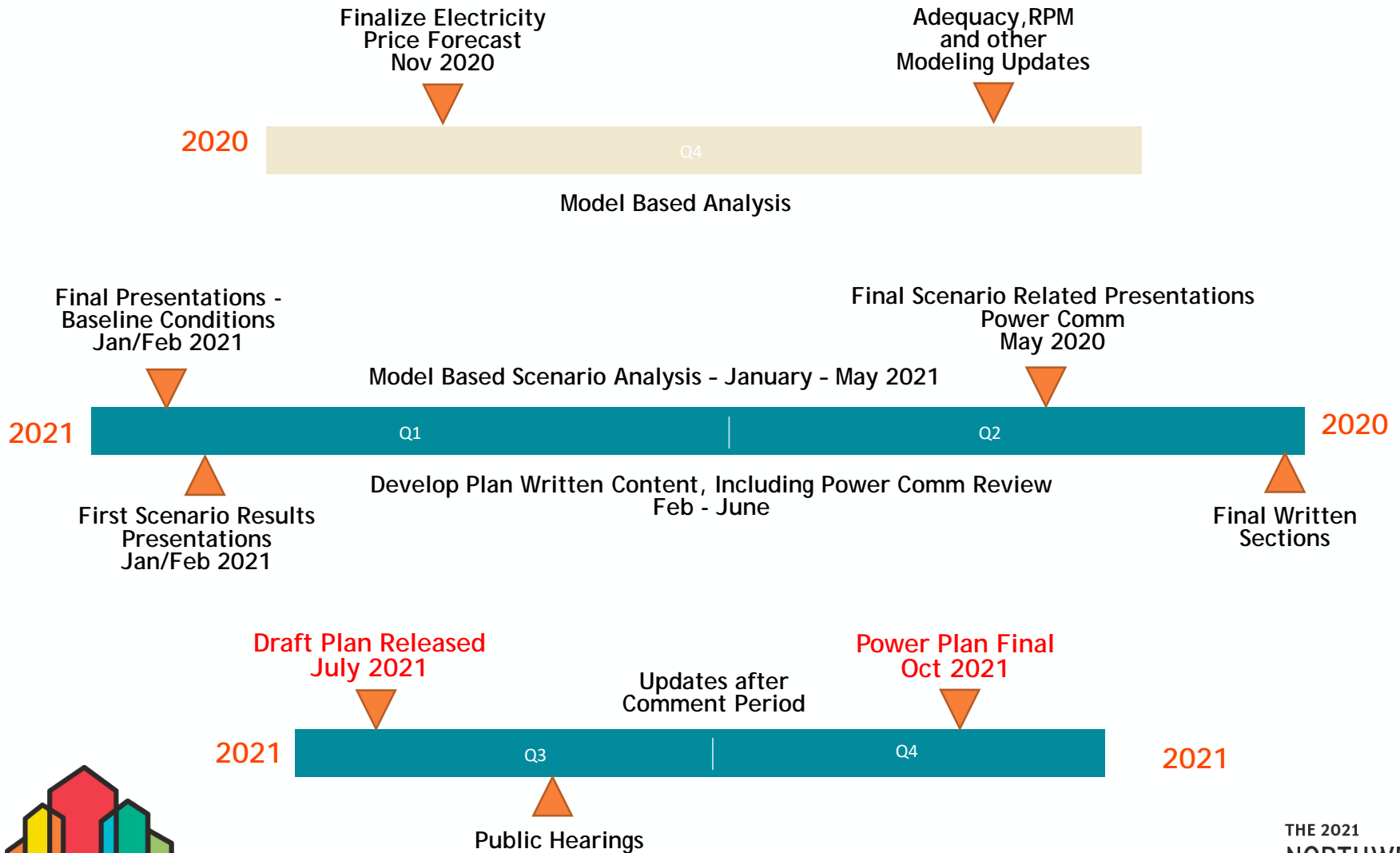




Proposed Schedule Updates

Revised 2021 Power Plan Work Schedule

December 2020



January

- Baseline Conditions Runs
- Robustness of EE
- System Adequacy

February

- Baseline Conditions (if needed)
- Other Modeling updates
- Coal Retirement Scenario

March

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

April

- Bonneville Portfolio
- Greenhouse Gas Tipping Point
- Pathways to Decarbonization
- Early written material review

May

- Bonneville Portfolio
- Pathways Continued
- Scenario findings summary
- Written material for plan review

June


- Written material for plan review

Each Month Includes Two Power Committee Meetings



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 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)

