

Memorandum

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TO: Dan Johnson, Director of Energy Efficiency, Avista Utilities;
Ryan Finesilver, DSM Analyst/Planning and Analytics, Avista Utilities

CC: Stephanie Rider, Senior Manager, NEEA Planning

FROM: Christina Steinhoff, Planning Analyst

SUBJECT: Final 2017 Annual Report for Avista's Idaho Service Territory

This report provides NEEA's electric energy savings estimates for 2017. These savings estimates are part of NEEA's 2017 Annual Report. This memo summarizes savings results. The appendix provides a brief description of the savings allocation and baseline approaches.

NEEA would like to thank Avista for its partnership and continued support of the alliance. Please do not hesitate to contact Christina Steinhoff at 503.688.5427 with any questions about this report.

2017 Savings Estimate Summary

NEEA estimates Avista Idaho's 2017 annual electric energy savings associated with its initiatives is 0.60 aMW (Table 1). These savings are above the NEEA baseline¹ and not counted as part of Avista's Idaho local program savings.²

¹ NEEA estimates Baseline as the savings that would have occurred without NEEA, utility, the Bonneville Power Administration, and the Energy Trust of Oregon's market intervention.

² NEEA estimates the share of energy savings claimed through Bonneville, the Energy Trust of Oregon and local utilities based on program data and on NEEA's annual survey of local utility programs.

Table 1: 2017 Annual Report Savings Estimates (aMW) for Avista's Idaho Service Territory

2017 (aMW)	Total Regional Savings	Co-Created Savings	Net Market Effects
Total	1.88	0.61	0.60
Residential	1.36	0.43	0.42
Commercial	0.46	0.17	0.17
Industrial	0.06	0.01	0.01

Notes:

These are site-based, first year electric savings.

Net Market Effect= Total Regional Savings- Local Program Savings -Baseline Savings

Additional Value Delivery

In addition to Market Transformation programs, the alliance invests in infrastructure (i.e. training, tools and resources), data and research that do not directly deliver energy savings but do support regional efficiency programs, increase the market’s ability to deliver greater efficiency and improve NEEA’s ability to measure and verify energy savings. For example, in 2017 the alliance:

- Submitted Heat Pump Water Heater, Residential Lighting, Clothes Washers and Dryers data to the Regional Technical Forum to support measure development.
- Provided water heating, room air conditioning and clothes washer sales data Bonneville to support Momentum savings estimates.
- Provided T5 high output linear fluorescent lamp sales data from the alliance’s Distributor Platform to the RTF to support for the midstream Non-Residential Lighting UES development.
- Supported expansion of distributor data collection (previously used exclusively for Ductless Heat Pump data) to include a range of equipment through joint effort with Bonneville.
- Completed the second comprehensive inventory of existing Northwest residential Buildings - the Residential Building Stock Assessment, to inform energy efficiency programs as well as regional power planning efforts
- Created the region’s first shared emerging technology database to increase regional visibility into emerging technology activities across organizations and reduce development costs by avoiding redundancies
- Launched the first end-use load research effort in the region since the 1980’s to support regional planning and efficiency program design

- Developed robust on-line resource centers (BetterBuilt NW, BetterBricks, and SEM Hub) to support and promote energy-efficient practices and to connect key market actors with energy efficiency information and efficiency programs
- Raised market capability for energy efficiency through targeted skills and knowledge training (e.g. industrial technical training, advanced lighting training, and code compliance training, etc.).
- Published 18 market research and evaluation reports to inform market transformation program design and provide critical data and analysis
- Facilitated regional coordination in the Commercial & Industrial Lighting and Consumer Products markets through regional steering committees

Appendix A: Methodology to Forecast Savings

Allocation Methodology

NEEA allocates the savings to Avista's Idaho territory using the most disaggregated data available. The data sources can range from service-territory level to regional. The attached spreadsheet lists the allocation method by measure. It also shows the allocation as a percent of the regional savings. When NEEA only has regional data, NEEA allocates the savings using funding shares. NEEA applies the funder shares to savings by initiative measure based on the initiative start.

Baseline and Technical Assumptions

This report follows NEEA's method of measuring electric energy savings from market transformation efforts. The baseline is an estimate of the market adoption without intervention by NEEA, the Bonneville Power Administration, the Energy Trust of Oregon and utilities. Prior to reporting the savings above the baseline, NEEA removes the savings counted through the local programs. This effort avoids double counting energy savings.

The technical assumptions come from third-party research including NEEA contracted research and the Regional Technical Forum.