

# Implementation Manual Updates: October, 2013

## Programmatic Changes



# Custom Programs and Projects

## Effective Immediately

**Change:** A rule to approve custom projects has been changed in Section 4.3.2 Custom Project General Requirements from “measures have not been ordered, purchased, or installed prior to approval,” to “measures have not been installed prior to approval.”

**Rationale:** This clarification is at the request of utility feedback.



# Agricultural Sector

Presenter: Jennifer Eskil



# Agricultural Sector

## Effective Immediately

**Change:** The following Irrigation System Upgrade measures have been revised to eliminate the requirement to replace/upgrade the entire line. The revised descriptions will allow the following :

- Any leaking pipe section and riser cap gaskets on wheel-lines, hand lines, or portable main lines can be upgraded
- Any leaking drain gaskets on wheel-lines, hand lines, or portable main lines can be upgraded
- Any leaking hubs for wheel lines can be upgraded.

**Rationale:** This change is in response to utilities' request for a simplified approach for these irrigation system upgrades.



# Agricultural Sector

## Effective Immediately

**Correction:** Added the phrase, “from the utility power supply,” to the Transformer De-energization definition to read: Transformer De-energization (TRX-DX) is disconnecting a transformer *and* downstream loads from the utility power supply during extended periods of agricultural inactivity and reconnecting prior to the irrigation season startup.

**Rationale:** This clarification is in response to utility feedback to bring clarity to the definition of the measure.



# Agricultural Sector

## Effective April 1, 2014

**Change:** The BPA Qualified Turbine Pump Variable Frequency Drive (VFD) measure is being revised based on results from the data collected from the BPA Qualified measure effort and input from the RTF. The energy savings will be based on 20% of the average of the previous 3 years of billing history and the incentive will be reduced to \$60/ horsepower.

**Rationale:** The RTF reviewed the results of the BPA Qualified measure and developed a new energy savings protocol. BPA is using the results and revising the incentive rate.



# Commercial Sector

## Presenter: Allie Mace



# Commercial Sector

## Effective Immediately: 3 new BPA-Qualified measures!

**Rooftop Unit Control Upgrade:** A new **Rooftop Unit Control Upgrade** measure has been added to achieve savings in rooftop units

**Expanded Web-enabled Programmable Thermostat:** A new **Web-Enabled Programmable Thermostat** measure has been added that expands the opportunity to all commercial buildings.

**Heat Pump Water Heater:** A new **Heat Pump Water Heater** measure has been added for commercial buildings. Reimbursements align with current residential reimbursements.





# Commercial Sector

## Effective Immediately: BPA-Qualified Measures

**Correction:** The **Commercial Unitary Air Conditioning** measure sunset date has been removed.

**Correction:** The **Commercial Heat Pump** measure sunset date has been removed.

**Correction:** The **Commercial Ductless Heat Pump** measure sunset date has been removed.

**Change:** The **Commercial Heat Pump** billing release is no longer required

**Rationale:** BPA Qualified policy does not require the measures to be retired October 1, 2015 and the separate billing release is not necessary.



# Commercial Sector

## Effective Immediately: Commercial Ductless Heat Pumps

**Change:** The requirements of “qualified installer” and “by code” for **Commercial Ductless Heat Pumps** has been removed.

**Rationale:** Not every jurisdiction has an applicable code, and BPA does not have oversight of code. There was not a clear definition and requirements around installer qualifications and that requirement has been removed.

**Change:** The requirement of “individually metered building” for **Commercial Ductless Heat Pumps** has been removed.

**Rationale:** The requirement has no impact on savings.



# Commercial Sector

## Effective Immediately: Energy Smart Grocer

**Correction:** Clarifications have been added to the Energy Smart Grocer section with regards to timeline for program participation changes.

**Rationale:** The new language clarifies the applicable end-of-rate period deadlines and timing for funding and participation changes.



# Commercial Sector

## Effective April 1, 2014: Deemed Refrigeration Retrofit Measures

**Change:** The savings will change for two **Motion Sensor on LED Case Lights** measures. Reimbursements remain unchanged.

**Rationale:** The RTF has updated savings for the LED motion sensor measures.

**Change:** Ten refrigeration retrofit measures will expire (see list in Implementation Manual).

**Rationale:** The RTF has expired a number of measures as they are out of compliance with the RTF Guidelines.



# Commercial Sector

## Effective April 1, 2014: Foodservice Measures

**Change:** The **commercial food service reach-in refrigerators and freezers** will expire.

**Rationale:** The RTF has adjusted savings and baselines. Updated savings have made most measures no longer cost effective and greatly reduced incremental costs do not justify a reimbursement for these measures.



# Commercial Sector

## Effective April 1, 2014: Foodservice Measures

**Change:** The current **Commercial kitchen steamers** measures will expire and be replaced by new measures with updated specifications, savings and reimbursements.

**Rationale:** The RTF has adjusted measure specifications, incremental costs and savings, resulting in changes to reimbursements. The new specification is ENERGY STAR v1.2

**Change:** The current **Commercial kitchen hot food holding cabinet** measures will expire and be replaced by new measures with updated specifications, savings and reimbursements.

**Rationale:** The RTF has adjusted measure specifications, incremental costs and savings, resulting in changes to reimbursements. The new specification is ENERGY STAR v2.0



# Commercial Sector

## Effective April 1, 2014: Foodservice Measures

**Change:** The current **Commercial combination oven** measures will expire and be replaced by new measures with updated specifications, savings and reimbursements.

**Rationale:** The RTF has adjusted measure specifications, incremental costs and savings, resulting in changes to reimbursements. The new specification is ENERGY STAR v2.0.

**Change:** The current **Commercial convection oven** measures will expire and be replaced by new measures with updated specifications, savings and reimbursements.

**Rationale:** The RTF has adjusted measure specifications, incremental costs and savings, resulting in changes to reimbursements. The new specification is ENERGY STAR v2.0.



# Commercial Sector

## Effective April 1, 2014: Foodservice measures

**Change:** The current **Commercial electric fryer** measures will expire and be replaced by new measures with updated specifications, savings and reimbursements.

**Rationale:** The RTF has adjusted measure specifications, incremental costs and savings, resulting in changes to reimbursements. The new specification is ENERGY STAR v2.0.





# Commercial Sector

## Effective April 1, 2014: Other Measures

**Change:** The current **commercial clothes washer** measures will expire and be replaced with new measures.

**Rationale:** The RTF updated the measures to reflect new baseline, specifications and incremental costs. Costs and savings have been reduced for all measures.

**Change:** The **commercial showerhead measure** will expire and be replaced. In the new measure, savings will change and reimbursements will decrease.

**Rationale:** The RTF has updated the commercial showerhead measure with updated savings and reduced incremental cost.



# Residential Sector

Presenter: Sarah Moore



# Residential Sector

## Effective Immediately

### Definitions

**Correction:** All references to “site-built” homes have been changed to “single-family” homes.

**New definitions:** Definitions were added or amended for Accessory Dwelling Units, Manufactured Homes, Modular Homes, Single Family Homes.

**Correction:** Heat Pump Water Heater (HPWH) installations in “interior” locations have been re-labeled/clarified as “conditioned spaces”.



# Residential Sector

## Effective Immediately

### Lighting - Advanced Power Strips - Showerheads

**Change:** New measures have been added to Residential Lighting for ENERGY STAR LEDs - Direct Mail, Direct Install and Over-the-Counter distribution methods.

**Change:** A new measure has been added for Advanced Power Strips.

**Correction:** The Showerhead section was corrected to clarify which delivery mechanisms require request by the end user and/or documentation of water heat fuel.



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# Residential Sector

## Effective Immediately



### Heat Pump Water Heaters

**Correction:** Heat Pump Water Heater (HPWH) installations in “interior” locations have been re-labeled/clarified as “conditioned spaces”.

**Correction:** The Heat Pump Water Heater (HPWH) manufacturer training is only required if it is offered by the manufacturer.

**Correction:** The Heat Pump Water Heater (HPWH) manufacturer’s installation checklist is no longer required.



# Residential Sector

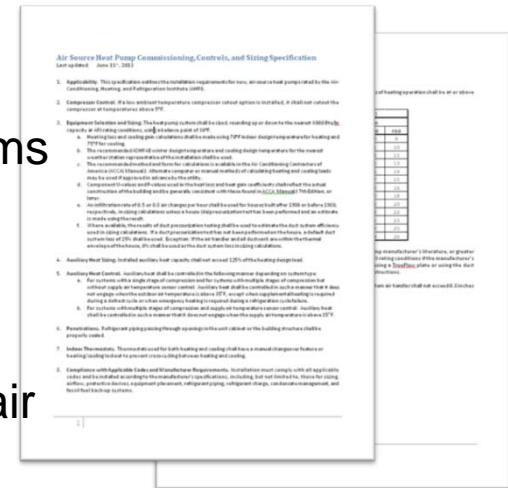
## Effective Immediately

### HVAC documentation/spec changes

**Correction:** Utilities are no longer required to send DHP forms to EEDocs.

**Correction:** The 2011 Air Source Heat Pump Installation Standard is the current and correct specification for PTCS air source heat pump installations.

**Correction:** The Federal Minimum Efficiency Standard for Air Source Heat Pumps is 7.7 HSPF and 13 SEER.





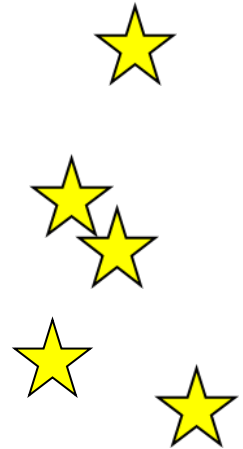
# Residential Sector

## Effective Immediately

### Expanded opportunities for heat pumps and duct sealing

**Change:** New opportunity: homes with two independent, electrically-heated duct systems may be eligible for two duct sealing reimbursements; provided all other program requirements are met.

**Change:** New opportunity: homes with two, independent, electrically-heated duct systems may be eligible for two air source heat pump reimbursements; provided all other requirements are met.









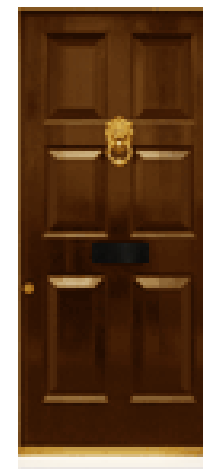
# Residential Sector

## Effective Immediately

### New measure

**Change:** A new measure for Insulated Doors has been added.

**Rationale:** At utilities' request, a BPA Qualified measure has been developed for Insulated Doors.





# Residential Sector

## Effective April 1, 2014

### Changes to savings – showerheads/refrigerators

**Change:** Effective April 1, 2014 the savings for Showerheads will change.

**Change:** Effective April 1, 2014 the savings and reimbursement for ENERGY STAR Refrigerators will change.

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# Residential Sector

## Effective April 1, 2014

**Change:** Effective April 1, 2014, measures for Gravity-film Heat Exchangers will no longer be available.

**Change:** Effective April 1, 2014, the current Pipe Insulation measures will be expired and replaced by new measures with updated savings and reimbursements.

**Change:** Effective April 1, 2014, reimbursement levels for Ductless Heat Pumps (DHP) will decrease to \$800 (DHP-zonal) and \$1200 (DHP-Electric Forced Air Furnace).



## Industrial Sector

Presenter: Jennifer Eskil



# Industrial Sector

## Effective Immediately

**Correction:** Added Document Library links to each of the ESI Energy Management referenced documents.

**Rationale:** This assists customers and staff with easily finding these documents.

**Correction:** BPA removed all “Year-1” references to executed Energy Project Manager (EPM) agreements.

**Rationale:** This simplifies the understanding of the measure. Utilities do not need to specify “Year-1”, etc. since the commencement date is defined for each term.



# Industrial Sector

## Effective Immediately

**Change:** Utilities may cap the EPM co-funding below the current cap as specified within the EPM agreement.

**Rationale:** This allows utilities more funding flexibility. The reimbursement is similar to the Track and Tune and High Performance Energy Management caps.

**Correction:** Revised the sentence and added the word “scoping” to say: The Energy Champion shall work with the T&T Provider and the ESI Partner to perform a scoping study that results in a tune-

**Rationale:** This edit clarifies the specifications required.



# Industrial Sector

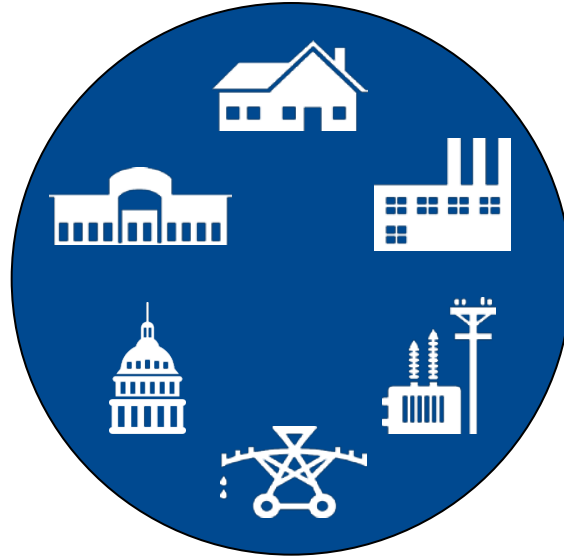
## Effective Immediately

**Correction:** Revised the Track and Tune Reimbursement table to include the statement “as described in the PTS Design Proposal.” The statement now reads: Payment 1’s Milestone: End user purchases and installs BPA-approved PTS, as described in the PTS Design Proposal.

**Rationale:** This edit clarifies the specifications required for reimbursement.

**Correction:** Replaced “sustained savings” with “performance” and “MT&R Completion Report” with “HPEM Completion Report” in Section: 3. High Performance Energy Management.

**Rationale:** These edits bring greater clarity and streamline the language throughout the section, tables and footnotes.



## Multi Sector Presenter:



# General

## Effective Immediately

**Change:** A new measure for Engine Block Heater – Stationary has been added.

**Rationale:** A new BPA Qualified measure has been added to address efficiency opportunities in stationary engine block heaters.

**Change:** In Lighting Calculator 3.0, all measures for exterior timers and photocell controls will be eliminated when they are required by code.

**Rationale:** All states across the BPA service territory require dusk till dawn controls on exterior lighting systems. Advanced or dual-technology controls which provide incremental savings beyond binary dusk till dawn savings may still be eligible for incentives.

# General

## Effective Immediately

**Change:** In Lighting Calculator 3.0, all new construction project savings will be based on the energy savings delta between Lighting Power Allowance and actual Lighting Power Density.

**Rationale:** This change simplifies the user input for the new construction calculator and more accurately quantifies estimated project savings.

# General

## Effective April 1, 2014

**Change:** Effective April 1, 2014, savings will change for Green Motor Rewind measures. Reimbursements remain unchanged.

**Rationale:** Savings for the measures have been revised and approved by the RTF.

**Change:** Effective April 1, 2014, if lighting custom projects use a calculator other than the BPA calculator, that calculator must incorporate the new market average baseline for all applicable T12 linear fluorescent lamps (Section 2. (a)).

**Rationale:** After April 1, 2014, all projects will be required to use the new market baseline to align with the requirements in Lighting Calculator 3.0. These updated requirements are the result of the updated federal standard and market baseline research.