

October 2012

# Implementation Manual

## Programmatic Changes

The Bonneville Power Administration (BPA) Energy Efficiency Implementation Manual (IM) will include the following programmatic changes. This document is intended to provide a quick reference to the changes being made in this version of the IM; please refer to the IM for more details.

### Agricultural Sector



#### Measure Clarifications

**What:** Customers will no longer be required to complete a **Scientific Irrigation Scheduling Summary Sheet**.

**Why:** BPA removed this requirement based on feedback you provided and because of the additional complexity this document would have created when IS 2.0 goes live.

**What:** The **Variable Frequency Drives in Ag Turbine Pumps** vague change notice has been removed and no changes will occur in this cycle.

**Why:** BPA previously issued a change notice, but we have been unable to finalize the details of the change and we are unwilling to proceed until we can do so. A new notice will be issued when BPA has gathered additional information and is aware of specific changes.

**What:** Customers can now use the **VFD Calculator** to estimate savings for VFDs in Ag Turbine pumps.

**Why:** This is an optional resource that was previously available, but has now been moved into the IM Document Library. This calculator remains optional and is intended to aid customer efforts.

### Industrial Sector



#### Measure Clarifications

**What:** The **Energy Management Pilot Sub Section** has undergone several changes including several language clarifications and the addition of several tools to assist BPA's customers. Specifically:

- The Energy Project Manager (EPM) sub-section has been updated to better describe the EPM comprehensive plan and Year-1 and Year-2 EPM agreements. Templates for Year-1 and Year-2 agreements have been created and customers should contact their ESIP. The Track and Tune (T&T) savings calculations process has also been edited for clarification.
- The High Performance Energy Management (HPEM) now includes a default to booking 75% of the first year savings unless requested otherwise, and has otherwise been updated to provide more clarity.
- Payment calculators are now available for all energy management components (EPM, T&T, and HPEM)

**Why:** These sections were updated to bring additional clarity and the new calculators are tools to help customers easily calculate payments.

**What:** The Energy Star documentation requirement was removed from the **Variable Frequency Drives for Fans in Spud and Onion Storage Facilities** sub-section.

**Why:** The requirement was unnecessary and mistakenly added to the last IM.

**What:** The **industrial lighting sub-section** was moved to the multi-sector non-residential lighting sub-section.

**Why:** BPA has moved all multi-sector information to a single location to improve ease of use



## Residential Sector



### Measure Clarifications

**What: Showerhead measure** descriptions have been updated to clarify that showerheads left at a customer's residence at their request are claimed the same as "over-the-counter" using the measure titled the same.

**Why:** BPA has determined that this is the accurate measure for this distribution method.

**What:** The BPA **Simple Steps, Smart Savings** program has been modified to clarify scope. The program name "BPA Simple Steps, Smart Savings" has been modified to "BPA **Simple Steps, Smart Savings Retail Promotion**"; additional information on participation and funding options has been added.

**Why:** The program name emphasizes that the regional program infrastructure only applies to retail activities. Funding clarifications were added to make it clear that customers may contract directly with the contractor using their own funds and ECA funds.

**What:** New **heat pump water heater measures** were added to include Tier 2. The BPA Implementation Manual will now use NEEA's HPWH Qualified Product list.

**Why:** Tier 2 heat pump water heaters received a cost effective provisional unit energy savings (UES) from the Regional Technical Forum (RTF) allowing them to be added to the BPA Implementation Manual. NEEA has successfully developed a transparent process for maintaining a list of HPWH Qualified Products that includes both nonducted (Tier 1) and ducted (Tier 2) heat pump water heaters making the BPA list duplicative.

**What:** The requirement that pipe insulation **end-user identifying information** needs to be submitted through BPA's EE reporting system has been removed.

**Why:** Although it was effectively removed in the last IM update issued on 7/18/12, this requirement was mistakenly left in the text.

**What:** Updates have been made to the **Performance Tested Comfort Systems (PTCS) measures** including:

- Corrected documentation requirements to reflect correct submittal/retention locations,

## Residential Sector (Continued)



- New measures added to allow Variable Speed Heat Pumps as a qualified measure while BPA performs additional research.
- On April 1, 2013 closed loop systems must be installed to the new Ground Source Heat Pump System Installation Standards (adopted October 4, 2011). Open loop systems will continue to use the Geothermal Heat Pump Design and Installation Standards dated April 15, 2007.

### Why:

- The previously listed submittal/retention locations were incorrect
- The RTF announced that Variable Speed Heat Pumps were ineligible. BPA presented a research plan and preliminary data to the RTF, allowing them to remain as a qualified measure while additional research is collected.
- The RTF removed open-loop geothermal heat pumps when the new Ground Source Heat Pump System Installation Standards were updated. The BPA Residential team is leading a research effort to determine how best to update the Installation Standards for open-loop systems. Until that research has been completed, utilities are instructed to continue to use the former (2007) standards.

**What:** Multifamily insulation measures were added back to the Interim Deemed Measure List.

**Why:** Three of the six multifamily attic insulation measures were accidentally missed in the creation of the Interim Deemed Measure List.

**What:** Additional language was added to prime window replacement sections to clarify that glass patio doors are an eligible measure.

**Why:** Although they have always been included in the measure, it is now explicitly stated that the prime window replacement section includes patio doors.

### Negative Changes

**What:** Effective April 1, 2013 the **Multi-family New Construction** measure will be out-of-date and no longer available.

**Why:** Advances in residential building code have surpassed the current Multi-Family New Construction specification, making the specification less stringent than current building code. NEEA has initiated work to develop an updated Multi-family New Construction specification to present to the RTF later this year.

## Commercial Sector



### Measure Clarifications

**What:** Reimbursements for some **Unitary Air-Conditioning Equipment** in Commercial Buildings have increased

**Why:** This change is being made because of the transition to a new Consortium for Energy Efficiency standards but also to motivate participation in this measure.

**What:** The transition process for **Energy Smart Grocer** Combined BPA Turnkey/Self-funded Turnkey participants has been updated for clarification regarding the method for transitioning funding sources.

**What:** The previous language was unclear

### Negative Changes

**What:** Effective April 1, 2013, two changes will affect **traffic signal** measures:

- BPA will lower reimbursements on qualifying traffic signals (\$25.00-\$30.00).
- Savings for the 12" green LED turn signal will decrease from 245kWh to 90kWh.

**Why:** A recent RTF review of the costs and savings revealed costs have dropped and BPA is paying beyond the incremental cost. The review also reduced savings for some measures.

**What:** Reimbursements for Refrigeration Control Improvements (non-VFD) Anti-Sweat Heat Control Low Temp Any Commercial Building (**refrigeration retrofit**) measure will be reduced

**Why:** The current reimbursement is greater than the incremental cost

**What:** Effective October 1, 2014, BPA could discontinue the measure for **Unitary Air-Conditioning Equipment** in Commercial Buildings if regional installations are insufficient to support RTF simplified M&V approval.

**Why:** This measure will only be discontinued if sufficient data is not acquired to take the measure to the RTF for review and approval.

**What:** A new measure for **Heat-Pump Equipment Conversion and Upgrade** in Commercial Buildings is now available, but customers may continue to use the custom project path for heat pump conversions until April 1, 2013 when they will be required to use this deemed measure, unless the installations meet listed conditions.

**Why:** Customers have requested deemed measures for commercial heat pumps so BPA has developed this measure to shift from custom projects to the new, easier deemed path.

## Multi-Sector



### Measure Clarifications

**What:** The **Non-residential Lighting section** was reorganized for clarification, now including information that was previously only in the industrial section.

**Why:** This change was made for clarity and cohesiveness.

### Negative Changes

**What:** Effective April 1, 2013, **LED Exit Signs & Retrofit Kits and Non-Residential EnergyStar CFLs** will no longer be available.

**Why:** These measures were found to be inconsistent with BPA's approach to lighting projects. However the LED Exit Sign and CFL measures are still available in the lighting calculator with reimbursements.