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April 5, 2016

MEMORANDUM

TO: Council Members

FROM: Ben Kujala, Interim Power Division Director

SUBJECT: Power Division Work Plan through 2017

BACKGROUND:

Presenter: Ben Kujala

Summary Council staff has prepared a high-level draft workplan with a focus on the anticipated activities staff will pursue through the end of 2017. This draft will be discussed with the Committee Members.

Relevance The Power Division workplan gives a view through 2017 of what division staff will be doing to implement the Seventh Power Plan, maintain analytical capabilities and prepare for the Eighth Power Plan. This presentation is intended to get Committee Member feedback on the attached proposed plan.

Workplan: N/A

Background: The workplan has been used as a method for keeping Council Members informed of the work being done in the Power Division. It is general done annually, however, because of the recent release of the Seventh Plan this workplan covers through the end of 2017. This allows for a more comprehensive view of the activities for implementing the Seventh Plan.

More Info: N/A

Power Division Work Plan

2016/2017

Updated 3/31/2016

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	A.1. Conservation	
	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 in October of 2016 and 2017
	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 2016, plus additional reporting later in timeframe
	3. Work with regional entities to ensure the model conservation standards are implemented, Cuts across MCS Action Items, ongoing priority	First Update in August 2017
	4. Continue to lead the Regional Technical Forum and engage in the development and approval of measure savings estimates and protocols	Budget/Workplan Approval and RCP Results in October of each year, 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 in October
	A.2. Demand Response	
	1. Convene forum and/or advisory committee to explore barriers and strategies to demand response development	December 2016
	2. Explore integration of “grid edge” technologies that may function similarly to DR in region into modeling	December 2016
	3. Coordinate with regional utilities and Bonneville to ensure demand response costs, capabilities, and potential are included in planning documents.	Report Annually, Starting August 2017

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2016/2017

Updated 3/31/2016

	A.3. Forecasting and Economic Analysis	
	1. Improve long-term load forecast for emerging markets	Updates to Council in Mid 2016, 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 Update July 2016
	A.4. Generation Resources	
	1. Scope and develop energy storage white paper	September 2017
	2. Initiate ocean energy emerging technology roadmap and workgroup	Initial meeting by August 2017
	3. Track emerging technologies and development trends related to generating resources and utility scale storage	Ongoing - Updates to Council as needed
	A.5. System Analysis	
	1. Complete Redevelopment of GENESYS	October 2017
	2. Complete Annual Adequacy Assessments - Ongoing, Implementation	June 2016 and May 2017
	3. Update Marginal CO2 Emission Analysis - Implementation	March 2017
B. Maintain Analytical Capabilities	B.1. Conservation	
	1. Explore the development of an end-use conservation model (Maintain)	Go/No Go Decision December 2016
	B.2. Demand Response	
	1. Develop Supply Curve models for DR	December 2017
	B.3. Forecasting and Economic Analysis	
	1. Enhance modeling of electrification of transport system	Initial Update in December 2016
	2. Continued enhancement of Council's forecasting models for fuel supply and demand and prices	December 2017
	B.4. Generation Resources	
	1. Redevelop Council's resource revenue requirements finance model – MicroFin	September 2017
	B.5. System Analysis	
	1. Update AURORA & GENESYS data and parameters	GENESYS: checkpoints in April of each year ahead of adequacy reporting AURORA: December 2016

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C. Prepare for 8th Plan	C.1. Conservation	
	1. Data development to enhance or improve estimates for conservation supply curves. (8th Plan), Includes contract work in both 2016 and 2017	Ongoing, Many updates completed by December 2017
	C.2. Demand Response	
	1. Data development to enhance or improve estimates for demand response supply curves.	Ongoing, some updates completed by December 2017
	C.3. Forecasting and Economic Analysis	
	1. Improve Industrial Sales Data	Ongoing, Many updates completed by December 2017
	C.4. Generation Resources	
	1. Update generating resource datasets and tools	Ongoing - Provide regular updates to Council
	C.5. System Analysis	
	1. Redo of Climate Change analysis using newly available data (8th Plan)	December 2017