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

2021 Power Plan Work Schedule

- **Fish and Wildlife Program Final (July 2020)**
- **Model Sets Final**
- **Model Based Analysis - March - October**
- **Develop Plan Written Content - May - January**
- **Draft Plan Released Feb 2021**
- **Updates after Comment Period**
- **Public Hearings**
- **Power Plan Final May/June 2021**

**Key Dates:**
- **February 2021:** Draft Plan Released
- **March - October 2021:** Model Based Analysis
- **May - January 2022:** Develop Plan Written Content
- **February 2021:** Updates after Comment Period
- **May/June 2021:** Power Plan Final
- **March - October 2020:** Model Based Analysis
- **January 2021:** Test data used in models, Nov - March
- **June 2021:** Supply Curves, Other Data Updates through advisory comms and brought to Power Comm.
- **April 2022:** BPA IPR Final 2022-23 budgets
### Plan Related Presentations to the Power Committee or Full Council

**Scenario Analysis**
- 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)

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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)
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)

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
- 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
- Early written material review

December
- Scenario findings summary
- Written material for plan review