

Residential & Multifamily 2022 Program Updates



#### Agenda

- Residential & Small Multifamily Introduction
- Single-Family & Small Multifamily Incentive Updates
- Multifamily Incentive Updates

### Single-Family vs. Multifamily

- Single-Family
  - Detached single family homes
  - Manufactured homes

- Small Multifamily
  - Side-by-side properties (townhomes, rowhouses)
  - Duplex, triplex, fourplex
- Multifamily
  - Apartments or condos in stacked structures with five or more units
  - Assisted Living
  - Campus Living

Single-Family and Small Multifamily Requirements & Incentive Changes

# HVAC Minimum Efficiency Standards & Test Procedures

- New Federal Minimum Efficiency
- New Metrics: SEER2/EER2/HSPF2
- M1 Test procedure
  - More stringent
- Compliance based on date of manufacturer

Impacts to Energy Trust Requirements

Ducted and Ductless Heat Pumps

- Savings is generated from displacing electric resistance heat
- Minimum requirements are based on when units are manufactured in accordance with the following table

| Minimum product<br>efficiencies | Product<br>manufactured before<br>1/1/2023 | Product<br>manufactured after<br>1/1/2023 |
|---------------------------------|--|---|
| System Type                     | HSPF                                       | HSPF2                                     |
| Ductless                        | 9  | 8.55                                      |
| Ducted                          | 8.5  | 7.5                                       |

Impacts to Energy Trust Requirements

**Central Air Conditioning** 

- Updated Qualified Product List
- Minimum requirements are based on when units are manufactured in accordance with the following table

| Minimum product<br>efficiencies | Product manufactured before 1/1/2023 |     | Product ma<br>after 1 | nufactured<br>1/2023 |
|---------------------------------|--------------------------------------|-----|-----------------------|----------------------|
| Offer Type                      | SEER                                 | EER | SEER2                 | EER2                 |
| Central AC SEER<br>15           | 15                                   | 12  | 14.25                 | 11.4                 |
| Central AC SEER<br>16+          | 16+                                  | 12  | 15.2                  | 11.4                 |

### Cost-effectiveness tests: Benefit cost ratios (BCRs)

| Test                 | Total Resource Cost (TRC) Test   | Utility Cost Test (UCT)                        |
|----------------------|--|--|
| Purpose              | To determine if we can offer a measure or approve project                      | To determine range of incentives for a measure |
| Benefits             | Avoiding the use of more expensive<br>energy<br>Quantified non-energy benefits | Avoiding the use of more expensive energy      |
| Costs                | Incremental cost of measure compared to baseline                               | Incentives                                     |
| Measure<br>passes if | $\frac{\text{Benefits}}{\text{Costs}} \ge 1$                                   | $\frac{\text{Benefits}}{\text{Costs}} \ge 1$   |

#### Insulation in existing residential, small multifamily, and manufactured homes: Major exception request



Single-family and small multifamily homes with electric heated

- Wall and Floor insulation (from R0 R11) <u>do not pass TRC</u>
- Attic insulation passes TRC for all singlefamily and small multifamily applications



Existing manufactured homes insulation

- Added measure applications for 2023
- Floor and attic insulation for both fuels
   <u>do not pass TRC</u>



Very low percentage of program incentives and savings

- Approx. 1% of program savings for both Residential and Existing Multifamily
- Major exception request due to some TRC BCRs < 0.8</li>

#### Window upgrades – Single family and small multifamily homes: Major exception request



Influencing customers actively in the market for new windows

 Compares high efficiency windows to other windows products on the market (market baseline)



Lower savings, higher costs

- Exception is needed due to TRC between 0.3 0.6
- Decreasing percentage of program savings (1%) and incentives (3%)



Establish "best" class of high efficiency windows in the market

- Plan to remove lowest efficiency tier (uvalue .28 - .30)
- Lower all incentives within UCT

# Timeline for Oregon Single-Family and Small Multifamily OPUC Exception Requests

- Anticipate review by commission members in December 2022
- If approved by December 31, 2022
  - Updates to measures take effective January 1, 2023
- If <u>not</u> approved by December 31, 2022
  - Window incentives paused effective Jan 1, 2023
  - Insulation incentives for Wall & Floor in electrically heated homes paused effective Jan 1, 2023

### Windows Transition

- Projects sold on or before December 31<sup>st</sup>, 2022
  - Eligible for 2022 incentive structure

| Window Tier                  | Incentive            |
|------------------------------|----------------------|
| Tier 1 (.3028 u-value)       | \$1.75 / square foot |
| Tier 2 (.2725 u-value)       | \$4.00 / square foot |
| Tier 3 (.24 or less u-value) | \$6.00 / square foot |

- Project documentation must include a dated copy of the original signed contract
- Contractors must submit an incentive reservation request by project address prior to 1/30/2023 with required documentation

#### Windows Transition

- Projects sold on or after January 1, 2023
  - Proposed incentive offering requires OPUC approval
  - If approved, incentives can be retroactively applied to projects sold after Jan 1, 2023

| 2023 Window Tier                 | Proposed Incentive   |
|----------------------------------|----------------------|
| New Tier 1 (.2723 u-value)       | \$1.00 / square foot |
| New Tier 2 (.22 or less u-value) | \$1.60 / square foot |

• Windows Trade Ally Stakeholder Group Meeting – November 2022

#### Oregon Single Family & Small Multifamily Incentive Changes – Attic Insulation

| Upgrade          | Track           | 2022          | 2023         |
|------------------|-----------------|---------------|--------------|
| Attic Insulation | Market Rate     | *\$0.25 /sqft | \$1.25 /sqft |
|                  |                 |               |              |
| Attic Insulation | SWR & Rentals** | *\$0.50 /sqft | \$1.50 .sqft |

\*represents standard incentive prior to 2022 bonus

\*\* enhanced rental incentive not available in market rate multifamily properties

- \$1.25 /sqft bonus incentive run through end of 2022
- Higher incentives for SWR and Rental properties
- January 1, 2023 Starting condition increased to R18 or less

#### Oregon Single Family & Small Multifamily Incentive Changes – Wall & Floor Insulation

| Upgrade                               | Track          | 2022   | 2023   |
|---------------------------------------|----------------|--------|--------|
| Wall Insulation – Gas<br>Heated Homes | Market Rate    | \$0.30 | \$0.50 |
| Wall Insulation - Gas<br>Heated Homes | SWR & Rentals* | \$0.50 | \$0.75 |

| Upgrade                                | Track          | 2022   | 2023   |
|--|----------------|--------|--------|
| Floor Insulation - Gas<br>Heated Homes | Market Rate    | \$0.30 | \$0.50 |
| Floor Insulation - Gas<br>Heated Homes | SWR & Rentals* | \$0.40 | \$0.75 |

- No longer require Attic insulation to be performed along with wall and floor projects
- Projects in gas heated homes no longer capped at \$150 incentive

#### Oregon Single Family & Small Multifamily Incentive Changes – Wall & Floor Insulation

| Upgrade  | Track                | 2022                  | 2023                  |
|--|----------------------|-----------------------|-----------------------|
| Wall Insulation –<br>Electrically Heated Homes             | Market Rate          | \$0.30                | \$0.50                |
| Wall Insulation -<br>Electrically Heated Homes             | SWR & Rentals*       | \$0.50                | \$0.75                |
|  |                      |                       |                       |
| Upgrade  | Track                | 2022                  | 2023                  |
| Upgrade<br>Floor Insulation -<br>Electrically Heated Homes | Track<br>Market Rate | <b>2022</b><br>\$0.30 | <b>2023</b><br>\$0.50 |

- Proposed incentive structure requires OPUC approval
- If approved incentives can be retroactively applied to project sold after Jan 1, 2023

#### Oregon Single Family & Small Multifamily Incentive Changes

| Upgrade     | Track                                 | 2022  | 2023    |
|-------------|---------------------------------------|-------|---------|
| Gas Furnace | Savings Within<br>Reach (SWR)         | \$550 | \$1,000 |
| Gas Furnace | Rental Properties                     | \$550 | \$1,000 |
| Gas Furnace | Multifamily Market<br>Rate Properties | \$550 | \$1,000 |

- Bonus incentives run through end of 2022
- \$1,000 incentive in 2023

#### Washington Single Family & Small Multifamily Incentive Changes

| Upgrade     | Track                    | 2022    | 2023    |
|-------------|--------------------------|---------|---------|
| Gas Furnace | Market Rate              | \$550   | \$650   |
| Gas Furnace | <b>Rental Properties</b> | \$1,000 | \$1,000 |

- Market Rate incentive increased to \$650
- No change to rental property incentive

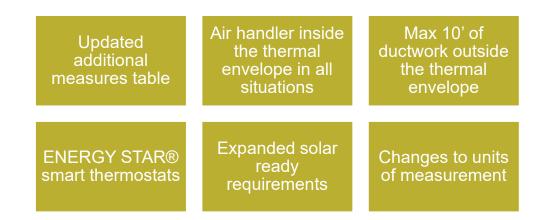
#### Washington Single Family & Small Multifamily Incentive Changes

| Upgrade          | Track         | 2022   | 2023   |
|------------------|---------------|--------|--------|
| Attic Insulation | Market Rate   | \$0.75 | \$1.25 |
| Attic Insulation | Rentals       | \$0.75 | \$1.25 |
|                  |               |        |        |
| Upgrade          | Track         | 2022   | 2023   |
| Wall Insulation  | Market Rate   | \$0.75 | \$1.25 |
| Wall Insulation  | SWR & Rentals | \$0.75 | \$1.25 |
|                  |               |        |        |
| Upgrade          | Track         | 2022   | 2023   |
| Floor Insulation | Market Rate   | \$0.75 | \$1.25 |
| Floor Insulation | SWR & Rentals | \$0.75 | \$1.25 |

- Increase to \$1.25 / sqft for all insulation measures
- Attic insulation starting condition increased to R18 or less

#### New Homes Program: Planning for New Codes

- Code development in progress in Oregon and Washington
  - Anticipating final WA code to become mandatory mid-2023
  - Anticipating final OR code to become mandatory early 2024
  - New Homes program typically updates baselines 6-9 months after code enforcement date
- Draft 2023 Oregon Residential Specialty Code measures:



#### Multifamily Incentive Updates: Oregon

### 2023 Multifamily Incentive Changes

| Upgrade   | 2022   | 2023 Change   |
|---|--|---|
| Multifamily Insulation<br>- Stacked structures 5+ units | Flat roof insulation available<br>Wall insulation not available<br>Starting attic insulation R-value<br>R-18                       | Flat roof insulation no longer available<br>Wall insulation now available<br>Starting attic insulation R-value R-11   |
| Multifamily Pipe Insulation                             | Hot water used for space heating<br>not allowed<br>Incentive at \$4/LF   | Hot water used for space heating now eligible Incentive increase to \$10/LF   |
| Multifamily Windows<br>- Stacked structures 5+ units    | Incentives:<br>• .30 or lower U-value: \$3/sq. ft.<br>Electric heat only<br>Replace single-pane or single-pane<br>and storm window | <ul> <li>Incentives increasing:</li> <li>.2330 U-value, single or double pane:<br/>\$8</li> <li>.22 or lower U-value, single or double<br/>pane: \$12</li> <li>Storm windows: \$4</li> <li>Gas-heated buildings now eligible</li> <li>Double-pane window replacements now<br/>eligible</li> </ul> |

### 2023 Multifamily Incentive Changes

| Upgrade   | 2022   | 2023 Change  |
|---|--|--|
| Gas Condensing<br>Tankless Water Heater<br>less than 200 kBtu/h                   | Minimum requirement 0.93<br>UEF  | Increase minimum requirement to 0.94 UEF   |
|   | Incentive \$300  | Decrease incentive to \$140  |
| Gas Condensing<br>Tankless Water Heater<br>greater than or equal to<br>200 kBtu/h | Not offered  | Minimum requirement 94% thermal efficiency Incentive added: \$1.40 kBtu/h  |
| Pool Heaters  | Covered pools and spas not<br>eligible<br>Incentive range: \$2.35/sq ft<br>indoor - \$3.50/sq ft outdoor | Pools with an existing cover now<br>eligible<br>New incentive range: \$0.90/sq ft<br>indoor - \$5.00/sq ft outdoor |

### 2023 Multifamily Incentive Changes

| Upgrade                           | 2022  | 2023 Change   |
|-----------------------------------|---|---|
| Multifamily<br>Condensing Boilers | Incentive \$8.50<br>kBtu/h<br>≥94% AFUE thermal<br>efficiency | Incentive decrease from \$8.50<br>to \$6.50 kBtu/h<br>Added requirement that<br>new/replacement boiler must<br>have a turndown ratio of 5:1 |
| Building Operator<br>Certificate  | Gas and electric-<br>heated properties<br>eligible            | Electric-heated properties no longer eligible   |

#### 2022 Multifamily Sunsetting Incentives: Oregon

| Offering                           | 2022 Incentive              | Sunset Date                                |
|------------------------------------|-----------------------------|--|
| Outdoor Hot Tub/Spa Cover          | \$100 per cover             | 12/31/2022                                 |
| Commercial Pool Pump               | \$230 per pump              | 12/31/2022                                 |
| Commercial Condensing Gas Furnaces | \$1.50-\$3.00 per<br>kBtu/h | Temporarily being removed after 12/31/2022 |
| Flat Roof Insulation               | \$0.30 per sq. ft.          | 12/31/2022                                 |

• Applications for sunsetting measures must be received by 3/31/2023

# Reminder! 2022 Multifamily bonus offerings: Oregon

| Offering                                   | Base<br>Incentive | Bonus          | Total incentive   |
|--|-------------------|----------------|-------------------|
| Steam Traps                                | \$100/trap        | +\$200/trap    | \$300 total/trap  |
| Thermostatic Radiator Valves               | \$100/valve       | +\$100/valve   | \$200 total/valve |
| Commercial Condensing Tank<br>Water Heater | \$3/kbtu/hr       | \$0.35/kbtu/hr | \$3.35/kbtu/hr    |

- Equipment must be purchased on or after March 1, 2022, and installed on or before December 1, 2022
- To receive a bonus incentive, Energy Trust must receive a complete incentive application within 90 days from the date of purchase and installation, and must be received no later than December 1, 2022 (whichever comes first)
- Energy Trust may require a post-installation verification for select projects before incentive payment
- Customers should use the standard incentive application forms to apply for the standard bonus and can expect to receive their check six to eight weeks after a completed application is received

#### Multifamily Incentive Updates: Washington

#### 2023 Multifamily Incentive Changes: SW Washington

- Changes to incentives for the Existing Buildings Multifamily program
   in SW WA are still underway and will be available very soon
- Finalized incentive changes will be communicated when available through direct outreach to trade allies and through the Insider

#### **IN ADDITION...**

- Final changes to multifamily incentives for OR and SW WA, as well as any incentive changes to the small business program, will be communicated during the annual Existing Buildings Trade Ally Forum
- Final date and time TBD and will be communicated through direct outreach to trade allies and through the insider

# Reminder! 2022 Multifamily bonus offerings: SW Washington

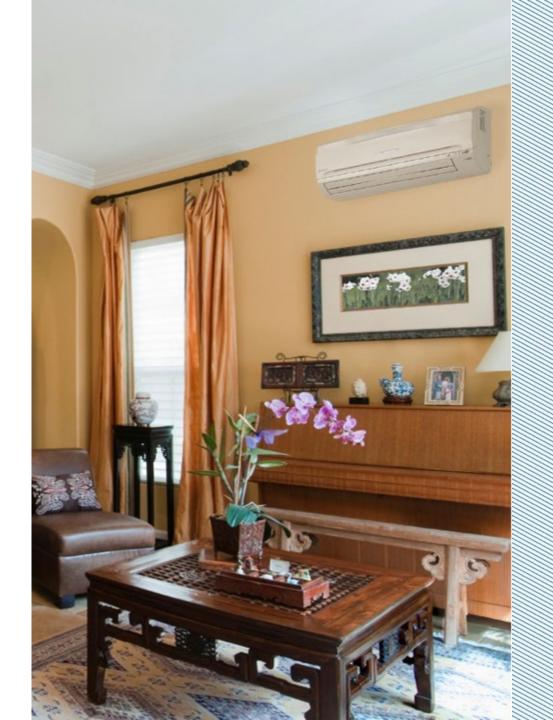
| Offering  | Base<br>Incentive | Bonus          | Total incentive   |
|---|-------------------|----------------|-------------------|
| Steam Traps                                       | \$100/trap        | +\$200/trap    | \$300 total/trap  |
| Thermostatic Radiator Valves                      | \$100/valve       | +\$100/valve   | \$200 total/valve |
| Gas Steam Cooker<br>(Assisted/Campus Living only) | \$2,000/cooker    | \$1,000/cooker | \$3,000/cooker    |

- Equipment must be purchased on or after March 1, 2022, and installed on or before December 1, 2022
- To receive a bonus incentive, Energy Trust must receive a complete incentive application within 90 days from the date of purchase and installation, and must be received no later than December 1, 2022 (whichever comes first)
- Energy Trust may require a post-installation verification for select projects before incentive payment
- Customers should use the standard incentive application forms to apply for the standard bonus and can expect to receive their check six to eight weeks after a completed application is received

#### **Current Initiatives**

#### **DHP** in Rentals

- Available: July 1, 2022 August 31, 2023
- Incentive Amount: \$1,500
- Need signed Participation Agreement
- No price cap or sizing requirements
- Install 1:1 DHP in primary living space
- Must replace electric resistance heat
- Customers of Portland General Electric or Pacific Power in Oregon
- Housing type
  - Existing site-built Single-Family Home Rental Property or
  - Existing **Small Multifamily Property**: duplex, triplex, fourplex, or side-by-side townhome/rowhome





#### Thank you

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