

Residential & Multifamily 2024 Program Updates

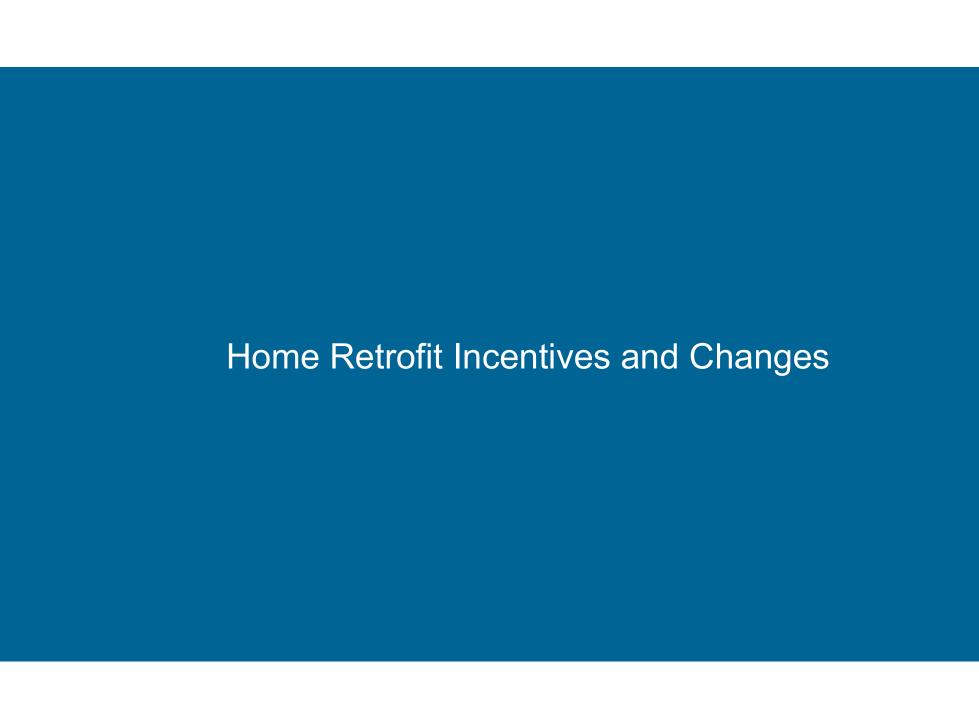


Agenda

- Residential Incentive Changes
- Ductless Heat Pump Billing Analysis Results
- Residential Market Trends
- Community Partner Funding Updates
- Incentive Processing & Quality Assurance Updates
- Resources for Contractors
- Multifamily Incentive Changes

Property Types

Residential	Small Multifamily	Large Multifamily
Detached single-family homes	Side-by-side (townhomes, rowhouses)	Apartments or condos in stacked structures with five or more units
Manufactured homes	Duplexes, triplexes, fourplexes	Assisted living, campus living, etc.



Residential Incentives

- Incentives, Program Incentive Guide (AKA the PI Sheet),
 Specifications Manual, and Qualified Products Lists (QPL) are on the Insider page
 - o Main page of the Insider -> Forms on the right side -> Home Retrofit
 - o https://insider.energytrust.org/programs/home-retrofit/forms/

FORMS

For Home Retrofit

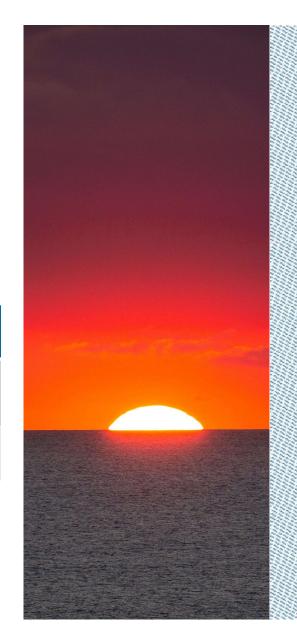
Program Incentive Guides

- Residential Program Incentive guide PI 320I (PDF)
- Residential Ductless and Ducted Heat Pump Program Incentive guide Pl 320I-HP (PDF)
- Enhanced CPF Windows Summary (PDF)

Incentive Offerings Sunset

 Energy Trust of Oregon's Residential program will discontinue central air conditioner (CAC) incentives for systems installed after December 31, 2024

Current Offers	Incentives 12/31/24 and Before	Incentives After 1/1/2025
Central AC SEER2 14.25 – 15.19	\$150	\$0
Central AC SEER2 15.20 or Greater	\$250	\$0



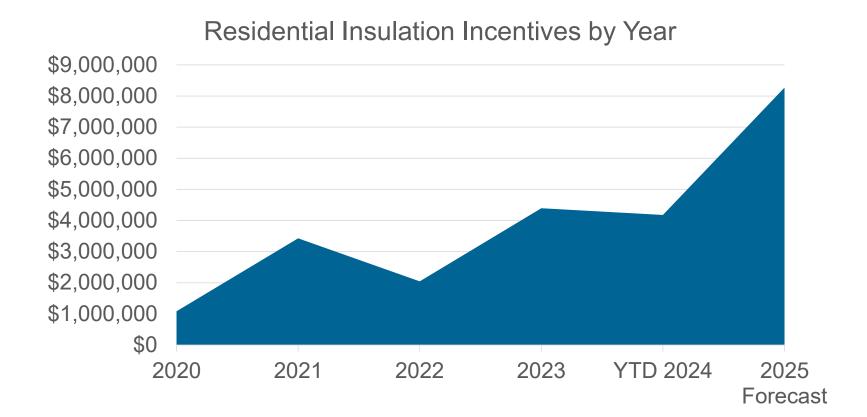
Insulation Incentive Increases

• Wall and Floor insulation incentives increased as of 10/1/24

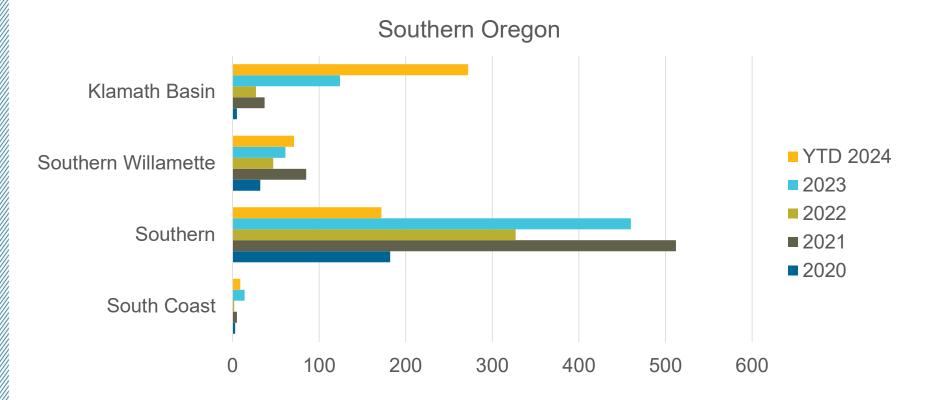
Standard Rate				
Insulation Type Incentives through 9/30/24 Incentives starting 10/1/24				
Attic	\$1.25	\$1.25		
Wall	\$0.50	\$1.50		
Floor	\$0.50	\$0.75		

Savings Within Reach			
Insulation Type	Incentives through 9/30/24	Incentives starting 10/1/24	
Attic	\$1.50	\$1.50	
Wall	\$0.75	\$2.25	
Floor	\$0.75	\$1.00 or \$1.25 (MH)	

Insulation Offers



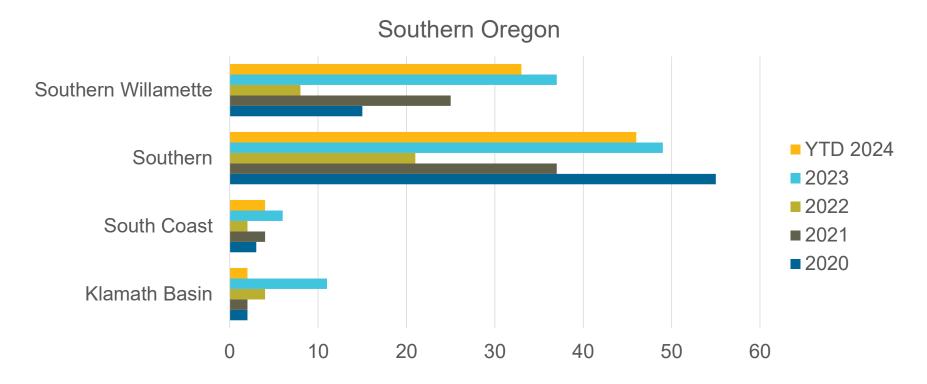
Ceiling Insulation Trends – Southern Oregon



 On average Energy Trust incentives cover 94% of a ceiling insulation project's cost in these regions

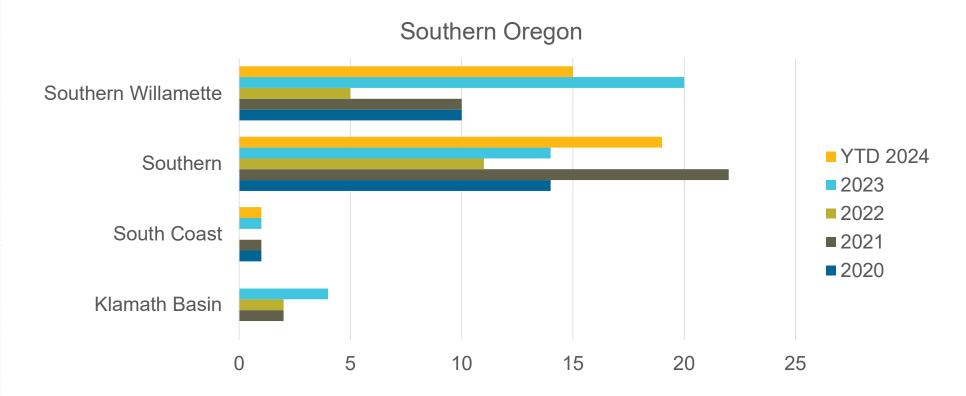
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Floor Insulation Trends – Southern Oregon



 On average Energy Trust incentives have covered 28% of a floor insulation project's cost in these regions

Wall Insulation Trends – Southern Oregon



 On average Energy Trust incentives have covered 36% of a wall insulation project's cost in these regions

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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 a project	To determine range of incentives for a measure
Benefits	Avoiding the use of more expensive energy Quantifiable non-energy benefits	Avoiding the use of more expensive energy
Costs	Incremental cost of measure compared to baseline	Incentives
Measure passes if	$\frac{\text{Benefits}}{\text{Costs}} \ge 1$	$\frac{\text{Benefits}}{\text{Costs}} \ge 1$

Single-Family Ductless Heat Pump – Billing Analysis

Compare energy usage from over 2,000 DHP project sites spanning 2020 to 2022

Analyze electric consumption a full year before and after DHP projects were installed

Compare results to homes of similar size and characteristics that had not installed a DHP



Results: On <u>average</u> single-family DHP projects are saving less electricity than expected

Expected savings were roughly 2,307 kWh per site

Evaluated savings were roughly 1,032 kWh per site

The cost of an average DHP project has also increased by over 30% from 2020 to 2024

Factors leading to lower DHP savings?

- Project installed secondary heads in previously un-conditioned or under-conditioned spaces (converted spaces or additions)
- Primary living space also had a secondary fuel source, such as a stove or fireplace, used more frequently than electric space heat
- Customer had poor understanding of how to operate the unit long recovery periods
- Customer had low electric usage prior to install living less comfortably

Single Family Ductless Heat Pump – Billing Analysis

- The results of this evaluation will impact what incentives can be offered in the future
- Must obtain a cost effectiveness exception from OPUC
 - Seeking OPUC feedback in January 2025
- Lower savings means lower incentives
- Increased data collection about project site conditions
 - Location and existing condition of all spaces where indoor units were installed (not just primary living space)
 - · Details of supplemental heating fuel use

Ductless Heat Pump – Support to improve savings

- Promotions / direct marketing
 - Targeted marketing to customers with higher energy usage per sq. ft.
- Customer education materials
 - Proper DHP operation to maintain comfort and maximize efficiency
- When to expect savings and when not to
 - Have open conversations with customers about how changes in behavior also impact their energy use
- Additional technical training
 - Cold climate technologies
 - · Mixed delivery systems
 - HVAC design

Q: What do you see with customers – when do they save energy or not? What is important to them?

Ductless Heat Pump – Offer Evolution

Now through March 2025

- Standard Incentives
- Savings Within Reach
- Offers for priority customers or housing stock

Launch of IRA and onward

- Stacking rebates
- IRA requirements
- Midstream incentives

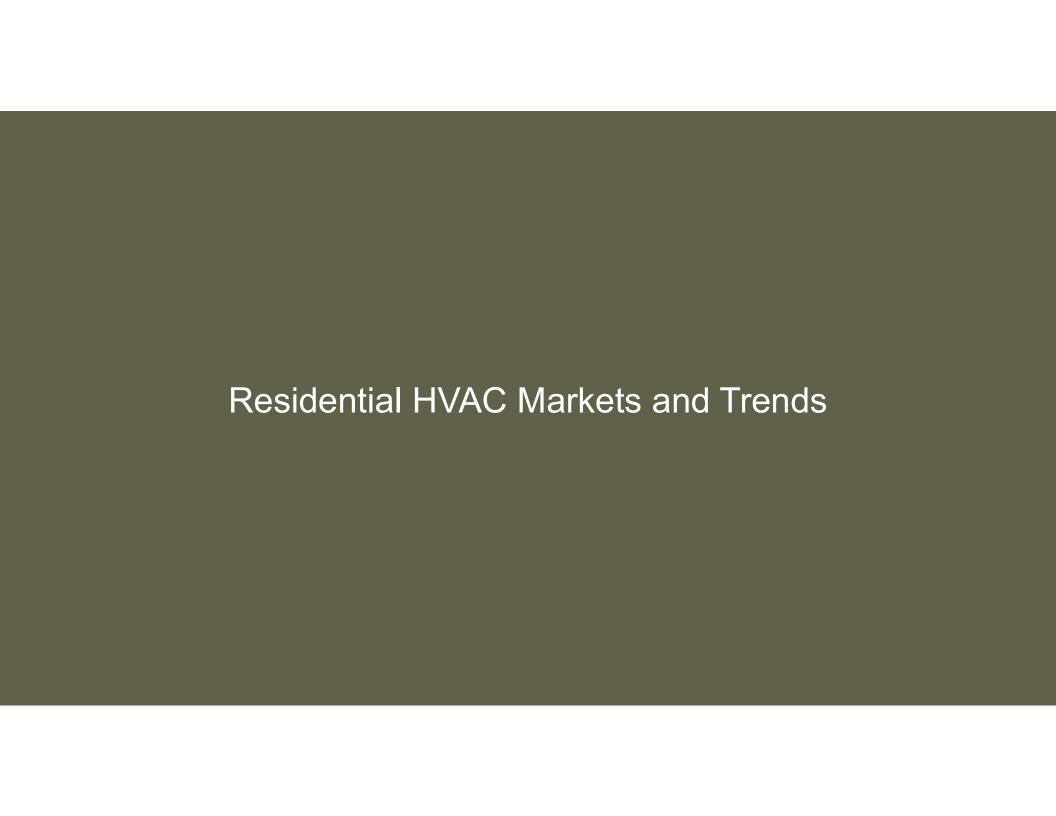






April 2025 through Launch of IRA programs

- Same offers
- Lower incentives
- Ask for more information about existing conditions



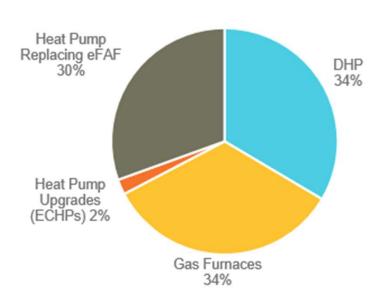
Statewide HVAC Trends

- Growing consumer demand for more efficient heating and cooling systems
- Extreme weather events in 2021 and 2022
- Businesses are restructuring operations through consolidation of services (e.g., combining heating/cooling, electrical and plumbing services, weatherization services)
- Community Based Organizations (CBOs) are becoming increasingly important partners in delivering energy-efficiency benefits and reducing carbon emissions to customers in their communities – especially those customers most in need
- HVAC equipment continues to go up in price, most recently with the refrigerant change
- Customers are asking for heat pumps installed with gas forced-air systems, and it's a trend we're
 interested in monitoring and learning from.

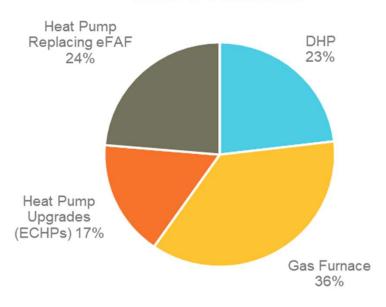
Q: What recent trends do you see in the market? What challenges and opportunities does your company experience?

Statewide HVAC Installation Trends

2020 Installations



2023 Installations



Heat Pump Water Heaters

- \$500 + incentive when purchasing a qualifying HPWH from a <u>participating distributor</u>.
- Airefco
- Budge McHugh Supply
- Consolidated Supply
- Ferguson
- General Pacific
- Gensco
- HD Supply
- · Keller Supply
- Mar-Hy
- Mesher Supply
- Pace Supply
- Plumbing Materials Supply
- Saffron Supply
- · Slakey Brothers
- Standard Supply





Community Partner Funding Updates

• Highest tier of incentives delivered through community-based organizations

Community Partner Funding	2022	2023	2024 (YTD)
CBO Incentives Paid	\$552,733	\$1,571,982	\$2,615,186
Customers Served	525	797	906
Home energy assessments	458	697	699
HVAC projects	159	227	264
Weatherization projects	109	152	326
Total community Partners	16	22	25



















NORTHWEST NATIVE CHAMBER

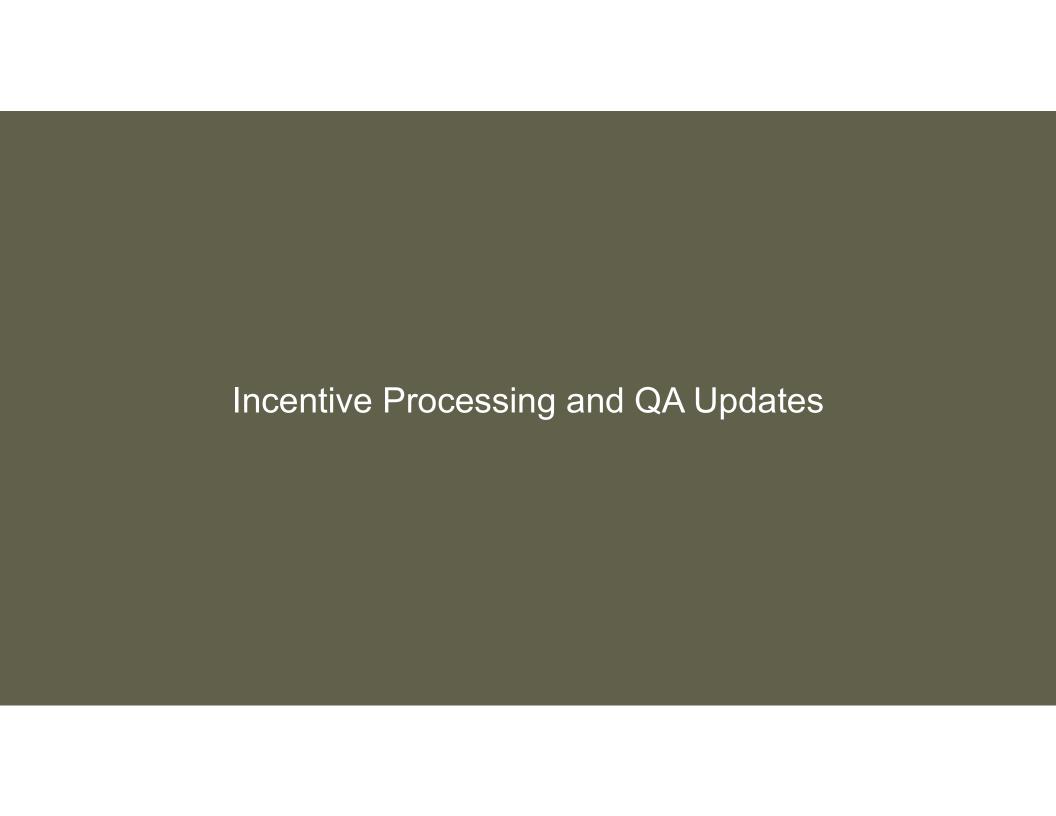


Portland Community Reinvestment Initiatives



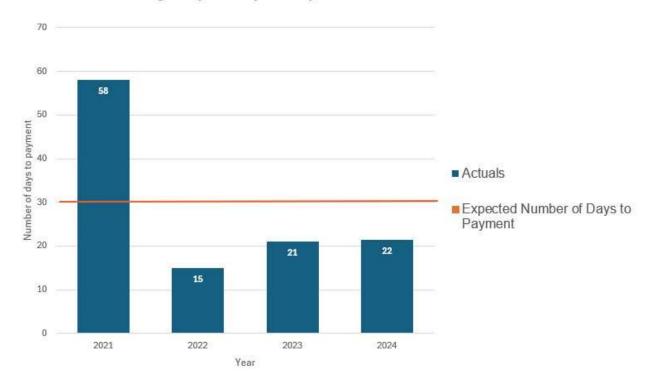


EUVALCREE



Incentive Processing Information

Average Days to Payment by Year



- 62% improvement in 2024 compared to 2021
- 145% increase in projects paid within 30 days in 2024 compared to 2021

Quality Assurance Processing Information



Work Quality Verification (WQV) holds payment!

To avoid WQV-related processing delays:

- Ensure your projects is eligible, review the 2024 Specifications Manual, and pull any jurisdictional permits necessary prior to installation of energy saving measures
- Inform customers that WQV is selected at random
- Reply to any WQV requests in a timely manner
- Schedule corrective action visits within five business days of notification
- Request a WQV with Energy Trust for the final installation day or site revisit

Common Quality Assurance Issues

- DHP DNQs (non-qualifying sites)
- Improper lockout controls for ducted heat pumps
- · Dams for attic insulation
- Missing water line insulation and missed floor penetrations (not sealed) for floor insulation





Ductless Heat Pump – with additional heating source	\$500	Must have an HSPF2 of 8.10 or greater as rated by the Air Conditioning, Heating & Refrigeration Institution (AHRInet.org) and replace electric zonal heat as the single-family home's primary heating system. Highest capac
Ductless Heat Pump Installed in a Rental Property ¹	\$1.800	indoor unit must be installed in the main living space (e.g., living room, great room). If replacing electric zonal heat, main living space allowed to have an additional non-electric heating source present. Mini-split systems with limited
Ductless Heat Pump (Savings Within Reach) ¹	31,000	ducting may be eligible, email residentialta@energytrust.org for review and approval. One incentive per residence. Only available to residences serviced by PGE and Pacific Power.
Ductless Heat Pump	\$1,000	Must have an HSPF2 of 8.10 or greater as rated by the Air Conditioning, Heating & Refrigeration Institution (AHRInet.org) and replace electric resistance heat as the residence's primary heating system. Highest capacity indoor head must be installed in the main living space (e.g., living room, great room). Main living space cannot have an additional non-electric heating source present. Mini-split systems with limited ducting may be eligible, email residentialta@energytrust.org for review and approval. Only available to residences serviced by PGE and Pacific Power.



Financing

- On-Bill Loan Repayment offer with Craft3 sunset in June 2024
- Puget Sound Community Credit Union has on-bill financing for Avista customers
- Energy Trust is exploring other financing partnerships

Q: What financing resources do you utilize with customers? What are you interested in seeing?

Avista On-Bill Loan Repayment

Financing through Puget Sound Community Credit Union

Changes planned for 1/1/25 for OR OBR and SWR OBR

Change	OR OBR	SWR OBR
Loan Limit increase from \$15,000 to \$30,000	X	X
Allow standalone financing for insulation	X	*
Financing smart thermostats with another eligible upgrade	X	X
Financing central air conditioners with an eligible gas furnace upgrade	X	X
Financing central air conditioners with an eligible gas furnace upgrade	X	X
Allowing additional equipment to be financed if paired with eligible upgrade	X	X

Q: What financing resources do you utilize with customers? What are you interested in seeing?

Tax Credit Best Practices

Energy Efficient Home Improvement Tax Credit

https://www.irs.gov/credits-deductions/energy-efficient-home-improvement-credit

Qualified Products – ECHP insider article

https://insider.energytrust.org/new-extended-capacity-heat-pump-qualification-procedure-training/

Best Practices

- · Reference manufacturer to determine which products are eligible
- Clearly document all model numbers
- AHRI # of the system installed
- Line item for Energy Trust/utility incentives
- Line item for "Total Project Cost After Incentives"
- Ensure you or the customer can look up those model number combinations
- Raise awareness of other energy upgrade tax credits (windows or insulation)

Opportunities for Professional Development

- Increasing training opportunities
 - Incentive processing
 - Technical Trainings
 - New Technologies and Tools
 - Installation Best Practices
 - Social Media Playbook
- https://insider.energytrust.org/training-calendar/
- Contractor Development Pathway (CDP)

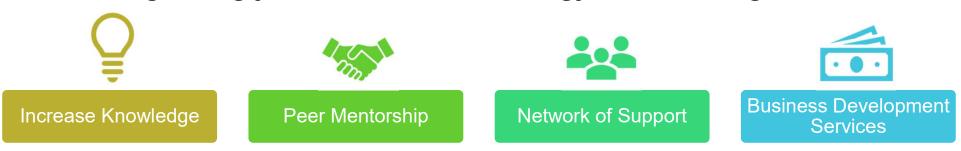






Introducing the Contractor Development Pathway!

Are you a diverse, rural, small business or new trade ally interested in growing your business with Energy Trust of Oregon?



Who Should Join?

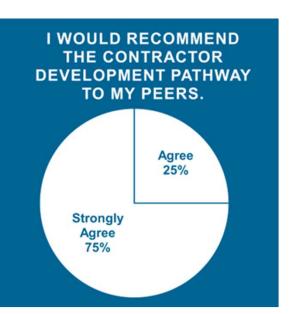
- Contractors in the Existing Buildings, Existing Multifamily and Home Retrofit Trade Ally Networks.
- Black, Indigenous, Latino/a/e, and person of color owned, woman-owned, veteran-owned and rural area contracting businesses are encouraged to apply.
- If you're passionate about energy efficiency and business growth, this pathway is for you!

Get started today! Learn more and apply at: insider.energytrust.org/CDP or email CDP@energytrust.org

CDP Trade Ally Feedback

"I found the **networking** particularly helpful - it was great to put faces to names and to understand a little more about what each person does."





"My mentor helped me grasp how energy trust incentives work. She also was very helpful in helping me understand key steps to help better my business."

"It was helpful to get more of an understanding of the HVAC industry through [my mentor] and expand my knowledge."



2023 Trade Ally Forums
Multifamily & Commercial Updates



Multifamily Agenda

- 2023 Program Savings & Incentives Paid (Final)
- 2024 Program Savings & Incentives Paid (*YTD)
- Sunsetting Measures
- New Measures in 2025
- Looking Ahead...

Property Types

Residential	Small Multifamily	Large Multifamily
Detached single-family homes	Side-by-side (townhomes, rowhouses)	Apartments or condos in stacked structures with five or more units
Manufactured homes	Duplexes, triplexes, fourplexes	Assisted living, campus living, etc.

2023 Savings and Incentives Paid: Thank you!

Utility	Goal	YTD Savings	YTD Pct to Goal
□ Electric	50,937,975	49,574,558	97%
PGE	33,441,211	32,777,519	98%
PAC	17,496,764	16,797,040	96%
□ Gas	2,278,555	2,461,810	108%
NWN	978,913	934,737	95%
NWN DSM	744,014	1,105,550	149%
NWN WA	169,245	183,197	108%
CNG	261,019	178,961	69%
AVI	113,893	59,299	52%
AVIINT	11,472	66	1%

Utility	Budget	YTD Incentives	YTD Pct to Budget
□ Electric	\$14,563,494	\$14,263,712	98%
PGE	\$9,027,503	\$8,644,967	96%
PAC	\$5,535,991	\$5,618,745	101%
□ Gas	\$7,138,309	\$7,522,322	105%
NWN	\$2,722,253	\$3,422,166	126%
NWN DSM	\$2,569,482	\$2,690,013	105%
NWN WA	\$688,951	\$557,907	81%
CNG	\$686,659	\$526,564	77%
AVI	\$401,824	\$325,408	81%
AVIINT	\$69,140	\$264	0%



2024 Savings and Incentives Paid: The road ahead!

Savings	YTD (*as of September)	Goal
Electric	26,617,196	74,336,464
Gas	1,092,454	2,493,161



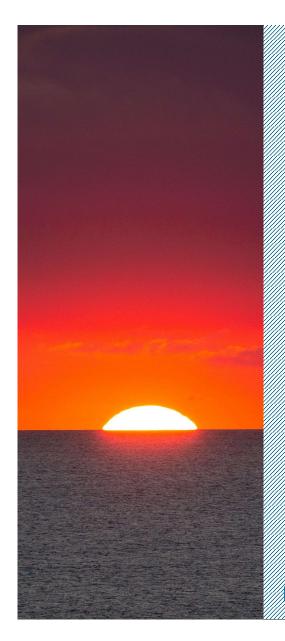
Sunsetting Measures: HVAC

- Rooftop Unit Controls
 - Commercial and Multifamily
- Garage Ventilation Controls
 - Commercial and Multifamily
- . Central Air Conditioning
 - Commercial and Multifamily
- VRF Air-Cooled Heat Pumps
 - 。Commercial and Multifamily



Sunsetting Measures: Foodservice

- Convection Ovens Electric Half-size
 - Commercial and Multifamily
- . Combination Ovens Electric (3-4 Pans)
 - Commercial and Multifamily
- . Gas Ovens in SW Washington
 - Commercial and Multifamily
 - 。 Combination Ovens
 - . Convection ovens
 - Single Rack Ovens
 - Double Rack Ovens





New Measures in 2025!

- . High Efficiency Fryers
 - . Gas and electric
 - Updated with a higher efficiency requirement than 2022
- Advanced Controls for Walk-in Coolers and Freezers
- . Gas Convection Ovens in Oregon
- . Gas and Electric Griddles in Oregon



New Measures in 2025!

- . Gas Combination Ovens in Oregon
- Under Counter Commercial Dishwashers
- Pot, Pan and Utensil Commercial Dishwashers
- Forced Circulation Generator Block Heaters

Additional changes and updates...



- . Other incentives to be added and/or updated
- . All updates for 2025 will be shared through Insider
- . Your trade ally coordinator will also be in touch!



Thank you!

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