

# October Implementation Manual Update and Rate Period Change Notice

September 23, 2021

*Note: Based on feedback received during the webinar, this presentation was updated 9/24/2021.*



# **General IM Changes** ***Effective April 1, 2022***

Corinne Mauck,  
Implementation Manual Coordinator

# Universal Changes

Changes made throughout the Implementation Manual:

- Upon implementation of BEETS, the [eedocs@bpa.gov](mailto:eedocs@bpa.gov) document submittal channel will be retired. All references to [eedocs@bpa.gov](mailto:eedocs@bpa.gov) will be removed.

# Changes to Sector Sections

- The Basis for Savings portion for many measures will be changed. For measures that are RTF approved, the Basis for Savings will be simplified to a basic description of the technology and further details are available at the RTF website. Hyperlinks will be provided.
- Energy Efficiency Promotional Payment Rates: BPA will retire promotional residential and commercial HVAC payments, effective March 31, 2022.

# Definitions: Completion Date

- For UES and site-specific calculated measures, Completion Date is determined by the utility and is defined as one of the following:
  - a) A date within 6 months of equipment purchase; or
  - b) A date within 6 months of the measure installation; or
  - c) Utility's measure approval date (e.g. when a utility pays their end-user, when a utility completes a post-installation inspection, when a utility completes a measure distribution form, etc.)
- For Option 1 custom projects and measures that follow a similar process, Completion Date is defined as the date that a COTR approves the Custom Project Completion Report.
- For Option 2 custom projects, Completion Date is defined as the date identified in the customer's approved Measurement and Verification Plan.

# Changes to Sections 1-3

Michelle Lichtenfels,  
EE Contract Administration Manager

# Section 1: General

- BPA will move the COTR Request and Acknowledgement Procedure from the Multi Sector Section 12 to Section 1.7.

## Section 2. BPA Funding

1. Funding Terminology (new subsection): Consolidates definitions for BPA funding terms which were previously located in the Definitions section or other areas of Section 2. This includes: Available Implementation Budget, Bilateral Transfer, Initial Implementation Budget, Tier One Cost Allocation, Unassigned Account.
2. Bilateral Funding: This section will be updated to reflect BEETS reporting and invoicing process. This includes the removal of "eedocs@bpa.gov" as a method to submit reporting and invoicing-related documents.



## **Section 2. BPA Funding (cont'd)**

3. BPA will clarify Inter-Rate Period Budget Flexibility (Rollover) to reflect that customers may transfer up to 10% of their initial implementation budget or up to \$50,000 of their available implementation budget, whichever is greater.
4. Performance Payments: Effective April 1, 2022, BPA will incorporate language associated with capping performance payments for shorter measure lives.

# Section 3. General Requirements

- The Reporting Requirements section will be fully updated to reflect BEETS reporting requirements. This includes:
  - Non-Reportable will have a separate reporting methodology in BEETS for achieved energy savings.
  - Updated UES measure reporting rules.
    - a. If a UES measure expires, the measure must be reported and submitted for compliance review within six months of the expiration date.
    - b. If a UES measure is modified but not expired (e.g. updated documentation requirements), the measure must be submitted per the current rate period reporting requirements and will receive the payment rate in effect at the reported completion date.
- The Oversight and Evaluation section will each become their own section in Section 3. For Oversight, language will be slightly updated to reflect BEETS implementation.

# Changes to Custom Projects

Erin Hope,  
EE Engineering Manager

# Section 4: Custom Projects

## 4.0 Custom Projects

- Language throughout the section will be updated to align with other IM sections and to clarify custom project requirements. It will **not** change option 1 or option 2 custom project requirements.
- 4.1 Incentive rate for new construction and major renovation for utility distribution measures with a measure life of 20+ years will increase from \$0.25 to \$0.35.
- 4.2.1 Progress Payments will be retired effective April 1, 2022.

# Custom Projects (cont'd)

## 4.3.2 Custom Project General Requirements

Option 1 Custom Projects must meet the following B/C ratio requirements:

- If the project savings are 200,000 kWh or less (800,000 kWh or less for Utility Distribution measures), no cost-effectiveness screen is applied.
- If the project savings are over 200,000 kWh (over 800,000 kWh for Utility Distribution measures), and the project has a BPA-approved proposal, the proposal must demonstrate that the project has a B/C ratio  $\geq 0.5$  based on proposed costs and savings. No additional screen will be applied at the completion report.
- If the project savings are over 200,000 kWh (over 800,000 kWh for Utility Distribution measures), and the project does not have a BPA-approved proposal, the completion report must demonstrate that the project has a B/C ratio  $\geq 0.5$ .

# Custom Projects (cont'd)

## 4.3.2 Custom Project General Requirements

- Upon implementation of BEETs, Option 2 custom projects must meet the following B/C ratio requirements:
  - If the project savings are 200,000 kWh or less, no cost-effectiveness screen is applied.
  - If the project savings are >200,00 kWh, the completed project must have a B/C ratio  $\geq 0.5$ .
- The requirement of a minimum B/C ratio of 1.0 at the invoice level for custom projects will be removed.

# Changes to Custom Programs

Jess Kincaid,  
Residential Sector Lead

# Section 5: Custom Programs

## 5.0 Custom Programs

- BPA will reinstate Custom Programs on April 1, 2022 with a revised process. The new process will include three required phases:
  1. Prescreening,
  2. Custom Program Proposal, and
  3. Custom Program Completion.
- The new process will also include pre-determined documentation and submission requirements.



# Agricultural Changes

Dave Murphy,  
Agricultural Program Manager

## **13.2.1.1 High to Low Irrigation System Conversion – *Effective October 1, 2021***

- Adding a new BPA-Qualified measure on October 1, 2021 for the conversion of **wheel and hand line** irrigation systems with **high-pressure** sprinkler packages to low-pressure sprinkler packages.
- Low-pressure sprinkler package must include:
  - low pressure regulator;
  - rotating type sprinkler;
  - new nozzle.
- Conversion of wheel line and hand line systems to low-pressure may be combined with other irrigation hardware measures that are not included above.
- \$12.00 payment per sprinkler head.

## **6.6 Irrigation Measures – *Effective*** ***April 1, 2022***

### **Measures Expiring April 2022**

- Gasket Replacement Replace Leaking Base Boot Gasket with New Gasket Center Pivot or Lateral Move System.
- Gasket Replacement Replace Tower/Span/Pivot-Flex Gasket Center Pivot or Lateral Move System.
- Pipe Repair Leaking Pipes Wheel-line, Hand-line, or Portable Main-Line System.
- Sprinkler Replacements Upgrade Low Pressure Sprinklers to Rotating Type Sprinklers Center Pivot or Lateral Move System.
- Sprinkler Replacements Upgrade Impact Sprinkler to Rotating Type Sprinkler Wheel-lines, Hand-lines, Center Pivots or Lateral Move systems.

# 6.6 Irrigation Measures – *Effective April 1, 2022*

Expiring Measure	2020	YTD 2021	Total
Gasket Replacement Replace Leaking Base Boot Gasket with New Gasket Center Pivot or Lateral Move System	7	2	9
Gasket Replacement Replace Tower/Span/Pivot-Flex Gasket Center Pivot or Lateral Move System	10		10
Pipe Repair - Repair Leaking Pipes Wheel-line, Hand-line, or Portable Main-Line System	748	77	825
Sprinkler Replacements Upgrade Impact Sprinkler to Rotating Type Sprinkler Wheel-lines, Hand-lines, Center Pivots or Lateral Move systems	661	352	1,013
Sprinkler Replacements Upgrade Low Pressure Sprinklers to Rotating Type Sprinklers Center Pivot or Lateral Move System	379	216	595

## **6.6 Irrigation Measures – *Effective*** ***April 1, 2022***

### **Savings and Payments Increase April 2022**

- Sprinkler Upgrade Irrigation System Conversion to MESA from high pressure Center Pivot or Lateral Move System.
- Sprinkler Package Replacements LESA/LEPA/MDI Sprinkler Package Center Pivot or Lateral Move System.
- Sprinkler Package Replacements MESA Sprinkler Package Center Pivot or Lateral Move System.
- Sprinkler Package Replacements High Pressure Sprinkler Package Center Pivot or Lateral Move System.
- Sprinkler Upgrade Irrigation System Conversion to LESA/LEPA/MDI from high pressure, Lateral Move or Center Pivot Systems.

## **6.6 Irrigation Measures – *Effective April 1, 2022***

### **Savings and Payments Decrease April 2022**

- Hub Replacement Replace Thunderbird Wheel Line Hubs Wheel Line System.

## **6.6.1 Irrigation System Conversion: LESA/LEPA/MDI – *Effective April 1, 2022***

The PIF will no longer be required for LESA/LEPA/MDI system conversions.

# Questions?



# **Commercial Changes** ***Effective April 1, 2022***

Ryan LeBaron,  
Commercial Program Manager

# Updates to RTF Measure Savings

The RTF has revised the energy savings for several Commercial measures. BPA will update the energy savings for the measures listed below in the UES Measure List:

- Commercial Insulation.
- Anti-Sweat Heater (ASH) Controls.
- Walk-In or Display Case Evaporator Fan Motor – Shaded Pole to Electronically Commutated Motor (ECM).
- Strip Curtains for Walk-in Coolers and Freezers.
- Commercial Steam Cookers.
- Hot Food Holding Cabinets.
- Electric Convection Ovens.
- Pre-Rinse Spray Valves.
- Vehicle Engine Block Heater Controls.

*There will be no changes to incentive payments.*

# Updates to Energy Star Qualification Date

Will update the date after which BPA will accept pre-existing models that were ENERGY STAR-Qualified at the time they were manufactured. Will change from October 2019 to April 2022. This applies to the following measures:

- Hot Food Holding Cabinets.
- Commercial Steam Cookers.
- Electric Combination Ovens.
- Electric Convection Ovens.
- Commercial Clothes Washers.

# Removal of Project Information Forms

Many Project Information Forms (PIFs) will no longer be required documentation. This applies to the following measures:

- Advanced Unit Rooftop Controls.
- Connected Thermostats.
- Ductless Heat Pump Retrofit and Upgrade (BPA-Qualified).
- Air-Source Heat Pump Retrofit and Upgrade (BPA-Qualified).
- Variable Refrigerant Flow Systems (BPA-Qualified).
- Variable Frequency Drive on Air Handling Unit Fan (VFD on AHU Fan) (BPA-Qualified).
- Commercial Insulation.
- Commercial Windows (BPA-Qualified).
- Demand Controlled Kitchen Ventilation.
- Generator Block Heaters.

BEETS will incorporate fields to capture project-specific reporting requirements.

## 7.3 Nonresidential Lighting

BPA will add an additional method to calculate incremental cost for new construction lighting projects.

- Customers may choose to use 2.86% of the total project cost.

## 7.4.3 Ductless Heat Pump Retrofit and Upgrade

Changes will be made to the Commercial Ductless Heat Pump measure. BPA will:

- Update the DHP **Upgrade** pre-condition requirements to also allow for the space to be conditioned by an operational or failed Air-Source Heat Pump.
- Add AHRI Certificate as a documentation requirement.
- Remove the Ductless Heat Pump Qualified Product List.
  - DHP efficiency requirements will continue to be listed in the IM.

## **7.4.4 Air-Source Heat Pump Retrofit and Upgrade**

BPA will add clarification to post-condition requirements:

- Each installed heat pump must individually meet the post-condition requirements.

## 7.5.1 Commercial Insulation

BPA will update the pre-condition requirements to clarify that the building's *primary* heating system must be electric.



## 7.5.2 Commercial Windows

BPA will update the pre-condition requirements to clarify that the building's *primary* heating system must be electric.

## **7.6.2 Walk-In or Display Case Evaporator Fan Motor – Shaded Pole to Electronically Commutated Motor (ECM)**

BPA will update post-condition requirements to allow payments for Permanent Magnet Synchronous Motors (PMSMs).

- Electronically Commutated Motors (ECMs) still eligible for payment.
- No change to payment levels.

## 7.7.5 Electric Convection Ovens

BPA will update ENERGY STAR-Qualification requirement from a minimum of version 2.2, to a minimum of version 3.0.

- Aligns with the RTF.

## **7.7.6 Commercial Electric Fryers**

BPA will retire this measure, effective March 31, 2022.

- RTF updates to this measure leave limited opportunity for uptake.

## **7.8.3 Commercial Showerheads**

BPA will retire this measure, effective March 31, 2022.

- This measure was deactivated by the RTF.

## **13.2.2 Commercial Heat Pump Water Heaters**

BPA will eliminate the optional use of the Residential Sector 10.5.4 Unitary Heat Pump Water Heater and 10.5.5 Split-System Heat Pump Water Heater measures for commercial installations effective March 31, 2022.

- Customers must utilize the Commercial Heat Pump Water Heater measure for all commercial applications.

**Questions?**

# **Industrial Changes** ***Effective April 1, 2022***

Eric Mullendore,  
Commercial & Industrial Sector Lead



## **9.2.1 Energy Management: Energy Project Manager (Optional ESI Component)**

BPA will expire this measure and the EPM Calculator on March 31, 2022.

## **9.2.2 Strategic Energy Management: SEM Projects (Optional ESI Component)**

BPA will retire the existing SEM Projects measure and the Strategic Energy Management Calculator on March 31, 2022.

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# ***NEW!* Energy Project Manager**

- BPA will add this new measure effective April 1, 2022 and it will be applicable to the Industrial and Commercial sectors. This measure will replace the Optional ESI Component, Energy Management: Energy Project Manager.
- More information can be found at <https://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx>.
- This measure will be simplified and enhanced.

# ***NEW!* Strategic Energy Management**

- BPA will add this new measure effective April 1, 2022 and it will be applicable to the Industrial and Commercial sectors. This measure will replace the Optional ESI Component, Strategic Energy Management Projects.
- More information can be found at <https://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx>.
- This measure will be simplified and enhanced.

# ***NEW!* Performance Tracking System (PTS)**

- BPA will add this new measure effective April 1, 2022 that provides incentives available only to end use sites participating in the SEM Projects measure.
- More information can be found at [www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx](http://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx).
- PTS has demonstrated value in identifying and tracking SEM energy savings opportunities.

**Questions?**

# **Residential Changes**

## ***Effective October 1, 2021***

Dave Murphy,  
Consumer Products Program Manager

Jess Kincaid,  
Residential Sector Lead

# ***NEW!* Heat Pump Water Heaters**

- 13.2.5.6 40 gallon measure.
  - No state identifiers in measure list.
  - BPA-Qualified.
  - Savings range from ~1,000 to ~1,600 kWh.
  - Payment of \$600, dollar-for-dollar up to \$1,850 for low-income qualified.
- 13.2.5.7 Tier 4 Unitary Heat Pump Water Heater Measures.
  - No state identifiers in measure list.
  - Payment of \$700, dollar-for-dollar up to \$2,000 for low-income qualified.
  - Better alignment with RTF and NEEA Qualified Products List.



## ***NEW!* 13.2.5.8 Air Source Heat Pump Upgrade (without PTCS)**

- Air Source Heat Pump Upgrade (replacing existing heat pump in existing construction or adding in single family new construction).
- Installation without PTCS Commissioning.
- Minimum 9 HSPF and 14 SEER (consistent with other ASHP measures).
- \$20 for standard heat pump, \$150 for variable speed heat pump.

# ***NEW!* 13.2.5.10 Communicating Line Voltage Thermostat**

- A Line Voltage Thermostat that controls electric resistance baseboard or fan forced wall heaters that also has networking capabilities over Wi-Fi and can be controlled by a mobile device or computer.
- \$35 payment per thermostat (replace all existing thermostats, no limit per dwelling).
- 76-142 kWh per thermostat.
- Documentation Requirements: Unique site ID and address, invoice, model number and quantity of thermostats.

## **10.8.2 Advanced Smart Thermostats: Removal of Requirements**

- The Advanced Smart Thermostats Project Information Form will be updated to remove the requirement to collect the thermostat serial number.
- All other information will still be required.

**Questions?**

# **Residential Rate Period Changes *Effective April 1, 2022***

Jess Kincaid,  
Residential Sector Lead

# Residential Rate Period Overview: Simplification

Removal of Forms (Data collection tools will remain available)	Simplification of Measure
PTCS	Washers
DHPs	PTCS
Advanced Smart Thermostats	Exterior Insulated Doors

# Residential Rate Period Overview: Measure Changes

Measure Expiration	Savings Changes	Payment Changes
Some LEDs	Some LEDs ↓	Some LEDs ↓
IR + PC Interacting Advanced Power Strips	Level 2 EV Chargers ↓	Advanced Smart Thermostat (compared to pre-promotional rate) ↑
Showerheads, Aerators, Combo Thermostatic Shut off Valves	Heat Pump Water Heaters ↓↑	
Kits (but will replace)	PTCS ↓	
	Zonal Ductless Heat Pumps ↓	
	Line Voltage Thermostat ↑	
	NEEM ↓	
	Weatherization ↓↑	

# **Consumer Products**

## ***Effective April 1, 2022***

Nell Patten, BPA Program Specialist



# 10.2 Residential Lighting

Removal of Delivery Channels	Savings and Payments	Removal of Requirements
Retail: LED Lamps, LED Fixtures, TLEDs	Savings: Most will decrease, some will increase	Direct Install - The RBSA room type table will be moved from the "Requirements and Specifications" section and added to the "Additional Information" section for both Lamps & TLEDs
Mailed Non-Request: LED Lamps	Payments: Will decrease or stay the same	
Direct Install: LED Fixtures		
By Request: LED Lamps (WA Only)		

# 10.3 Residential Advanced Power Strips

- Removal of Offering.
  - Infrared Sensing Advanced Power Strips (Home Entertainment Centers).
  - PC Interaction Sensing Advanced Power Strips(Personal Desktop Computers).
- Reduction in Payment.
  - By Request payment for Load Sensing Advanced Power Strips will be reduced.
- Removal of Requirement.
  - Home Entertainment application will be moved from the "Requirements and Specifications" section and added to the "Additional Information" section.

# 10.4 Residential Appliances

- Simplified measure and reporting requirements.
- Removal of Delivery Channel language in IM.
  - By Request.
  - Direct Install.
- All CEE Tier Clothes Washer Measures will be removed.
- The verbiage "and top loaders must be rated CEE Tier 1 or above" will be removed from the Requirements and Specifications.
- Payments levelized by load configuration and ENERGY STAR.

# 10.5 Residential Showerheads

- Removal of Offerings for:
  - Showerheads.
  - Aerators.
  - Combination Thermostatic Shut-Off Valves (TSVs).
- **Combination units will still be allowed in the TSV measures but savings and payments will be based on the stand-alone TSV savings only.**
- The savings for stand-alone TSVs will decrease.
- The payment for By Request stand alone will decrease.
- Fuel source documentation will be updated to include absence of natural gas within a service territory to claim electric measures without verification of fuel type.

## 10.6 Energy Saver Kits

- All kits will be deactivated and new kits will become available; savings and payments will change.
- Kit configuration offerings that include LED bulbs will be eligible for all states except Washington.
  - Due to newly adopted lighting standards in Washington, the baseline is the efficient case for LED bulbs - they will be omitted from kits available in Washington State.

## 13.2.5.1 Electric Vehicle Chargers

- Reduction in Savings.
  - Level 2 Electric Vehicle (EV) Chargers.
- EV chargers will have a Qualified Products List in the IM document library instead of linking to the ENERGY STAR website list of certified products.

# **Heat Pump Water Heaters** ***Effective April 1, 2022***

Dave Murphy,  
Consumer Products Program Manager

## 10.5.4 Heat Pump Water Heaters

- Any size tank measure to be renamed 50 gallon and above.
  - Complementary change with release of 40 gallon measure in October 2021.
- 40 gallon units must use 40 gallon measures for reporting.
- Savings will change, some up, some down.
  - Range between a ~76 kWh increase to a ~120 kWh decrease.



## 10.5.4 Heat Pump Water Heaters

- Unitary HPWHs will no longer be eligible for residential new construction (split systems will still be allowed in new construction).
  - Tier 1-3 HPWH measures will no longer have state level measure identifiers in the measure list.
- All HPWH types will become eligible for multi-family.
- Language regarding “one-to-one” replacement to be removed and covered by other text in the section.

**Questions?**

# **PTCS Program Changes** ***Effective April 1, 2022***

Gary Smith,  
PTCS Program Manager  
Bill Crabtree,  
BPA Program Specialist

## 10.7.2 PTCS Program Changes

- BPA will be simplifying the PTCS Measure Suite to accommodate changes recommended through the PTCS redesign workgroup including:
  - Specification and participation requirement changes.
  - Clarifying that data collection tools outside of the registry are optional:
    - Air Source Heat Pumps (ASHPs) – 10.7.2.1.
    - Variable Speed Heat Pumps (VSHPs) – 10.7.2.2.
    - Commissioning Controls & Sizing (CC&S) – 10.7.2.3.
    - Ground Source Heat Pumps (GSHPs) – 10.7.2.4.
    - PTCS Duct Sealing – 10.7.2.5.
    - Prescriptive Duct Sealing – 10.7.3.
- BPA will release a detailed description of specification changes that are not reflected in the Implementation Manual and hold a separate webinar to discuss.

# 10.7.2 PTCS: Removal of Documentation Requirements

- BPA will remove the Documentation Requirement to store the following installation and sizing information in the Customer File, and instead list it as optional under Additional Information:
  - For Air Source Heat Pumps:
    - PTCS Air Source Heat Pump Form (i.e. handwritten install form).
    - CheckMe!® Heat Pump Protocol Data Entry Form.
    - PTCS Heat Pump and Central Air Conditioner Sizing Calculator.
    - Heat load/heat loss calculations and associated balance point worksheet.
  - For Ground Source Heat Pumps:
    - Heat load/heat loss calculation; and
    - Balance point worksheet (i.e. a calculator, graph or chart); and
    - Loop-design documentation.

## **10.7.2 PTCS: Removal of Documentation Requirements (cont'd)**

- BPA will rename the heat pump install forms to “Optional data collection tools.”

*Rationale: Program simplification.*

# **10.7.2.1, 10.7.2.2, 10.7.2.4 PTCS ASHPs, VSHPs, GSHPs: Savings to be reduced**

- KWh savings will decrease - No change to payments.

*Rationale: RTF changed the kWh savings.*

## **10.7.2.4 PTCS Ground Source Heat Pump: Specifications to be Consolidated**

- PTCS Ground Source Heat Pumps: Will combine two spec docs into one form:
  - PTCS Ground Water Source Open Loop Installation Specifications, and
  - RTF Residential Ground Source Heat Pump System Installation Standards.
- Will update the GSHP install form to accommodate this change and remove unused checklists from form.

*Rationale: Program Simplification.*



# 10.7.2.5 and 10.7.3 PTCS and Prescriptive Duct Sealing

- **Resealing will be allowed beginning April 1, 2022:**
  - Previously Sealed Ducts: Resealing of ducts will be allowed “subject to utility discretion” (i.e. a second duct sealing only).
  - Applicable to PTCS and Prescriptive Duct Sealing.

*Rationale: Additional flexibility.*
- **Sealing “new” ducts was disallowed in 2016:**
  - Sealing of “new” ducts and/or ducts in new construction was removed from the specification in 2016, but never change noticed.

*Rationale: Complying with change notice requirements.*

# **Residential HVAC (non-PTCS) *Effective April 1, 2022***

Jess Kincaid,  
Residential Sector Lead

## 10.7.1 Ductless Heat Pumps (DHPs)

- Savings in zonal single family and manufactured home applications will decrease. There will be no changes to payments.
- DHPs will no longer be available in *new* residential single family applications. They are still available in new manufactured homes.
- BPA will no longer maintain a Qualified Products List (QPL) for this measure. Customers will be required to maintain a copy of the AHRI certificate that demonstrates that the ductless heat pump meets our requirements in the customer file.
- BPA will no longer require completion of the DHP Project Information Form (PIF). Customers will be required to enter the make, model, and project cost into BEETS.

# 10.8.1 Line Voltage Thermostats

- Savings will increase slightly.
- Payments will remain the same.

## **10.8.2 Advanced Smart Thermostats**

- BPA will no longer require completion of the Advanced Smart Thermostat Project Information Form (PIF).
- Customers will be required to enter the thermostat make and model number into BEETS.
- Payments will increase to \$140 for all qualified models.

**Questions?**

# **Residential New Construction**

## ***Effective April 1, 2022***

Jess Kincaid,  
Residential Sector Lead

# 10.9.1 Northwest Energy Efficient Manufactured Homes (NEEM)

- Savings for Northwest Energy Efficient Manufactured Home (NEEM) will decrease.
- Payments will remain the same.



## **10.9.4 Montana House**

The Montana House measure will no longer be available beginning October 1, 2023.

We are providing extra advance notice to ensure that utilities are aware that projects permitted prior to that date but not completed until afterward will not be eligible for a payment.

# 10.9.5 and 10.9.6 New Multifamily Construction

BPA will no longer allow custom projects for new multifamily construction.

Calculating the savings above code requires highly complex and specialized energy models to verify what the savings are. BPA does not have the resources to do this, we rely on the third party implementation programs referenced in the UES measures to perform this modeling and determine the code trade-offs utilized.

**Questions?**

# **Weatherization**

## ***Effective April 1, 2022***

Amy Burke,  
Weatherization & Low-Income Program Manager

# 10.10 Multiple Weatherization Measures

- Savings will be changing for many single family, manufactured home, and some multifamily weatherization measures; no incentive changes will be made.
  - Please reference the UES measure list for specific changes.
- Primary heating types for all weatherization measures must be entered into BEETS.
  - This will add a requirement to capture the primary heating type for Low-E Storm Windows (10.10.3), Exterior Insulated Doors (10.10.4), and Prescriptive Air Sealing (10.10.6).
  - There is no change to the “Any Electric” RefNos, they will continue to have higher payments.

Measure	Savings Change
Air Sealing: Manufactured Home	Down
Air Sealing: Single Family	Down
Attic Insulation: Manufactured Home	Up
Attic Insulation: Multifamily Low Rise	Slightly Down
Attic Insulation: Single Family	Slightly Down
Roof Insulation: Multifamily Mid/High Rise	Down
Floor Insulation: Manufactured Home	Slightly Up
Floor Insulation: Multifamily Low Rise	Down
Floor Insulation: Single Family	Down
Wall Insulation: Multifamily Low Rise	Down
Wall Insulation: Multifamily Mid/High Rise	R0 to R11: Slightly Down
Wall Insulation: Single Family	Down
Insulated doors: Manufactured Home, Multifamily, and Single Family	Down
Prime Windows: Manufactured Home	Up (about 3%)
Prime Windows: Multifamily Low Rise	Slightly Up
Prime Windows: Multifamily Mid/High Rise	Down
Prime Windows: Single Family	Down
Storm Windows: Manufactured Home	Up
Storm Windows: Multifamily Low Rise	Up
Storm Windows: Single Family	Down

# 10.10.1 Insulation

Four changes to residential insulation measures:

- BPA will retire the measure option for Single Family Attic Insulation R38 to R49 to align with the RTF.
  - All other attic insulation measures will remain.
  - Please use the measure for Single Family Attic Insulation from R30 to R49 instead.
- Clarification added that knee walls should be invoiced as wall insulation and not attic insulation per Weatherization Specification Section 8 (Wall Insulation: Site Built Homes).
- Correct the guidance to state that the sloped surface of an A-frame home must be insulated and invoiced per Weatherization Specification section 4.7: Sloped Roofs and Unfinished Attics.
- Clarification added that manufactured roof insulation with blown-in attic and rigid insulation covered by an EPDM roof can be claimed as one roof insulation measure based on total insulation value.

## 10.10.4 Exterior Insulated Doors (BPAQ)

Three changes to exterior insulated doors:

- Additional path to qualification: In addition to being ENERGY STAR-rated, BPA will also accept NFRC-rated doors that meet specific U-factor and solar heat gain coefficient requirements based on glazing levels.
  - BPA will expand the allowable documentation to demonstrate qualification to include a copy of the NFRC sticker.
- BPA will accept pre-existing models that were ENERGY STAR-Qualified at the time they were manufactured even if ENERGY STAR specifications have changed.

# **Low-Income EE Measures** ***Effective April 1, 2022***

Amy Burke,  
Weatherization & Low-Income Program Manager



# 10.10.7 Low-Income Energy Efficiency Measures

- Low-income deemed measure installed payment cost caps will increase for Ductless Heat Pumps, PTCS Air Source Heat Pumps, and Tier 1, 2, and 3 Heat Pump Water Heaters. No change for other low-income measure payment cost caps.
- Payment cost caps will increase.

	Current Payment Cost Cap	April 2022 Payment Cost Cap Increase
Ductless Heat Pump	Up to \$3,800	Up to \$4,400
PTCS Air Source Heat Pump	Up to \$3,800	Up to \$6,200
Tier 1 Heat Pump Water Heater	Up to \$1,360	Up to \$1,850
Tier 2 or 3 Heat Pump Water Heater	Up to \$1,700	Up to \$2,000

# 10.10.7 Low-Income Energy Efficiency Measures

- Clarification: Gross income should be used to calculate income qualification.
- Low-Income Heat Pump Water Heater Measures will be made eligible for all multifamily housing types (low, mid, and high-rise).
- BPA will retire the retail distribution option for low-income advanced smart thermostats. Only contractor-installed advanced smart thermostats will qualify for low-income payments.

**Questions?**

# **Multisector Changes** ***Effective April 1, 2022***

Erin Hope,  
Engineering Manager

# 12.3 Multi-Sector Measures and Initiatives

- 12.3.2 Green Motors Rewind Initiative will move to the industrial sector.
  - The initiative consists of industrial and agricultural sector UES. Since a majority of the energy savings are industrial, this measure is being moved to the industrial sector.
  - This aligns the initiative with other measures that apply to multiple sectors.
- 12.3.3 Limited Availability Emerging Technology Field Test Projects.
  - This section will move to Section 4 – Custom Projects.
  - Tests projects are a type of custom project and are required to be submitted as custom projects.

# Additional resources

[www.bpa.gov/goto/ImplementationManual](http://www.bpa.gov/goto/ImplementationManual)

[www.bpa.gov/goto/ImportantEEdates](http://www.bpa.gov/goto/ImportantEEdates)

[www.bpa.gov/EE/Policy/IMManual/Pages/IM-Document-Library.aspx](http://www.bpa.gov/EE/Policy/IMManual/Pages/IM-Document-Library.aspx)



**Thank you  
for your time**

[www.bpa.gov/goto/ImplementationManual](http://www.bpa.gov/goto/ImplementationManual)

