

## Klickitat PUD Residential Weatherization Energy Efficiency Program Participation Requirements and Instructions

Thank you for your interest in our Residential Weatherization Energy Efficiency Program. We are pleased that we have the opportunity to offer this service to you through our association with Bonneville Power. Because of this collaboration of funds the information we collect from you is required to help determine your eligibility and may also be used to evaluate and audit data about energy use and the conservation program as a whole. With that, your information may be requested for certain site visits to evaluate the performance of the program and is to be kept available for three years. No personal information will be issued to the public.

### PROGRAM REQUIREMENTS

Residential weatherization measures include prime windows, exterior insulated doors, insulation and air sealing and must be installed according to KPUD, 2022 BPA Residential Weatherization Standards (visit [www.klickitatpud.com](http://www.klickitatpud.com) or available upon request), and manufacturer standards & specifications and are subject to inspection for the approval process. KPUD reserves the right to make changes to all programs and rebates are subject to the availability of funds through the Energy Efficiency Program.

Most of the weatherization measures can be self-installed, however if you choose to use a contractor they must be bonded, licensed and approved in the State of Washington. KPUD also has an “Authorized Contractor” list available. If you are self-installing, no labor charges can be added to the final costs on submitted invoices. Any structural defects in the residence (e.g. dry rot, roof leaks, and water pipe leaks. Etc...) must be repaired prior to the installation of any KPUD approved measures, and paid by the customer.

All installations must comply with applicable state and local codes, HUD codes and federal regulations as appropriate.

**NOTE TO INSTALLERS:** Please contact KPUD’s Energy Services to obtain specifications and requirements as each measure may require special forms and procedures to be followed.

**QUALIFYING RESIDENCE:** Most residential weatherization measures are available for existing single- family, existing manufactured homes. Custom projects may be available for multifamily (5 or more dwelling units within one structure). New construction is NOT eligible. Review each measure description for the complete requirements.

**EXISTING HEATING SYSTEM REQUIREMENTS:** To be eligible for most weatherization measures, homes must have an electric heating system as the primary system; or homes must have one of the following listed below. Review each measure description for the complete requirements

Primary Residential Heating System	Home Type			
	Single Family: Existing	Manufactured: Existing	Multifamily: Existing	New Construction
Electric Forced-Air Furnace	Eligible	Eligible	Eligible with limitations	NOT Eligible
Electric Ducted Heat Pump	Eligible	Eligible	Eligible with limitations	
Electric Ductless Mini-Split Heat Pump	Eligible	Eligible	Eligible with limitations	
Zonal (electric-resistance or plug-in space heater)	Eligible	Eligible	Eligible with limitations	
Wood or Pellet	Eligible when accompanied by an electric heating system			
Oil/Gas/Propane	Eligible as supplementary heat for a heat pump system. Eligible if accompanied by an electric heat system, however, the non-electric heating system must be decommissioned			
None Existing	NOT Eligible			

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## PROGRAMS AVAILABLE

### WINDOWS and PATIO DOORS REPLACEMENT:

#### **Qualifying Specifications:**

Pre-existing windows and patio doors must be:

1. Single pane with/without storms, any frame type (e.g., metal, wood, vinyl), or
2. Double pane, metal frame only.

New installations must meet these minimum general requirements, but not limited to (See 2022 BPA Residential Weatherization Standards for more detail):

1. Be Increased to Energy Star windows with a National Fenestration Rating Council (NFRC) minimum U-value of .30 or lower and Patio / French doors with a U-value of .35 or lower.
2. Caulk and prime all exterior wood, including frame, sash, trim, stops and sills on all sides and ends.
3. Support the bottom rail of a patio door within 1/2 inch of exterior edge of the frame. Any wood that touches the ground or concrete must be pressure-treated.
4. Incorporate the replacement window and window opening into the home's water-resistive barrier using proper flashing techniques for each specific window type.
5. Seal the structural frame to the window, and seal surrounding gaps and cracks. A) Frame: Install caulk or low-expansion foam between window frame and rough opening. Install backer rod or non-expanding foam and caulk where gap is greater than 3/8 inch. B) Exposed framing components: Caulk at exposed wood-to-wood framing cracks; remove sash weights, if applicable, and seal and insulate weight channels.
6. Cover gaps of over 3/8 inch between the exterior siding and the window with solid trim material. Fill all exterior or interior voids over 3/8 inch in width or depth with window manufacturer approved materials, such as non-expanding foam, backer rod, or similar product prior to caulking, if caulking will be applied.
7. Where an existing window meets code-required egress requirements, the replacement window must also meet those egress requirements. Note: Manufactured Homes bedroom windows have special egress codes, check with your local code enforcement office.

#### **Measure Specific Completion Requirements:**

1. KPUD must make a pre-install and post-install inspection inside of the residence and have access to all windows being replaced to qualify.
2. Leave the NFRC labels on the windows for post-install inspection to be removed by KPUD. If removed project may not qualify for rebate.

***See Final Inspection and Completion Procedure for minimum required paperwork required***

### EXTERIOR INSULATED DOORS:

This measure is for the replacement of an uninsulated or otherwise substandard exterior door in conditioned home spaces only.

#### **Qualifying Specifications:**

1. The new door must be a pre-hung.
2. Must also include the replacement of the threshold.
3. Must be either ENERGY STAR certified or be NFRC-rated and meet the glazing, U-factor and solar heat gain coefficient requirements below

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Glazing Level	U-Factor	Solar Heat Gain Coefficient
Opaque	≤ 0.17	No rating
≤ ½-Lite	≤ 0.25	≤ 0.25
>½-Lite	≤ 0.30	≤ 0.40

### Measure Specific Completion Requirements:

- Documentation of proof of either Energy Start or NFRC-Rating (packaging/label/sticker)  
*See Final Inspection and Completion Procedure for minimum required paperwork required*

### INSULATION:

#### Qualifying Specifications:

- Single Family can qualify for the following insulation measures: Attic, wall/knee wall and floor.
- Manufactured homes can qualify for the following insulation measures: Attic and floor.
- Multifamily may qualify for the following insulation measures: Attic, wall/knee wall and floor.

Pre-existing requirements vary from measure and home type. See Rebate Value chart for determination of qualification.

New insulation installations must meet these minimum general requirements, but not limited to (See 2022 BPA Residential Weatherization Standards for more detail):

- All materials must be installed according to the manufacturer's instructions.
- All materials must resist environmental degradation according to how they're used and their exposure to environmental factors.
  - \*Materials used in weatherization must resist corrosion if exposed to corrosive materials.
  - \*Materials used in weatherization must resist mold and rot if exposed to ground moisture or a foundation.
  - \*Materials used in weatherization must resist degradation from ultraviolet light if exposed to ultraviolet light.
  - \*Materials used in weatherization must be compatible with other elements and materials for the sake of durability (for example: won't react chemically).
- Structural members and building components must be free of decay and must be structurally sound before weatherization measures are installed in their vicinity.
- Contractors must warrant all weatherization materials, products, and labor against failure due to manufacturing and installation defects for a period of at least 2 years from the installation date.
- The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Handbook of Fundamentals is the accepted standard for R-value/U-factor of materials used by contractors. Products that vary from ASHRAE are acceptable if they comply with current Federal Trade Commission (FTC) certifications, testing and labeling rules, and have independent laboratory testing that indicates the product's R-value/U-factor.
- Insulation materials must meet the requirements of the Federal Trade Commission Labeling Rule (16 CFR 460).
- The UL label or equivalent label must appear on every bag of loose fill cellulose material. It must include the file number (R-number) of the manufacturer and the issue number for labels purchased. This ensures adherence to the requirements of CPSC cellulose regulation 16 CFR 1209, which includes critical radiant flux, smoldering combustion, settled density, and corrosiveness.
- Insulation materials must comply with fire-barrier requirements in local building codes, according to whether insulation is installed in an occupied area of the home or in an intermediate zone, such as an attic or crawlspace.

## **Klickitat PUD Residential Weatherization Energy Efficiency Program Participation Requirements and Instructions**

### **Measure Specific Completion Requirements:**

1. KPUD must make a pre-install, in-progress (when needed) and post-install inspection inside of the residence to qualify.
2. Labels of materials used must be submitted. If not provided, project may not qualify for rebate.
3. Insulation project must consist of replacing all of one specific area. Examples: all of attic or all of floor or all of wall. No section work will be allowed for rebate.

***See Final Inspection and Completion Procedure for minimum required paperwork required***

### **AIR SEALING (Whole House & Prescriptive):**

#### **Qualifying Specifications: Whole House Air Sealing & Testing**

1. This measure must be completed by an approved and licensed technician.
2. This measure is not available in multifamily homes.
3. The use of a blower door to measure and identify air leakage locations is required.
4. If Performance Tested Comfort System (PTCS) duct sealing is performed at the same time as air sealing, the baseline blower door CFM50 reading for the whole house air sealing and testing measure must be taken with all the supply and return duct registers temporarily sealed off, so that house air leakage can be measured independently from duct leakage.
5. If combustion appliances are present (e.g., fireplace, wood or gas stove, gas range, gas water heater), a UL- or CUL-approved carbon monoxide detector must be present or be installed.
6. Additional documentation showing the following requirements is required:
  - Pre- and post-conditions CFM (CFM at 50 Pascals)
  - Total square footage of the pressure zone tested and sealed (typically this is the conditioned, interior space heated floor area of the home)
  - Building volume
  - Notes on mechanical ventilation requirement

***See Final Inspection and Completion Procedure for minimum required paperwork required***

#### **Qualifying Specifications: Prescriptive Air Sealing**

1. This measure must be completed by an approved and licensed technician.
2. This measure is only available for Single Family dwellings (No manufactured homes or multi-family homes).
3. This measure is available for attic and crawls spaces only.
4. Prescriptive air sealing must be performed according to the KPUD and BPA Residential Weatherization Specifications.
5. If combustion appliances are present (e.g., fireplace, wood or gas stove, gas range, gas water heater), a UL- or CUL-approved carbon monoxide detector must be present or be installed.
6. Additional documentation showing the following requirements is required:
  - Documentation of square footage of area air sealed and age of the home.

***See Final Inspection and Completion Procedure for minimum required paperwork required***

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## **IMPLEMENTATION PROCESS**

Request a Pre-Audit of the home with our Energy Services Specialist from KPUD to start the process. Call (509) 773-7622 to schedule an appointment. Rebates may be denied if a pre-audit is not completed prior to starting the work.

1. Read the desired projects Program's Participation Requirements and Instructions pages.
2. Complete Residential Weatherization Rebate Application.

## **BID ACCEPTANCE AND INSTALLATION PROCEDURE**

1. Most of the weatherization measures can be self-installed, however if you choose to use a contractor they must be bonded, licensed and approved in the State of Washington. KPUD also has an "Authorized Contractor" list available. For home-owner self-installs, no labor charges can be added to the final costs on submitted invoices. It is suggested that you obtain at least two (2) bids and no bid be accepted unless the premises have been visited and physically inspected by the bidding contractor.
2. Complete any needed contractor required paperwork.
3. If you wish to use KPUD's Conservation Loan Program for your project, please contact our Energy Services department for more information and application as the process is different that stated herein.
4. If you think you may qualify for our Low-Income Program, please contact our Energy Services department for more information and application as the process is different that stated herein.

## **FINAL INSPECTION AND COMPLETION PROCEDURE**

1. After the installation of all materials, contact KPUD to schedule an on-site inspection.
2. We request that homeowner and/or occupant be present for the inspection.
3. If corrections are needed, KPUD will provide documentation for the installer to clarify changes required comply with installation requirements.
4. If corrections were required, another inspection will need to be scheduled.
5. Once all work is complete and approved by you and KPUD; KPUD will then process the rebate request for approval and payment if approved and if/when funds are available.
6. Minimum required paperwork must be submitted for each measure:
  - a. Equipment/contractor invoice showing:
    - \* Manufacturer
    - \* Model number
    - \* Type, size and quantity of equipment or product installed or used
    - \* Purchase date
    - \* Installed costs
  - b. Measure specific required documentation (see each measure for more detail)
  - c. Completed Residential Weatherization Rebate Application.

## **NOTICES AND DISCLAIMERS**

Kickbacks, rebates, non-authorized discounting of bids or other non-program benefits from the Contractors are prohibited, and may be subject to federal law. All materials and installations must comply with current KPUD/BPA conservation specifications in order to be eligible for funding.

Contractors, participating in the program shall not be considered officers, agents or employees of BPA or KPUD; therefore, KPUD shall not be liable for the tortuous acts or omissions of the Contractors or other independent contractors. All installations are subject to Quality Assurance oversight inspections by BPA approved Inspectors.

## Klickitat PUD Residential Weatherization Energy Efficiency Program Participation Requirements and Instructions

### REBATE VALUES

Klickitat PUD reserves the right to make changes to all programs and rebates are subject to the availability of funds through the Energy Efficiency Program. See measure specific details as shown herein.

Measure:	Minimum Installed Requirements	Rebate Value
<p style="text-align: center;"><b><u>Windows</u></b> (Existing Single-Family/Manufactured Home) From: Single-pane any frame Or Double-pane metal frame</p>	<p>Must be installed to a u-value of .30 or less Stickers must be left on windows for verification by KPUD</p>	<p>\$4.50 per sq.' of existing window space</p>
<p style="text-align: center;"><b><u>Patio Door (glass)</u></b> (Existing Single-Family/Manufactured Home) From: Single-pane any frame Or Double-pane metal frame</p>	<p>Must be installed to a u-value of .35 or less Stickers must be left on windows for verification by KPUD</p>	<p>\$4.50 per sq.' of existing window space</p>
<p style="text-align: center;"><b><u>Exterior Insulated Door</u></b> (Existing Single-Family/Manufactured Home)</p>	<p>Must be ENERGY STAR or NFRC-rated and meet U-factor requirements, Pre-hung, Replacement of threshold</p>	<p>\$40.00 per door</p>

Home Type	Insulation Measure	<u>Maximum Pre-Existing Requirement</u>	<u>Minimum Installed Requirement</u>	Rebate Value
Existing Single Family	Attic/A-Frame Sloped Ceiling	R-0 to R-7	R-38	\$1.15 per sq.'
		R-8 to R-11	R-38	\$0.50 per sq.'
	Floor	R-0 to R-11	R-19	\$0.50 per sq.'
	Wall/Knee Wall	R-0 Only	R-11	\$1.15 per sq.'
Existing Manufactured Home	Attic	R-0 to R-7	R-22 or Max possible	\$0.50 per sq.'
	Floor	R-0 to R-7	R-22 or Max possible	\$0.50 per sq.'
Air-Sealing	<p><b>Contact KPUD for more detail</b> Whole house Rebate is based on the quantity difference between pre &amp; post CFM50 test  Prescriptive is based on square footage</p>			
Custom Projects	Other weatherization projects, Income Qualified, Multi-Family Low-Rise or Mid-High Rise			

**\*REBATE PAYMENTS WILL BE CAPPED AS NOT TO EXCEED ACTUAL APPROVED COST OF ANY PROJECT \***