2018 Integrated Resource Plan Progress Report

Finalized Portfolio Analysis & Draft Progress Report document

June 4, 2018
Today’s purpose

DRAFT IRP Progress Report

Compliance with RCW 19.280: Electric Utility Resource Plans

- Board action on IRP Progress Report at June 25, 2018 legal hearing

- Submit to Dept. of Commerce by September 1, 2018

No Board action required today
Today’s presentation

Summary of Recommendations
Short-Term Plan – Conservation
Short-Term Plan – Energy Resources
Remaining Board and Public Process Schedule
Summary of Recommendations

Retain District’s current mix of generating resources to meet load and renewables requirements of WA Renewable Portfolio Standard (RPS) for 2018-2028

Continue to evaluate and implement conservation programs based on 2017 Conservation Potential Assessment (CPA)

Keep evaluating/implementing strategies for additional power sales contracts consistent with financial policies & hedging strategy
### Updates to 2016 Short-Term Plan

**CONSERVATION**

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<tr>
<th>Implement cost-effective programs that comply with RPS requirements</th>
<th><strong>UPDATE</strong> 2016/17 achieved 4.12 aMW of savings, target was 1.78 aMW</th>
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<td>In 2016, work to achieve over 2.0 aMW of savings</td>
<td>2016 met goal and achieved 2.04 aMW</td>
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<td>In 2016, conduct energy efficiency audits in residential &amp; commercial buildings to improve accuracy of conservation potential and planning</td>
<td>2016 conducted residential energy efficiency audits of ~450 homes and ~1,200 commercial buildings. Greatly improved accuracy and confidence in results of 2017 CPA</td>
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<td>Conduct strategic energy management surveys at 10+ large commercial customers for operational &amp; management opportunities</td>
<td>Consultant working with ~10 large commercial customers to help establish continuous energy efficiency program within organizations</td>
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<td>In 2016, conduct detailed assessment of publicly-owned street lighting; evaluate LEDs</td>
<td><strong>UPDATE</strong> Completed inventory; getting bids to retrofit ~3,700 street lights. Acquired grants up to $692,000 for estimated $1.9 million project. Expected completion in 2018.</td>
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<td>Participate in Northwest Energy Efficiency Alliance (NEEA) collaboration to improve efficiency of new consumer products</td>
<td>District continues to participate</td>
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<td>Utilize improved conservation financial model; accounting for shape variations/ wholesale prices</td>
<td>Model used to evaluate energy efficiency measures &amp; potential demand response programs.</td>
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<td>In 2016, evaluate new residential programs such as home construction</td>
<td>Smart thermostat program successful as retail self-install &amp; HVAC contractor-driven program. New construction pilot program did not receive any applications; still looking for builders interested in building beyond code requirements.</td>
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### Updates to 2016 Short-Term Plan

#### ENERGY RESOURCES

| Continue to track state and federal climate change and all environmental legislation | **UPDATE** Efforts continue to enact a carbon tax in WA |
| Monitor western build out of renewable generation and effect on reliability, reserves & market prices; monitor western Energy Imbalance Market (EIM) | Oversupply in West can push prices in NW lower when District is seller. |
| Monitor regional dialogue and data regarding impact of climate change on potential effect on District’s future loads and hydrology; regional data expected in 2017 | Initial data resulted more winter/spring generation & less summer generation; changes larger over time. New data expected late 2018. 2018 to work with UW on data to model Lake Chelan ops. Temp data indicates reduced winter peaks/increased summer peaks. |
Updates to 2016 Short-Term Plan

ENERGY RESOURCES

UPDATE

EV growth in Chelan County continues to be monitored closely. Growth was slightly above the 2016 base case.

| Continue to monitor growth in electric vehicles (EV) and presence in Chelan County: latest technical updates to modeling of potential EV load; projected potential impacts remain low |
| District in second moratorium for new HDL applications. Greatest source of uncertainty in District load forecast. Rates, policies & developments continue to be monitored closely. |

| Continue to monitor District high-density load (HDL) rates, policies and load growth to aid in future load forecast |
Board and Public Process – 2018

May 14
Initial Portfolio Analysis results

June 4
Finalized Portfolio Analysis & Draft Progress Report

June 25
Final Draft IRP Progress Report for Board Approval
(Resolution to be presented)
Chelan County PUD is developing its 2018 Integrated Resource Plan (IRP) Progress Report as required by state law, RCW 19.280.

In 2006, RCW 19.280 was adopted by the Washington State legislature. The statute requires investor-owned and consumer-owned electric utilities with more than 25,000 customers to develop IRPs and progress reports. Among other things, IRPs must include a range of load forecasts, assessments of commercially-available, utility-scale renewable and nonrenewable generating technologies, a comparative evaluation of renewable and nonrenewable generating resources and conservation and efficiency resources and an assessment of methods for integrating renewable resources and addressing overgeneration events, if applicable. Utilities must produce progress reports reflecting changing conditions related to and the progress towards the IRP every two years, and an updated IRP must be developed at least every four years.

The 2018 IRP Progress Report outlines the sources of power needed to supply PUD customers through 2028. It describes the mix of resources from generation, conservation and efficiency that will meet current and projected needs at the lowest reasonable cost and risk to the utility and its customer-owners.

The 2018 IRP Progress Report will be submitted to the Washington State Department of Commerce before the Sept. 1, 2018, deadline. The public meeting and hearing schedule is presented below. Links to presentations and notices for the 2018 IRP Progress Report will be added as they become available.

Send comments to contactus@chelanpud.org

Public Meetings/Hearing – 2018

May 14, 2018, board presentation, 10 a.m.

* Meeting Notice