Henry Lorenzen Chair Oregon

Bill Bradbury Oregon

Phil Rockefeller Washington

> Tom Karier Washington



April 5, 2016

MEMORANDUM

- TO: Council Members
- FROM: Charles Grist, Kevin Smit, and Massoud Jourabchi
- SUBJECT: Proposal for FY 2016 work on industrial load and efficiency assessments

BACKGROUND:

- Presenter: Charles Grist, Kevin Smit
- Summary: Staff proposes issuing a Request for Proposals (RFP) for energy load and efficiency research on the industrial sector in the Pacific Northwest. The research will be used to improve annual load forecasting and to update baseline data for the Eighth Power Plan energy efficiency assessment.

Nineteen industrial segments (including pulp, paper, frozen food, lumber, refinery, cold storage, etc.) make up the majority of the Northwest industrial sector in the Seventh Power Plan. The proposed RFP would seek updated information on four components of each of the nineteen industry segments included in the Seventh Plan: 1) Industry description and detailed definition 2) estimate of total annual energy use, 3) disaggregated electric end-use, i.e. lighting, motors, and 4) energy efficiency and demand response information. The proposed RFP would seek out experts to conduct the research and provide the most recent data for each industrial segment.

The proposed schedule is to release the RFP by April 15, make a recommendation to the Council and have the Council select the winning

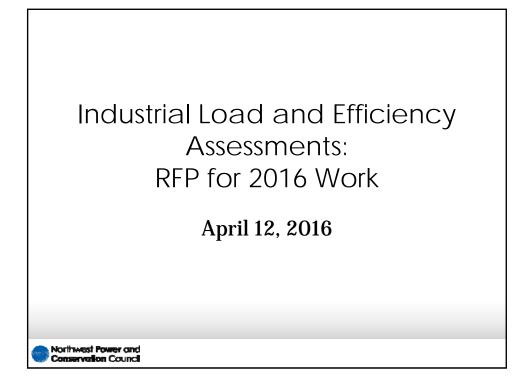
W. Bill Booth Vice Chair Idaho

James Yost Idaho

Pat Smith Montana

Jennifer Anders Montana bid(s) at the May 2016 Council Meeting, enter into a contract(s), and start work as soon after the May Council meeting as possible. The work is to be completed by the end of fiscal year (September 31, 2016). Depending on the proposals received, the Council may choose to divide up the work between several contractors who have expertise in various segments of the industrial sector. The total amount of the combined contract(s) is not anticipated to exceed \$100,000.

- Relevance: This new industry-specific assessments will provide important data for near-term load forecasting needs and will serve as the foundation for an updated Eighth Power Plan conservation assessment.
- Workplan: C.1.1 Conservation Resources Data development to enhance or improve estimates for conservation supply curves (8th Plan).
 C.3.1 Forecasting and Economic Analysis Improve Industrial Sales Data.
- Background: The last fully updated Industrial energy efficiency assessment was completed in preparation of the Sixth Power Plan. For the Seventh Plan, staff relied on results from the Industrial Facility Site Assessment (IFSA) and numerous other sources to update and refresh the Sixth Plan industrial assessment. The load forecast also relies on the data from this industrial assessment. A variety of metrics and sources (e.g., employment data) are used to develop the end-use level load forecast for each industrial segment.





Industrial Segments			
7P EE Industry Segments	NAICS CODE	2035 Forecasted Load (MWh)	2035 Conservation Potential (aMW
Mechanical Pulp	322	4,261,225	1
Kraft Pulp	322	2,596,442	
Paper	322	5,267,664	1
Foundries	331	673,247	
Frozen Food	31141	1,243,766	
Other Food	311	3,189,467	
Wood - Lumber	3211	620,280	
Wood - Panel	3212	718,938	
Wood - Other	3212	1,525,349	
Sugar	3113	582,684	
Hi Tech - Chip Fab	3344	999,801	
Hi Tech - Silicon	32518	347,399	
Metal Fab	332	668,274	
Transportation, Equip	336	1,697,223	
Refinery	324	1,143,256	
Cold Storage	49312	1,129,112	
Fruit Storage	49313	3,380,049	
Chemical	325	4,496,577	



