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November 8, 2016

MEMORANDUM

- TO: Council members
- FROM: Jennifer Light and Charlie Grist

SUBJECT: Regional Conservation Progress Survey

BACKGROUND:

- Presenter: Jennifer Light and Charlie Grist
- Summary: The Regional Conservation Progress (RCP) survey comprises data from Bonneville (on behalf of their public utilities), the region's investor owned utilities (IOU), Energy Trust of Oregon, and the Northwest Energy Efficiency Alliance (NEEA). The data collected in the RCP provides and understanding of the energy efficiency savings acquired in the region and expenditures for 2015.

The 2015 RCP represents the last year under the Sixth Power Plan. Major findings for energy efficiency acquisition during the Sixth Plan period are:

- The region as a whole, including program, NEEA, codes and standards, and market momentum savings, surpassed the regional target of 1,490 aMW by acquiring 1,739 aMW of energy efficiency between 2010 and 2015.
- In 2015, utility program and NEEA savings were 284 aMW. This is just shy of the 2015 target of 290 aMW. When adding in market accomplishments outside of direct utility programs, the region surpassed its 2015 target.
- Bonneville surpassed its share of the Sixth Plan Target (defined as 42 percent of the regional target) by achieving 700 aMW of energy

efficiency from programs, NEEA, and market savings from 2010 through 2015.

- The utility-funded energy efficiency acquired in 2015 represents approximately 498 MW in associated capacity savings.
- Cumulative savings from 1978 through 2015 from utility and NEEA programs, state codes, and federal standards now total 5,962 aMW aMW. Conservation remains the region's second largest resource after hydroelectricity.

Following are some of the survey's major findings for energy efficiency costs:

- In aggregate, regional utility investments in energy efficiency in 2015 were \$440 million. One note, is that this data may not account for all public utility self-funded conservation not captured in the RCP.
- The average levelized cost for conservation continues to remain low. The average levelized cost to utilities of 2015 savings was \$16.50 per megawatt hour (2006\$).
- Utility-funded conservation savings for 2015 are equivalent to 1.4 % of the regional electricity sales,¹ on average. The data also shows that a handful of utilities capture large savings relative to their share of retail electric sales.
- Relevance: The Sixth Power Plan established a target of 1,490 aMW of energy efficiency acquisition from 2010 through 2015. Per its charter, the Regional Technical Forum is responsible for tracking energy efficiency savings in the region against plan targets.
- Workplan: A.1.1 Coordinate with regional entities (e.g. NEEA, BPA, utilities, regulators) to ensure the regional goal for cost-effective conservation is achieved.
- Background: The Council's Regional Technical Forum is charged with conducting an annual survey to assess progress towards the Sixth Power Plan's conservation goals. Council staff, with the assistance of RTF contract analyst and an outside contractor (Cadmus), recently completed the 2015 survey and will present their findings at the November Council meeting.
- More Info: N/A

¹ This is compared to 2014 regional electricity sales based on EIA data.























With codes, standards, and market momentum, the region surpassed the Sixth Plan targets

















Efficiency savings are equivalent to 1.4 % of regional electricity sales; nearly double US average















