

Richard Devlin
Chair
Oregon

Ted Ferrioli
Oregon

Guy Norman
Washington

Patrick Oshie
Washington



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

Bo Downen
Vice Chair
Montana

Jennifer Anders
Montana

Jim Yost
Idaho

Jeffery C. Allen
Idaho

September 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 the schedule for the coming months of power committee work.

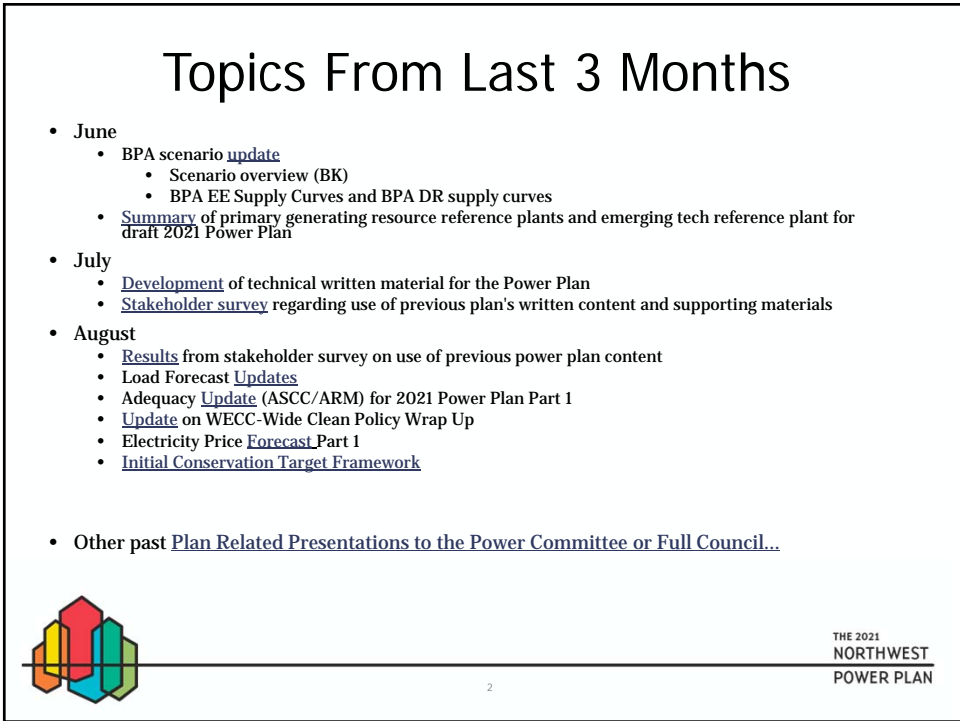


2021 NW Power Plan Status




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

1



Topics From Last 3 Months

- June
 - [BPA scenario update](#)
 - Scenario overview (BK)
 - BPA EE Supply Curves and BPA DR supply curves
 - [Summary](#) of primary generating resource reference plants and emerging tech reference plant for draft 2021 Power Plan
- July
 - [Development](#) of technical written material for the Power Plan
 - [Stakeholder survey](#) regarding use of previous plan's written content and supporting materials
- August
 - [Results](#) from stakeholder survey on use of previous power plan content
 - Load Forecast [Updates](#)
 - Adequacy [Update](#) (ASCC/ARM) for 2021 Power Plan Part 1
 - [Update](#) on WECC-Wide Clean Policy Wrap Up
 - Electricity Price [Forecast Part 1](#)
 - [Initial Conservation Target Framework](#)
- Other past [Plan Related Presentations to the Power Committee or Full Council...](#)



THE 2021
NORTHWEST
POWER PLAN

2

This Month

- Adequacy Update (ASCC/ARM) for 2021 Power Plan Part 2
- Wholesale Electricity Forecast Results Part 2
- Challenges with RPM Methodology

- Additional Power Comm Scheduled for 10/1/2020



3

RPM Challenges and the Schedule

- Needed adjustments to RPM will impact our schedule.
- Will discuss these challenges later in today's agenda



4



5



6

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
 - 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)



THE 2021
NORTHWEST
POWER PLAN

7

7

Plan Related Presentations to the Power Committee or Full Council

- Conservation and Energy Efficiency
 - [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)



THE 2021
NORTHWEST
POWER PLAN

8

8

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)



THE 2021
NORTHWEST
POWER PLAN

9

9

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)



THE 2021
NORTHWEST
POWER PLAN

10

10