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## Northwest **Power** and **Conservation** Council

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March 7, 2017

### MEMORANDUM

**TO: Council members**

**FROM: Charlie Grist**

**SUBJECT: Energy Trust of Oregon Briefing**

**Presenter:** Michael Colgrove, Executive Director, Energy Trust of Oregon

**Summary:** The Energy Trust of Oregon is an independent, non-profit organization created to implement energy efficiency and renewable resources in Oregon under a stable and consistent funding paradigm. Energy Trust designs and runs efficiency programs for customers of Portland General Electric, Pacific Power, NW Natural and Cascade Natural Gas.

Michael Colgrove became Executive Director of the Energy Trust of Oregon last August. Mr. Colgrove will brief the Council on Energy Trust accomplishments, current issues and overall outlook.

**Relevance:** Energy Trust is a key player in the regional energy efficiency and renewable resource landscape. It has produced ground breaking approaches to program design, marketing, delivery and evaluation. It contributes a large share of regional electric efficiency savings. It is a top performer in terms of savings as a share of electric energy load. Oregon customers of PGE and PacifiCorp represent about 19 percent of the region's electric load while recent Energy Trust program accomplishments represent about 28 percent of total regional savings.

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: Energy Trust is a result of 1999 Oregon legislation that required the state's largest investor-owned electric utilities, PGE and Pacific Power, to collect a three percent public purpose charge for efficiency and renewables. The legislation authorized the Oregon Public Utility Commission to direct a portion of those funds to an independent, non-government entity. Energy Trust began operation in 2002 as the primary entity responsible for delivering electric efficiency and renewable resource programs. In 2007, funding of electric programs above the 3 percent public purpose charge was approved with the goal of avoiding the need to purchase more expensive electricity.

Funding for natural gas efficiency programs was added through regulatory proceedings. Energy Trust began administration of natural gas programs in 2003 with NW Natural and in 2006 with Cascade Natural Gas. In 2009, Energy Trust began serving NW Natural's customers in Washington. In 2017, Energy Trust began serving Avista gas customers in Oregon.

More Info: Michael Colgrove joined Energy Trust after 15 years with the New York State Energy Research and Development Authority (NYSERDA) where he was both the director of the New York City office and director of Multifamily Programs. He has extensive experience in designing, developing and implementing energy-efficiency programs that help to accelerate broad market adoption of clean energy solutions. Prior to his work with NYSERDA, Michael spent nearly six years working with low-income multifamily programs throughout New York, including implementing a program to encourage the installation of electricity reduction measures, developing environmental education programs for inner-city youth and providing building energy assessments with the Weatherization Assistance Program. He is a graduate of the New York Institute of Technology's Energy Management master's program and earned his Bachelor of Science degree in Environmental Science at the University of Alaska Fairbanks.



# Energy Trust of Oregon Taking Stock and Planning for the Future

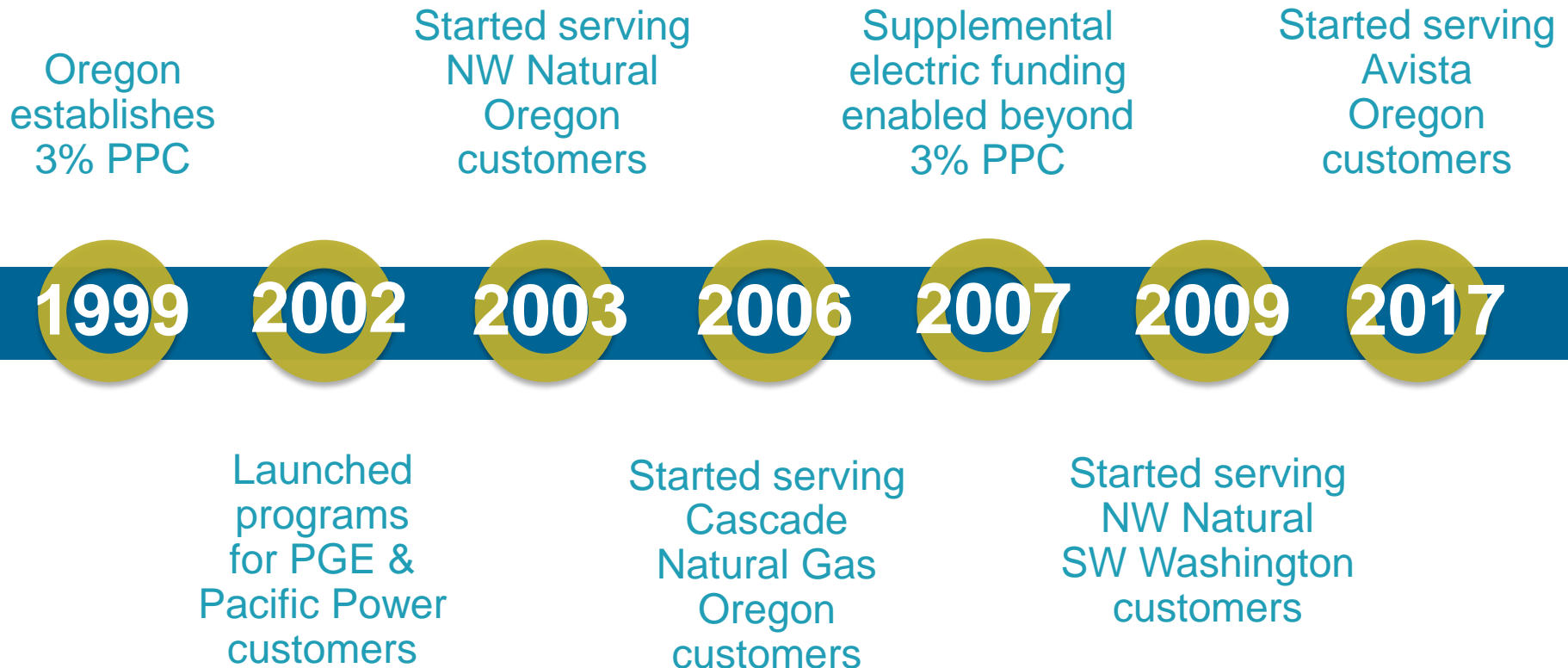
NW Power & Conservation Council  
March 15, 2017

# About Energy Trust

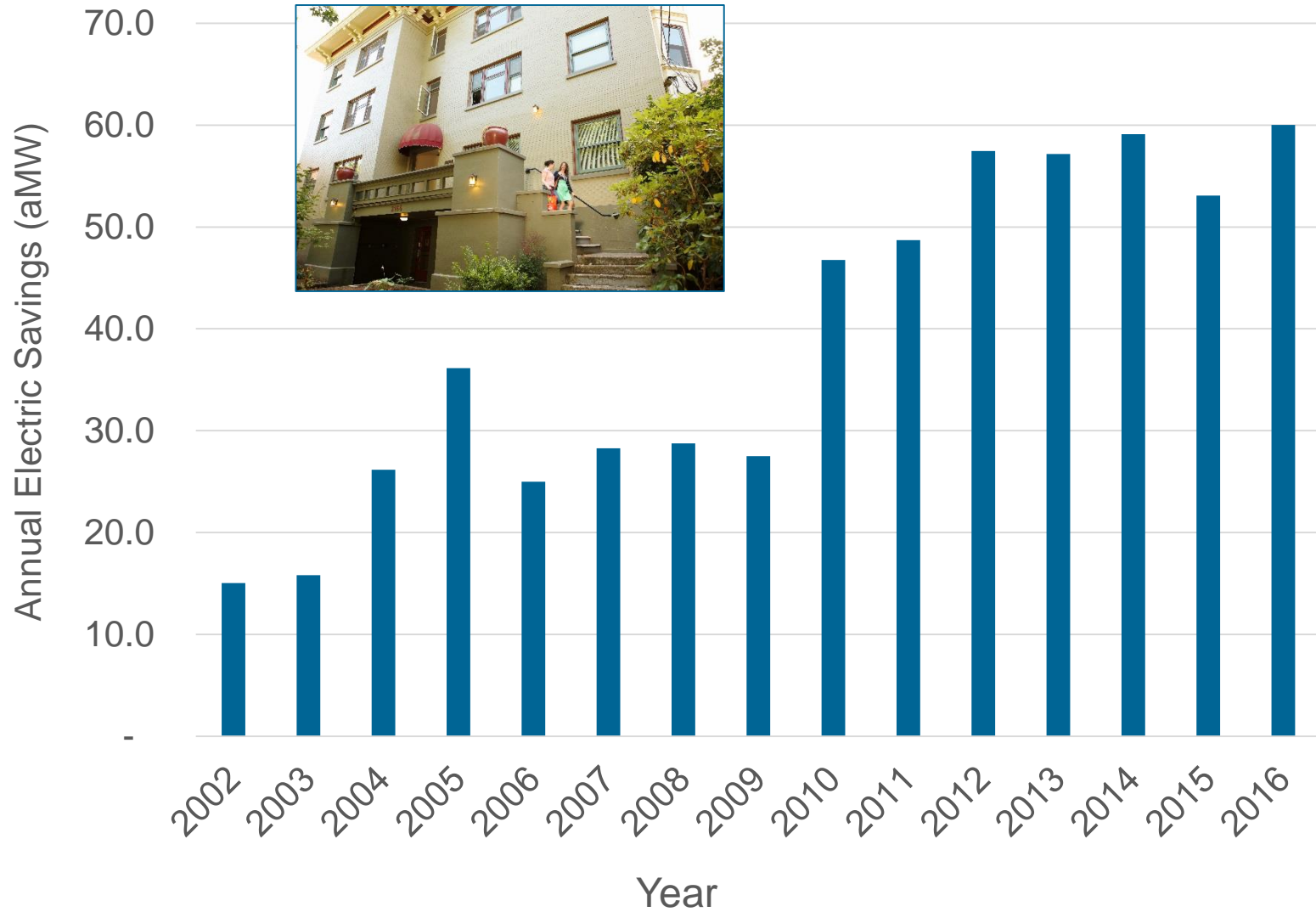
- Independent, nonprofit organization
- Support investments in energy efficiency and access to renewable energy
- Serve 1.5 million customers of PGE, Pacific Power, NW Natural, Avista, and Cascade Natural Gas in Oregon, and 70,000 customers of NW Natural in Washington
- Funded by 3% public purpose charge for electric utility customers, and utility tariffs approved by the OPUC
- Annual budget of \$198 million, the majority of which is for electric efficiency



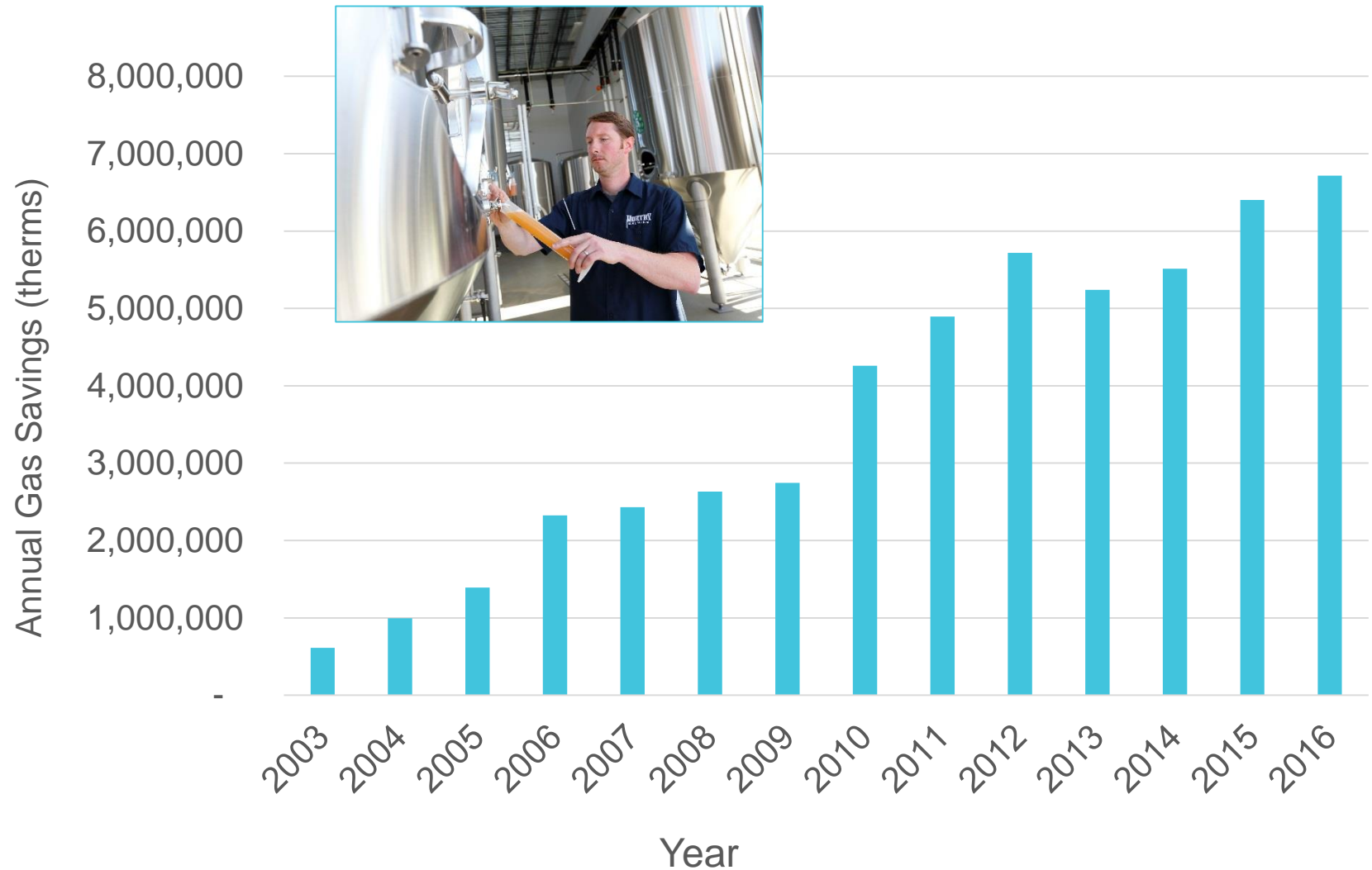
# Brief History of Energy Trust



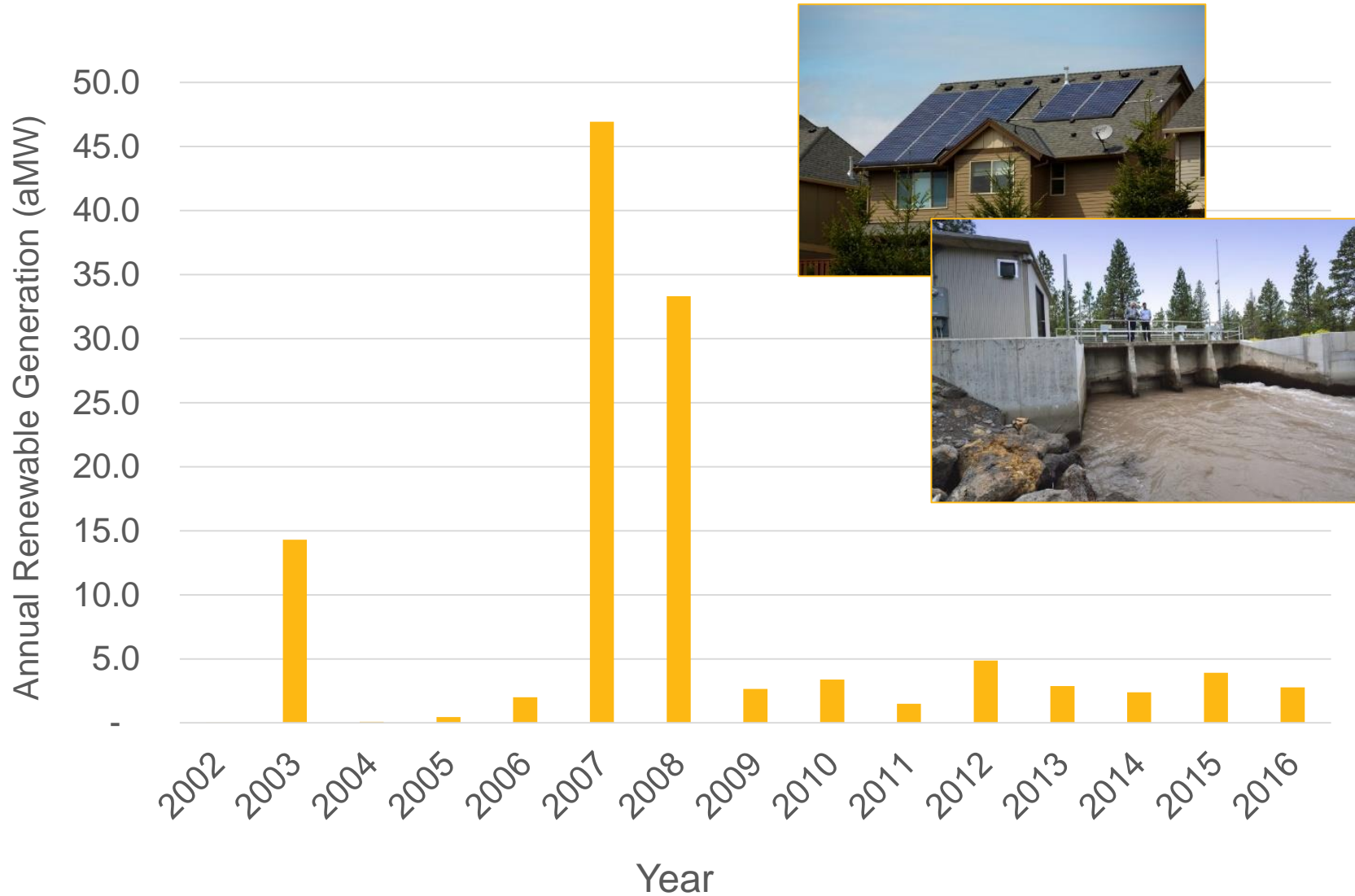
# Energy Trust Annual Electric Savings (Net)



# Energy Trust Annual Gas Savings (Net)



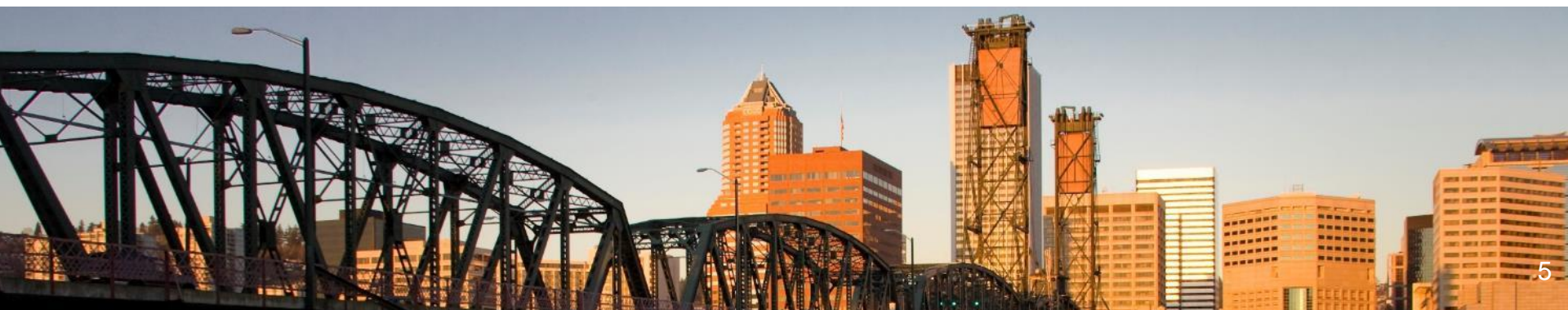
# Energy Trust Annual Renewable Generation





# 2016 Observations

- Our portfolio approach is foundational to success
- Shining year for LEDs
- Leveraging construction boom to secure savings
- Targeted efforts to serve renters, moderate-income customers are delivering savings
- Uncertainty for our solar programs
- Nurturing a robust pipeline of efficiency and renewable energy projects





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# Energy Trust and the Council

# Regional Technical Forum

- Regional peer group and sounding board for our savings analysis work
- Provide annual RTF funding and serve as member of the RTF and its policy committee
- Rely on the RTF as a primary source for savings, costs, measure lives and load shapes
- RTF coordinates and funds crucial research that we could not complete alone

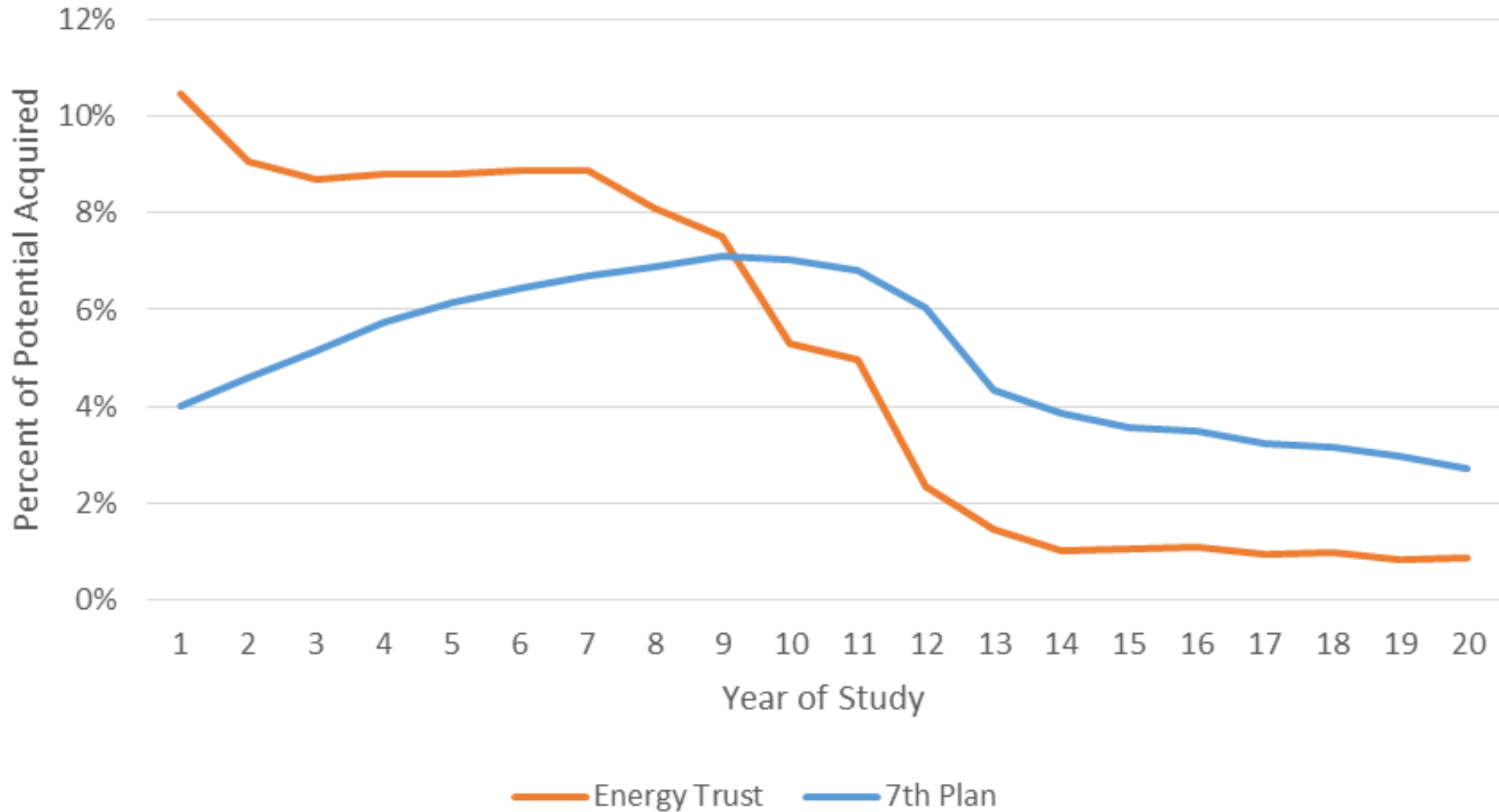


# Alignment of Near Term Goals

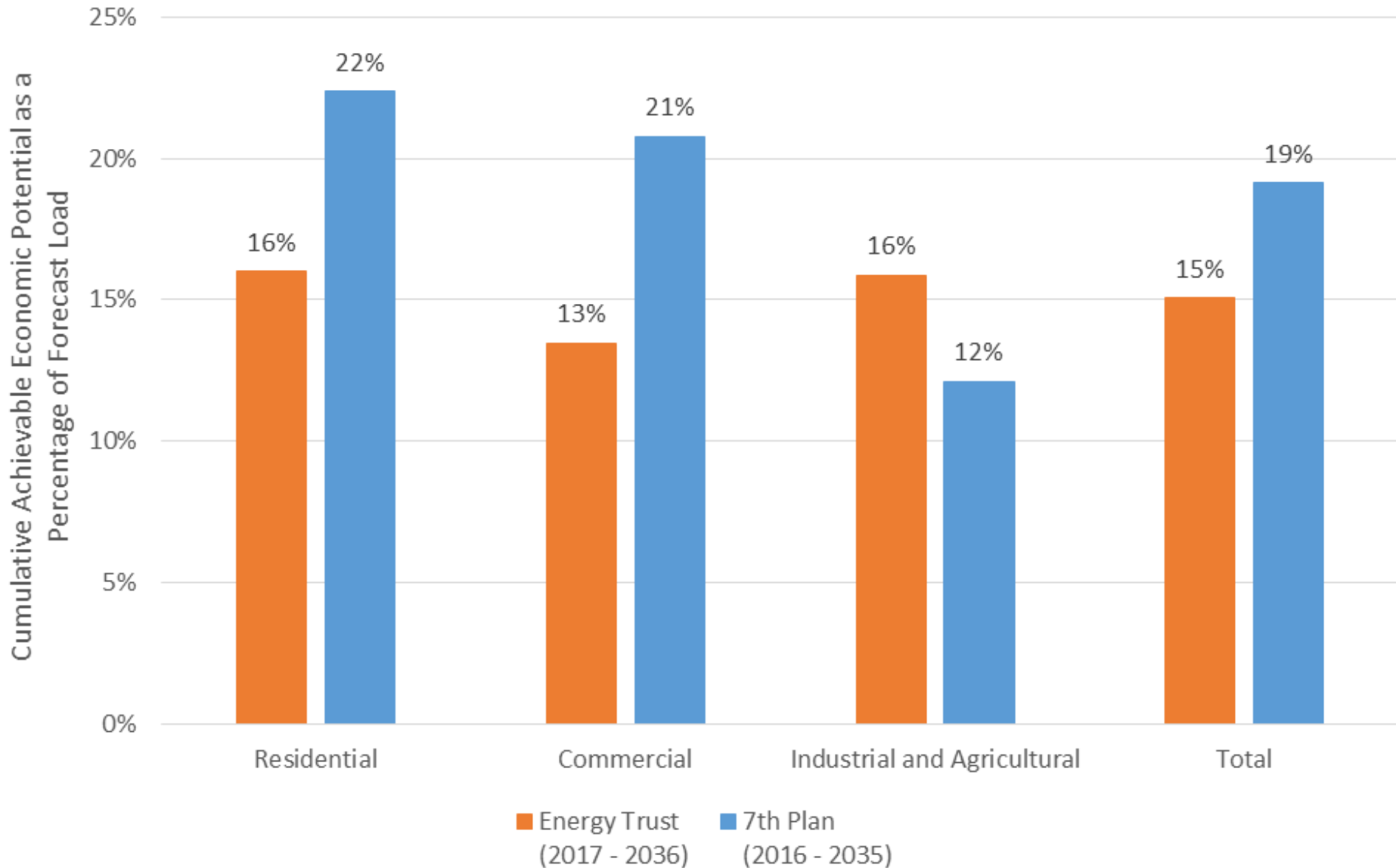
Year	Council's 7 <sup>th</sup> Plan Regional Goal (Gross aMW)	Energy Trust's Estimated 17% of 7 <sup>th</sup> Plan Regional Goal (Gross aMW)	Energy Trust Targets (Gross aMW)
2016	185	31.5	60.0
2017	185	31.5	56.4
2018	230	39.1	63.4
2019	230	39.1	55.9
2020	285	48.5	48.6
2021	285	48.5	43.1
<b>Total</b>	<b>1,400</b>	<b>238.0</b>	<b>327.4</b>



# Comparing Pace of Acquisition



# Comparing Potential by Sector



# 7<sup>th</sup> Plan Recommendations and Energy Trust Activities

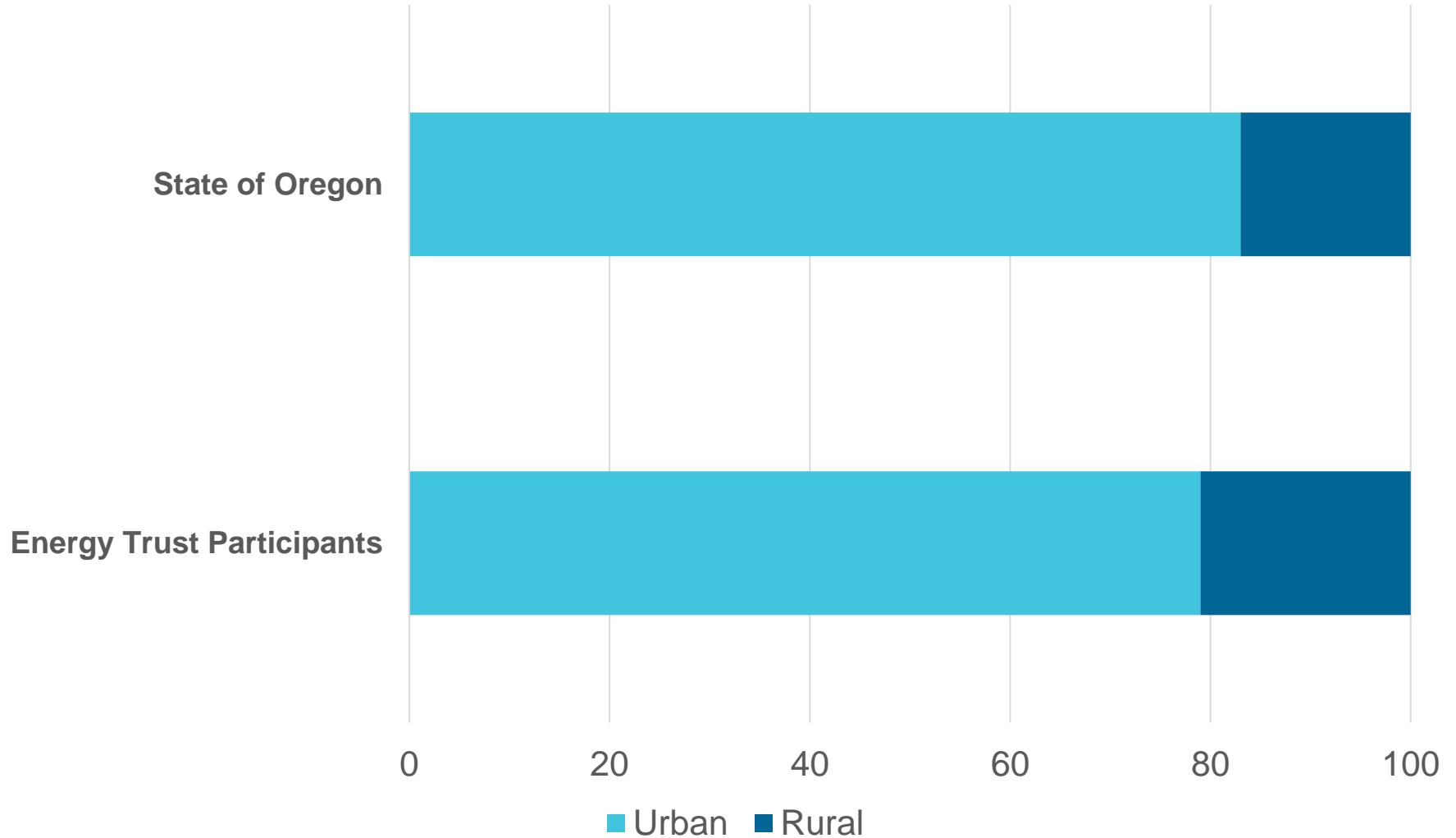
- Supporting End Use Load research
- Improving estimates of capacity savings
- Conducting pilots, research and evaluation
- Analyzing under-served markets





# Under-Served Markets

## Urban vs. Rural Participant Comparison



# Challenges & Opportunities

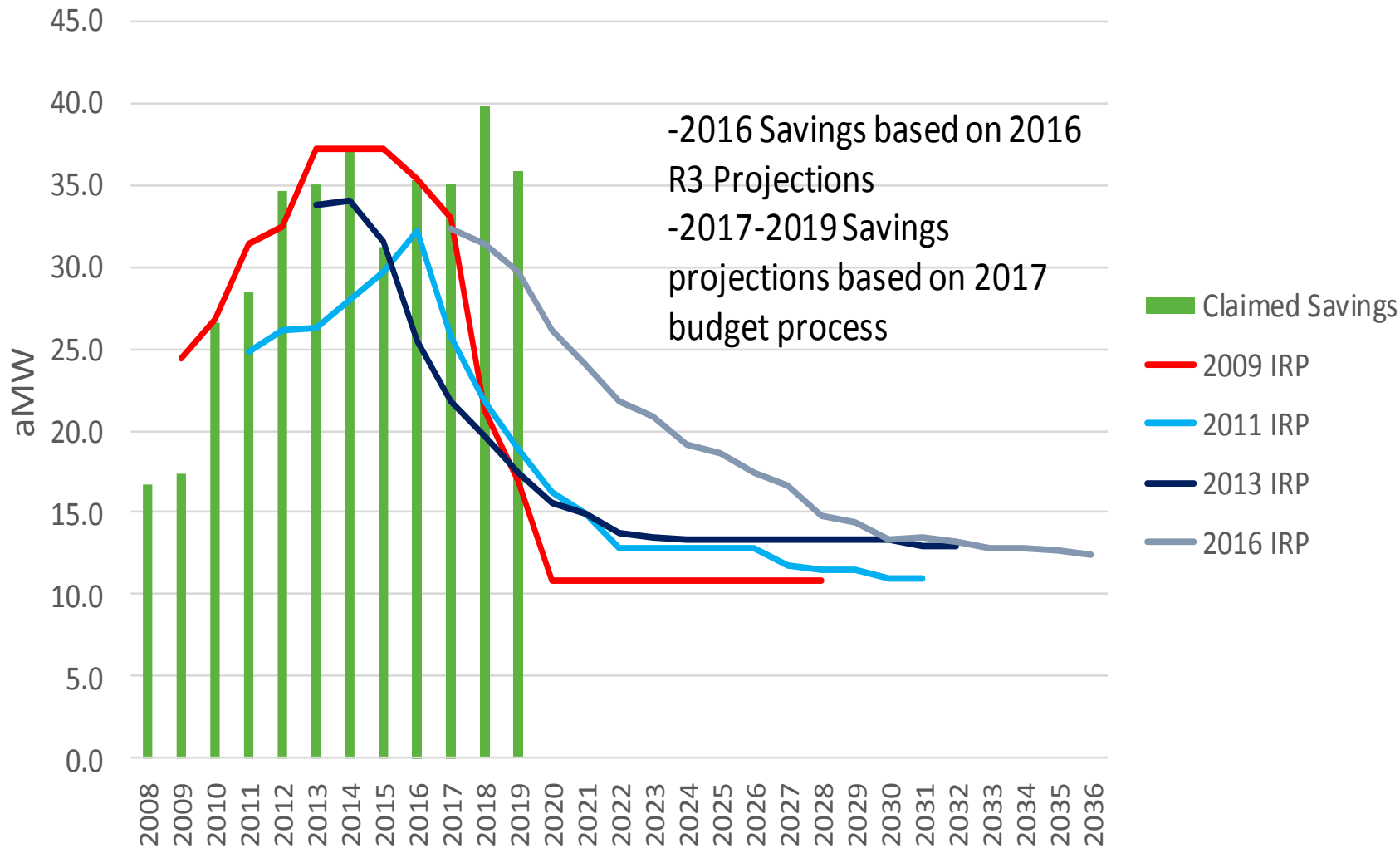
# Increased interest in clean energy as a resource and benefit

- Active policy landscape
- Finding the next opportunities
- Expanding participation, ensuring benefits for all
- Understanding potential and managing uncertainty in long-term energy planning



# Planning for the Future

PGE Energy Efficiency IRP Projections vs. Achieved Energy Trust Savings



# Strategic Initiatives and Discussions

- Assessment of Energy Trust structure, readiness
- Budget review
- Diversity initiative
- Community and educational approaches
- Low-income
- Utility demand response + energy efficiency
- Distribution system planning
- Electric vehicles



# Vision for Energy Trust

## Flexible

able to provide value to  
multiple state and local efforts

## Reliable

recognized as a valuable  
asset to a greater variety  
of partners

## Diverse

representative of  
Oregon's population

## Resilient

able to thrive with change





# Thank You

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