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# Northwest Power and Conservation Council

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April 2, 2019

## MEMORANDUM

**TO: Council Members**

**FROM: Chad Madron**

**SUBJECT: High Level Update on Power Division Work Plan**

### **BACKGROUND:**

**Presenter:** Chad Madron, Project Analyst

**Summary** This presentation is an update on Power Division 2019 work plan priorities. This update is intended to be a high-level sampling of key projects and is not comprehensive.

Work on the 2021 Power Plan has begun in earnest in 2019 and we have split the tasks into those related directly to power plan development and those that are ongoing or project related.

Staff will review the high-level list, revisit the overall power plan schedule and give an example of the more detailed project plans staff uses to guide their internal processes.

**Relevance** The Power Division maintains work and project plan documentation tracking what division staff is doing to develop the next power plan, implement the Seventh Plan, manage ongoing tasks and upgrade analytical capabilities. This documentation is an important part of division collaboration, teamwork and communication.

# Power Division Work Plan

2019

Updated April 2019

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. Conservation</b>	
	1. Develop cost and availability of energy efficiency as a resource, to be used in the 2021 Power Plan (EE supply curves)	Iterated in 2019, final in March 2020
	2. Review methodologies and other information with CRAC - equipment stock turnover, T+D deferral, etc...	Throughout 2019
	<b>A.2. Demand Response</b>	
	1. Develop cost and availability of demand response to be used in the 2021 Power Plan (DR supply curves)	Iterated in 2019, final in March 2020
	2. Review methodologies and other information with DRAC	Throughout 2019
	<b>A.3. Forecasting and Economic Analysis</b>	
	1. Develop Base Load Forecast: Price Effects & Frozen Efficiency Forecast for 2021 Power Plan	2019
	2. Work on transportation and end use gas components of 2021 power plan	2019
	3. Produce Natural Gas Price Forecast for 2021 Plan	2019
	4. Enhance long term forecast model with solar plus battery	2019
	5. Review methodologies and other information with DFAC/NGAC	Throughout 2019

# Power Division Work Plan

2019

Updated April 2019

	<b>A.4. Generation Resources</b>	
	1. Develop Generating Resource reference plants for 2021 power plan (incl. review w. GRAC)	Iterated in 2019, final in March 2020
	2. Develop environmental methodology, transmission availability, RPS, emissions and other data sets for the 2021 Plan.	Throughout 2019, 2020
	<b>A.5. System Analysis</b>	
	1. Complete Testing of Redeveloped GENESYS	2019
	2. Updates to models to get ready for 2021 power plan modeling	2019
	4. Run models using test data sets	Late 2019/early 2020
	3. Review methodologies and other information with SAAC	Throughout 2019
	<b>A.6. Additional Items</b>	
	1. Plan related external communication and coordination with outside stakeholders	Ongoing through Plan process

# Power Division Work Plan

2019

Updated April 2019

B. Ongoing work separate from Power Plan	<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

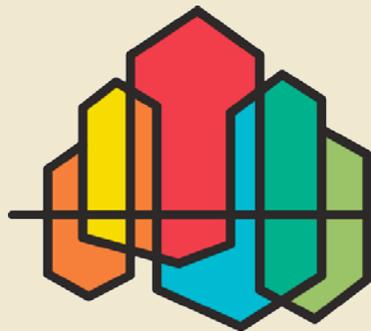
# Power Division Work Plan

2019

Updated April 2019

	<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

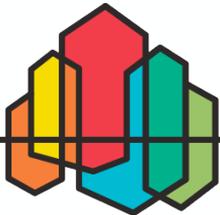
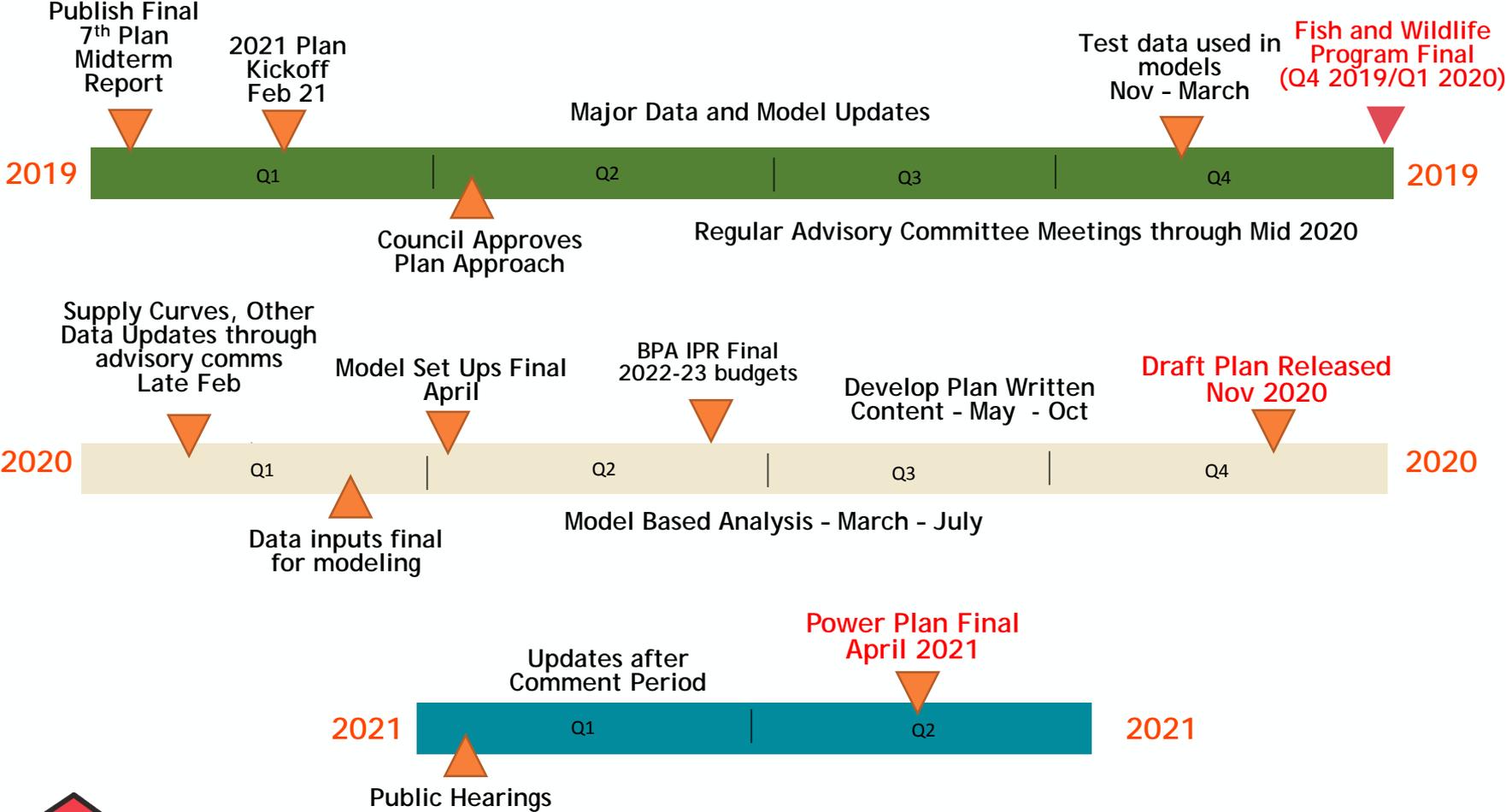


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THE 2021  
NORTHWEST  
POWER PLAN

FOR A SECURE & AFFORDABLE  
ENERGY FUTURE

# 2021 Power Plan Work Schedule

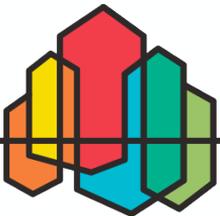


# 2021 Power Plan High Level Work Timeline

## Part 1

Tasks	Timing
2021 Plan Kick-Off Meeting	February 21, 2019
Propose Power Plan High Level Approach and Organization	March 2019 - Power Committee
Staff breaks down into team tasks and creates a more detailed timeline	April 2019
Discussion of possible analytical focus for planning, identifying unique modeling, logic, data needs	June - August 2019
<b>Final proposed set of scenarios to analyze presented to Council</b>	<b>August 2019</b>
Test set of data for use in testing models complete	November 2019

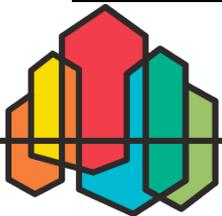
*(Last Updated 4/2019)*



# 2021 Power Plan High Level Work Timeline

## Part 2

Tasks	Timing
Models tested	November 2019 - March 2020
<b>Supply Curves/Load Forecast/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



# 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)
<b>Council releases Draft Plan for public comment</b>	<b>November 2020</b>
Public Hearings	January - February 2021
<b>Council Approves Final Plan</b>	<b>April 2021</b>

