



# 2019 Integrated Resource Plan (IRP) Public Input Meeting February 21, 2019



# Agenda



- 9:00am-9:30am pacific – General Updates
- 9:30am-10:00am pacific – Summary of Oregon Energy Efficiency Analysis Results
- 10:00am-10:30am pacific – Stakeholder Feedback Form Recap
- 10:30pm-11:00am pacific – Wrap-Up/Next Steps



# General Updates





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- Status of 2020 wind resource opportunities.
- Status update on coal studies.
- Status update regarding August 1, 2019 IRP file date extension:
  - Filed requests for 2019 IRP file date timing extension in Washington, Idaho and Utah with notifications filed in Oregon and Wyoming.
  - On February 15, 2019, the Washington commission issued an order approving the August 1, 2019 file date with the requirement that PacifiCorp file a supplement to its 2019 IRP by December 15, 2019 should legislation be passed on or before August 31, 2019 that materially alters the preferred portfolio and action plan items. If not materially altered, PacifiCorp may file a notice stating no material alterations.
  - On February 7, 2019, the Idaho commission issued a procedural schedule. Comments are due February 28, 2019 and reply comments are due March 7, 2019.
  - On January 29, 2019, the Utah commission issued a procedural schedule. Comments are due February 27, 2019 and reply comments are due March 13, 2019.



# Summary of Oregon Energy Efficiency Analysis Results



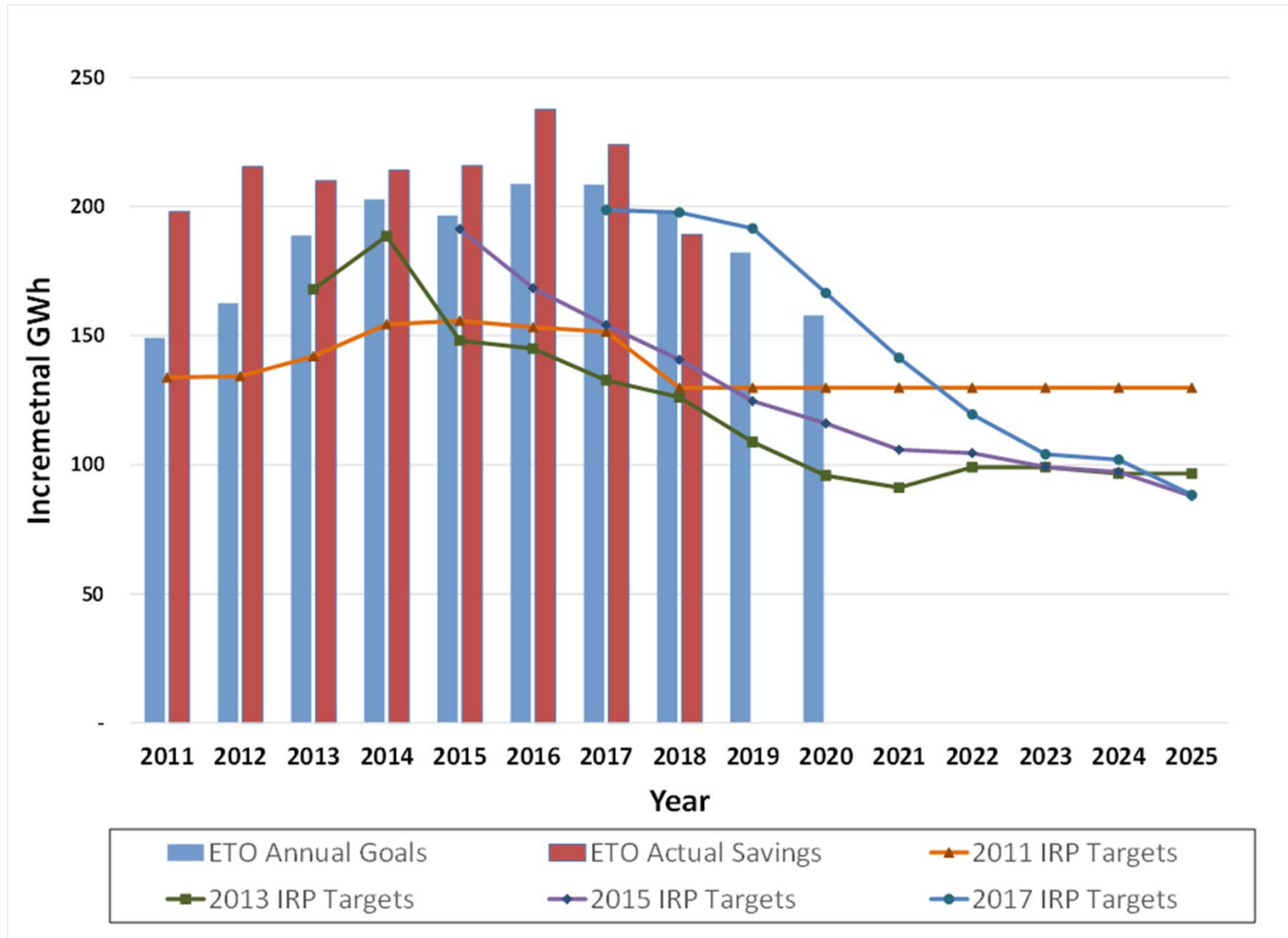
# Background



- During PacifiCorp's 2017 IRP public input process, Public Utility Commission of Oregon staff and other stakeholders expressed concerns with historical differences between PacifiCorp's IRP targets for Oregon energy efficiency resources and the Energy Trust of Oregon's (ETO's) actual achieved savings. As a result, the Oregon commission order acknowledging PacifiCorp's 2017 IRP required PacifiCorp to investigate this issue further:
  - PacifiCorp, in coordination with Staff and the Energy Trust of Oregon, will conduct an analysis by the next IRP that identifies and compares the ongoing differences between ETO's and PacifiCorp's near to long term energy efficiency forecast with ETO's actual achieved savings. PacifiCorp will report on the outcomes of this analysis, including any recommendations to both organizations regarding forecasting improvements, in the 2019 IRP (modified order; October 26, 2018).
- The Commission also ordered PacifiCorp to:
  - Coordinate with stakeholders to develop an Oregon-specific workshop agenda on the scope, methodology, and timeline for the analysis – LC 70 Party Workshop held on November 16, 2018.
  - Present a summary of its results at one of its regularly-scheduled 2019 IRP Public Input meetings – February 21, 2019.
  - File the results of its analysis in Docket No. LC 70 – Target filing date of April 1, 2019.



# Historic Variance





# Outline of Report

1. Analysis Background and Overview
2. Planning for and Pursuing Cost-Effective Energy Efficiency Resources in Oregon
3. Forecasting Cost-Effective Energy Efficiency in PacifiCorp's IRP
4. ETO Goal Setting, Savings Acquisition, and Reporting Processes
5. Potential Drivers of Differences Between Historical PacifiCorp IRP Targets and ETO Actual Savings Acquisition
6. Efforts to Improve Alignment for PacifiCorp's 2019 IRP
7. Recommendations for Forecasting Improvements



# Potential Drivers of Variance



Potential Driver of Variance	Perceived Impact	
	PacifiCorp	Energy Trust of Oregon
<b>Forecasting Available Achievable Potential</b>		
Uncertainty in forecasting large, cost-effective opportunities (e.g., large projects, LEDs)	High	High
Misalignment of timing between PacifiCorp and ETO planning cycles (e.g. IRP targets do not represent ETO budgeted goals)	Medium	High
Calibration of resource potential to program forecasts and assumed IRP cost-effectiveness threshold	High	Low
ETO use of regional data in place of PacifiCorp-specific data	Low	Low
<b>Identification of Cost-Effective Resource Potential</b>		
Differences in avoided costs (methodology and blending)	High	Medium
PacifiCorp's IRP bundling process	Low	Low
PacifiCorp levelized cost vs. ETO benefit/cost screening	Low	Low
One-time vs. annual screening of emerging technologies	Low	Low
<b>Savings Acquisition</b>		
ETO historic overachievement relative to annual goals	High	High
Large, unforeseen cost-effective savings opportunities	High	High
Savings from measures with cost-effectiveness exceptions	Low	Low

# Report Recommendations



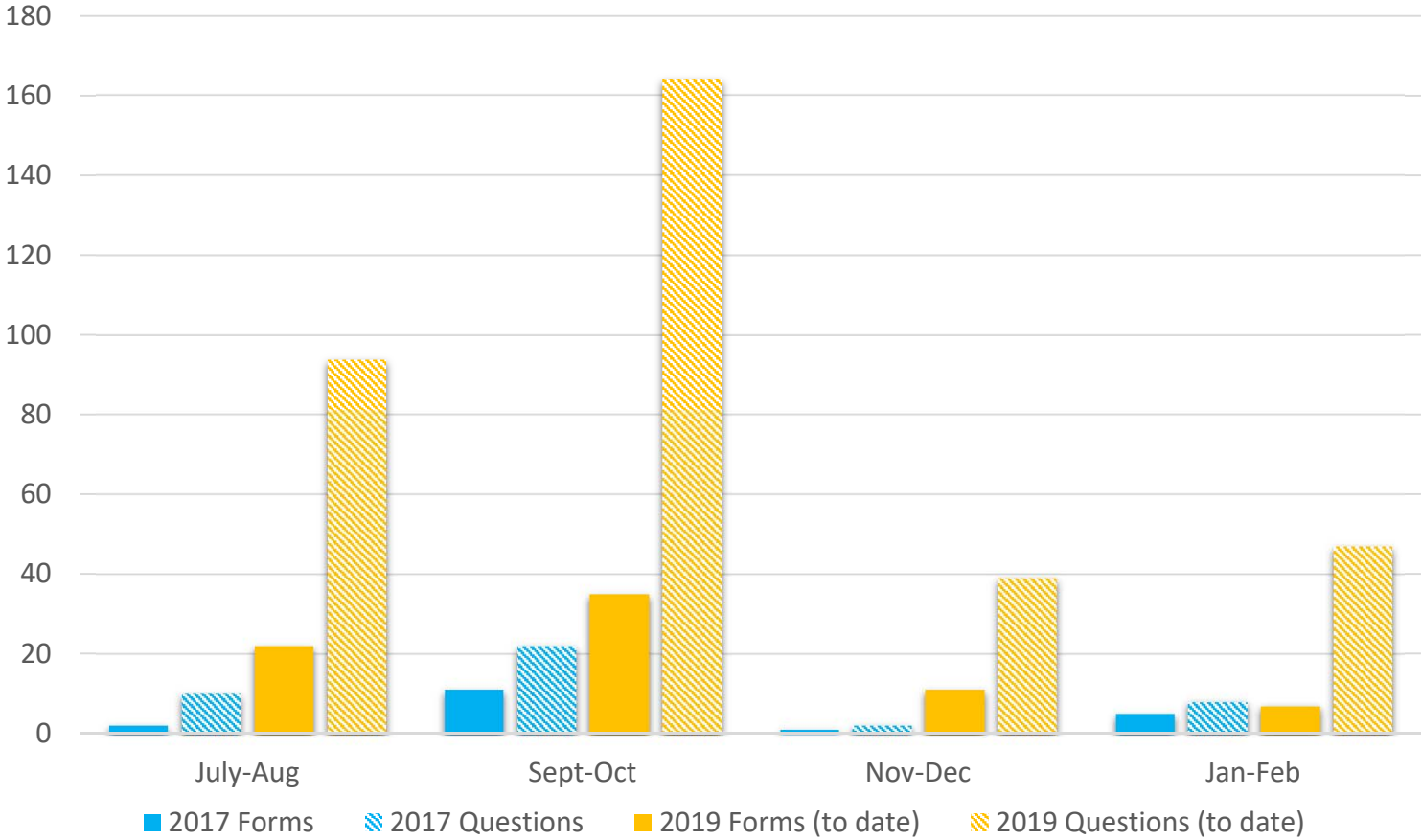
- PacifiCorp and ETO:
  - Continue to work with Oregon commission staff, other utilities, and interested stakeholders through Oregon dockets UM 1893 and AR 621 to improve alignment between avoided costs for energy efficiency used by both organizations.
  - Continue to investigate opportunities to improve energy efficiency forecasting through additional inter-organization data sharing and use.
- PacifiCorp:
  - Continue to evaluate alternate energy efficiency bundling methodologies.
- ETO:
  - Consider including a factor in the early-year calibration process that could account for historic overachievement relative to goals.



# Stakeholder Feedback Form Recap



# 2019 IRP vs. 2017 IRP Stakeholder Feedback Form Activity to Date



# Stakeholder Feedback Forms



- 75 stakeholder feedback forms submitted to date.
- Stakeholder feedback forms and responses can be located at: [www.pacificorp.com/es/irp/irpcomments.html](http://www.pacificorp.com/es/irp/irpcomments.html)
- Depending on the type and complexity of the stakeholder feedback received responses may be provided in a variety of ways including, but not limited to, a written response, a follow-up conversation, or incorporation into subsequent public input meeting material.
- Stakeholder feedback following the most recent public input meeting is summarized on the following slides for reference.

# Summary - Recent Stakeholder Feedback Forms



Stakeholder	Date	Topic	Brief Summary (complete form available online)	Response (posted online when available)
Idaho PUC	Jan 28	Reliability Assessment	Inquiries on methodology used to derive reserve requirements and request for information regarding reserve contributions by resource.	Responded to questions week of February 18.
National Grid Ventures	Feb 5	Energy Storage	Comments regarding PacifiCorp's use of the capacity factor approximation method and hydro conditions assumptions.	Responded to questions week of February 18.



# Additional Information and Next Steps



# Draft Topics for Upcoming PIMs\*



## March 21-22, 2019 PIM\*

- Coal Studies Discussion
- Stakeholder Feedback Form Recap

## April 25-26, 2019 PIM\*

- Coal Studies Discussion (*if needed*)
- Regional Haze Portfolios
- Initial Portfolio Development Cases
- Stakeholder Feedback Form Recap

## May-July, 2019\*

- Portfolio Development Cases
- Sensitivity Studies
- Portfolio Selection Process
- Preferred Portfolio
- Action Plan
- Stakeholder Feedback Form Recap

*\* Topics and timing are tentative and subject to change*



# Additional Information and Next Steps



- Public Input Meeting Presentation and Materials:
  - [pacificorp.com/es/irp.html](http://pacificorp.com/es/irp.html)
- 2019 IRP Stakeholder Feedback Forms and Summary Matrix:
  - [pacificorp.com/es/irp/irpcomments.html](http://pacificorp.com/es/irp/irpcomments.html)
- IRP Email / Distribution List Contact Information:
  - [IRP@PacifiCorp.com](mailto:IRP@PacifiCorp.com)
- Upcoming Public Input Meeting Dates:
  - March 21-22, 2019
  - April 25-26, 2019
  - May 20-21, 2019
  - June 20-21, 2019
  - July 18-19, 2019 (*as needed*)
  - August 1, 2019 – 2019 IRP File Date