



Residential Energy Efficiency Program

HVAC, Insulation, Windows & Doors Rebate Application

Offer valid until September 30, 2017
Contact CREA at (509) 526-4041 with questions.
Columbia REA will issue a check directly to our member for all rebates. Email applications to Dan at dandrews@columbiarea.coop .

All rebates are capped at 70% of actual cost or the approved amount, whichever is less.

MEMBER INFORMATION

Applicant Name (please print)	Phone Number	CREA Account #
Installation Address	City	Zip
Mailing address (if different, please indicate)	City	Zip

Energy Efficiency Measures	Building Description (No Rebates for New Construction)	Rebate Level	Job Cost	For CREA Use Only EEI#
PTCS Duct Sealing w/ Ducts Outside of conditioned space. Only when combined with a Heat Pump Installation	Existing Single-Family Homes	\$250		
	Existing Manufactured Homes	\$250		
Upgrade- Heat Pump to PTCS Air Source Heat Pump (Includes PTCS Commissioning & Controls) Minimum – HSPF 9.0 + SEER 14 Installer must be PTCS certified and listed in the registry.	Existing Single-Family Homes	\$800		
	Existing Manufactured Homes	\$800		
Conversion- Electric Forced Air Furnace to PTCS Air Source Heat Pump (Includes PTCS Commissioning & Controls) Minimum – HSPF 9.0 + SEER 14 Installer must be PTCS certified and listed in the registry.	Existing Single-Family Homes	\$1100		
	Existing Manufactured Homes	\$1100		
Ductless Heat Pump with zonal electric heat. One rebate per home.	Existing Single-Family and Manufactured Homes	\$800		
Ductless Heat Pump with electric forced air furnaces, with or without air conditioning. One rebate per home.	Existing Single-Family and Manufactured Homes	\$800		

Energy Efficiency Measures	Description	Rebate Level	Existing/ Final R-Value	Area Sq/Ft	Job Cost	Rebate Amount	For CREA Use Only EEI#
Weatherization for Existing Homes							
S/F Attic Insulation	< R11 to R19	\$.59/sq/ft					
S/F Attic Insulation	R19 to R38	\$.21/sq/ft					
S/F Attic Insulation	< R11 to R38	\$.80/sq/ft					
S/F Attic Insulation	R19 to R49	\$.26/sq/ft					
S/F Attic Insulation	< R11 to R49	\$.85/sq/ft					
S/F Attic Insulation	R38 to R49	\$.05/sq/ft					
S/F Floor Insulation	< R11 to R19	\$.65/sq/ft					
S/F Floor Insulation	R19 to R30	\$.12/sq/ft					
S/F Floor Insulation	< R11 to R30	\$.77/sq/ft					
S/F Wall Insulation	< R11 to R11	\$.61/sq/ft					
Multi/F Attic Insulation	< R11 to R19	\$.58/sq/ft					
Multi/F Attic Insulation	< R11 to R38	\$.70/sq/ft					
Multi/F Attic Insulation	R19 to R38	\$.11/sq/ft					
Multi/F Floor Insulation	< R11 to R19	\$.37/sq/ft					
Multi/F Floor Insulation	< R11 to R30	\$.43/sq/ft					
Multi/F Floor Insulation	R19 to R30	\$.07/sq/ft					
Multi/F Wall Insulation	< R11 to R11	\$.67/sq/ft					
Manufactured Home Floor Insulation	< R11 to R11	\$.30/sq/ft					
Windows and/or Patio Door Replacement	Existing Window/ Patio Door Description	Rebate Level	Weighted Average U-Value Rating:	Area Sq/Ft	Job Cost	Rebate Amount	For CREA Use Only EEI#
<i>Electric Heat source only</i> S/F Efficiency Upgrade	Single pane window, any frame type or double pane window, metal frame type	\$3/sq/ft	0.30				
<i>Electric Heat source only</i> S/F Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door, metal frame type	\$3/sq/ft	0.35				

<i>Electric Heat source only</i> S/F Efficiency Upgrade	Single pane window, any frame type or double pane window, metal frame type	\$4/sq/ft	0.22				
<i>Electric Heat source only</i> S/F Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door, metal frame type	\$4/sq/ft	0.30				
<i>Electric Heat source only</i> Multi/Family Efficiency Upgrade	Single pane window, any frame type or double pane window, metal frame type	\$6/sq/ft	0.30				
<i>Electric Heat source only</i> Multi/Family Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door, metal frame type	\$6/sq/ft	0.35				
<i>Electric Heat source only</i> Multi/Family Efficiency Upgrade	Single pane window, any frame type or double pane window, metal frame type	\$8/sq/ft	0.22				
<i>Electric Heat source only</i> Multi/Family Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door metal frame type	\$8/sq/ft	0.30				
<i>Electric Heat source only</i> Manufactured Home Efficiency Upgrade	Single pane window, any frame type or double pane window, metal frame type	\$3/sq/ft	0.30				
<i>Electric Heat source only</i> Manufactured Home Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door, metal frame type	\$3/sq/ft	0.35				
<i>Electric Heat source only</i> Manufactured Home Efficiency Upgrade	Single pane window, any frame type or double pane	\$4/sq/ft	0.22				

	window, metal frame type						
<i>Electric Heat source only</i> Manufactured Home Efficiency Upgrade	Single pane patio door, any frame type or double pane patio door, metal frame type	\$4/sq/ft	0.30				
Insulated Exterior Doors	Description	Rebate Level	Door Measurements	Number of Doors Replaced	Job Cost	Rebate Amount	For CREA Use Only EEI#
<i>Electric Heat source only. Must be Energy Star Rated.</i> S/F Efficiency Upgrade		\$40.00					
<i>Electric Heat source only. Must be Energy Star Rated.</i> Manufactured Home Efficiency Upgrade		\$40.00					

Contractor checklist for HVAC and Weatherization Measures

<u>HVAC Measures</u>	<i>Eligibility Requirements: (Columbia REA members only)</i>	<i>Single Family Existing*</i>	<i>Manufactured Home Existing</i>	<i>Paperwork to be submitted to Columbia REA</i>
PTCS Duct Sealing	Any electric forced air furnace or heat pump system with at least 50% of ducts outside <i>Pre leak must meet PTCS requirement</i>	\$250	\$250	<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application <input type="checkbox"/> PTCS Duct Seal Report
● New PTCS Air Source Heat Pump 9.0 HSPF and 14 SEER or better	Upgrading a Heat Pump	\$800	\$800	<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application <input type="checkbox"/> PTCS Commissioning <input type="checkbox"/> AHRI Certification <input type="checkbox"/> Balance Point Worksheet <input type="checkbox"/> Load Calculations <input type="checkbox"/> Five year manuf's warranty
	Converting from Zonal Electric System	\$1100	\$1100	
	Converting from Electric Forced Air Furnace	\$1100	\$1100	
Ductless Heat Pump	<ul style="list-style-type: none"> Existing construction Only one rebate per residence Must have permanently installed zonal electric heat as primary system 	\$800	N/A	<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Contractor Invoice Form <input type="checkbox"/> Rebate Application <input type="checkbox"/> NW Ductless Pre-Approval <input type="checkbox"/> NW Ductless Final Approval

Contractor checklist for HVAC and Weatherization Measures

<u>Weatherization Measures</u>	Eligibility Requirements: <i>(Columbia REA members only)</i>	<i>Single Family*</i> <i>New</i> <i>Non Energy Star</i>	<i>Single Family*</i> <i>Existing</i>	<i>Manufactured Home</i>		Paperwork to be submitted to Columbia REA
				<i>Existing</i>	<i>New</i>	
Attic Insulation	Any electrically heated home <ul style="list-style-type: none"> • Ex ins <R11 = R-0, • Ex ins R11 – R19=R19 • Ex ins>R19 = R-38 	See rebate application	See rebate application	N/A		<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application**** <input type="checkbox"/> Installation Certificate <input type="checkbox"/> Two Year Warranty
Floor Insulation	Any electrically heated home <ul style="list-style-type: none"> • Ex ins <R11 = R-0, • Ex ins R11 – R19=R19 • Ex ins>R19 = R-38 	See rebate application	See rebate application	See rebate application		<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application**** <input type="checkbox"/> Installation Certificate <input type="checkbox"/> Two Year Warranty
Wall Insulation	Any electrically heated home Must have 1 inch or less existing insulation	See rebate application	See rebate application	N/A		<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application**** <input type="checkbox"/> Installation Certificate <input type="checkbox"/> Two Year Warranty
Replacement Windows or Patio Doors	Any electrically heated home Must replace single pane, single pane with storm or double pane with metal frame. Must be NFRC Certified weighted average of ≤ U-0.30 for windows or ≤ U-0.35 for patio doors	See rebate application	See rebate application	See rebate application		<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application**** <input type="checkbox"/> Window Installers Certificate <input type="checkbox"/> U-Factor documentation <input type="checkbox"/> Required Warranties
Insulated Exterior Doors	Replace un-insulated or otherwise substandard exterior doors. Must be a pre-hung ENERGY STAR qualified door and include replacement of the threshold. <i>Multifamily does not qualify at this time.</i>	N/A	\$40.00	\$40.00		<input type="checkbox"/> Customer Invoice*** <input type="checkbox"/> Rebate Application**** <input type="checkbox"/> ENERGY STAR product list showing ENERGY STAR logo <input type="checkbox"/> Required Warranties

PTCS® Air Source Heat Pump Form

All fields must be completed by a PTCS Certified Technician.

- 1) Enter this information online at ptcs.bpa.gov or fax it to 1-877-848-4074 for entry.
- 2) Submit this form to customer's utility with additional documentation required by utility, including sizing documentation.

Have questions? Visit www.bpa.gov/goto/reshvac, call 1-800-941-3867, or email ResHVAC@bpa.gov.

Site Information (Please print clearly)

PTCS Tech #	PTCS Tech Name	Install Date	Electric Utility
Customer Name		Installation Site Address*	
Site City*	Site State*	Site Zip*	Customer Phone # () -
*Mailing address if different (#, City, St, Zip):			
Home Type: <input type="checkbox"/> Existing Site Built <input type="checkbox"/> New Construction Site Built <input type="checkbox"/> Manufactured: # of Sections <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
Heated Area: Sq Ft		Foundation Type (Site Built) : <input type="checkbox"/> Crawlspace <input type="checkbox"/> Full Basement <input type="checkbox"/> Half Basement <input type="checkbox"/> Slab	
Existing Heating System Being Replaced (If new home, indicate heating system installed):			
<input type="checkbox"/> Electric Forced Air w/out AC <input type="checkbox"/> Electric Forced Air w/ AC <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Air Source Heat Pump <input type="checkbox"/> Ground Source Heat Pump <input type="checkbox"/> Natural Gas Furnace (Gas Company: _____) <input type="checkbox"/> Other Non-Electric Space Heating: _____			
Back up Heat: <input type="checkbox"/> None <input type="checkbox"/> Electric Forced Air <input type="checkbox"/> Electric Zonal <input type="checkbox"/> Natural Gas Furnace <input type="checkbox"/> Non-Electric Space Heating			

New Heat Pump Equipment Data

**PTCS requires minimum 9.0 HSPF, 14 SEER. Commissioning, Controls & Sizing requires Federal minimum. Check with utility for requirements.

AHRI #	SEER**	HSPF**	Outdoor HP Capacity (tons)
Heat Pump Make	Outdoor HP Model #		<input type="checkbox"/> Non Variable Speed HP <input type="checkbox"/> Variable Speed HP
	Indoor HP Model #		What is the Balance Point? _____ Provide BP documentation to utility.

Did you perform all of your tests in Test Only/Check Charge mode? Yes No

External Static Pressure Test

Check unit operating at full capacity unless conditions do not permit.

1. Measure return static pressure 2. Measure supply plenum static pressure 3. Calculate external static pressure: add values in #1 and #2 values; ignore the minus sign	1. Return Static Pressure 2. Supply Static Pressure	Units: <u>Use same units for TrueFlow test</u> <input type="checkbox"/> Pa <input type="checkbox"/> Inches H2O 3. External Static Pressure	Note: Any External Static Pressure above 200 Pa or 0.8 Inches H ₂ O will result in a rejection.
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TrueFlow Test

1. Measure NSOP (Normal System Operating Pressure) [A] 2. Check TrueFlow plate size and location 3. Measure TFSOP (Supply Pressure with TrueFlow Plate) [B] 4. Calculate Correction Factor [C] 5. Measure plate pressure 6. Enter Raw Flow CFM from tables [D] 7. Calculate Corrected Flow 8. Calculate CFM/ton	1. NSOP [A] 3. TFSOP [B]	2a. Plate Size: <input type="checkbox"/> 14 <input type="checkbox"/> 20	2b. Plate location: <input type="checkbox"/> Air Handler <input type="checkbox"/> Return Grille	4. Correction Factor [C] from table or calculate $\sqrt{[A]/[B]}$ 6. Raw Flow CFM from tables [D]	7. Corrected Flow CFM = [C] x [D]	8. CFM/ton <i>Please submit proof of manufacturer's target CFM/Ton if under 325.</i>
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Refrigerant Charge Information

Outside Air Temp	°F	Mode unit tested in: <input type="checkbox"/> Heating (if ≤ 65°F) <input type="checkbox"/> Cooling (if > 65°F)
Total lineset length	ft.	Refrigerant adjustment: <input type="checkbox"/> Added _____oz. <input type="checkbox"/> Removed _____oz. <input type="checkbox"/> None

Performance Test

Run unit for at least 15 minutes in compressor-only mode before taking readings.

Heating Mode (65°F or lower)	Cooling Mode (higher than 65°F)	Alternative Test Method
Supply Air (SA) Temp	Discharge Pressure	Specify method used
Return Air (RA) Temp	Discharge Temp [A]	Target
Temp Split (SA – RA)	Liquid Line Temp [B]	Test result
Expected Temp Split from table: Meets specification? <input type="checkbox"/> Y <input type="checkbox"/> N	Sub cooling [A] – [B] Meets specification? <input type="checkbox"/> Y <input type="checkbox"/> N	Meets specification? <input type="checkbox"/> Y <input type="checkbox"/> N

Controls

Compressor Low Ambient Lockout control (LAL) setting at 5° or less? <input type="checkbox"/> Yes <input type="checkbox"/> Not Installed/Disabled <input type="checkbox"/> Non-Electric Backup <input type="checkbox"/> No		Auxiliary (strip) heat lockout has been set to: <input type="checkbox"/> 35°F <input type="checkbox"/> Below 35°F
HP Thermostat Make	HP Thermostat Model	
Multiple Capacity Compressor systems (<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable) <input type="checkbox"/> If the discharge air sensor control is used to control auxiliary heat, confirm it is set no higher than 85 °F or, <input type="checkbox"/> If staging thermostat is set warmer than 85 °F, confirm resistance heat cannot operate at temperatures above 35 °F		

Notes

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Required Signatures: This section shall be filled out by the electrical utility account holder. This form must be signed by the person whose name appears on the electric utility account. ENERGY INFORMATION RELEASE: The undersigned utility customer requests and authorizes the specified utility to release billing and usage information for the account listed below to the PTCS program. With this authorization, the PTCS program can request billing information for up to two years pre-installation and two years post-installation. The utility customer also hereby releases the utility company from any and all liability arising from or connected with providing this information.

Electric Utility	Account #	
Account Holder Name		
Account Holder Signature		Date
By signing below, technician certifies that this form and any accompanying documentation are complete and accurate, and that all measures associated with this project were completed as of the signature date below.		
Technician Name	Installation Company	
Technician Signature	Date	Tech Phone # () -

PRIVACY ACT STATEMENT Basic authority for collecting this information is authorized by 16 U.S.C. §§ 832 et. seq., and 838 et. seq., pursuant to Bonneville Power Administration's Conservation Program system of records established in 46 FR 31700. This information is primarily intended to further, but is incidental to the performance of, BPA's overall Energy Efficiency Program, the objective of which is to acquire energy resources through energy efficiency, to determine what cost-effective conservation and direct application renewable resources measures should be installed or adopted under different circumstances, and to provide incentives for the installation of such measures. Other routine issues of this information include: aggregation into a public database on energy efficiency; furnished to authorized personnel for installation/repair of equipment; aggregated into a database for program publicity; and in some instances information regarding buildings will be made available to subsequent purchasers of the buildings. Your disclosure of the requested information is voluntary; however failure to provide requested information means that it will not be possible for you to participate in this BPA Energy Efficiency program.

Contractor checklist for HVAC and Weatherization Measures & Rebate Approval Section

- PTCS Commissioning & Controls incentives are already included in the measure and may not be claimed separately. PTCS Duct Sealing is to be claimed as a separate measure, unless 50% or more of the ducts are inside of conditioned space, or the ducts have been previously sealed and PTCS certified, or the ducts are not leaky enough to warrant sealing.

*Single Family

Single Family includes buildings with four or fewer residences. Site built Energy Star single family homes do not qualify. Energy Star manufactured homes are eligible for the program. All other rebates are available at one or possibly more per residence. For example, two PTCS Heat Pump rebates can be paid in homes that are larger than 4500 sq. ft. and have two heat pump systems. Consult a Columbia REA energy advisor for multiple rebate approval.

**Multi-Family

Multi-Family includes buildings with more than four residences and three or fewer stories.

***Customer Invoices

Customer Invoices must reflect the following:

- Itemized list of all equipment installed
- The total cost to the customer

****Rebate Application

Weatherization measures on rebate application must detail pre and post insulation levels, existing windows types and description of the home for doors (when bidding window replacements must include square footages). This is needed to satisfy BPA's energy audit requirement.

Total Job Cost and CREA Approved Rebate

Total Job Cost (including tax)	\$
Rebate to Member from CREA	\$
Total Cost to Member (including tax)	\$
<p><i>I understand that Columbia REA reserves the right to inspect completed projects and reports savings to Bonneville Power Administration (BPA) for this program. BPA chooses a small percentage of projects to re-inspect. I will allow CREA and BPA inspections. I understand that I will receive a CREA rebate in the form of a rebate check upon project completion and acceptance. I acknowledge that Columbia REA's HVAC and Weatherization Rebate Program are subject to change, and funding availability.</i></p> <p>Applicant Signature _____ Date _____</p>	

***All rebate amounts are dependent upon REEP specifications at the time the form is received by Columbia REA**

FOR COLUMBIA REA USE ONLY		
Vendor/Invoice#	Approved? YES NO	Verified by/Date
Billing Credit entered by/Date		Total Amount