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May 5, 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

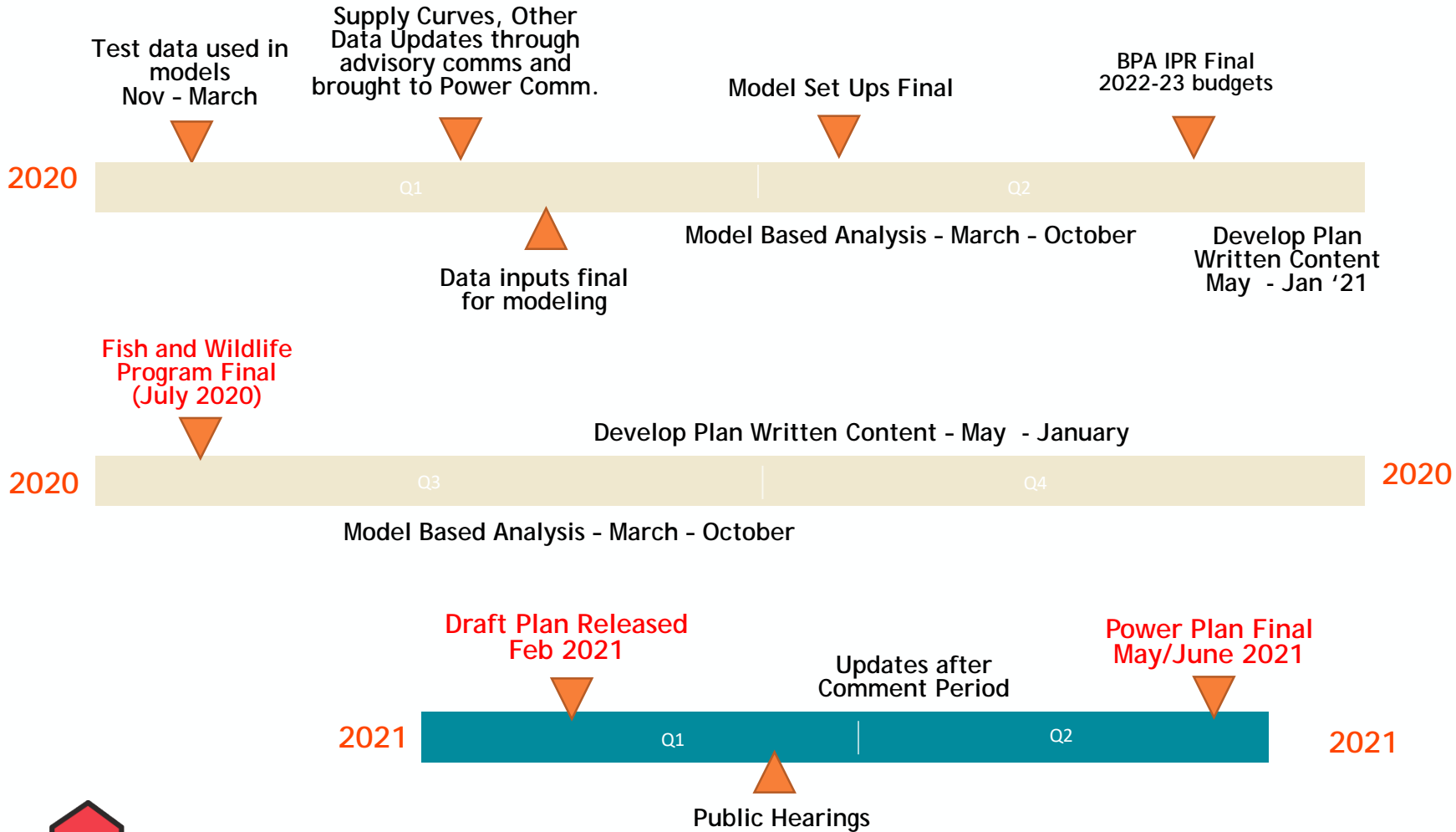


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THE 2021  
NORTHWEST  
POWER PLAN

FOR A SECURE & AFFORDABLE  
ENERGY FUTURE

# 2021 Power Plan Work Schedule



# 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)
- Conservation and Energy Efficiency
  - 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 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
  - 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:

- 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

- Update on New Version of GENESYS
- Update on Existing System, Coal Retirements, and Policies
- EE Supply Curves for Baseline and for Scenario Analysis
- Impact of Covid-19 on the Power System



## June

- Generation Resources Summary Presentation
- Emerging Tech Reference Plant for Scenario Analysis
- BPA Scenario Supply Curves

## July

- System Adequacy (ASCC/ARM)
- Electricity Price Forecast

## August

- Baseline Conditions Test Runs
- Early Coal Retirement Scenario

## September

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

## October

- Greenhouse Gas Tipping Point
- Bonneville Portfolio

## November

- Pathways to Decarbonization
- Bonneville Portfolio Continued

