NW OR & SW WA

Portland Breakout Housekeeping

- Breakout: 45 minutes
- Air Quality CEU conducted after the breakout
- To ask a question, unmute yourself, add it to the chat or raise your hand
- If you want to join another session, leave the room (bottom right screen) and the host can reassign you
- We can mute you, but only you may unmute yourself
- If you are dialing in on your phone only and want to mute or unmute yourself, press *6

NW OR & SW WA Agenda

- In-Depth 2021 Incentive Changes
- 2020 Opportunities and Performance
 - 0.24 Windows Tier
 - Manufactured Homes HP Promo
 - Rental Incentives
 - DHP in Rentals Promo
 - Increased Incentives for Select NW Natural Customers: Cottage Grove & Creswell
- Multifamily Program Updates
 - Expanding Participation in small multifamily
 - Multifamily Participation trends
 - Multifamily Market Snapshot
 - Oregon COVID Response
 - Residential Infill Project
- EPS New Construction
 - COVID Impacts on new homes
 - 2021 Cash Incentives
 - Early Design Assistance
 - Additional offerings in 2020
- Central AC AHRI Review

2021 Heat Pump Conversion Changes

Qualified Primary Heating Source Change:

Primary Heating Source	Cost Effective?	Qualified?	Requires Cut In's?
Electric Furnace	Yes	Qualified	No
Baseboard heat	No	Not Qualified	Yes (Increases Cost)
Wall/Ceiling Heat	No	Not Qualified	Yes (Increases Cost)

Requirement Addition:

 Auxiliary heat lockout must be completed on all Heat Pump Conversions

January 1, 2021 – March 31, 2021	April 1, 2021 – December 31, 2021
\$950	\$700

Heat Pump Advanced Control Changes

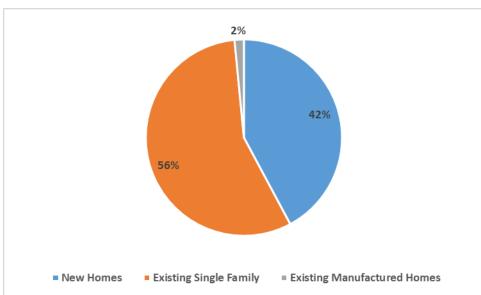
Install Scenario	Qualified?
Heat Pump replacing Heat Pump	Yes
Adding auxiliary lockout to existing heat pump	Yes
Heat pump conversion from electric furnace	No

 Heat Pump Advanced Controls may no longer be stacked with Heat Pump Conversions, as auxiliary lockout will be required for Heat Pump Conversions.

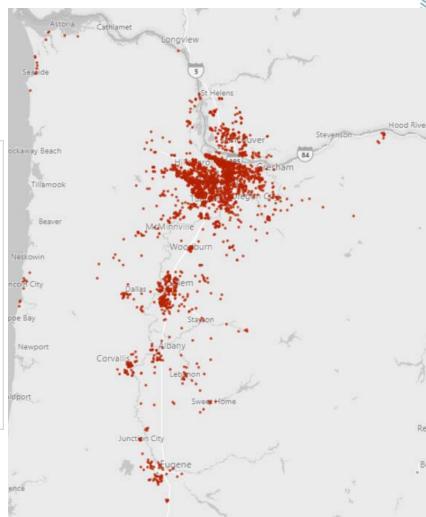
2020 Opportunity and Performance

Windows – NW OR & SW WA

New Windows Tier: \$6 in OR & WA



Majority of 0.24 windows are being installed in Existing Single Family



New 0.24 Windows Tier Install Map

Manufactured Homes Heat Pump Promotion

RFQ Open:

- October 16, 2020-November 16, 2020
- Home Retrofit Trade Allies
- \$2,500 for DHP, \$3,000 for HP in Manufactured Homes

Selection Criteria: 2021

- Pricing
- History of serving Manufactured Homes communities
- Ability to reach diverse customer base

Manufactured Homes Heat Pump Promotion – NW OR

- 2020 Regional Results
 - 17 DHP
 - 179 HP
- Statewide:
 - 91 DHP
 - 349 HP



Rental Incentives: Single-Family Homes

- Increased Incentives for Single-Family Rentals
- Trade Ally Requirements:
 - Enrolled in Instant Incentives
 - Talk to your account manager to enroll
- Customer Requirements:
 - Non-owner Occupied, single-family rental properties
 - Oregon & Washington

OR Rental Incentive Amounts: Single-Family

Upgrade	Rental Incentive	Incentive Timeline
Ductless Heat Pump	\$1,000	2021
Heat Pump	\$1,000	2021
Extended Capacity Heat Pump	\$1,650	2021
Gas Furnace	\$550 -\$1,000	Bonus through: March 31, 2021
Heat Pump Water Heater	\$270	2021
Smart Thermostat	\$100	2021
Attic Insulation	\$0.50-\$1.25 per square foot	Bonus through: March 31, 2021
Wall Insulation	\$0.50 per square foot	2021
Floor Insulation	\$0.40 per square foot	2021

^{*}Incentive availability and timeline subject to change

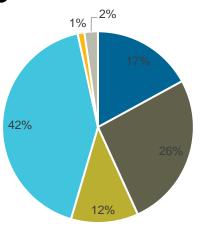
WA Rental Incentive Amounts: Single-Family

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Gas Furnace	\$550 \$1,000	Bonus through: March 31, 2021
Gas Tankless Water Heater	\$200 \$400	2021
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Attic Insulation	\$0.60 \$1.25 per square foot	Bonus through: March 31, 2021
Wall Insulation	\$0.60 \$0.75 per square foot	Bonus through: March 31, 2021
Floor Insulation	\$0.60 \$0.75 per square foot	Bonus through: March 31, 2021

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NW OR & SW WA Single-Family Rental Incentives

- NW OR and SW WA Single-Family Rentals: ~112,000
- Single-Family Rental Projects: 2,320



Ductless heat pump



Rental Installs 2015 - Today

Ceiling insulation

DHP in Rentals Promo

- RFQ Open: October 16, 2020 EO 2021
 - \$1,750 \$2,000 DHP Incentive
 - Non-Owner-Occupied Rentals
 - Single-Family Rentals and Small Multifamily Rentals
 - Price Capped offering; customer out of pocket cost max \$2,500
- Requirements
 - Home Retrofit or Multifamily Trade Ally
 - Enrolled in Home Retrofit Instant Incentives
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- 2020 participants will need to reapply via the 2021 RFQ.

Increased Incentives for Select NW Natural Customers: Cottage Grove & Creswell

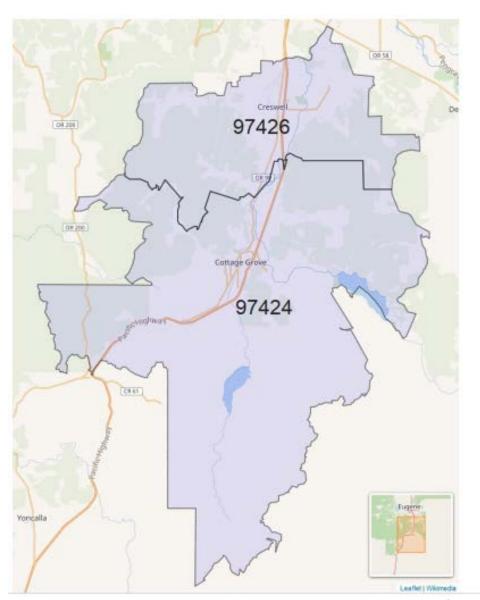
- Limited-time: increased incentives for NW Natural customers in Cottage Grove & Creswell through July 31, 2021
 - Gas Furnaces, windows, insulation
- Single-family, manufactured homes and small multifamily properties
- Application & details: <u>www.energytrust.org/nwnaturalpromo</u>
- To be listed as a preferred Local Trade Ally on the website, reach out to your account manager
- Standard incentives also available

Limited-Time Increased Incentive Amounts: Cottage Grove & Creswell – July 31, 2021

Upgrade	Increased Incentive Amount	Property Type
Gas furnace	\$1,000	 Single-Family Properties Single-Family Rental Properties Manufactured Homes Side-by-side duplex, triplex, fourplex, townhomes and rowhomes
Windows	\$8 per square foot	 Single-Family Properties Single-Family Rental Properties Manufactured Homes Side-by-side duplex, triplex, fourplex, townhomes and rowhomes
Wall insulation	\$0.95 per square foot	 Single-Family Properties Single-Family Rental Properties Side-by-side duplex, triplex, fourplex, townhomes and rowhomes
Attic insulation	\$1.25 per square foot	 Single-Family Properties Single-Family Rental Properties Side-by-side duplex, triplex, fourplex, townhomes and rowhomes
Floor insulation	\$0.70 per square foot	 Single-Family Properties Single-Family Rental Properties Manufactured Homes Side-by-side duplex, triplex, fourplex, townhomes

Eligibility Area

- NW Natural customers in Cottage Grove & Creswell
- Limited-time increased incentives through July 31, 2021
- www.energytrust.org /nwnaturalpromo



Multifamily Market Update

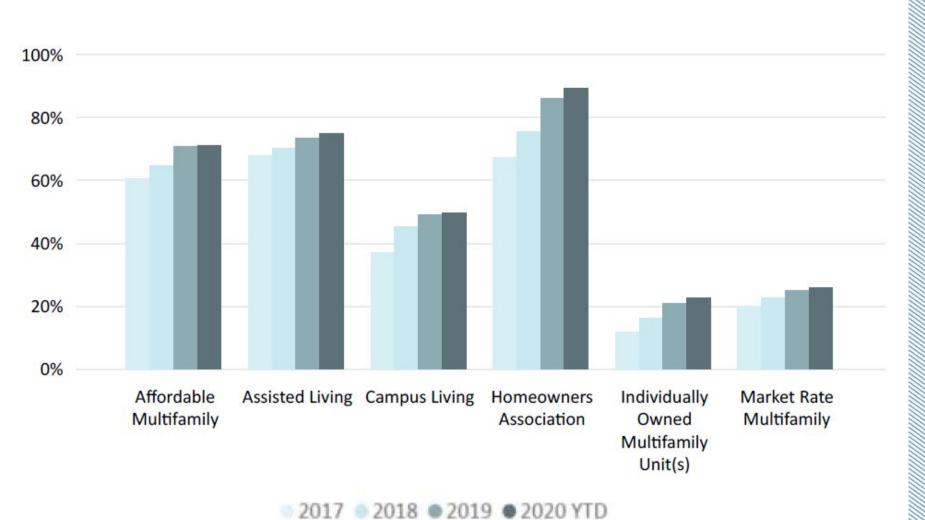
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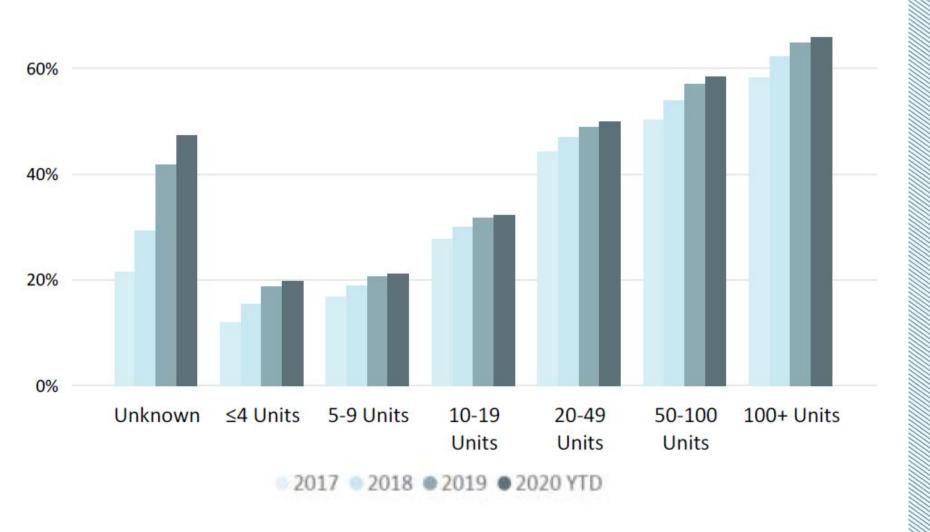
Multifamily participation trends

Percentage of total eligible multifamily market served by market type from 2017-2020



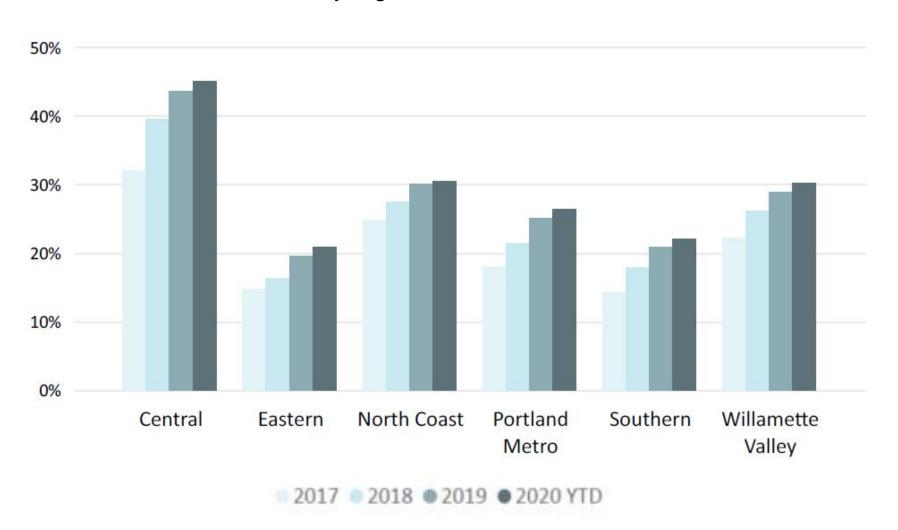
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Multifamily participation trends

Percentage of total eligible multifamily market served by region from 2017-2020



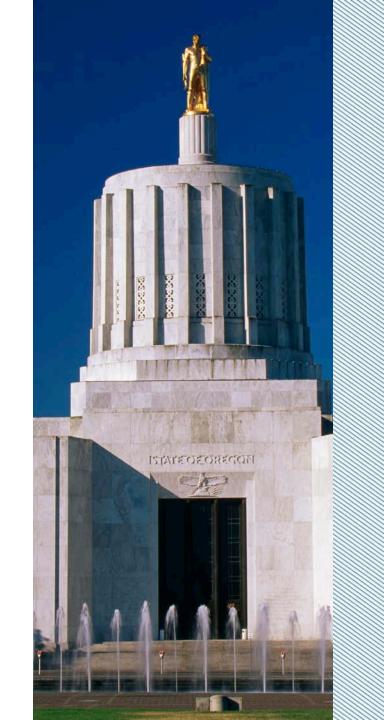
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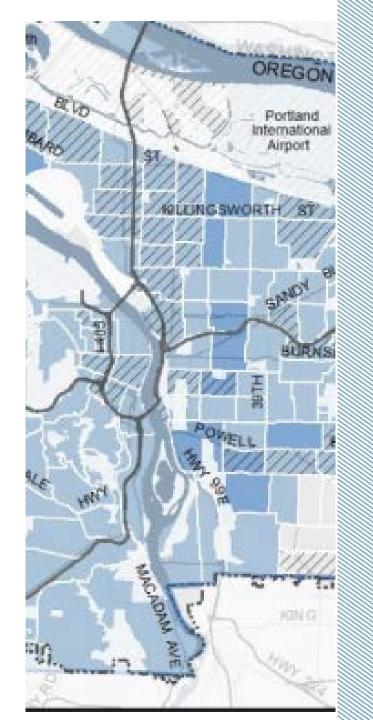
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EPS New ConstructionEnergy Trust of Oregon 2020



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Central AC AHRI Review

- Central Air Conditioner qualifications review
 - How to verify SEER compliance using Qualifying Products List (QPL)
 - How to verify EER compliance using AHRI
 - Ensuring application is accurate and complete

Equipment	Incentive	Requirements
Central air conditioner	\$250	Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater
		Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

- SEER Requirements
 - Verify <u>outdoor unit</u> meets 15 SEER requirement by referencing Energy Trust of Oregon Qualifying Products List

Requirements

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Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

 QPL may not include all qualifying units. Contact Energy Trust Residential team if a model appears to be missing.

Qualifying Central Air Conditioning Outdoor Units

Residential and Existing Multifamily Effective February 1, 2020



Models listed below are known to meet the manufacturer-listed minimum 15 SEER requirement and the minimum total system EER of 12 or greater for central air conditioning outdoor units. If you have questions about model eligibility or to verify eligibility of a model not found on this list, please contact us at residential@energytrust.org for single family homes and multifamily@energytrust.org for multifamily residences.

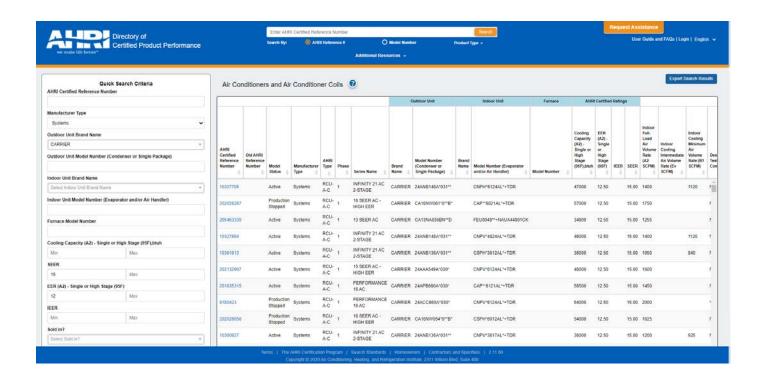
Manufacturer	Model Name	Model Number
American Standard	SILVER 16	4A7A6, 4A7L6
American Standard	GOLD 17	4A7C7, 4A7A7
American Standard	PLATINUM 18	4A7V8
American Standard	PLATINUM 20	4A7V0
Amana	AVXC20	AVXC20
Amana	ASXC18	ASXC18
Amana	ASXC16	ASXC16
Amana	ASX16	ASX16
Bryant	LEGACY	105A, 116B, 106A
Bryant	PREFERRED	126B, 126CNA, 127A
Bryant	EVOLUTION	186B, 187B, 187BNC, 180C, 180B, 189BNV
Carrier	COMFORT 15, COMFORT 16	24AAA5, 24ABC6, 24AAA6
Carrier	PERFORMANCE 16, PERFORMANCE 17	24APB6, 24ACC6, 24ACB7
Carrier	INFINITY 16, INFINITY 17, INFINITY 19, INFINITY 20, INFINITY 21	24ANB6, 24ANB7, 24VNA9, 24VNAO, 24ANB1
Coleman	LX SERIES	CC7, CC17
Coleman	ECHELON	AC21, AC19
Daikin	DX16SA	DX16SA
Daikin	DX16TC	DX16TC
Daikin	DX17VSS	DX17VSS
Daikin	DX18TC	DX18TC
Daikin	DX20VC	DX20VC
Goodman	GSX16	GSX16
Goodman	GSXC16	GSXC16
Goodman	GSXC18	GSXC18
Lennox	XC13	XC13
Lennox	16ACX	16ACX
Lennox	EL16XC1	EL16XC1
Lennox	XC16	XC16
Lennox	XC20	XC20
Lennox	SL18XC1	SL18XC1
Lennox	XC21	XC21
Lennox	XC25	XC25
Payne	PA16NA	PA16NA

- EER Requirements
 - Verify <u>entire system</u> meets minimum 12 EER requirement via AHRI lookup

Requirements

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Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

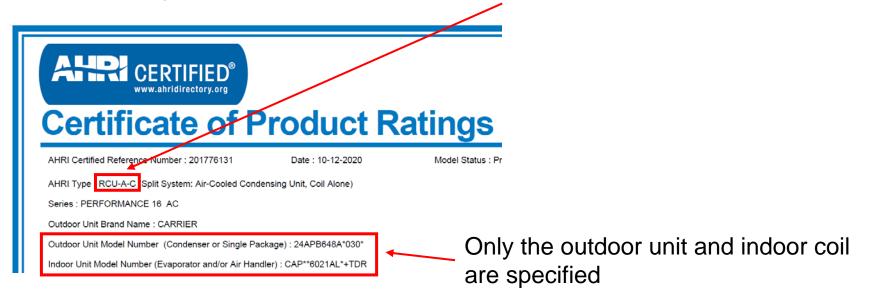


 AHRI Directory – online resource tool to lookup ratings for many HVAC system combinations, including Central AC.

- In order for a Central AC system to receive an incentive, the <u>entire system listed on AHRI</u> must be installed.
 - Essentially, if it's listed, it needs to be installed



- Some AHRI combinations do not require a specific indoor blower/air handler. In these instances, a coil and outdoor unit can be paired easily with an existing furnace/blower.
 - These systems are identified as "RCU-A-C"



- Some rated systems do require a specific air handler/blower (typically matching the brand of the outdoor unit and coil)
 - These systems are identified as "RCU-A-CB"



Ensuring Central AC application is completed correctly:

Cooling Incentive One incentive per residence. Residence must be serviced Portland General Electric (PGE) or Pacific Power							
Upgrade type		Requirements			Incentive amount		
		of the home. Resid		alifying central air conditi nces primarily heated with		\$250	
Central Air Conditioner Installed Cost:	\$ New heating system installed cost (if app			able): \$ System Capacity (Tons):		System Capacity (Tons):	
Outdoor Manufacturer:	:				Outdoor Model:		
Indoor Evaporator Coil Manufacturer:					Indoor Evaporator Coil Model:		
Furnace/Blower Manufacturer:		Furnace/Blower Model #:					
If an eligible gas furnace was installed in an Oregon rental property with this air conditioner, please provide a customer signed Form 320C-HVAC incentive application along with this application. For more information about Energy Trust's gas furnace incentives, contact us at 1.866,311.1822 or residential@energytrust.org.							
Outdoor Unit SEER	To qualify for this incentive, the air conditioner outdoor unit is required to achieve a minimum nominal rating 15 SEER as stated by manufacturer. For list of known qualifying units, please visit: energytrust.org/central-air-conditioners/						
	Outdoor unit SEER per Did this central air conditioner replace an existing central air conditioner?			□ No			
Outdoor Unit and	To qualify for this incentive, the system's outdoor unit and indoor coil are required to achieve a minimum rating of 12 EER per AHRI rating.						
Coil EER	Outdoor unit and indoor coil EER (per AHRI):						
I have attached an AHF	RI certificate*:] Ye	s No - list certifica	ate	number:		

Confirm each model listed on the AHRI certificate is included on this application

Either attach a copy of the AHRI certificate, or provide the corresponding AHRI cert. #

- Still have questions?
 - Reach out to your local account manager and schedule a Central AC/AHRI training to discuss each of these steps in-depth

Indoor Air Quality

- What does Indoor Air quality mean to attendees?
- How are they seeing this manifest in their work?



Thank you

Marshall Johnson
Residential Sr. Program Manager
marshall.johnson@energytrust.org

Kate Wellington
Multifamily Program Manager
kate.wellington@energytrust.org



Central OR

Breakout Housekeeping

Central OR Agenda

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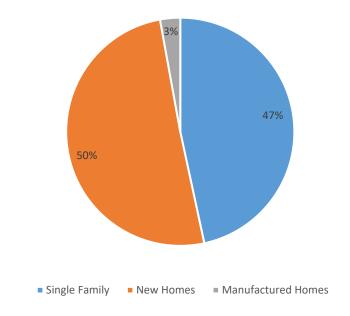
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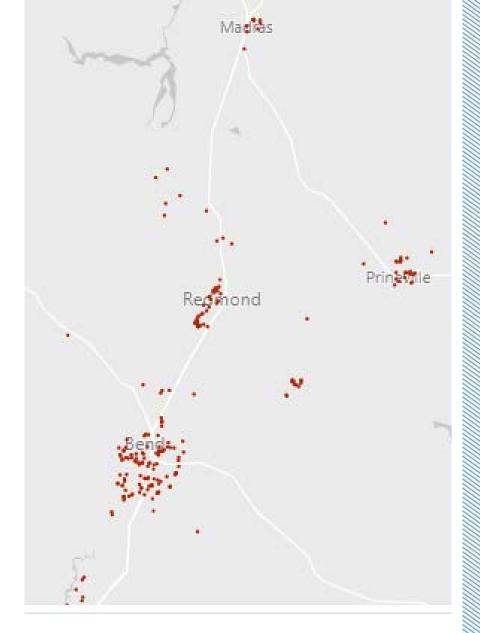
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 Majority of 0.24 windows installed in New Homes in Central OR



New 0.24 Windows Tier Install Map

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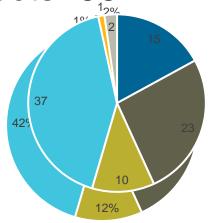
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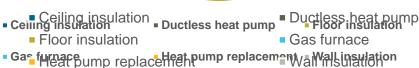
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Central OR Single-Family Rental **Incentives**

- Central OR Single-Family Rentals: 11,491
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Floor insulation







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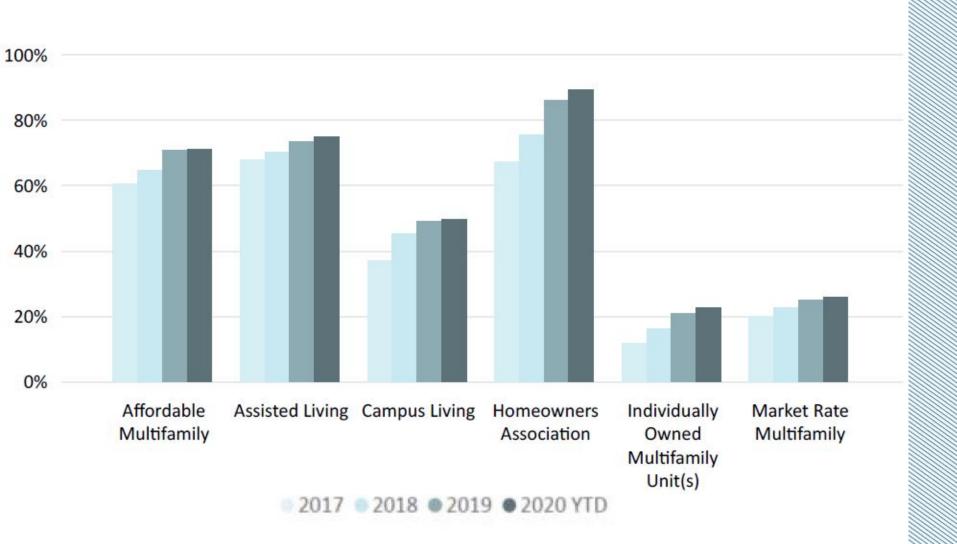
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Multifamily participation trends

Percentage of total eligible multifamily market served by market type from 2017-2020



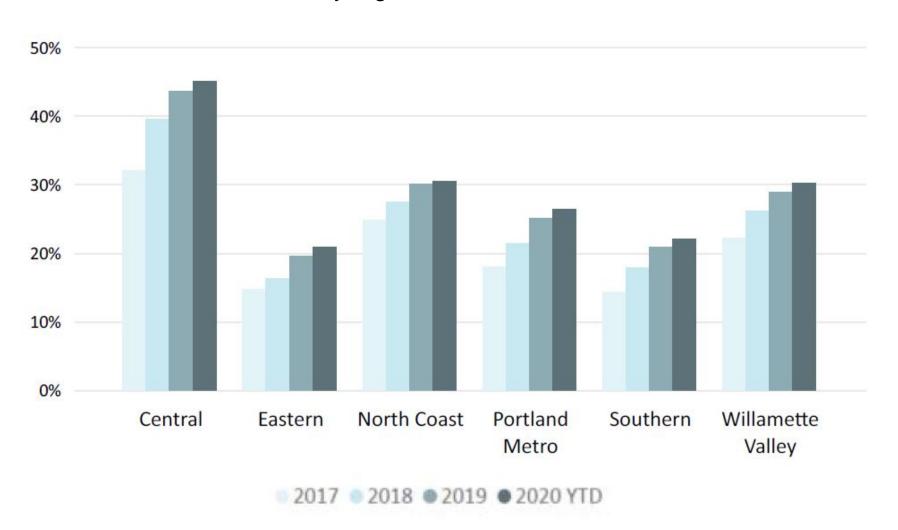
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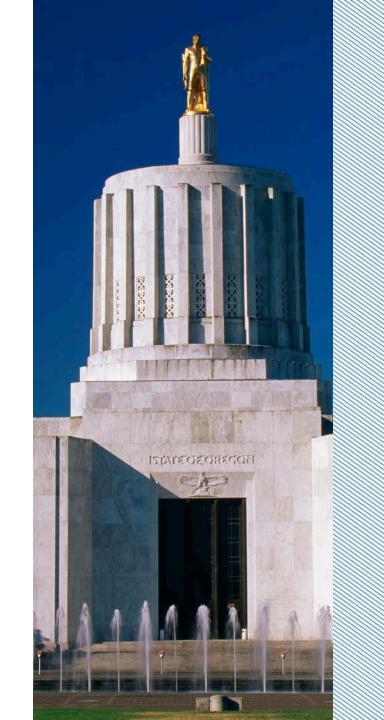
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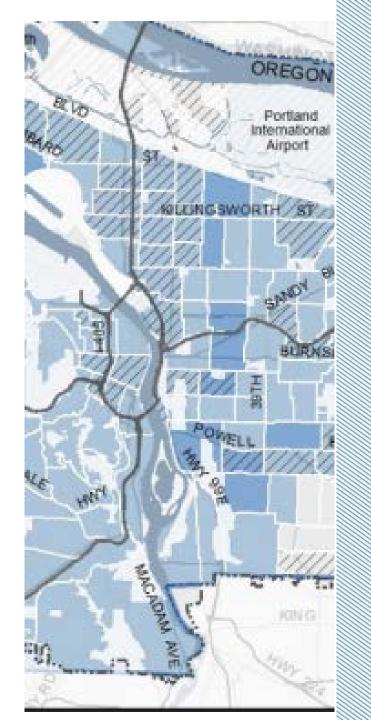
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Equipment	Incentive	Requirements
Central air conditioner	\$250	Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater
		Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

- SEER Requirements
 - Verify <u>outdoor unit</u> meets 15 SEER requirement by referencing Energy Trust of Oregon Qualifying Products List

Requirements

Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater

Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

 QPL may not include all qualifying units. Contact Energy Trust Residential team if a model appears to be missing.

Qualifying Central Air Conditioning Outdoor Units

Residential and Existing Multifamily Effective February 1, 2020



Models listed below are known to meet the manufacturer-listed minimum 15 SEER requirement and the minimum total system EER of 12 or greater for central air conditioning outdoor units. If you have questions about model eligibility or to verify eligibility of a model not found on this list, please contact us at residential@energytrust.org for single family homes and multifamily@energytrust.org for multifamily residences.

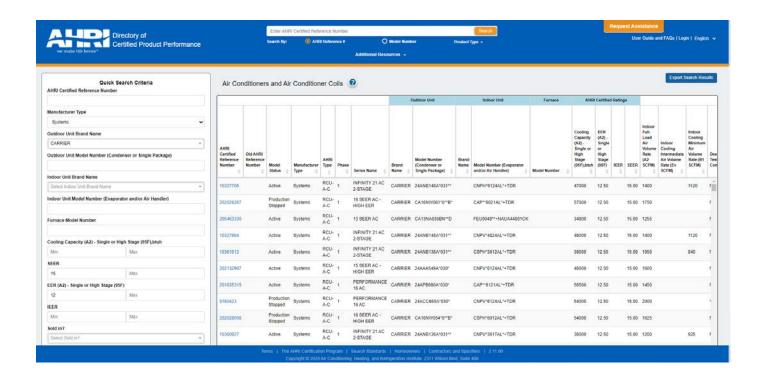
Manufacturer	Model Name	Model Number
American Standard	SILVER 16	4A7A6, 4A7L6
American Standard	GOLD 17	4A7C7, 4A7A7
American Standard	PLATINUM 18	4A7V8
American Standard	PLATINUM 20	4A7V0
Amana	AVXC20	AVXC20
Amana	ASXC18	ASXC18
Amana	ASXC16	ASXC16
Amana	ASX16	ASX16
Bryant	LEGACY	105A, 116B, 106A
Bryant	PREFERRED	126B, 126CNA, 127A
Bryant	EVOLUTION	186B, 187B, 187BNC, 180C, 180B, 189BNV
Carrier	COMFORT 15, COMFORT 16	24AAA5, 24ABC6, 24AAA6
Carrier	PERFORMANCE 16, PERFORMANCE 17	24APB6, 24ACC6, 24ACB7
Carrier	INFINITY 16, INFINITY 17, INFINITY 19, INFINITY 20, INFINITY 21	24ANB6, 24ANB7, 24VNA9, 24VNAO, 24ANB1
Coleman	LX SERIES	CC7, CC17
Coleman	ECHELON	AC21, AC19
Daikin	DX16SA	DX16SA
Daikin	DX16TC	DX16TC
Daikin	DX17VSS	DX17VSS
Daikin	DX18TC	DX18TC
Daikin	DX20VC	DX20VC
Goodman	GSX16	GSX16
Goodman	GSXC16	GSXC16
Goodman	GSXC18	GSXC18
Lennox	XC13	XC13
Lennox	16ACX	16ACX
Lennox	EL16XC1	EL16XC1
Lennox	XC16	XC16
Lennox	XC20	XC20
Lennox	SL18XC1	SL18XC1
Lennox	XC21	XC21
Lennox	XC25	XC25
Payne	PA16NA	PA16NA

- EER Requirements
 - Verify <u>entire system</u> meets minimum 12 EER requirement via AHRI lookup

Requirements

Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater

Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

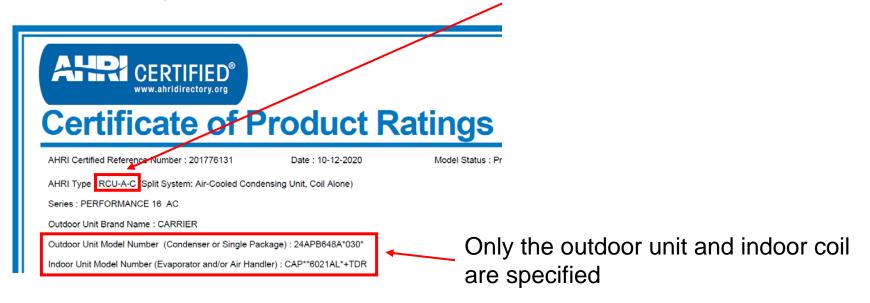


 AHRI Directory – online resource tool to lookup ratings for many HVAC system combinations, including Central AC.

- In order for a Central AC system to receive an incentive, the <u>entire system listed on AHRI</u> must be installed.
 - Essentially, if it's listed, it needs to be installed



- Some AHRI combinations do not require a specific indoor blower/air handler. In these instances, a coil and outdoor unit can be paired easily with an existing furnace/blower.
 - These systems are identified as "RCU-A-C"



- Some rated systems do require a specific air handler/blower (typically matching the brand of the outdoor unit and coil)
 - These systems are identified as "RCU-A-CB"



Ensuring Central AC application is completed correctly:

Cooling Incentive One incentive per residence. Residence must be serviced Portland General Electric (PGE) or Pacific Power							
Upgrade type		Requirements			Incentive amount		
☐ Qualifying Central Air Conditioner o		System must be a qualifying central air conditioner serving most or all of the home. Residences primarily heated with a heat pump do not qualify. \$250			\$250		
Central Air Conditioner Installed Cost:	\$		w heating system talled cost (if applica	ble	e): \$	System Capacity (Tons):	
Outdoor Manufacturer:	er:				Outdoor Model:		
Indoor Evaporator Coil Manufacturer:				Indoor Evaporator Coil Model:			
Furnace/Blower Manufacturer:			Furnace/Blower Model #:				
If an eligible gas furnace was installed in an Oregon rental property with this air conditioner, please provide a customer signed Form 320C-HVAC incentive application along with this application. For more information about Energy Trust's gas furnace incentives, contact us at 1.866.311.1822 or residential@energytrust.org.							
Outdoor Unit SEER	To qualify for this incentive, the air conditioner outdoor unit is required to achieve a minimum nominal rating 15 SEER as stated by manufacturer. For list of known qualifying units, please visit: energytrust.org/central-air-conditioners/						
	Outdoor unit SEER per manufacturer (minimum 15):				Did this central air conditioner replace an existing central air conditioner? ☐ Yes ☐ No		
Outdoor Unit and	To qualify for this incentive, the system's outdoor unit and indoor coil are required to achieve a minimum rating of 12 EER per AHRI rating.						
Coil EER	Coil EER Outdoor unit and indoor coil EER (per AHRI):						
I have attached an AHRI certificate*: ☐ Yes ☐ No - list certificate number:							

Confirm each model listed on the AHRI certificate is included on this application

Either attach a copy of the AHRI certificate, or provide the corresponding AHRI cert. #

- Still have questions?
 - Reach out to your local account manager and schedule a Central AC/AHRI training to discuss each of these steps in-depth

Indoor Air Quality

- What does Indoor Air quality mean to attendees?
- How are they seeing this manifest in their work?



Thank you

Marshall Johnson
Residential Sr. Program Manager
marshall.johnson@energytrust.org

Kate Wellington
Multifamily Program Manager
kate.wellington@energytrust.org



Southern OR

Breakout Housekeeping

Southern OR Agenda

- In-Depth 2021 Incentive Changes
- 2020 Opportunities and Performance
 - 0.24 Windows Tier
 - Manufactured Homes HP Promo
 - Rental Incentives
 - DHP in Rentals Promo
- Multifamily Program Updates
 - Expanding Participation in small multifamily
 - Multifamily Participation trends
 - Multifamily Market Snapshot
 - Oregon COVID Response
- EPS New Construction
 - COVID Impacts on new homes
 - 2021 Cash Incentives
 - Early Design Assistance
 - Additional offerings in 2020
- Central AC AHRI Review

Southern Oregon breakout only

Specific fire content <here>

2021 Heat Pump Conversion Changes

Qualified Primary Heating Source Change:

Primary Heating Source	Cost Effective?	Qualified?	Requires Cut In's?
Electric Furnace	Yes	Qualified	No
Baseboard heat	No	Not Qualified	Yes (Increases Cost)
Wall/Ceiling Heat	No	Not Qualified	Yes (Increases Cost)

Requirement Addition:

 Auxiliary heat lockout must be completed on all Heat Pump Conversions

January 1, 2021 – March 31, 2021	April 1, 2021 – December 31, 2021
\$950	\$700

Heat Pump Advanced Control Changes

Install Scenario	Qualified?
Heat Pump replacing Heat Pump	Yes
Adding auxiliary lockout to existing heat pump	Yes
Heat pump conversion from electric furnace	No

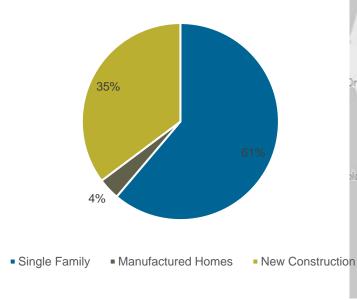
 Heat Pump Advanced Controls may no longer be stacked with Heat Pump Conversions, as auxiliary lockout will be required for Heat Pump Conversions.

2020 Opportunity and Performance

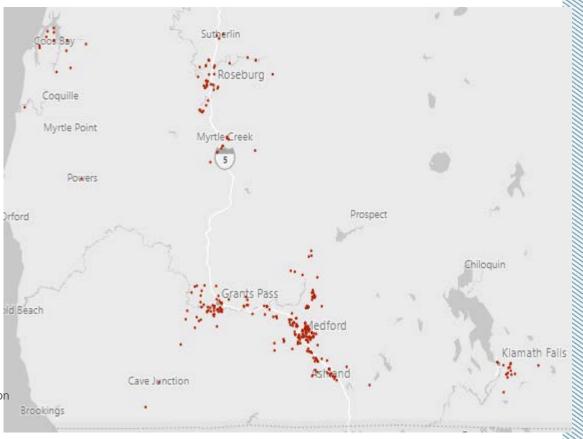
Windows: Southern

Oregon

New Windows Tier: \$6 in OR



Majority of 0.24
 windows installed in
 Single Family in
 Southern OR



New 0.24 Windows Tier Install Map

Manufactured Homes Heat Pump Promotion

RFQ Open:

- October 16, 2020-November 16, 2020
- Home Retrofit Trade Allies
- \$2,500 for DHP, \$3,000 for HP in Manufactured Homes

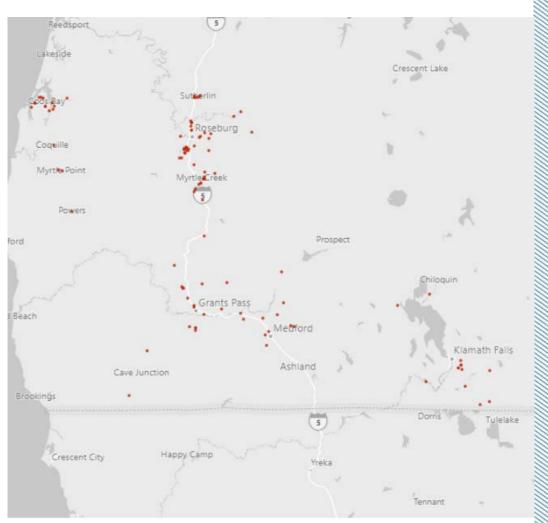
Selection Criteria: 2021

- Pricing
- History of serving Manufactured Homes communities
- Ability to reach diverse customer base

Manufactured Homes Heat Pump

Promotion – Southern Oregon

- 2020 Regional Results
 - 59 DHP
 - 117 HP
- Statewide:
 - 91 DHP
 - 349 HP



Rental Incentives: Single-Family Homes

- Increased Incentives for Single-Family Rentals
- Trade Ally Requirements:
 - Enrolled in Instant Incentives
 - Talk to your account manager to enroll
- Customer Requirements:
 - Non-owner Occupied, single-family rental properties
 - Oregon & Washington

OR Rental Incentive Amounts: Single-Family

Upgrade	Rental Incentive	Incentive Timeline
Ductless Heat Pump	\$1,000	2021
Heat Pump	\$1,000	2021
Extended Capacity Heat Pump	\$1,650	2021
Gas Furnace	\$550 -\$1,000	Bonus through: March 31, 2021
Heat Pump Water Heater	\$270	2021
Smart Thermostat	\$100	2021
Attic Insulation	\$0.50-\$1.25 per square foot	Bonus through: March 31, 2021
Wall Insulation	\$0.50 per square foot	2021
Floor Insulation	\$0.40 per square foot	2021

*Incentive availability and timeline subject to change

WA Rental Incentive Amounts: Single-Family

Upgrade	Rental Incentive	Incentive Timeline*
Gas Furnace	\$550 \$1,000	Bonus through: March 31, 2021
Gas Tankless Water Heater	\$200 \$400	2021
Smart Thermostat	\$100	2021
Attic Insulation	\$0.60 \$1.25 per square foot	Bonus through: March 31, 2021
Wall Insulation	\$0.60 \$0.75 per square foot	Bonus through: March 31, 2021
Floor Insulation	\$0.60 \$0.75 per square foot	Bonus through: March 31, 2021

*Incentive availability and timeline subject to change

Southern Oregon Single-Family Rental Incentives

 Southern Oregon Single-Family Rentals: ~30,000



119



DHP in Rentals Promo

- RFQ Open: October 16, 2020 EO 2021
 - \$1,750 \$2,000 DHP Incentive
 - Non-Owner-Occupied Rentals
 - Single-Family Rentals and Small Multifamily Rentals
 - Price Capped offering; customer out of pocket cost max \$2,500
- Requirements
 - Home Retrofit or Multifamily Trade Ally
 - Enrolled in Home Retrofit Instant Incentives
 - Meet Program 9 HSPF Requirements per AHRI
 - Meet price caps
- 2020 participants will need to reapply via the 2021 RFQ.

Multifamily Market Update

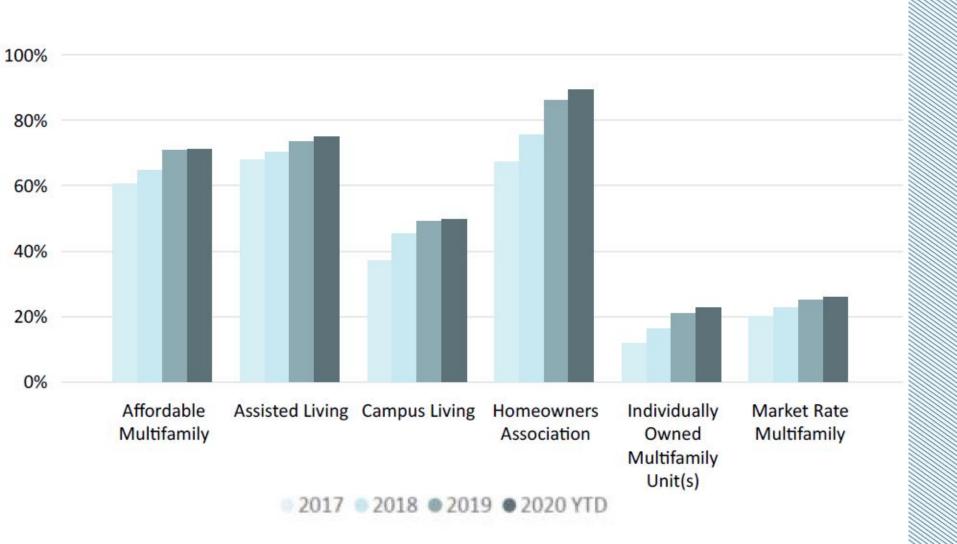
Expanding participation in small multifamily

- Opportunity identified in small multifamily
 - duplex, triplex, fourplex
 - Doubled participation from 2017-2020
 - 10% to 20% served
- Offerings tailored for small multifamily
 - DHP Rental Promotion
 - \$1,000 bonus DHP incentive
 - Up to \$1.25/sq. ft. insulation
 - \$1,000 gas furnace
- Targeting rural areas



Multifamily participation trends

Percentage of total eligible multifamily market served by market type from 2017-2020



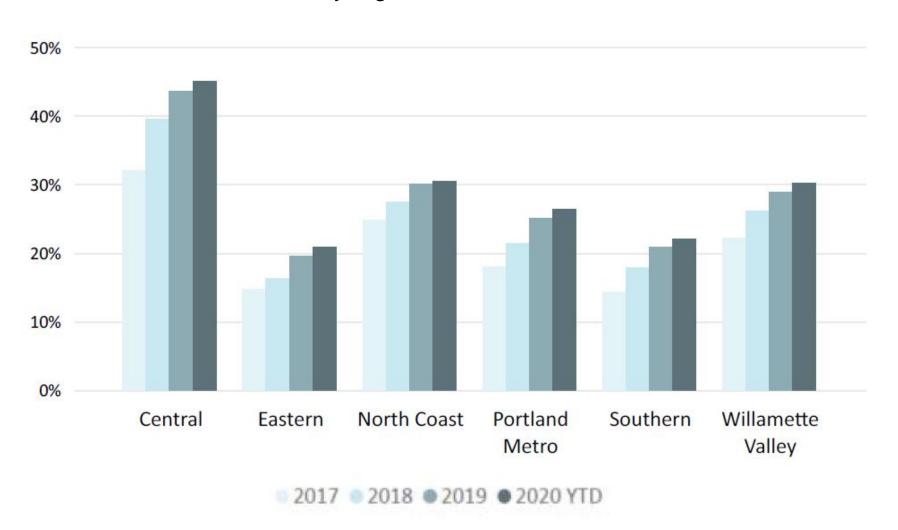
Multifamily participation trends

Percentage of total eligible multifamily market served by property size from 2017-2020



Multifamily participation trends

Percentage of total eligible multifamily market served by region from 2017-2020



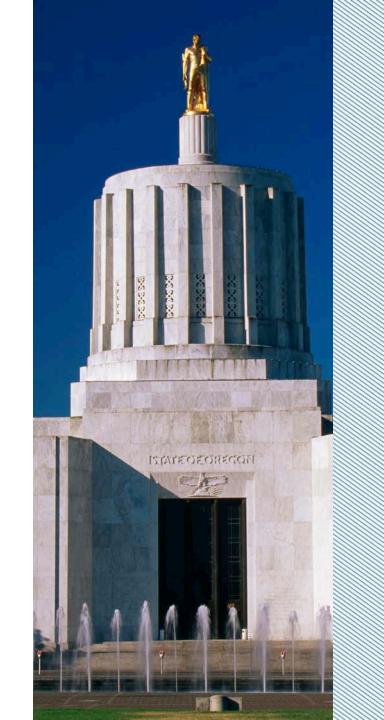
Multifamily Market Snapshot

- Increasing number of tenants not able to pay rent
- New multifamily construction slowing
- Vacancies expected to rise next year as eviction protections expire
- Assisted living retrofit market limited



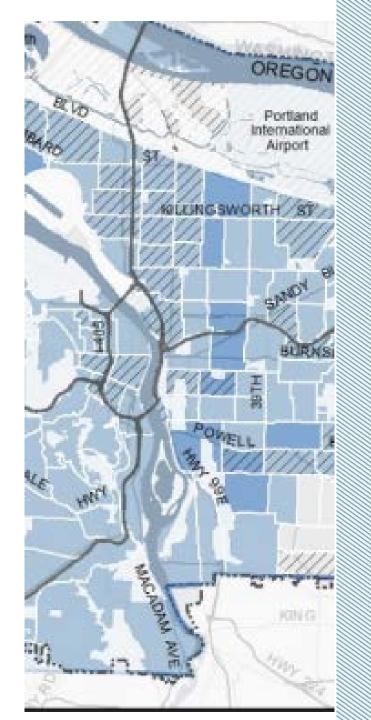
Oregon COVID Response

- Changes to Eviction Moratoria
 - Eviction protection for tenants
- Executive Order extends "Emergency Period"
 - Eviction protection through December 31st
- Tenants have until March 31st, 2021 to pay off the debts from April 1st to September 31st
- Multnomah county has specific guidelines



Portland Only – Residential Infill Project Approval

- City Council approved in August 2020
- Zoning reform for Portland's residential neighborhoods
- Opens door for more housing options
 - Single family lots converted to multifamily
 - Four to six dwelling units per lot
 - Six dwellings allowed if half are affordable housing





EPS New ConstructionEnergy Trust of Oregon 2020



Covid impacts on the new homes industry

- Supply shortages
 - Air conditioning units
 - Lighting fixtures
 - Appliances
- Lumber price increases
- Skilled labor shortage
- Construction delays due to staggered trades
- Building industry slowly getting back to business as usual
- Low interest rates are creating higher demand

Available cash incentives in Oregon (2021)

- \$1,123 \$5,223 cash incentives to help builders move beyond code
- \$750 net zero incentive
- \$300 \$1,889 verification incentive
- \$250 affordable housing verification incentive
- \$200 solar ready incentive
- \$200 energy smart homes incentive
- Varying incentives with solar installs
- Varying incentives for early design and solar design assistance

Early design assistance (EDA) meetings are your first concrete step!

"90% of your energy decisions are made before a hammer hits a nail" – John Tooley

EDA = Pre-construction meeting for design review with builder, verifier, verifier account manager and subcontractors

Opportunity to:

- Maximize energy efficiency and EPS incentives
- Strengthen communication between subcontractors
- Integrate solar/solar ready into the design

Additional Offerings in 2020

In 2020, builders that are part of Energy Trust of Oregon's EPS New Construction offering can take their new homes to the next level with two new incentive packages:

- 1. Net Zero Homes: Include an installed solar PV system that can offset a home's entire electric load
- 2. Energy Smart Homes: Include appliances and equipment that are smart grid interactive, making it possible for customers to participate in utility programs designed to lower energy usage during peak periods—now or in the future

Central AC AHRI Review

- Central Air Conditioner qualifications review
 - How to verify SEER compliance using Qualifying Products List (QPL)
 - How to verify EER compliance using AHRI
 - Ensuring application is accurate and complete

Equipment	Incentive	Requirements
Central air conditioner	\$250	Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater
		Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

- SEER Requirements
 - Verify <u>outdoor unit</u> meets 15 SEER requirement by referencing Energy Trust of Oregon Qualifying Products List

Requirements

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Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

 QPL may not include all qualifying units. Contact Energy Trust Residential team if a model appears to be missing.

Qualifying Central Air Conditioning Outdoor Units

Residential and Existing Multifamily Effective February 1, 2020



Models listed below are known to meet the manufacturer-listed minimum 15 SEER requirement and the minimum total system EER of 12 or greater for central air conditioning outdoor units. If you have questions about model eligibility or to verify eligibility of a model not found on this list, please contact us at residential@energytrust.org for single family homes and multifamily@energytrust.org for multifamily residences.

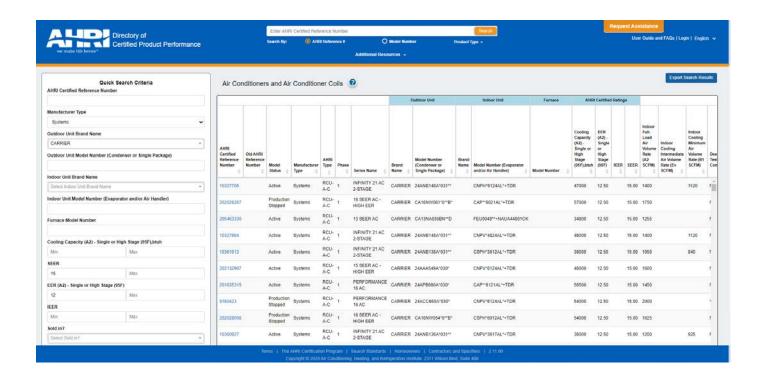
Manufacturer	Model Name	Model Number
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American Standard	PLATINUM 18	4A7V8
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Amana	ASXC16	ASXC16
Amana	ASX16	ASX16
Bryant	LEGACY	105A, 116B, 106A
Bryant	PREFERRED	126B, 126CNA, 127A
Bryant	EVOLUTION	186B, 187B, 187BNC, 180C, 180B, 189BNV
Carrier	COMFORT 15, COMFORT 16	24AAA5, 24ABC6, 24AAA6
Carrier	PERFORMANCE 16, PERFORMANCE 17	24APB6, 24ACC6, 24ACB7
Carrier	INFINITY 16, INFINITY 17, INFINITY 19, INFINITY 20, INFINITY 21	24ANB6, 24ANB7, 24VNA9, 24VNAO, 24ANB1
Coleman	LX SERIES	CC7, CC17
Coleman	ECHELON	AC21, AC19
Daikin	DX16SA	DX16SA
Daikin	DX16TC	DX16TC
Daikin	DX17VSS	DX17VSS
Daikin	DX18TC	DX18TC
Daikin	DX20VC	DX20VC
Goodman	GSX16	GSX16
Goodman	GSXC16	GSXC16
Goodman	GSXC18	GSXC18
Lennox	XC13	XC13
Lennox	16ACX	16ACX
Lennox	EL16XC1	EL16XC1
Lennox	XC16	XC16
Lennox	XC20	XC20
Lennox	SL18XC1	SL18XC1
Lennox	XC21	XC21
Lennox	XC25	XC25
Payne	PA16NA	PA16NA

- EER Requirements
 - Verify <u>entire system</u> meets minimum 12 EER requirement via AHRI lookup

Requirements

Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater

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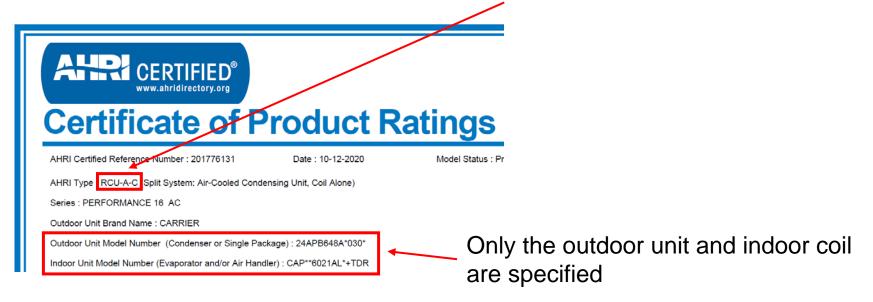


 AHRI Directory – online resource tool to lookup ratings for many HVAC system combinations, including Central AC.

- In order for a Central AC system to receive an incentive, the <u>entire system listed on AHRI</u> must be installed.
 - Essentially, if it's listed, it needs to be installed



- Some AHRI combinations do not require a specific indoor blower/air handler. In these instances, a coil and outdoor unit can be paired easily with an existing furnace/blower.
 - These systems are identified as "RCU-A-C"



- Some rated systems do require a specific air handler/blower (typically matching the brand of the outdoor unit and coil)
 - These systems are identified as "RCU-A-CB"



Ensuring Central AC application is completed correctly:

Cooling Incentive One incentive per residence. Residence must be serviced Portland General Electric (PGE) or Pacific Power							
Upgrade type		Requirements			Incentive amount		
Qualifying Central Air Conditioner		System must be a qualifying central air conditioner serving most or all of the home. Residences primarily heated with a heat pump do not qualify. \$250			\$250		
Central Air Conditioner Installed Cost:	4		v heating system \$ System Capacity (Ton:		System Capacity (Tons):		
Outdoor Manufacturer:	Outdoor Manufacturer:				Outdoor Model:		
Indoor Evaporator Coil Manufacturer:				Indoor Evaporator Coil Model:			
Furnace/Blower Manufacturer:			Furnace/Blower Model #:				
If an eligible gas furnace was installed in an Oregon rental property with this air conditioner, please provide a customer signed Form 320C-HVAC incentive application along with this application. For more information about Energy Trust's gas furnace incentives, contact us at 1,866,311,1822 or residential@energytrust.org.							
Outdoor Unit SEER	To qualify for this incentive, the air conditioner outdoor unit is required to achieve a minimum nominal rating 15 SEER as stated by manufacturer. For list of known qualifying units, please visit: energytrust.org/central-air-conditioners/						
	Outdoor unit SEER per manufacturer (minimum 15):				Did this central air conditioner replace an existing central air conditioner? ☐ Yes ☐ No		
Outdoor Unit and	To qualify for this incentive, the system's outdoor unit and indoor coil are required to achieve a minimum rating of 12 EER per AHRI rating.						
Coil EER Outdoor unit and			door coil EER (per /	٩Н	RI):		
I have attached an AHRI certificate*: ☐ Yes ☐ No - list certificate number:							

Confirm each model listed on the AHRI certificate is included on this application

Either attach a copy of the AHRI certificate, or provide the corresponding AHRI cert. #

- Still have questions?
 - Reach out to your local account manager and schedule a Central AC/AHRI training to discuss each of these steps in-depth

Indoor Air Quality

- What does Indoor Air quality mean to attendees?
- How are they seeing this manifest in their work?



Thank you

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Kate Wellington
Multifamily Program Manager
kate.wellington@energytrust.org



Eastern OR

Eastern OR Agenda

- In-Depth 2021 Incentive Changes
- 2020 Opportunities and Performance
 - 0.24 Windows Tier
 - Manufactured Homes HP Promo
 - Rental Incentives
 - DHP in Rentals Promo
- Multifamily Program Updates
 - Expanding Participation in small multifamily
 - Multifamily Participation trends
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 - Oregon COVID Response
- EPS New Construction
 - COVID Impacts on new homes
 - 2021 Cash Incentives
 - Early Design Assistance
 - Additional offerings in 2020
- Central AC AHRI Review

2021 Heat Pump Conversion Changes

Qualified Primary Heating Source Change:

Primary Heating Source	Cost Effective?	Qualified?	Requires Cut In's?
Electric Furnace	Yes	Qualified	No
Baseboard heat	No	Not Qualified	Yes (Increases Cost)
Wall/Ceiling Heat	No	Not Qualified	Yes (Increases Cost)

Requirement Addition:

 Auxiliary heat lockout must be completed on all Heat Pump Conversions

January 1, 2021 – March 31, 2021	April 1, 2021 – December 31, 2021	
\$950	\$700	

Heat Pump Advanced Control Changes

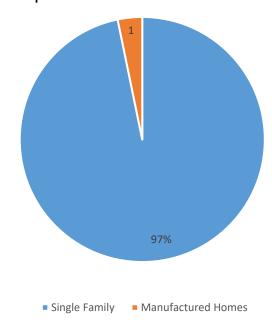
Install Scenario	Qualified?
Heat Pump replacing Heat Pump	Yes
Adding auxiliary lockout to existing heat pump	Yes
Heat pump conversion from electric furnace	No

 Heat Pump Advanced Controls may no longer be stacked with Heat Pump Conversions, as auxiliary lockout will be required for Heat Pump Conversions.

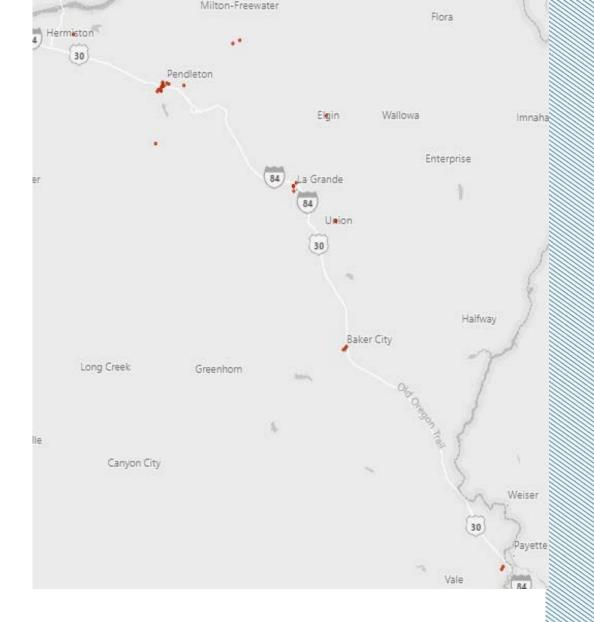
2020 Opportunity and Performance

Windows: Eastern Oregon

New Windows Tier: \$6 in OR



 Majority of 0.24 windows installed in Single Family in Eastern OR



New 0.24 Windows Tier Install Map

Manufactured Homes Heat Pump Promotion

RFQ Open:

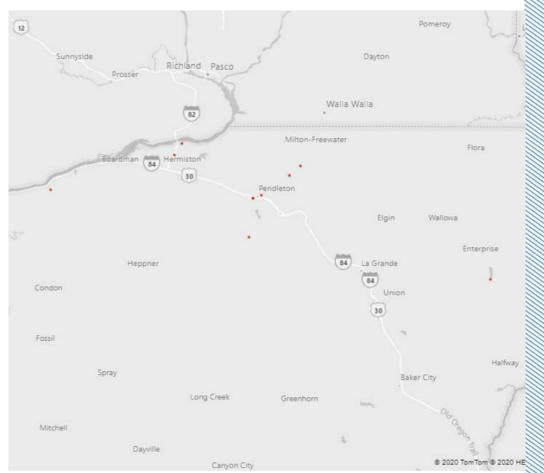
- October 16, 2020-November 16, 2020
- Home Retrofit Trade Allies
- \$2,500 for DHP, \$3,000 for HP in Manufactured Homes

Selection Criteria: 2021

- Pricing
- History of serving Manufactured Homes communities
- Ability to reach diverse customer base

Manufactured
Homes Heat Pump
Promotion –
Eastern Oregon

- 2020 Regional Results
 - 7 DHP
 - 7 HP
- Statewide:
 - 91 DHP
 - 349 HP





Rental Incentives: Single-Family Homes

- Increased Incentives for Single-Family Rentals
- Trade Ally Requirements:
 - Enrolled in Instant Incentives
 - Talk to your account manager to enroll
- Customer Requirements:
 - Non-owner Occupied, single-family rental properties
 - Oregon & Washington

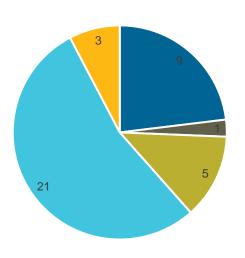
OR Rental Incentive Amounts: Single-Family

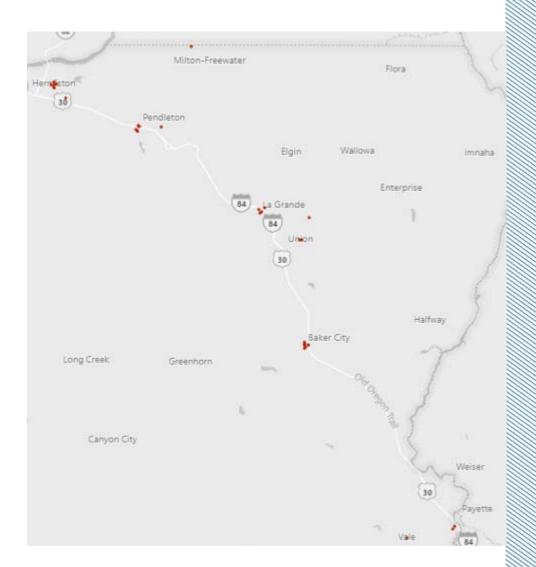
Upgrade	Rental Incentive	Incentive Timeline
Ductless Heat Pump	\$1,000	2021
Heat Pump	\$1,000	2021
Extended Capacity Heat Pump	\$1,650	2021
Gas Furnace	\$550 -\$1,000	Bonus through: March 31, 2021
Heat Pump Water Heater	\$270	2021
Smart Thermostat	\$100	2021
Attic Insulation	\$0.50-\$1.25 per square foot	Bonus through: March 31, 2021
Wall Insulation	\$0.50 per square foot	2021
Floor Insulation	\$0.40 per square foot	2021

*Incentive availability and timeline subject to change

Eastern Oregon Single-Family Rental Incentives

- Eastern OR Single-Family Rentals: ~5,000
- Single-Family Rental Projects: 39





Rental Installs 2015 - Today

Ceiling insulation

Ductless heat pumpFloor insulation

Gas furnace

Wall insulation

DHP in Rentals Promo

- RFQ Open: October 16, 2020 EO 2021
 - \$1,750 \$2,000 DHP Incentive
 - Non-Owner-Occupied Rentals
 - Single-Family Rentals and Small Multifamily Rentals
 - Price Capped offering; customer out of pocket cost max \$2,500
- Requirements
 - Home Retrofit or Multifamily Trade Ally
 - Enrolled in Home Retrofit Instant Incentives
 - Meet Program 9 HSPF Requirements per AHRI
 - Meet price caps
- 2020 participants will need to reapply via the 2021 RFQ.

Multifamily Market Update

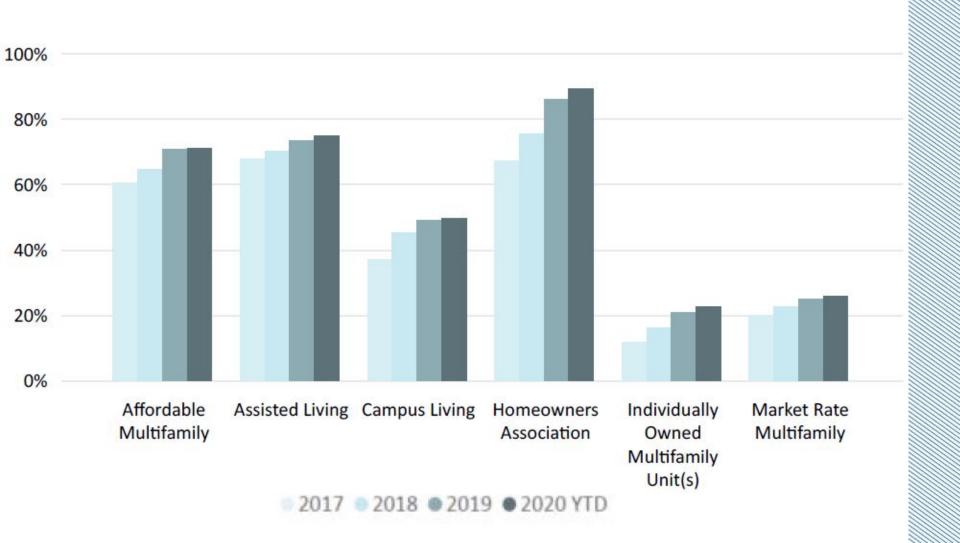
Expanding participation in small multifamily

- Opportunity identified in small multifamily
 - duplex, triplex, fourplex
 - Doubled participation from 2017-2020
 - 10% to 20% served
- Offerings tailored for small multifamily
 - DHP Rental Promotion
 - \$1,000 bonus DHP incentive
 - Up to \$1.25/sq. ft. insulation
 - \$1,000 gas furnace
- Targeting rural areas



Multifamily participation trends

Percentage of total eligible multifamily market served by market type from 2017-2020



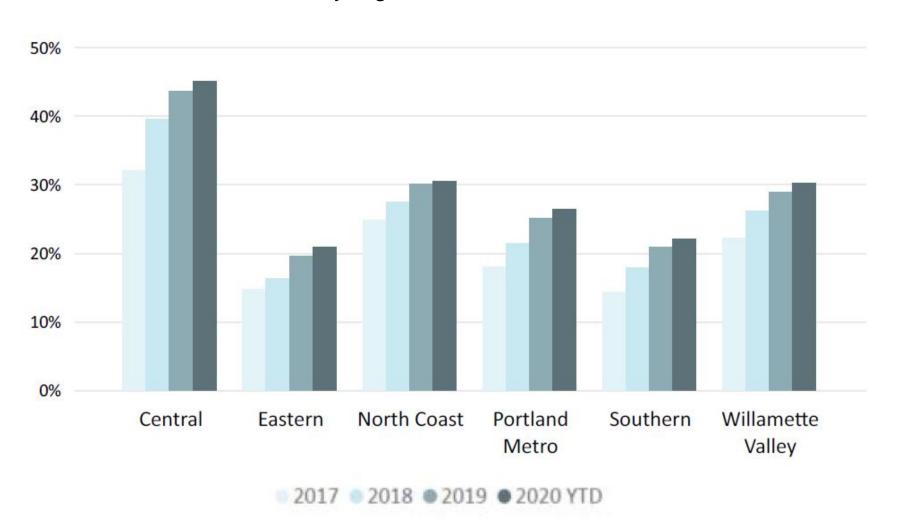
Multifamily participation trends

Percentage of total eligible multifamily market served by property size from 2017-2020



Multifamily participation trends

Percentage of total eligible multifamily market served by region from 2017-2020



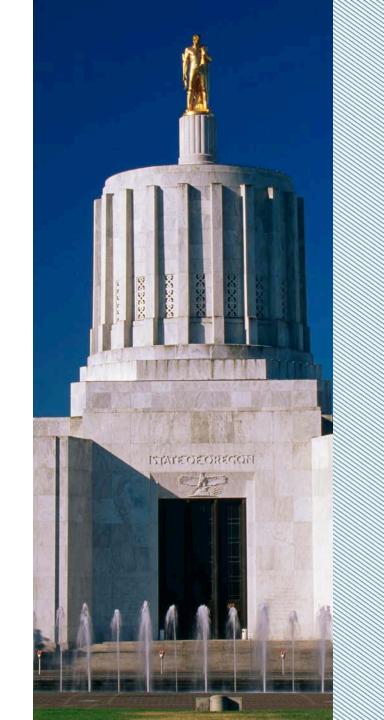
Multifamily Market Snapshot

- Increasing number of tenants not able to pay rent
- New multifamily construction slowing
- Vacancies expected to rise next year as eviction protections expire
- Assisted living retrofit market limited



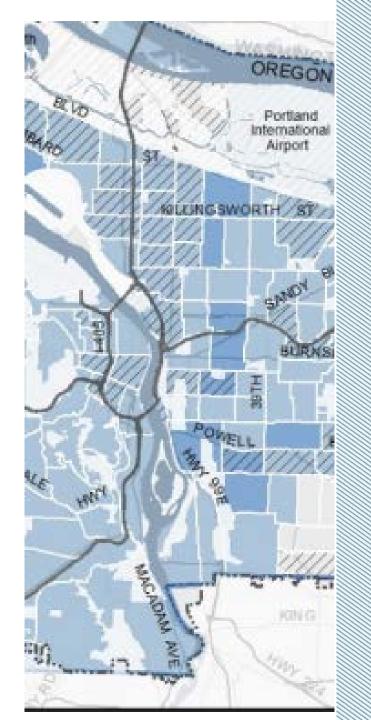
Oregon COVID Response

- Changes to Eviction Moratoria
 - Eviction protection for tenants
- Executive Order extends "Emergency Period"
 - Eviction protection through December 31st
- Tenants have until March 31st, 2021 to pay off the debts from April 1st to September 31st
- Multnomah county has specific guidelines



Portland Only – Residential Infill Project Approval

- City Council approved in August 2020
- Zoning reform for Portland's residential neighborhoods
- Opens door for more housing options
 - Single family lots converted to multifamily
 - Four to six dwelling units per lot
 - Six dwellings allowed if half are affordable housing





EPS New ConstructionEnergy Trust of Oregon 2020



Covid impacts on the new homes industry

- Supply shortages
 - Air conditioning units
 - Lighting fixtures
 - Appliances
- Lumber price increases
- Skilled labor shortage
- Construction delays due to staggered trades
- Building industry slowly getting back to business as usual
- Low interest rates are creating higher demand

Available cash incentives in Oregon (2021)

- \$1,123 \$5,223 cash incentives to help builders move beyond code
- \$750 net zero incentive
- \$300 \$1,889 verification incentive
- \$250 affordable housing verification incentive
- \$200 solar ready incentive
- \$200 energy smart homes incentive
- Varying incentives with solar installs
- Varying incentives for early design and solar design assistance

Early design assistance (EDA) meetings are your first concrete step!

"90% of your energy decisions are made before a hammer hits a nail" – John Tooley

EDA = Pre-construction meeting for design review with builder, verifier, verifier account manager and subcontractors

Opportunity to:

- Maximize energy efficiency and EPS incentives
- Strengthen communication between subcontractors
- Integrate solar/solar ready into the design

Additional Offerings in 2020

In 2020, builders that are part of Energy Trust of Oregon's EPS New Construction offering can take their new homes to the next level with two new incentive packages:

- 1. Net Zero Homes: Include an installed solar PV system that can offset a home's entire electric load
- 2. Energy Smart Homes: Include appliances and equipment that are smart grid interactive, making it possible for customers to participate in utility programs designed to lower energy usage during peak periods—now or in the future

Central AC AHRI Review

- Central Air Conditioner qualifications review
 - How to verify SEER compliance using Qualifying Products List (QPL)
 - How to verify EER compliance using AHRI
 - Ensuring application is accurate and complete

Equipment	Incentive	Requirements
Central air conditioner	\$250	Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater
		Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

- SEER Requirements
 - Verify <u>outdoor unit</u> meets 15 SEER requirement by referencing Energy Trust of Oregon Qualifying Products List

Requirements

Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater

Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

 QPL may not include all qualifying units. Contact Energy Trust Residential team if a model appears to be missing.

Qualifying Central Air Conditioning Outdoor Units

Residential and Existing Multifamily Effective February 1, 2020



Models listed below are known to meet the manufacturer-listed minimum 15 SEER requirement and the minimum total system EER of 12 or greater for central air conditioning outdoor units. If you have questions about model eligibility or to verify eligibility of a model not found on this list, please contact us at residential@energytrust.org for single family homes and multifamily@energytrust.org for multifamily residences.

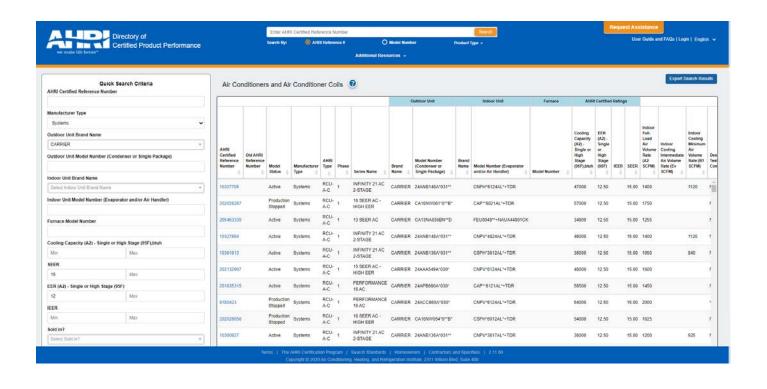
Manufacturer	Model Name	Model Number		
American Standard	SILVER 16	4A7A6, 4A7L6		
American Standard	GOLD 17	4A7C7, 4A7A7		
American Standard	PLATINUM 18	4A7V8		
American Standard	PLATINUM 20	4A7V0		
Amana	AVXC20	AVXC20		
Amana	ASXC18	ASXC18		
Amana	ASXC16	ASXC16		
Amana	ASX16	ASX16		
Bryant	LEGACY	105A, 116B, 106A		
Bryant	PREFERRED	126B, 126CNA, 127A		
Bryant	EVOLUTION	186B, 187B, 187BNC, 180C, 180B, 189BNV		
Carrier	COMFORT 15, COMFORT 16	24AAA5, 24ABC6, 24AAA6		
Carrier	PERFORMANCE 16, PERFORMANCE 17	24APB6, 24ACC6, 24ACB7		
Carrier	INFINITY 16, INFINITY 17, INFINITY 19, INFINITY 20, INFINITY 21	24ANB6, 24ANB7, 24VNA9, 24VNAO, 24ANB1		
Coleman	LX SERIES	CC7, CC17		
Coleman	ECHELON	AC21, AC19		
Daikin	DX16SA	DX16SA		
Daikin	DX16TC	DX16TC		
Daikin	DX17VSS	DX17VSS		
Daikin	DX18TC	DX18TC		
Daikin	DX20VC	DX20VC		
Goodman	GSX16	GSX16		
Goodman	GSXC16	GSXC16		
Goodman	GSXC18	GSXC18		
Lennox	XC13	XC13		
Lennox	16ACX	16ACX		
Lennox	EL16XC1	EL16XC1		
Lennox	XC16	XC16		
Lennox	XC20	XC20		
Lennox	SL18XC1	SL18XC1		
Lennox	XC21	XC21		
Lennox	XC25	XC25		
Payne	PA16NA	PA16NA		

- EER Requirements
 - Verify <u>entire system</u> meets minimum 12 EER requirement via AHRI lookup

Requirements

Minimum nominal Seasonal Energy Efficiency Rating (SEER) of 15 or greater for the outdoor unit, and a minimum total system Energy Efficiency Rating (EER) of 12 or greater

Ask your contractor to verify the outdoor unit can be found on the <u>qualifying</u> <u>products list</u> and that the total system achieves a minimum 12 EER rating via the <u>AHRI</u> website to ensure your installation qualifies.

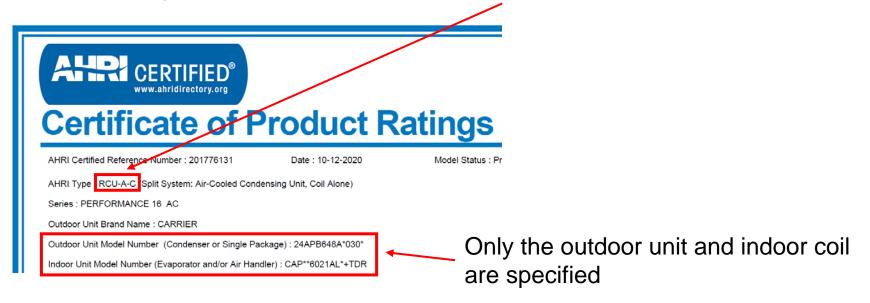


 AHRI Directory – online resource tool to lookup ratings for many HVAC system combinations, including Central AC.

- In order for a Central AC system to receive an incentive, the <u>entire system listed on AHRI</u> must be installed.
 - Essentially, if it's listed, it needs to be installed



- Some AHRI combinations do not require a specific indoor blower/air handler. In these instances, a coil and outdoor unit can be paired easily with an existing furnace/blower.
 - These systems are identified as "RCU-A-C"



- Some rated systems do require a specific air handler/blower (typically matching the brand of the outdoor unit and coil)
 - These systems are identified as "RCU-A-CB"



The outdoor unit, indoor coil AND furnace/air handler are specified

Ensuring Central AC application is completed correctly:

Upgrade type		Requ	irements				Incentive amount
Qualifying Central Air Conditioner		of the	System must be a qualifying central air conditioner serving most or all of the home. Residences primarily heated with a heat pump do not qualify. \$250				\$250
Central Air Conditioner Installed Cost:	\$	New heati	ng system ost (if applica	able	e): \$	System Capacity (Tons):	
Outdoor Manufacturer:				Outdoor Model:			
Indoor Evaporator Coil Manufacturer:				Indoor Evaporator Coil Model:			
Furnace/Blower Manufacturer:				Furnace/Blower Model #:			
	entive application	n along with	this applicati	ion	. For more information ab	please provide a customer out Energy Trust's gas furn	
Outdoor Unit SEER	To qualify for this incentive, the air conditioner outdoor unit is required to achieve a minimum nominal rating 15 SEER as stated by manufacturer. For list of known qualifying units, please visit: energytrust.org/central-air-conditioners/						
Outdoor Ollit GEET	Outdoor unit SEER per manufacturer (minimum 15):				Did this central air conditioner replace an existing central air conditioner? ☐ Yes ☐ No		
Outdoor Unit and	To qualify for this incentive, the system's outdoor unit and indoor coil are required to achieve a minimum rating of 12 EER per AHRI rating.						
Coil EER	Outdoor unit and indoor coil EER (per AHRI):						

Confirm each model listed on the AHRI certificate is included on this application

Either attach a copy of the AHRI certificate, or provide the corresponding AHRI cert. #

- Still have questions?
 - Reach out to your local account manager and schedule a Central AC/AHRI training to discuss each of these steps in-depth

Indoor Air Quality

- What does Indoor Air quality mean to attendees?
- How are they seeing this manifest in their work?



Thank you

Marshall Johnson
Residential Sr. Program Manager
marshall.johnson@energytrust.org

Kate Wellington
Multifamily Program Manager
kate.wellington@energytrust.org



Extra slides