Henry Lorenzen Chair Oregon

Bill Bradbury Oregon

Guy Norman Washington

Tom Karier Washington



W. Bill Booth Vice Chair Idaho

James Yost

Jennifer Anders Montana

> Tim Baker Montana

April 4, 2017

MEMORANDUM

TO: Council members

FROM: Charlie Grist, Tina Jayaweera, and Kevin Smit

SUBJECT: Briefing on Final Bonneville 2016-2021 Energy Efficiency Action Plan

BACKGROUND:

Presenter: Allie Mace, BPA Planning and Evaluation Manager and Danielle Walker,

BPA Planning Specialist

Summary: Allie Mace and Danielle Walker will brief the Council on Bonneville's Final

2016-2021 Energy Efficiency Action Plan (EE Plan). They will also discuss

its activity related to Bonneville-related Seventh Plan Action.

The EE Plan is the agency's roadmap for achieving savings towards the Council's Seventh Plan. The EE Plan outlines how savings are achieved through a variety of programs, market transformation, and momentum savings. The Action Plan also identifies the budget needs required through 2019 in alignment with the BPA Integrated Program Review – the process BPA uses to set budgets for each rate case period. The Action Plan includes an overview of sector program strategies, evaluation, emerging technology and an introduction into BPA's demand response efforts.

The final EE Plan concludes that the combined Bonneville, utility, and NEEA resources and actions are expected to achieve about 580 aMW of savings over the six-year period. The forecast mix of savings from BPA-funded programs and expected utility customer self-funded programs are largely unchanged from the draft plan. There is a slight increase in

forecast savings from NEEA market transformation programs. BPA's expected savings from momentum savings is large and unchanged, but the final plan states BPA's intention to closely monitor changes to federal standards under the new administration and to adjust its activities and savings assumptions as warranted. BPA budget levels (\$455 million over the first four years) are unchanged from the draft and include a \$5 million annual reduction in funding beginning 2018 due to an assumed increase in utility self-funding.

One helpful addition to the EE Plan includes a more balanced analysis of risks and opportunities in each of six sector-based strategies along with a discussion of BPA's approach to addressing each. The final plan addresses many of the Council staff over-arching comments on the draft. However, there are several elements, related to contingency planning and Seventh Plan Action items, which were not addressed in the Energy Efficiency Action Plan document. These include: Verifying and incorporating utility self-funding plans, monitoring the effectiveness of Bonneville efficiency incentives (EEI), and linking elements of the Energy Efficiency Action Plan to Seventh Plan action items, particularly distribution system savings MCS-2.

Relevance: Bonneville's implementation of its energy efficiency program and

obligations is a key element of the Council's Power Plan.

Workplan: A.1.1. Conservation - Coordinate with regional entities to ensure the

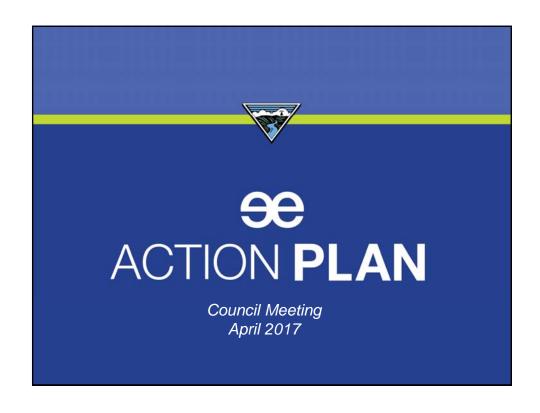
regional goal for cost-effective conservation is achieved.

Background: The Council reviewed and commented on the draft EE plan in October

and November, 2016.

More Info:

- Link to Final EE Plan
- Link to Council Comments on the draft EE Plan

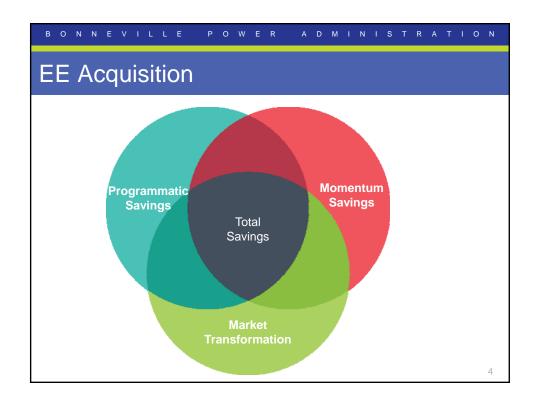


BPA ENERGY EFFICIENCY

BPA's Energy Efficiency Program

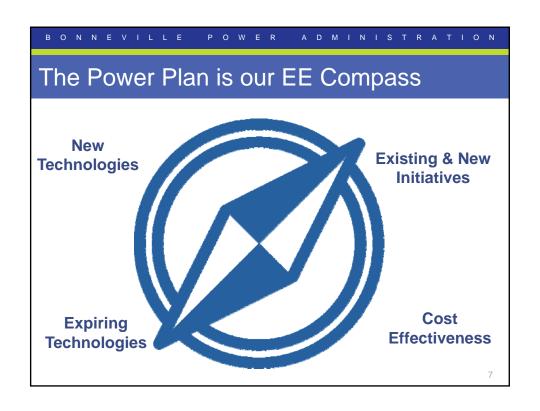
- BPA partners with its customer utilities to support energy efficiency programs across all sectors
- Offers a broad portfolio of measures for reimbursement, regional programs and technical support
- Public power has acquired more than 1700 aMW of savings since 1980
 - Achieved over 600 aMW in the 6th Plan

3





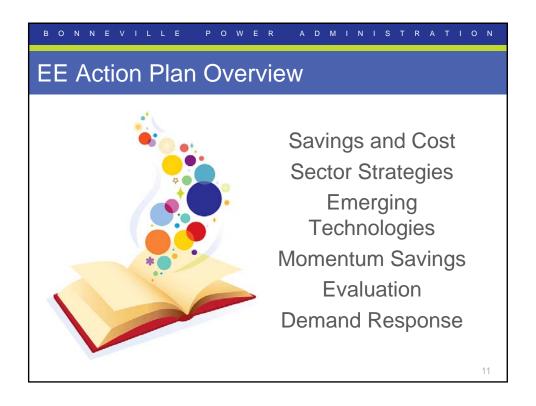




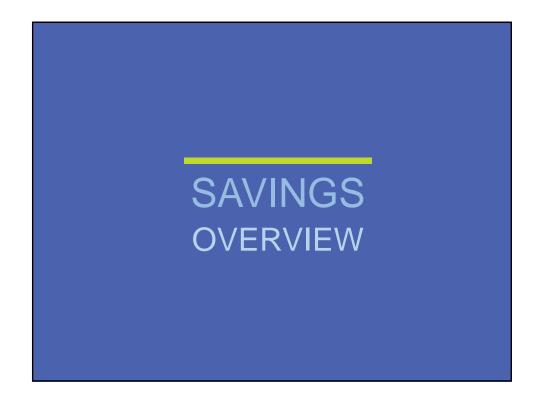


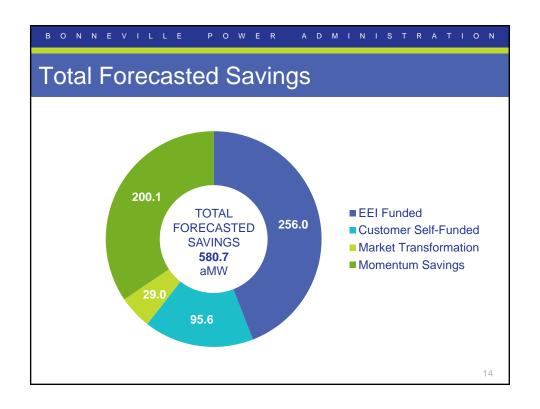


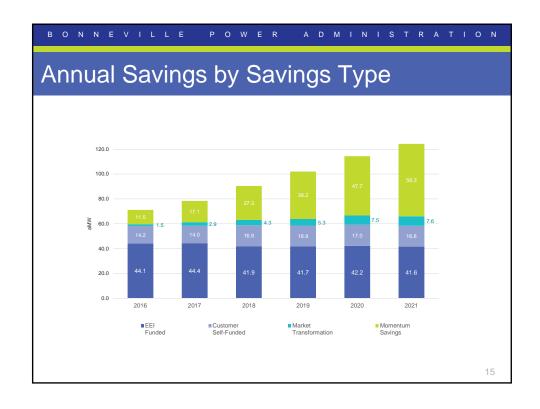


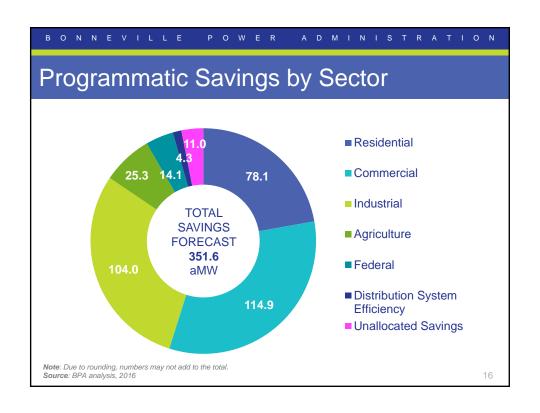


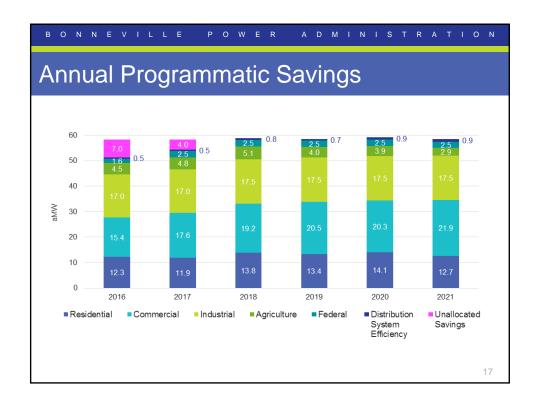


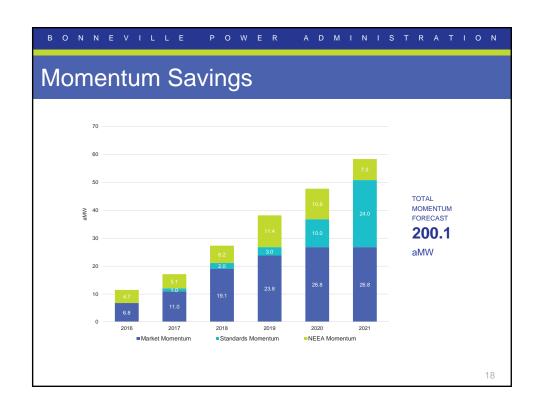








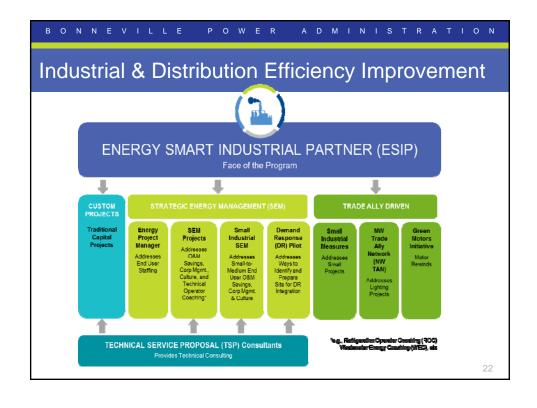


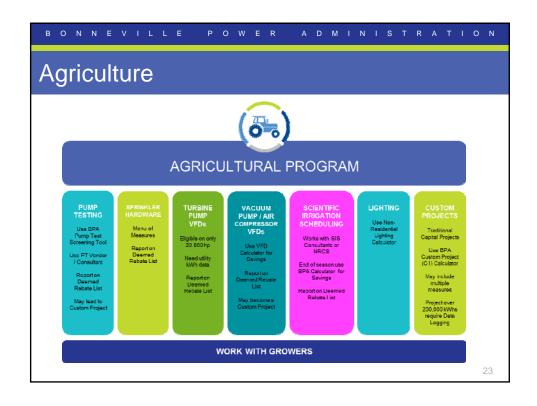


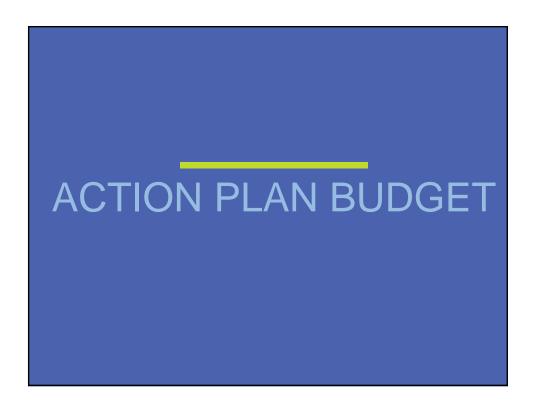


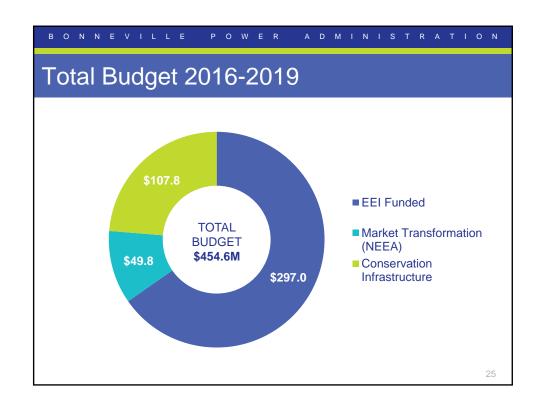


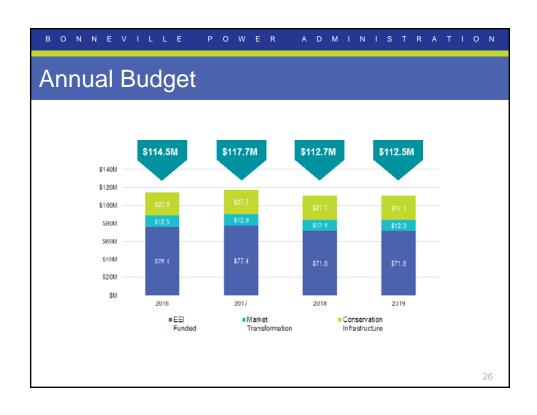


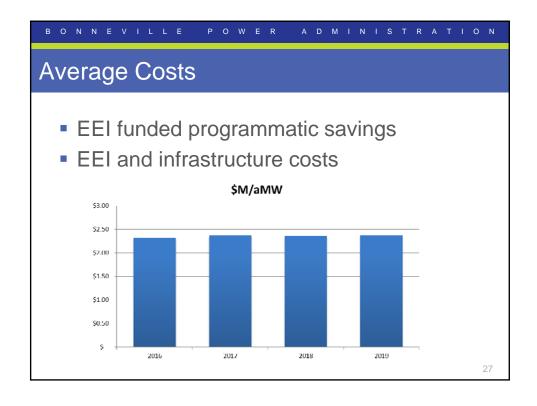














Action Items - BPA Lead Efforts **Action Item** Description **BPA Engagement** BPA-1 Achieve BPA's share of Development of EE Action the regional goal for cost Plan and continuation of EE effective conservation programs, momentum savings research, and support of **NEEA** BPA-3 Continue efforts to DR potential assessment and establish demand commercialization plan being response developed BPA-5 Work is underway in follow up Quantify the value of conservation in financial to the Focus 2028 effort, analysis and budget including identifying how to setting forums better quantify and communicate the benefits.

Action Items - BPA Lead Efforts Action Item Description **BPA Engagement** BPA-6 Review BPA's Resource Program implementation model Enhancement. Continued work in 2018 MCS-1 Hard to reach markets BPA coordinating with Council on analysis of hard to reach markets MCS-2 Capture distribution Programs continue to support efficiency savings distribution efficiency opportunities and to share success stories.

Action Items – BPA Lead Efforts Action Item Description **BPA Engagement** ANLYS-8 BPA leading efforts to develop Non-energy impacts a work plan and study approach for the region. RES-4 Expand regional demand Sharing BPA's DER response infrastructure benchmarking and BPA DR Demonstration results; BPA technology pilot; BPA's expanded demonstrations and commercial purchases of DER (DR)

ction Items – BPA Participation		
Action Item	Description	BPA Engagement
BPA-4	Improve access to demand response data	BPA participating in Council DRAC committee and supported development of DR data template; Regional DER Potential Assessment
MCS-4	Develop a regional work plan to provide focus on emerging technologies to help ensure adoption	Participating in NEEA RETAC and supporting to ensure regional collaboration
REG-1	End Use Load Shape work plan by end of 2016	BPA co-leading Steering Committee, participating in workgroup and has committed funding
REG-2	Provide continued support for NEEA	BPA continues to support NEEA. Dan James new BPA Board member

Action Items - BPA Participation Action Item Description **BPA Engagement** REG-3 Collaborate on DR data Participation in DRAC and collection development of DR data template: Regional DER Potential Assessment **BPA-10** Enhance Bonneville's load Collaborating and data sharing with load forecasting forecasting model (end use forecasting) REG-5 Ongoing effort. Projects Conduct regular conservation program include industrial energy impact evaluations management, residential delivery verification, and residential billing analysis. 33

