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October 3, 2017

MEMORANDUM

TO: Power Committee

FROM: Tina Jayaweera, Ben Kujala

SUBJECT: Briefing on Bonneville's Integrated Demand Side Management Initiative

BACKGROUND:

Presenters: Rob Petty, Manager, Power Forecasting and Planning; Allie Mace – Manager, Energy Efficiency Planning and Evaluation

Summary: In 2015, Bonneville launched an “Integrated Demand Side Management” (IDSM) initiative to further integrate energy efficiency, demand response, and distributed energy resources into its overall power and transmission planning, systems, and operations. For example, furthering the integration of non-wires solutions in transmission planning. This presentation will update the Power Committee, highlighting how the IDSM initiative recommendations have been implemented, the progress, and next steps.

Relevance: Energy efficiency and demand response are key components of the Seventh Power Plan and recognizing how these resources can be used across the power system is critical to achieving the goals of the Plan.

Workplan: Item A.1. Conservation and A.2 Demand Response

Background: Bonneville presented on the IDSM initiative at the October 2016 Council meeting: <https://www.nwcouncil.org/media/7150609/5.pdf>

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Briefing to the Northwest Power and
Conservation Council
Power Committee
October 10, 2017



Agenda

- Refresher: What is IDSM at BPA?
- Context: Long-term planning at BPA
- Details: The IDSM objectives
- The future: Where are we going from here?

What is IDSM at BPA?

- Integrated Demand Side Management is a long-term cross-agency effort to advance the consideration of demand side solutions
- The goal is to continue the evolution of successful implementation of low cost solutions to meet BPA's Power and Transmission needs in the future

Why is this important to BPA?

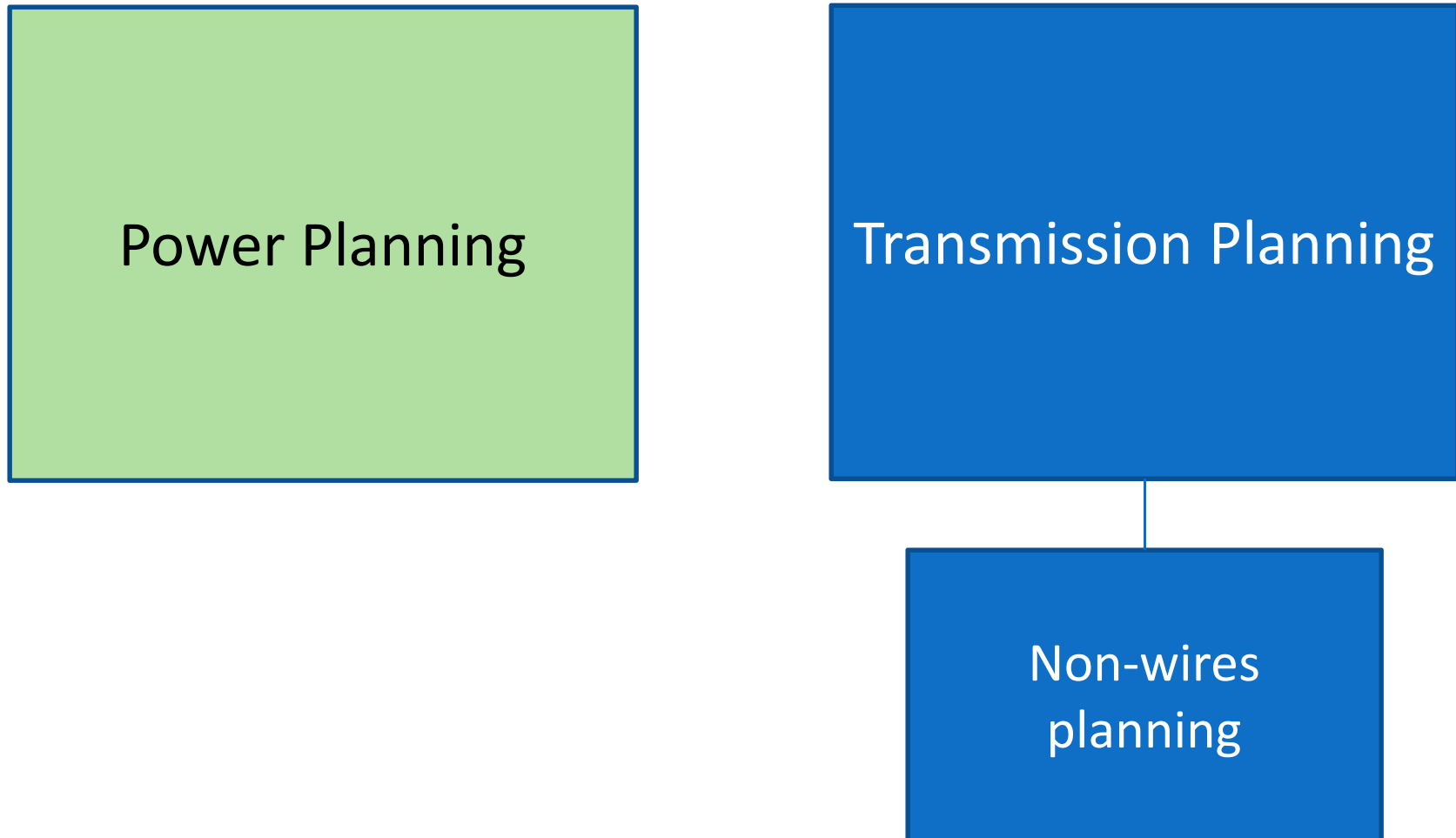
Drivers of Change

- Changes in the wholesale energy market
- Change affecting the utility business model
- Customer service
- Economics

Long-term Planning

- System planning and grid reliability
- Need for low cost, reliable, and flexible solutions

Long-Term Planning at BPA

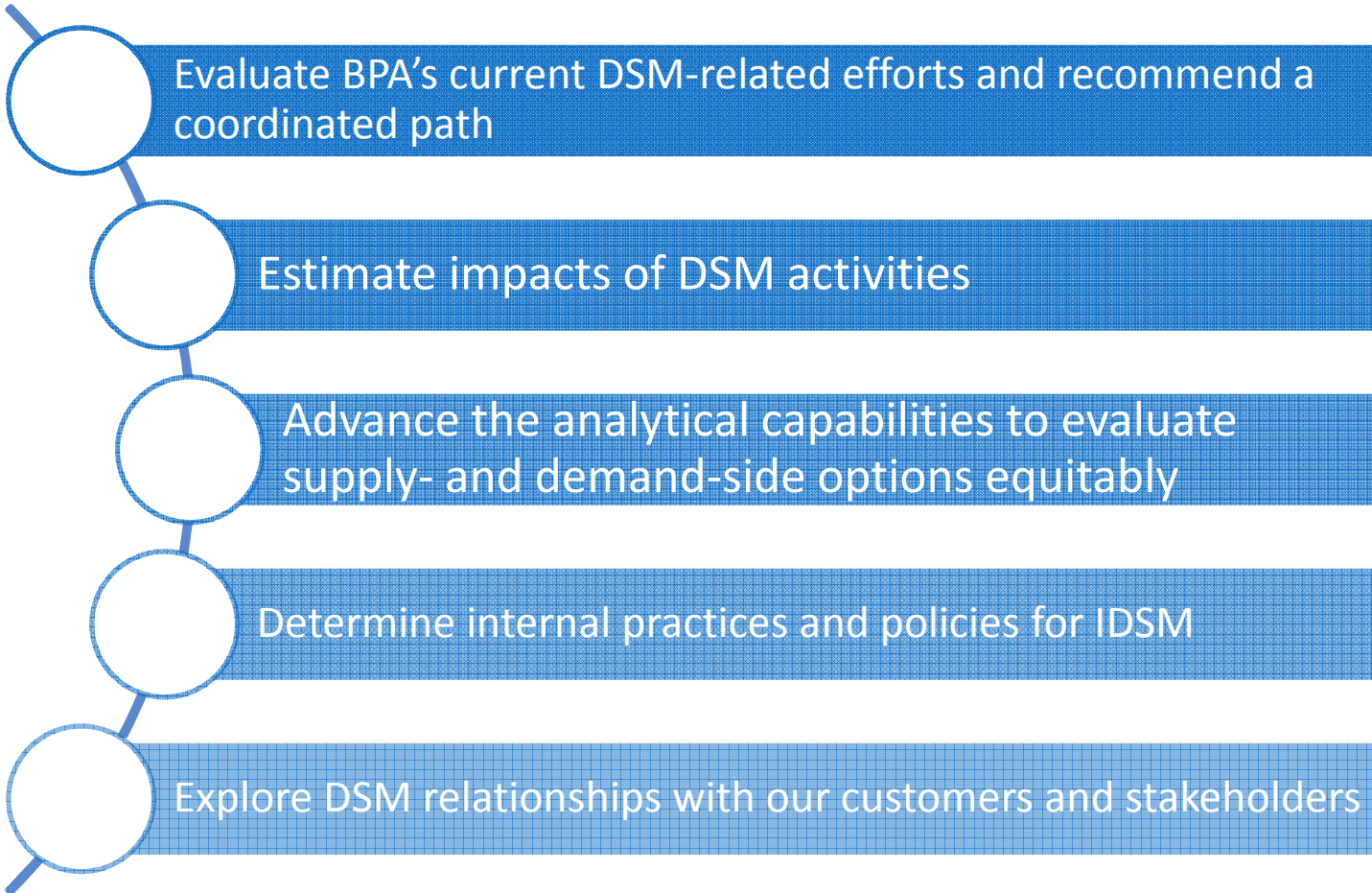


Long-term Planning Initiatives

Recent Initiatives

- *Integrated Demand-Side Management:* Bonneville strategy initiative to better integrate demand-side management solutions into Power and Transmission
- *Integrated Planning:* Initiative to harmonize Power, Transmission and Non-Wires planning and determine integrated solutions to needs, where appropriate

What are the IDSM Objectives for BPA?



Where do we go from here?

- Operationalize IDSM outcomes.
 - CPAs and DER potential assessment in the Resource Program
 - End use load research underway
 - Internal guidelines in place
 - Economic evaluation development underway
- Focus on integrating planning processes
 - Identifying integrated solutions
 - Working across Power and Transmission

Questions