

**Jennifer Anders**  
Chair  
Montana

**Bo Downen**  
Montana

**Guy Norman**  
Washington

**Patrick Oshie**  
Washington



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

January 7, 2020

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Vice Chair  
Oregon

**Ted Ferrioli**  
Oregon

**Jim Yost**  
Idaho

**Jeffery C. Allen**  
Idaho

## **MEMORANDUM**

**TO: Power Committee**

**FROM: Chad Madron and Ben Kujala**

**SUBJECT: Timeline and Project Update for Power Plan**

### **BACKGROUND:**

**Presenter:** Chad Madron

**Summary:** Staff will discuss where we are in the current timeline for development of the 2021 Power Plan and present the Power Division work plan for 2020.

# Power Division Work Plan

2020

Updated January 2020

1. Guide affordable, adequate, clean energy future, develop the 2021 Northwest Power Plan and maintain analytical capability

Action	Work Area	Timeframe (Calendar Year)
A. Develop the 2021 Power Plan	<b>A.1. Power Planning - All Teams</b>	
	1. Develop and analyze scenarios for the Power Plan	2020
	2. Draft written material for the Power Plan	2020
	<b>A.2. Conservation</b>	
	1. Develop cost and availability of energy efficiency as a resource, to be used in the 2021 Power Plan (EE supply curves)	Final in March 2020
	2. Develop MCS and surcharge methodology	November 2020
	3. Develop methodology for identifying cost-effective EE measures	November 2020
	<b>A.3. Demand Response</b>	
	1. Develop cost and availability of demand response to be used in the 2021 Power Plan	Final in March 2020
	<b>A.4. Forecasting and Economic Analysis</b>	
	1. Update forecasts accounting for GCM selection	February 2020
	2. Outside the region load forecast	April 2020
	3. Forecast electricity sales	November 2020
	<b>A.5. Generation Resources</b>	
	1. Develop Generating Resource reference plants for 2021 power plan (incl. review w. GRAC)	Final in March 2020
	2. Develop environmental methodology, existing system, transmission availability, RPS, emissions and other data sets for the 2021 Plan.	Final in March 2020
	<b>A.6. System Analysis</b>	
	1. Complete Testing of Redeveloped GENESYS	Early 2020
	2. Existing System Adequacy Requirements (ARM/ASCC)	February 2020
	3. Forecast wholesale electricity prices	April 2020
	4. Finalize models for use in the plan after testing	April 2020
	5. Model based analysis	March - July 2020
	6. Develop cost effective methods for providing reserves	November 2020

# Power Division Work Plan

2020

Updated January 2020

<b>B. Ongoing work separate from Power Plan</b>	<b>B.1. Conservation</b>	
	1. Coordinate with regional entities (e.g. NEEA, BPA, utilities, regulators) to ensure the regional goal for cost-effective conservation is achieved. Cuts across a number of Action Items, ongoing priority	RCP Results reported annually.
	2. Work with regional entities to ensure the model conservation standards are implemented, Cuts across MCS Action Items, ongoing priority	
	3. Continue to lead the Regional Technical Forum and engage in the development and approval of measure savings estimates and protocols	Budget/Workplan Approval in October of each year, RCP results annually, Annual Report in June of each year
	4. Enhance the understanding and use of capacity impacts from conservation. Cuts across a number of Action Items, includes tracking Utility IRPs, BPA EE Planning, is an ongoing priority	Part of RCP Results reported annually and ongoing tracking of IRPs
	5. Ongoing priorities like tracking emerging technology, working with end use load projects, etc..	
	<b>B.2. Demand Response</b>	
	1. Convene advisory committee to explore barriers and strategies to demand response development	DRAC meetings held quarterly
	2. Coordinate with regional utilities and Bonneville to ensure demand response costs, capabilities, and potential are included in planning documents.	Ongoing
	<b>B.3. Forecasting and Economic Analysis</b>	
	1. Continued monitoring of regional sales, loads and temperatures	Ongoing
	2. Continued monitoring of economic picture of the region	Ongoing
	3. Continued enhancement of Council's economic and forecasting models for loads, sales and fuel prices.	Ongoing
	4. Continued monitoring of natural gas and oil situation in the region, national and international markets.	Ongoing
	5. Fuel-cycle emission modeling for natural gas and coal	Ongoing

# Power Division Work Plan

2020

Updated January 2020

	<b>B.4. Generation Resources</b>	
	1. Enhance Council's resource revenue requirements finance model – MicroFin	Ongoing
	2. Track/update generating resource datasets - new/existing projects, generation, RPS, environmental legislation, transmission, emissions, etc.	Ongoing
	3. Track regional and WECC-wide integrated resource plans	Ongoing
	<b>B.5. System Analysis</b>	
	1. Complete Annual Adequacy Assessments - Ongoing, Implementation	Annually
	2. Complete Wholesale Electricity Price and Avoided Emissions Rate study	Annually

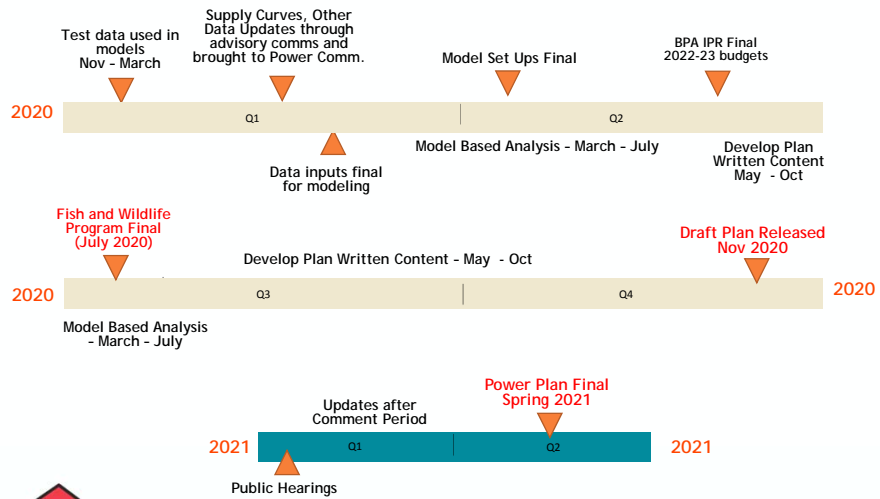
# Power Plan Development Process and Schedule

January 2020



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

## 2021 Power Plan Work Schedule



THE 2021  
NORTHWEST  
POWER PLAN

# Advisory Committees

Topics  
early in 2020

- Final DR/EE supply curves
- Generation Resources reference plants
- Finalizing system model decisions
- Updates to forecasts from GCM selection
- System Integration Forum:  
Power Plan Scenarios – March 10



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## 2021 Power Plan High Level Work Timeline

Tasks	Timing
Test set of data for use in testing models complete	November 2019
Models tested	November 2019 - March 2020
<b>Supply Curves/Gen Resources for plan through Advisory comm process</b>	<b>January/February 2020</b>
Generation Resources Data Ready for ASCC/System Analysis Work	January 2020
All data inputs for models final	Late March 2020
Finalize model set ups related to analysis priorities	November 2019 - March 2020
<b>All models final and locked for use for runs for Plan</b>	<b>April 2020</b>
Model based analysis	March - July 2020
Develop and present draft plan findings	April - Sept 2020



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## 2021 Power Plan High Level Work Timeline Part 3

Tasks	Timing
Write early sections of plan	May - July 2020
Update technical material posted online as available	Ongoing (replaces appendices)
Write final sections	June - September 2020
Draft plan presented to Council	October 2020 (final edits from Members received ahead of Nov meeting)
Council releases Draft Plan for public comment	November 2020
Public Hearings	January - February 2021
Council Approves Final Plan	April 2021



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