

Fall Trade Ally Forums November 2017



Trade Ally Forums

November 2017

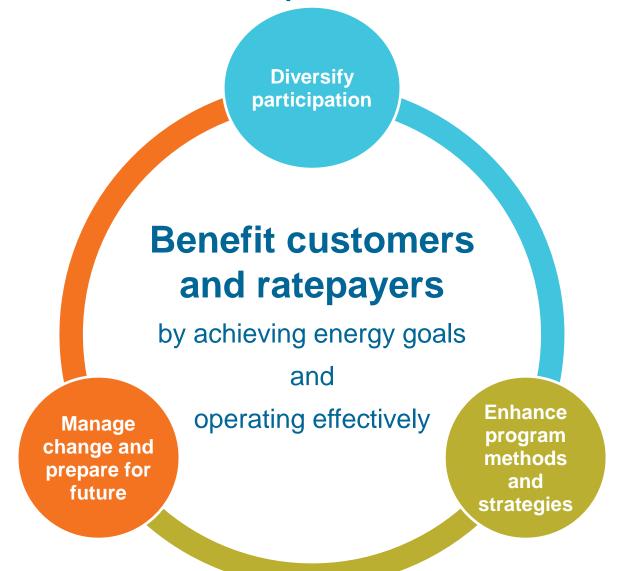


Budget and Action Plan Context

- 4th 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



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

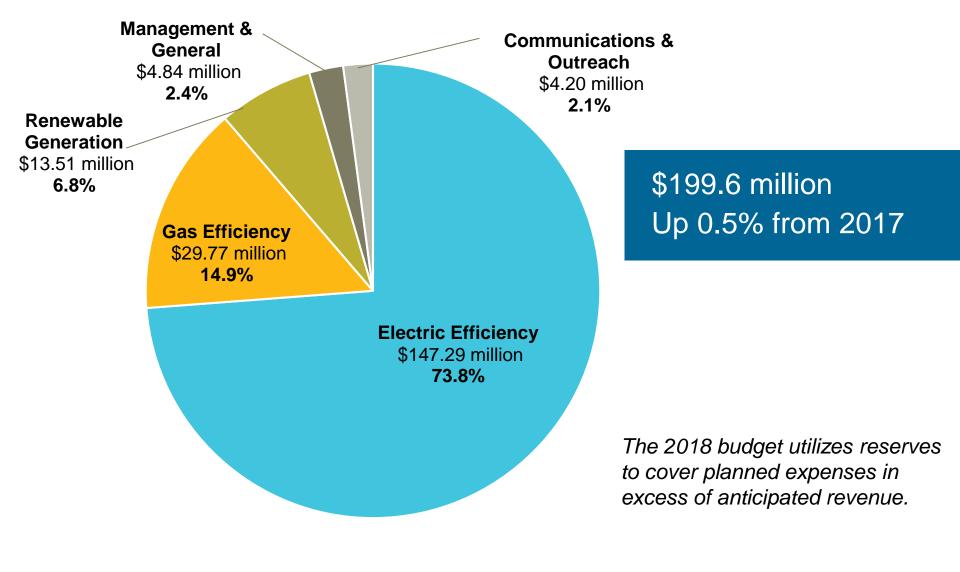


3) Manage Change and Prepare for Future

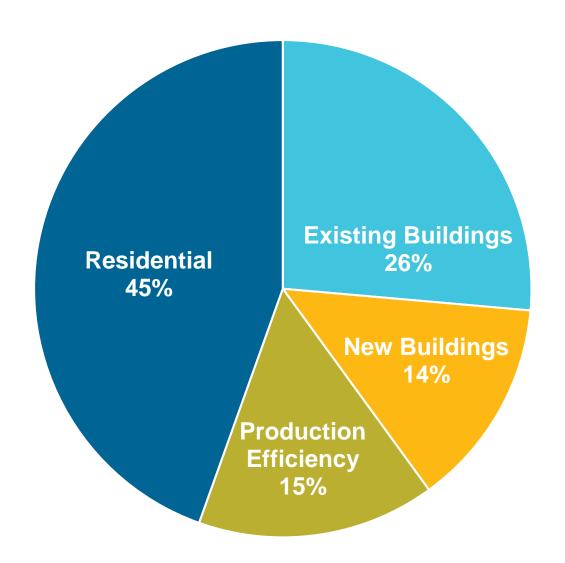
- Explore the energy efficiency and renewable energy nexus
- Adjust measure and program approaches due to changing policies
- Implement transitional strategies for key program areas (ex. solar, residential)
- Implement recommendations from internal Organizational Review and Budget Review Projects



2018 Draft Budget Expenditures



2018 Natural Gas Savings by Program

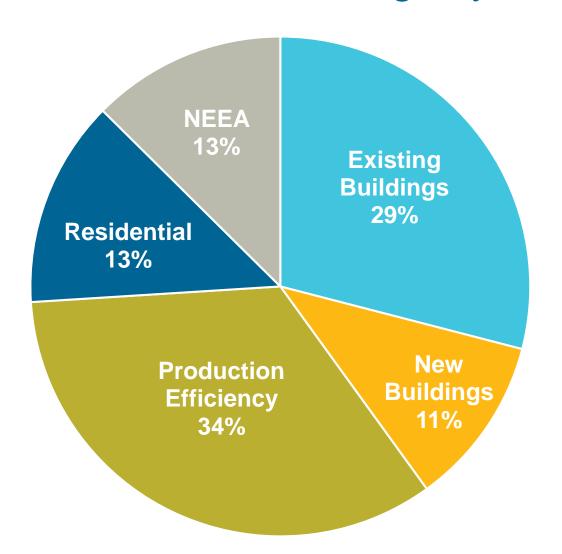


6.88 MMTh goal 33.5 cents/therm

- 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







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

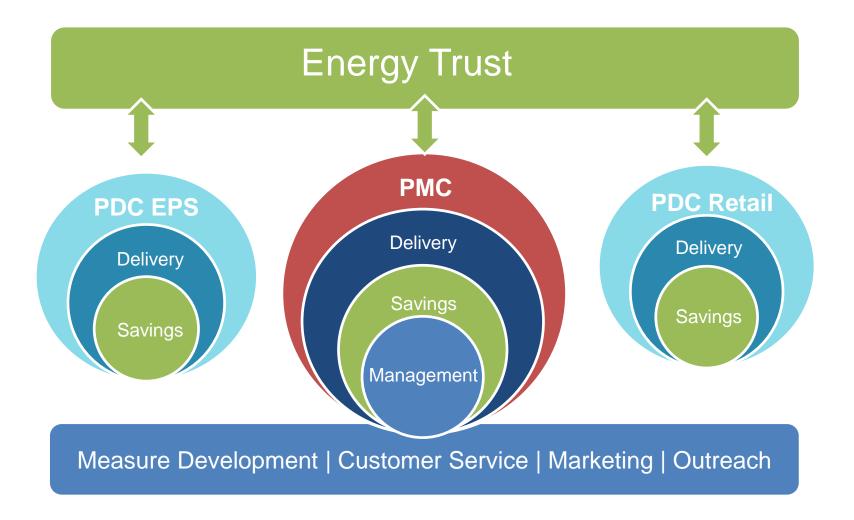
Costs

Energy-related avoided costs

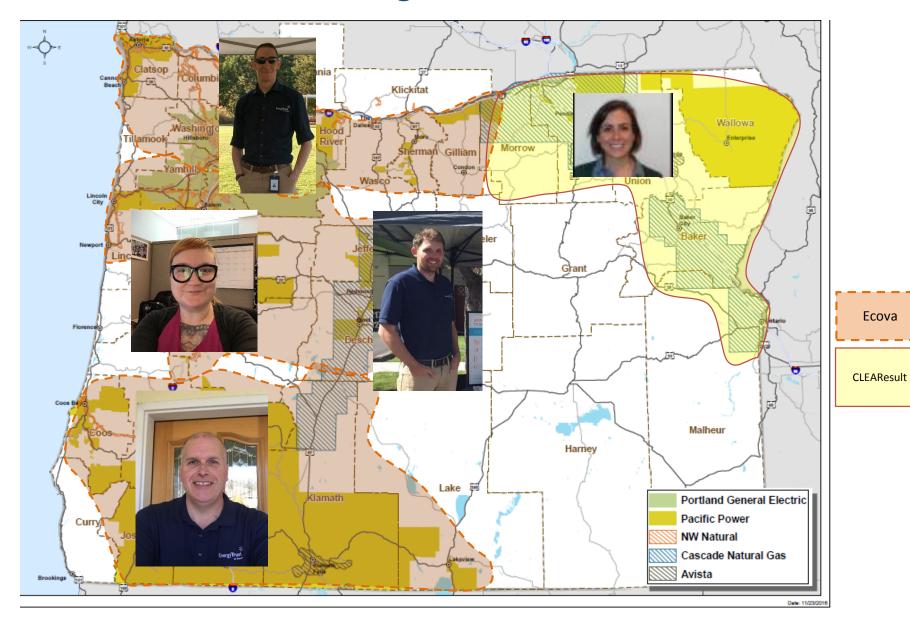
- Utility cost (Incentive)
- Program management and administrative costs (annual reporting only)

Residential Structure

2018 Residential Program

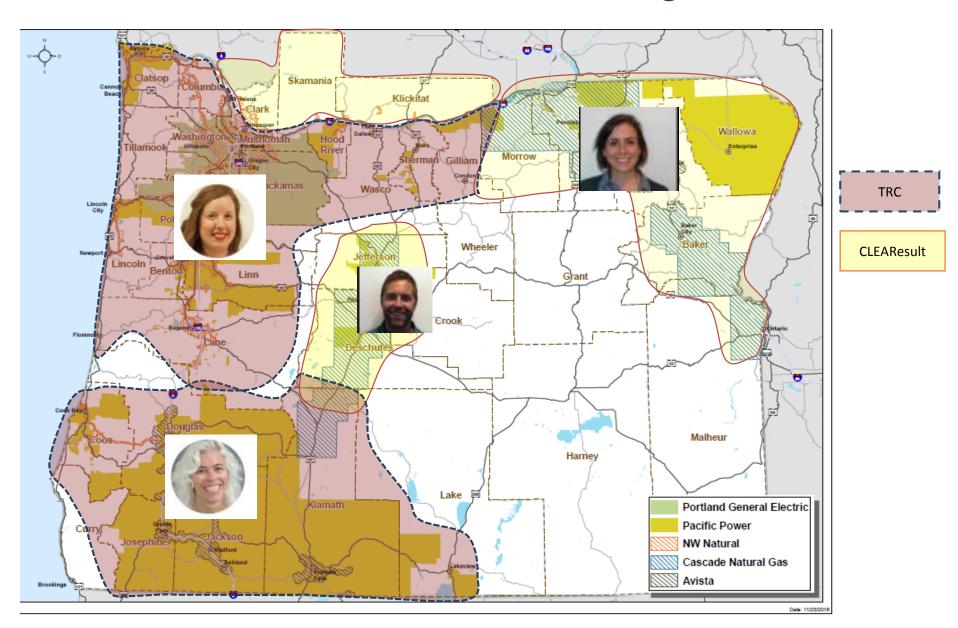


Retail Field Coverage



Ecova

EPS Whole-Home Field Coverage





Kyle Kent Regions I, 3, 7, 12





Caryn Appler Regions 10, 11



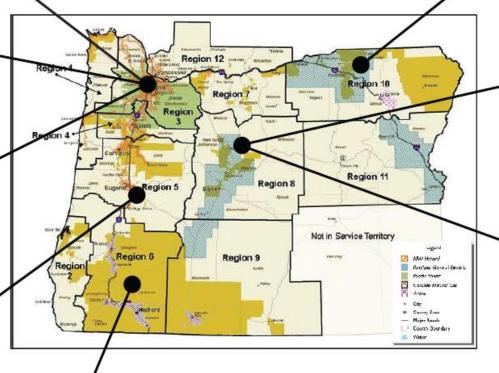
Eric Falk Regions 3, 7, 12



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 | Approved |
| EPS pathways in Oregon | Paths 1 & 2 electric Path 4 gas | Approved |
| Gas tank water heaters | ENERGY STAR gas non- condensing tank | Approved |
| Ductless heat pumps | Replacing zonal heat (single-family, multifamily) | Approved |

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

Heat Pump (replacing a heat pump)

| 2017 details | 2018 details |
|---|--|
| \$250 - \$500 | \$250 |
| Must be upgrading from an existing heat pump or replacing non-electric heat Tiered incentives with different HSPF requirements of 9.0 or 9.5 | Projects must include an eligible thermostat programmed with a 35 degree lockout Must install heat pump with electric auxiliary heat Multi-fuel heating systems do not qualify No HSPF requirement 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 |

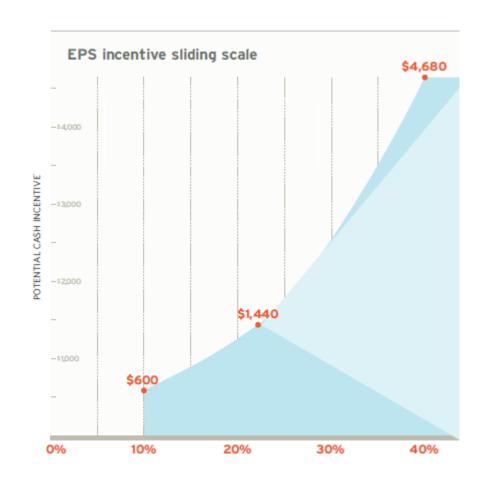
2018 EPS Whole Homes changes

- 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, 2018



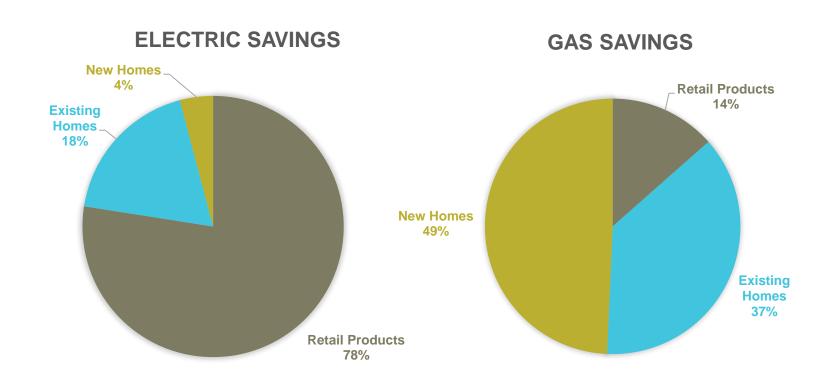
2018 EPS incentive structure

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



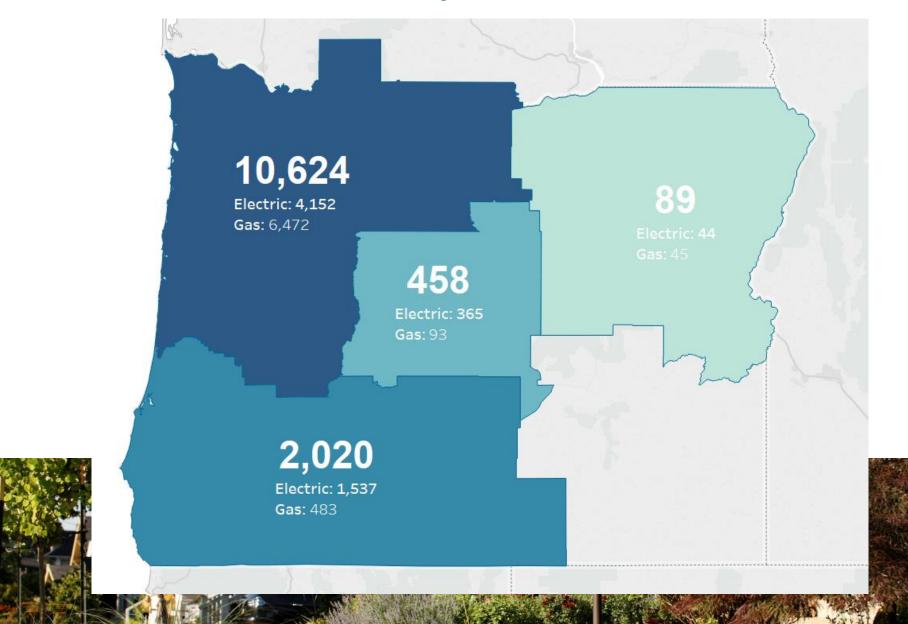
Regional Impact

Residential Savings

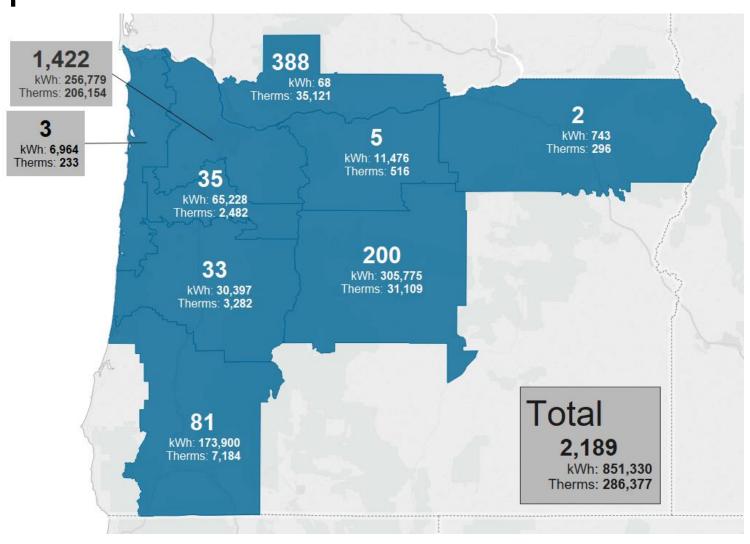




Home Retrofit Project Count



EPS Whole Home Regional Activity – Map



North Eastern Oregon

| Rank | Electric Measure | Project Count | kWh Savings | % of total kWh savings for the region |
|------|--------------------|------------------|----------------|---------------------------------------|
| 1 | Ductless heat pump | 14 | 38,169 | 49% |
| 2 | Heat pump upgrade | 8 | 10,967 | 14% |
| 3 | Heat pump rep. | 2 | 10,017 | 13% |
| 4 | Windows | 9 | 7,085 | 9% |

| Rank | Gas Measure | Project Count | Therm Savings | % of total therms savings for the region |
|------|--------------------|------------------|------------------|--|
| 1 | Windows | 23 | 853 | 35% |
| 2 | Gas furnace | 10 | 748 | 31% |
| 3 | Ceiling insulation | 6 | 493 | 20% |
| 4 | Gas fireplace | 6 | 342 | 14% |



Northeastern Oregon

| Specialized Program Track | Trade Ally Enrollments |
|--|------------------------|
| Savings Within Reach | 13 |
| Instant Incentives | 7 |
| Trade Ally Direct Install | 6 |
| Savings Within Reach On-Bill Repayment | 1 |







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



Already a trade ally and want to enroll in another program? If you are an existing trade ally, you can enroll in additional Energy Trust programs. Please enter your Energy Trust account number here. You will be asked to verify the email address associated with this account. NOTE: You will not be able to save your progress. Once a form is submitted, you will not be able to go back and change it. Account Number Don't know your account number? Commercial □ Commercial ○ Industrial Lighting (Addendum 171L)* Existing Buildings (Addendum 171B) ✓ Existing Multifamily (Addendum 371MF) New Buildings (Addendum 571A) □ Streamlined Industrial (Addendum 471A)

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, 5+ units, electric heat) | 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, electric heat | \$2/sq ft replacing double pane; \$3/sq ft replacing single pane | \$3 per sq ft replacing single pane; double-pane replacement not eligible |

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

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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