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# Northwest **Power** and **Conservation** Council

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June 9, 2020

## **MEMORANDUM**

**TO: Council Members**

**FROM: Ben Kujala, Chad Madron**


**SUBJECT: Power Plan Project Timing Check-In**

### **BACKGROUND:**

**Presenter:** Ben Kujala, Chad Madron

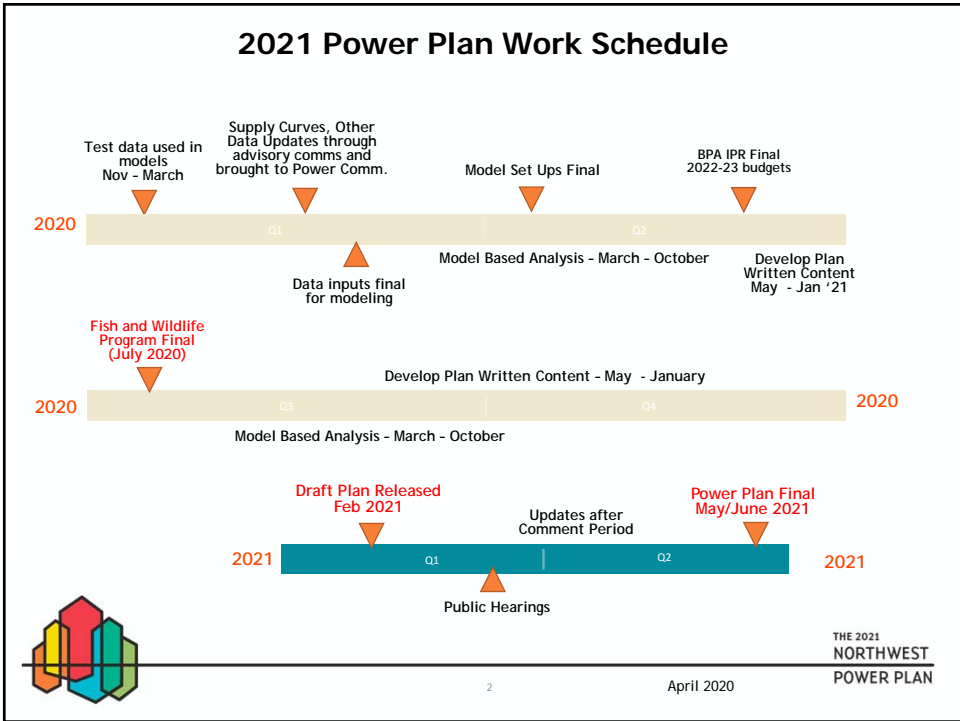
**Summary:** Staff will provide an overview of power plan related presentations and findings to date and discuss schedule for the next six months of power committee work.

# 2021 NW Power Plan Status



THE 2021  
NORTHWEST  
POWER PLAN  
FOR A SECURE & AFFORDABLE  
ENERGY FUTURE

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## Plan Related Presentations to the Power Committee or Full Council

- Scenario Analysis
  - Review of Plan Scenarios – Part 1 (01/2020) & Part 2 (02/2020)
  - Scenarios proposed for inclusion (07/2019)
- Resource Strategy
  - 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)



THE 2021  
NORTHWEST  
POWER PLAN

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## Plan Related Presentations to the Power Committee or Full Council

- Conservation and Energy Efficiency
  - EE Supply Curves for Baseline and for Scenario Analysis (06/2020)
  - 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 Existing System, Coal Retirements, and Policies (06/2020)
  - 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)



THE 2021  
NORTHWEST  
POWER PLAN

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# Plan Related Presentations to the Power Committee or Full Council

- Load and Price Forecasts
  - [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:

- [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)



# This Month

- **BPA Scenario Update (60 min)**
  - Scenario Overview, BK
  - BPA EE Supply Curves, EE Team
  - BPA DR Supply Curves, TJ, JO
- **Summary of primary generating resource reference plants and emerging tech reference plant for draft 2021 Power Plan**



July	August	September
<ul style="list-style-type: none"><li>• System Adequacy (ASCC/ARM)</li><li>• Electricity Price Forecast</li></ul>	<ul style="list-style-type: none"><li>• Baseline Conditions Test Runs</li><li>• Early Coal Retirement Scenario</li></ul>	<ul style="list-style-type: none"><li>• EE Robustness</li><li>• Extra Regional Markets and Adequacy</li><li>• Markets for Energy/Capacity</li></ul>
October	November	December
<ul style="list-style-type: none"><li>• Greenhouse Gas Tipping Point</li><li>• Bonneville Portfolio</li></ul>	<ul style="list-style-type: none"><li>• Pathways to Decarbonization</li><li>• Bonneville Portfolio Continued</li><li>• Early written material review</li></ul>	<ul style="list-style-type: none"><li>• Scenario findings summary</li><li>• Written material for plan review</li></ul>

