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April 7, 2020

MEMORANDUM

TO: Council Members

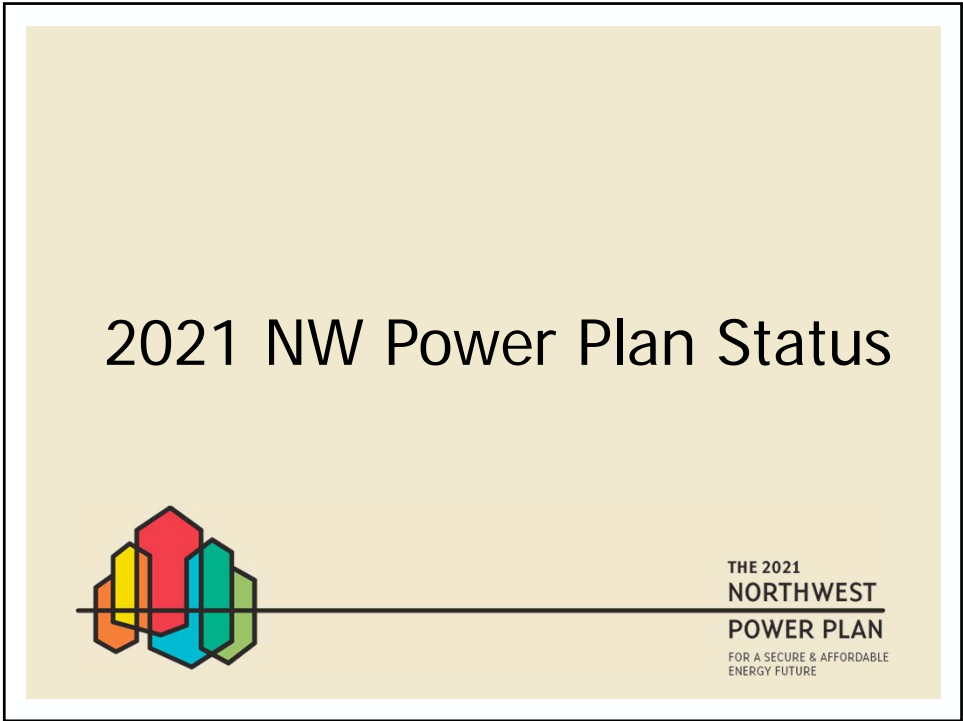
FROM: Ben Kujala, Chad Madron

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.

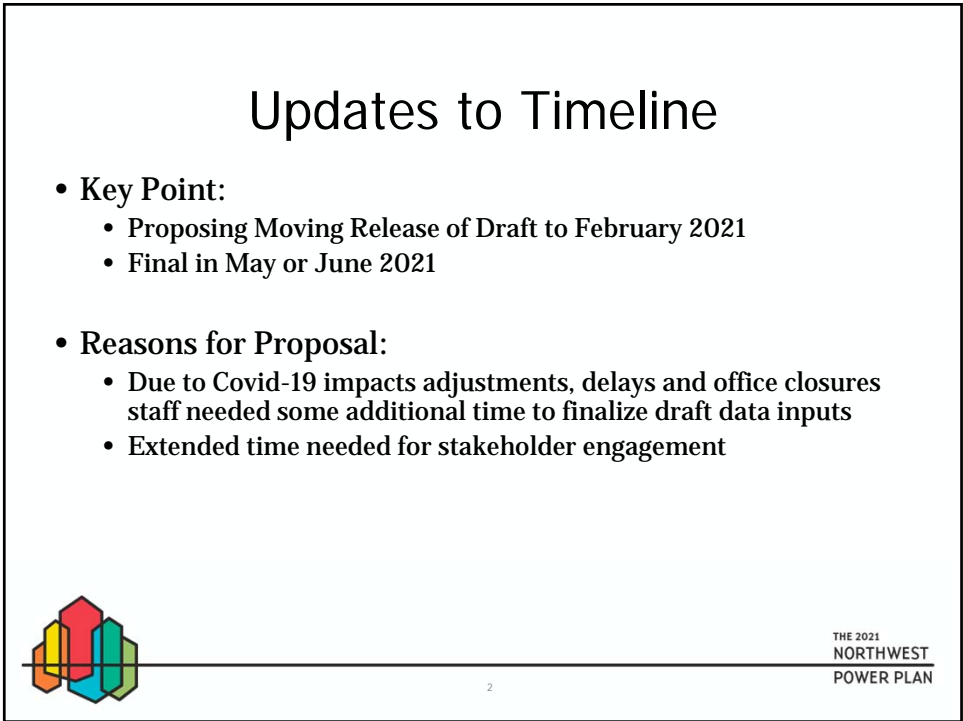


2021 NW Power Plan Status




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

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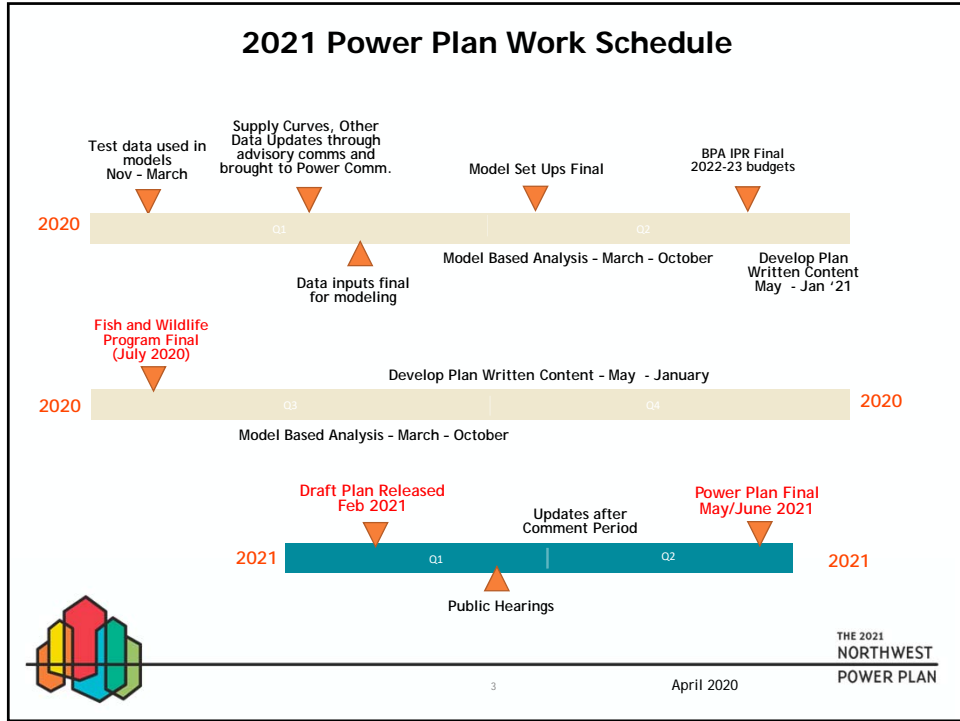
Updates to Timeline

- **Key Point:**
 - Proposing Moving Release of Draft to February 2021
 - Final in May or June 2021
- **Reasons for Proposal:**
 - Due to Covid-19 impacts adjustments, delays and office closures staff needed some additional time to finalize draft data inputs
 - Extended time needed for stakeholder engagement



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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 & 03/2020)
 - Updates to RPM Methodologies (01/2020)
 - Overview of Plan and how the proposed resource strategy is developed (05/2019)
- Conservation and Energy Efficiency
 - Briefing on Lighting Standards and Considerations for the 2021 Power Plan (02/2020)
 - Update on planning parameters for EE supply curves (08/2019)
 - Draft EE Supply Curves (03/2020)
- Generation Resources
 - 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)

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Plan Related Presentations to the Power Committee or Full Council

- Load and Price Forecasts
 - 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
 - General Circulation Model Scenario Selection (11/2019)
 - Intro to Climate change and the 2021 power plan (04/2019)



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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)




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This Month

- Update on Climate Scenario Selection
- EE Typical Meteorological Year Adjustment
- Out of Region Load Forecast and CA Climate
- Inclusive Load Forecast
- BPA Load Forecast




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May	June	July
<ul style="list-style-type: none">• Generation Resources Summary Presentation• Emerging Tech Reference Plant for Scenario Analysis• Updates to Supply Curves for Scenario Analysis	<ul style="list-style-type: none">• BPA Scenario Supply Curves	<ul style="list-style-type: none">• System Adequacy (ASCC/ARM)• Electricity Price Forecast
August	September	October
<ul style="list-style-type: none">• Baseline Conditions Test Runs• Early Coal Retirement Scenario	<ul style="list-style-type: none">• EE Robustness• Extra Regional Markets and Adequacy• Markets for Energy/Capacity	<ul style="list-style-type: none">• Greenhouse Gas Tipping Point• Bonneville Portfolio



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