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February 6, 2018

## **MEMORANDUM**

**TO: Power Committee**

**FROM: Chad Madron**

**SUBJECT: High Level Work Plan Update with focus on 2018**

### **BACKGROUND:**

**Presenter:** Chad Madron, Project Analyst, and Ben Kujala, Director of Power Planning

**Summary** This presentation is an update on Power Division 2018 work plan priorities. This update is intended to be a high level sampling of key projects and is not comprehensive.

**Relevance** The Power Division maintains a work plan tracking what division staff is doing to implement the Seventh Power Plan, maintain analytical capabilities and prepare for the Eighth Power Plan.

# Power Division Work Plan

2018

Updated 2/6/2018

1. Guide affordable, adequate, clean energy future – implement Seventh Plan and plan for next Plan Development, including maintaining analytical capability

Action	Work Area	Timeframe (Calendar Year)
A. Implement Seventh Power Plan and related Council priorities	<b>A.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. Will be used to help inform Mid-Term Assessment
	2. Engage with Bonneville to ensure the value of conservation is included in budgeting discussions, cuts across a number of BPA related Action Items, ongoing priority	BPA IPR process and EE Budget Proposal in July or August of 2018, plus additional reporting later in timeframe, Value of Conservation White Paper being developed
	3. Work with regional entities to ensure the model conservation standards are implemented, Cuts across MCS Action Items, ongoing priority	
	4. 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
	5. Enhance the understanding, use, and reporting 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
	<b>A.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.	Report Annually
	3. Release a white paper on DR Barriers	Late 2018

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<b>A.3. Forecasting and Economic Analysis</b>	
1. Improve long-term load forecast for emerging markets	Ongoing for 8th Plan
2. Continued monitoring of regional sales, loads, temperatures, and economic state of the region	March and October of each year
3. Continued monitoring of natural gas and oil situation in the region, national and international markets.	Council Updated Regularly
4. Continue work on Solar plus Battery	Ongoing for 8th Plan
<b>A.4. Generation Resources</b>	
1. Update Generating Resource Costs for Mid-Term	September 2018
2. Track emerging technologies and development trends related to generating resources and utility scale storage	Ongoing - Updates to Council as needed
<b>A.5. System Analysis</b>	
1. Complete Redevelopment of GENESYS	New Model scheduled to be finished September 2018
2. Complete Annual Adequacy Assessments - Ongoing, Implementation	Annually
3. Update Marginal CO2 Emission Analysis - Implementation	Final in April 2018
4. Redo of Climate Change analysis in 7th Plan Appendix M using newly available data	2018
<b>A.6. Mid-Term Assessment</b>	
1. The power division will prepare a draft mid-term assessment of the Seventh Power Plan in coordination with the Power Committee for approval for release by the Council	Chapters discussed in Power comm starting in June, Draft released October 2018
2. Process comments and revise mid-term if needed. Release FINAL Mid-Term Assessment	January 2019

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B. Maintain Analytical Capabilities	<b>B.1. Conservation</b>	
	1. Continued enhancement of input alignment with demand forecast	Ongoing
	<b>B.2. Demand Response</b>	
	1. Develop Supply Curve models for DR	Ongoing project
	<b>B.3. Forecasting and Economic Analysis</b>	
	1. Incorporate Behind the Meter Battery Plus Storage Logic into Models	Q2 2018
	2. Continued enhancement of Council's forecasting models for fuel supply and demand and prices	2018 and for Mid-Term
	3. Enhance modeling of electrification of transport system	2018
	4. Create a generic Time-of-use rate for use in Solar plus Battery	2018
	5. Enhance transportation module of Energy2020	2018
	<b>B.4. Generation Resources</b>	
	1. Redevelop Council's resource revenue requirements finance model – MicroFin	2018
<b>B.5. System Analysis</b>		
1. Update AURORA & GENESYS data and parameters	GENESYS: checkpoints in April of each year ahead of adequacy reporting	

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C. Prepare for 8th Plan	<b>C.1. Conservation</b>	
	1. Data development to enhance or improve estimates for conservation supply curves. (8th Plan), Includes contract work in 2018	Ongoing, Many updates completed by December 2018
	<b>C.2. Demand Response</b>	
	1. Data development to enhance or improve estimates for demand response supply curves.	Ongoing, some updates completed by December 2018
	<b>C.3. Forecasting and Economic Analysis</b>	
	1. Improve Industrial Sales Data	Ongoing, Many updates completed by December 2018
	2. Incorporate hourly load profiles in the load forecast to create an hourly load forecast	2018
	<b>C.4. Generation Resources</b>	
	1. Update generating resource datasets and tools	Ongoing - Provide regular updates to Council
<b>C.5. System Analysis</b>		
1. Redo of Climate Change analysis using newly available data (8th Plan)	Late 2018	