

# Fall Trade Ally Forums November 2017



Trade Ally Forums

November 2017



# **Budget and Action Plan Context**

- 4<sup>th</sup> year of strategic plan
- Oregon population diversifying, stakeholder interest growing
- Stable economy driving high activity in some program areas
- Changing policies, markets and technologies
- Cost-effectiveness challenges



# Program Areas of Emphasis



# 1) Diversify Participation

- Continue replacement pilot for older manufactured homes
- Identify and prioritize strategies to increase access to solar in lowincome communities
- Contract with community-based organizations to reach under-served communities in residential sector
- Drive forward organizational diversity, equity and inclusion strategies and activities



# Drive forward organizational diversity, equity and inclusion strategies and activities

- Adopt organizational diversity, equity and inclusion operations plan
- Propose board-level policy
- Establish specific goals across the organization
- Apply diversity, equity and inclusion lens to our internal operations and how we deliver programs
- Develop and deepen relationships with organizations that serve diverse customer groups
- Develop systems and process for demographic data collection and use



# 2) Enhance Program Methods and Strategies

- Utilize new, improved data resources in analysis and targeted marketing
- Leverage energy-related initiatives spearheaded by others
- Foster long-term relationships with business customers and support long-term project planning for communities
- Expand use of midstream and distributor engagement, and use of instant incentives

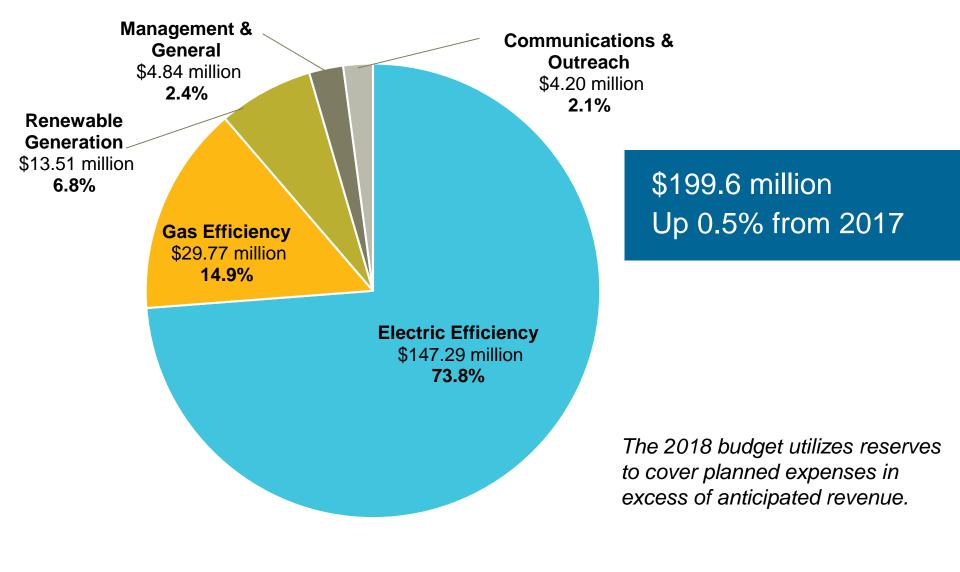


# 3) Manage Change and Prepare for Future

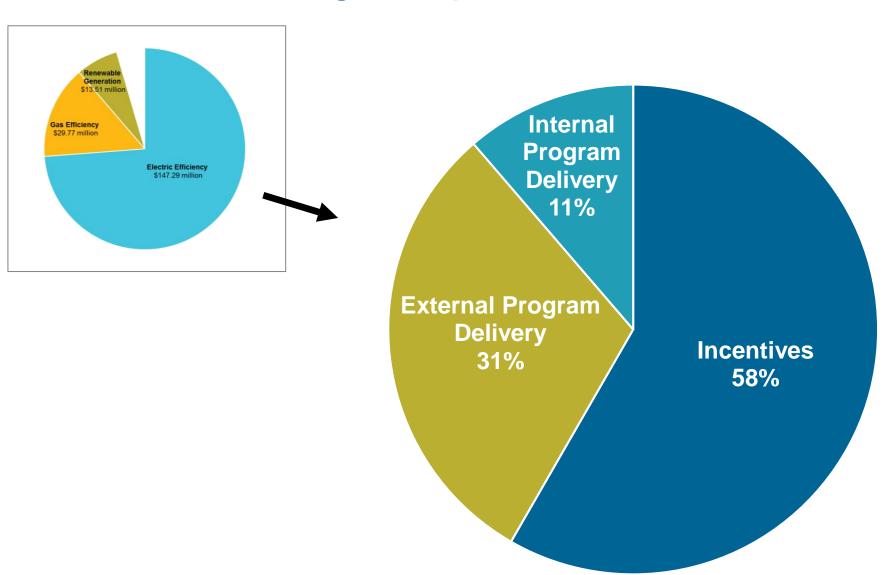
- Explore the energy efficiency and renewable energy nexus
- Adjust measure and program approaches due to changing policies
- Implement transitional strategies for key program areas (ex. solar, residential)
- Implement recommendations from internal Organizational Review and Budget Review Projects



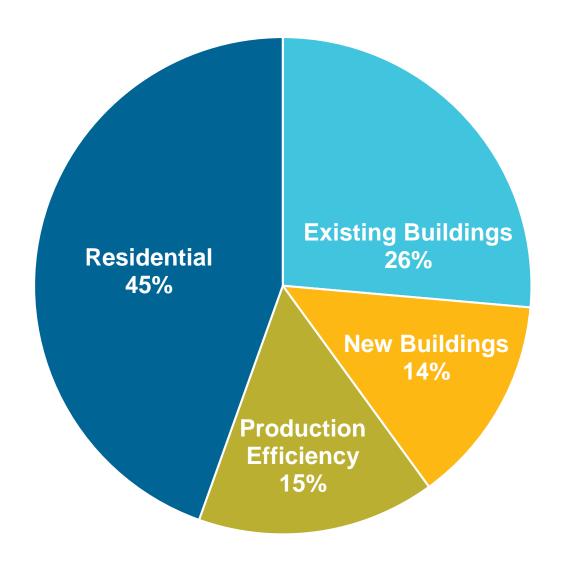
## 2018 Draft Budget Expenditures



# 2018 Draft Budget Expenditures Detail



## 2018 Natural Gas Savings by Program

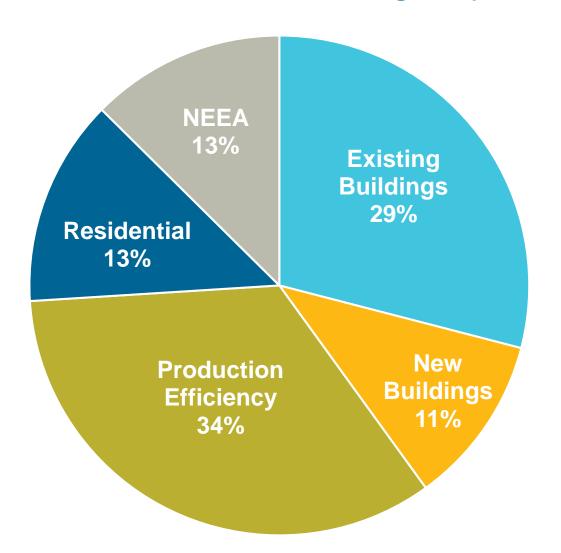


6.88 MMTh goal 33.5 cents/therm

- Savings down 7.2%
- \$31.2 million in total costs, including customer incentives, services and delivery

MMTh: million annual therms
Cost per therm is levelized

## 2018 Electric Savings by Program



# 56.52 aMW goal 3.0 cents/kWh

- Savings up 0.2%
- \$154.3 million in total costs, including customer incentives, services and delivery

aMW: average megawatts

Cost per kilowatt hour is levelized

## 2018 Renewable Energy Programs

	\$ Million	aMW
Solar	\$10.23	2.18
Other Renewables	\$3.91	0.00
Total	\$14.15	2.18

- Generation down 24%
- \$14.15 million in total costs, including customer incentives, services and delivery
- Other Renewables expenditures include:
  - Project development assistance payments for potential generation in future years (63%)
  - Staff, professional services, outreach and other allocated costs (37%)

## **Budget Outreach Schedule**

## October & November

#### December

Draft budget online, Nov. 1

Trade ally forums, Nov. 2-16

Recorded webinar online, Nov. 7

Board of Directors, Nov. 8

OPUC public meeting, Nov. 16

RAC/CAC updates, Nov. 17

Public comments due Nov. 17

Comments reviewed, final adjustments

Final proposed budget online, **Dec. 8** 

Board of Directors, **Dec. 15**, Action on Final Proposed 2018-19 Budget and Action Plan

+ www.energytrust.org/about/budget

Send comments to info@energytrust.org

#### Discussion and Feedback

- What questions do you have?
- What information needs clarification?
- Other feedback?
  - + www.energytrust.org/about/budget Send comments to <u>info@energytrust.org</u>
  - + Comments due November 17



# 1.866.368.7878





#### What is a cost-effectiveness test?

- It's a Benefit/Cost Ratio (BCR) calculation that provides a Yes/No decision on whether an investment's benefits exceed its costs
  - Benefits must be greater than or equal to Costs over the life of the measure
- Per direction from OPUC, Energy Trust uses the Total Resource Cost Test and Utility Cost Test
  - Required to apply test at measure level (custom, prescriptive) and in annual report at program level

# Total Resource Cost Test (TRC)

Will the total costs of energy in the utility service territory decrease?

#### **Benefits**

- Energy-related avoided costs
- Non-energy benefits to consumer & utility service territory (when quantifiable)

#### Costs

- Total <u>measure</u> cost (utility plus participant cost including installation, if applicable)
- Tax credits (deducted)
- Program management and administrative costs (annual reporting only)

# **Utility Cost Test (UCT)**

Is the utility cost of energy less?

#### Benefits

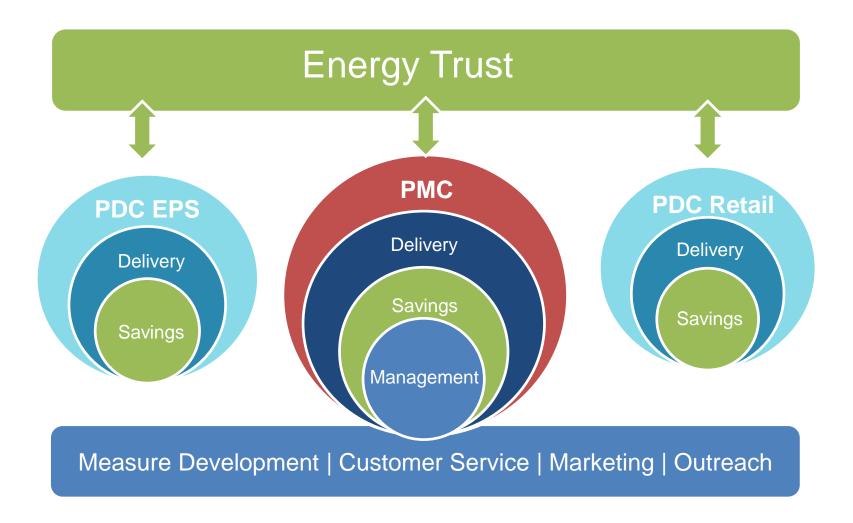
**Costs** 

Energy-related avoided costs

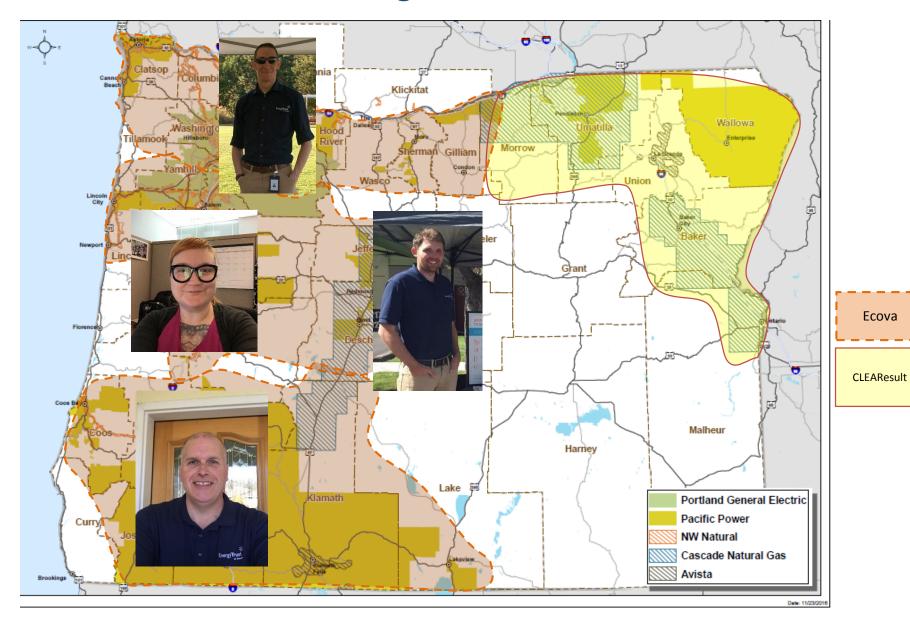
- Utility cost (Incentive)
- Program management and administrative costs (annual reporting only)

# Residential Structure

# 2018 Residential Program

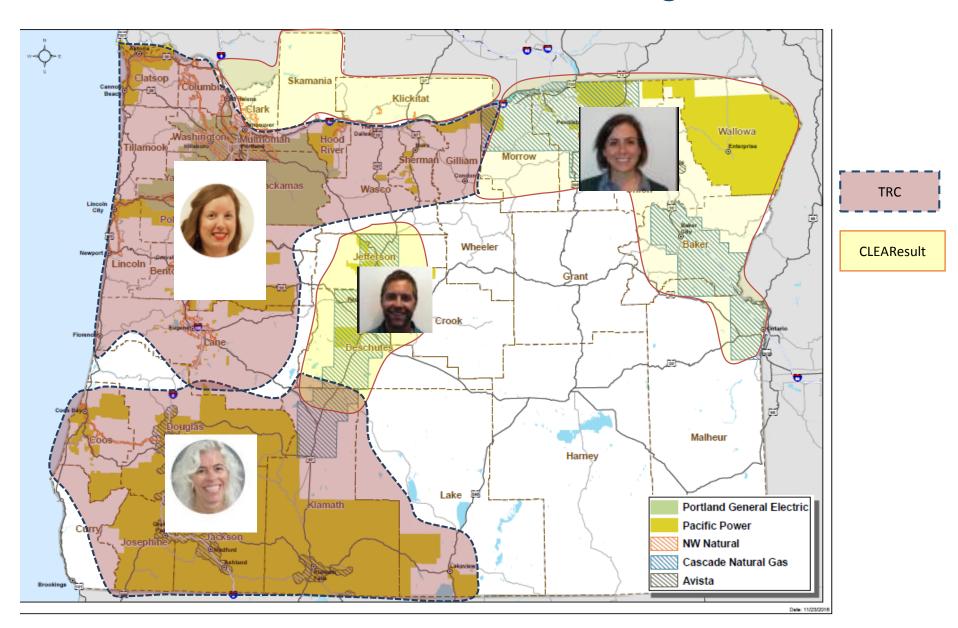


# Retail Field Coverage



Ecova

# **EPS Whole-Home Field Coverage**





Kyle Kent Regions I, 3, 7, 12





Caryn Appler Regions 10, 11



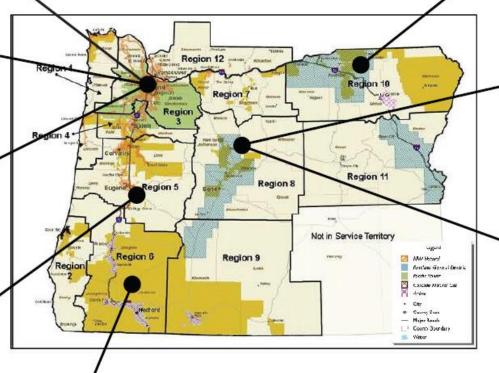
Eric Falk Regions 3, 7, 12



Adam Reese Regions I, 3, 7



Rick Flacco Regions 1, 4, 5



Mike Lillesand Regions 8, 9 Field Supervisor



Mike McMillan Regions 8, 9



Daniel Pierce Regions 2, 6, 9



Cameron Welch Regions ALL



Shawn O'Neill Regions ALL

# 2018 Program Updates

# Factors Influencing 2018 Measures

- Updated avoided costs
- Oregon Residential Energy Tax Credit (RETC) expiration
- New codes and standards
- Expiring exceptions
- Changing market conditions (e.g., LEDs)



# Residential Measure Exceptions

Measure	Details	Status
Gas new manufactured home	ENERGY STAR® and Ecorated homes	Pending
EPS pathways in Oregon	Paths 1 & 2 electric Path 4 gas	Pending
Gas tank water heaters	ENERGY STAR gas non-condensing tank	Pending
Ductless heat pumps	Replacing zonal heat (single-family, multifamily)	Pending

# Residential Measure Changes

Measure	Change	Current incentive	New incentive
Market rate furnaces (Avista)	Market assessment	\$200	Sunset 03/31/2018
New Homes Individual equipment incentives	Streamlined	\$100-\$500	Incorporated into EPS
EPS™ OR	Baseline reconfiguration	Variable	Variable



# Residential Measure Changes

Measure	Change	Current incentive	New incentive
A-lamp LED, Trade Ally Direct Install	Decreased incentives due to changing market conditions	\$9	\$5.50
Reflector LED, Trade Ally Direct Install	Decreased incentives due to changing market conditions	\$15	\$8.75



# Residential Measure Adjustments, Cont.

Measure	Change	Program	Current incentive	New incentive
Heat pump (replacing electric heat – eFAF or ER)	Reduced to 8.5 HSPF, simplify incentives, add multifamily	Residential/ multifamily (2-4 & side-by-side)	\$450-\$700	\$700
Heat pump (replacing heat pump)	Any efficiency, simplify incentives, controls on new heat pump	Residential/ multifamily (2-4 & side-by-side)	\$250-\$500	\$250
Heat pump advanced controls	Simplify incentives, increase incentives	Residential/ multifamily (2-4 & side-by-side)	\$150	\$250

# Residential Measure Adjustments, Cont.

Measure	Change	Program	Current incentive	New incentive
Heat pump (replacing electric heat – eFAF or ER) Savings Within Reach	Reduced HSPF, simplify incentives	Residential	\$750-\$1000	\$1000
Heat pump (replacing heat pump) Savings Within Reach	Changed requirements (financing available)	Residential	\$550-\$700	\$250
Gas water heater/ Heat pump water heater tier 1 & 2	Shifted to midstream 10/02/2017	Residential	\$100/\$150/ \$300 (downstream)	\$100/\$150/ \$300 (midstream)

# Heat Pump (replacing eFAF or ER)

2017 details	2018 details
\$450-\$700	\$700
<ul> <li>Two tiers HSPF 9.0 \$450, HSPF 9.5 \$700</li> <li>Replacing electric forced air furnace, wall heater or ceiling heat</li> </ul>	<ul> <li>Removed the two tiers, one minimum 8.5+ HSPF requirement</li> <li>Replacing electric forced air furnace, wall heater or ceiling heat</li> <li>Incentive for most installations in homes will be increasing in 2018</li> </ul>

# Heat Pump (replacing a heat pump)

2017 details	2018 details
\$250 - \$500	\$250
<ul> <li>Must be upgrading from an existing heat pump or replacing non-electric heat</li> <li>Tiered incentives with different HSPF requirements of 9.0 or 9.5</li> </ul>	<ul> <li>Projects must include an eligible thermostat programmed with a 35 degree lockout</li> <li>Must install heat pump with electric auxiliary heat</li> <li>Multi-fuel heating systems do not qualify</li> <li>No HSPF requirement</li> <li>Participants completing PTCS or Check Me projects are eligible as long as they meet the other requirements However, PTCS or Check Me are not required for eligibility</li> </ul>

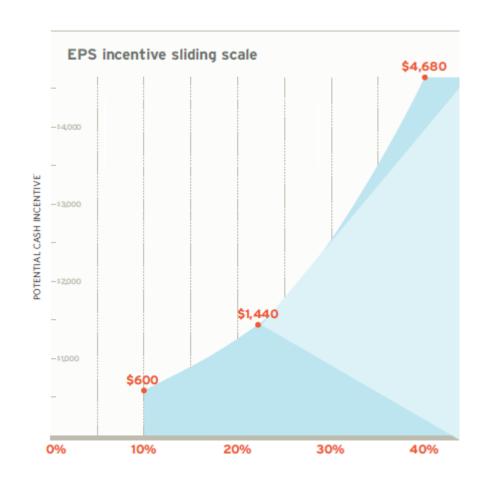
# 2018 EPS Whole Homes changes

- Updated 2017 ORSC adopted October 1, 2017
  - Increased envelop minimums
  - Measure option tables have been updated
  - All lighting required to be 100% high-efficacy
  - 100% low-flow showerheads and toilets required
- 2018 EPS whole home offer will be available for verifiers and builders on January 1, 2018
- Builders and verifiers will be required to submit homes under the new code April 1, 2017



#### 2018 EPS incentive structure

- Same incentive range (\$600 to \$4,680)
- Same verifier incentive structure
- Based on percent improvement above code



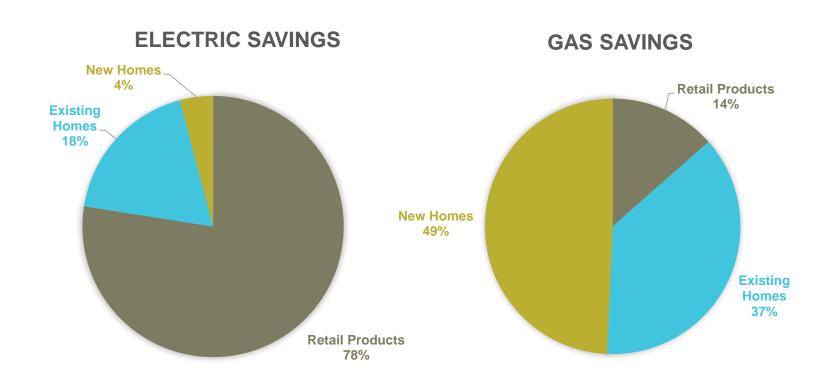
#### Other new construction measure changes

- Equipment incentives: discontinued
- Small multifamily: discontinued



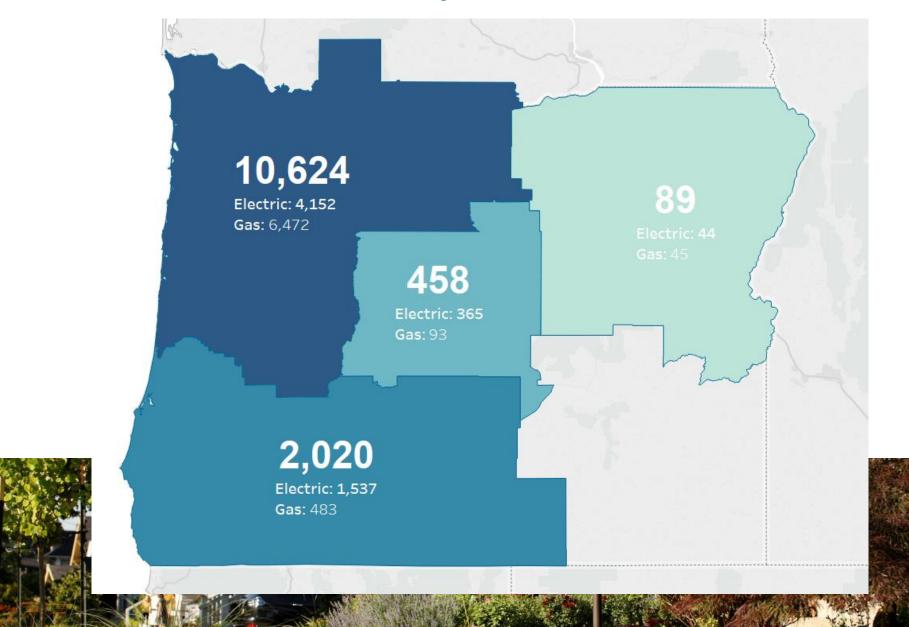
# Regional Impact

#### Residential Savings





#### Home Retrofit Project Count



## Southern Oregon

Rank	Electric Measure	Project Count	kWh Savings	% of total kWh savings for the region
1	Ductless heat pump	358	904,941	42%
2	Heat pump rep.	80	345,879	16%
3	Heat pump upgrade	259	322,450	15%
4	Commissioning	258	130,144	6%
Rank	Gas Measure	Project Count	Therm Savings	% of total therms savings for the region
Rank 1				
	Gas furnace	Count	Savings	savings for the region
1	Gas furnace Windows	Count 290	Savings 20,771	savings for the region 73%

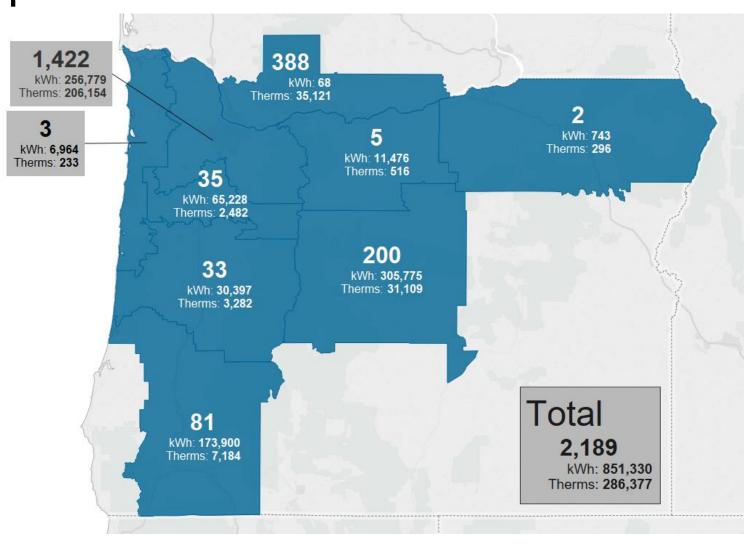


## Southern Oregon

Specialized Program Track	Trade Ally Enrollments
Savings within Reach	49
Instant Incentives	44
Trade Ally Direct Install	6
Savings within Reach On-Bill Repayment	19
Heat Pump On-Bill Repayment	7



# EPS Whole Home Regional Activity – Map



#### **EPS Whole Home Regional Activity**

Region	Quantity of Homes	kWh Savings	Therms Savings
Central	200	305,775	31,109
Columbia Basin	5	11,476	516
Mid-Willamette	35	65,228	2,482
North Coast	3	6,964	233
Northeast	2	743	296
Portland Metro	1,442	256,779	206,154
Southern	81	173,900	7,184
Southern Willamette	33	30,397	3,282
Southwest Washington	388	68	35,121
Total	2,189	851,330	286,377







#### Agenda

Multifamily Trade Ally Benefits

2018 Program Updates



#### Multifamily Trade Ally Benefits

- Multifamily-specific program updates
- Business development funds available for approved Multifamily marketing efforts
- Free listing in the "Find-a-contractor" search under Multifamily



## 2018 Program Updates

#### OPUC Measure Cost-Effectiveness Exception Requests

Measure	Details	Status
Ductless heat pump	Replacing zonal heat (single-family, multifamily)	Approved
Gas tank water heaters (2-4 plex and side-by-side structures)	ENERGY STAR gas non- condensing tank	Approved
Windows (stacked structures)	Single-pane replacement only	Approved

#### **Existing Multifamily New Incentives**

Measure	Change	Property types	New incentive
Heat pump advanced controls	New incentives; aligns with residential	Duplex, triplex, fourplex & side-by-side	\$250
Rooftop unit controls	New incentives	All property types	Varies by control type
Smart thermostats	Added June 2017	All property types	\$50
Tankless water heaters (199 kBtu/h or less)	Added June 2017	Stacked structures with 5+ units	\$300

#### Existing Multifamily Measure Adjustments

Measure	Change	Property types	Current incentive	New incentive
Ducted heat pumps	Reduced to 8.5 HSPF, no longer has to replace central AC; aligns with residential	Duplex, triplex, fourplex & side-by-side	\$450-\$700	\$700
Gas furnaces	New requirements; shifting to per kBtu/h incentive	Stacked structures with 5+ units	\$300	\$1.50- \$3.00/kBtu/h
Windows	Single-pane replacement only in 2018; phasing out double-pane replacement	Stacked structures with 5+ units	\$2/sq ft replacing double pane; \$3/sq ft replacing single pane	\$3 per sq ft replacing single pane; phasing out double-pane replacement

#### Measure Adjustments, Cont.

Measure	Change	Property types	Current incentive	New incentive
Gas wall and floor insulation	Removing gas \$150 cap & ceiling insulation requirement	Duplex, triplex, fourplex & side-by-side	\$0.30/SF, up to \$150 for gas customers	\$0.30/SF, no cap
Electric tank water heaters	New federal standards	All property types	\$35-\$75	Phasing out in 2018
Residential clothes washers	Added tub capacity requirement	All property types	\$120	\$120
Commercial clothes washers	Must be front- loading	All property types (must be in common area)	\$300	\$300

#### Heat Pump Requirements

Measure	Incentive	Requirements
Ducted Heat Pump	\$700	<ul> <li>Available for duplex, triplex, fourplex and side-by-side structures</li> <li>HSPF 8.5 or greater</li> <li>Replacing electric forced air furnace or resistance heat</li> </ul>
Heat Pump Advanced Controls	\$250	<ul> <li>Available for duplex, triplex, fourplex and side-by-side structures</li> <li>Eligible thermostat programmed with 35 degree lockout temperature</li> <li>May be installed on new or existing heat pumps with electric auxiliary heat</li> <li>Multi-fuel heating systems do not qualify</li> <li>No HSPF requirement</li> </ul>

#### Windows Incentive Updates

In stacked structures with 5 or more dwelling units, electric heat:

- Replacing single pane or storm windows unchanged in 2018
- Replacing double-pane must be installed by 12/31/2017
- Windows incentives in duplex, triplex, fourplex and side-byside structures unchanged

For double-pane replacement projects currently underway which cannot complete installation by 12/31/2017:

- Fill out Windows Deadline Extension Request form 320WR
  - request must be submitted no later than 12/31/2017
- Approved projects must be installed by 3/31/2018; paperwork must be submitted within 90 days of install
- Contact multifamily @energytrust.org for more information



#### Thank You

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