

# Implementation Manual Updates: April 1, 2012

## Programmatic Changes





# Agricultural Sector

Presenter: Jennifer Eskil



# Agricultural Sector

## Measure Clarifications:

- Freeze Resistant Stock Water Tanks/Fountains
  - Requirements have been clarified
- VFDs on Vacuum Pumps for Small Milking Machines in Dairies
  - Vacuum pumps are now specified rather than “other” applications
- Transformer De-energization
  - New projects will follow the custom projects and programs reimbursement table



# Agricultural Sector

## Negative Changes – effective October 1, 2012:

- Irrigation System Motors Replacement
  - Effective October 1, 2012 this measure will not be available
- VFDs on Agricultural Turbine Pump Applications
  - Potential changes to reimbursement levels and reportable energy savings previously scheduled for April 1, 2012 have been postponed to October 1, 2012.



## Industrial Sector

Presenter: Jennifer Eskil



# Industrial Sector

## Measure Clarifications:

- Energy Project Manager
  - Qualifying Energy Project Manager costs have been clarified.
- Track and Tune
  - Utilities must follow the M&V requirements addressed in the ESI MT&R Reference Guide.
  - Customers now have the option to set a cost cap



# Industrial Sector

## Measure Clarifications (cont.) :

- High Performance Energy Management
  - Utilities must follow the M&V requirements addressed in the ESI MT&R Reference Guide.
- VFDs for Fans in Spud and Onion Storage Facilities
  - The title of this measure has been clarified to specify the application is for fans and the VFD reimbursement methodology will be applied.



# Commercial Sector

## Presenter: Allie Robbins



# Commercial Sector

## New Measure:

- Smart Power Strips – Load Sensing
  - Smart Power Strips must be installed in a commercial office setting and used in accordance with the manufacturer's instructions,
  - Automatically switch off peripheral plug load from the control plug outlet and
  - Prohibit false switching by incorporating resistor-capacitor circuit filters or equivalent.
  - BPA reimbursement = \$15.00 per smart power strip.



# Commercial Sector

## Measure Updates

- Expanded Commercial Ductless Heat Pumps (BPA Qualified)
  - Buildings up to 20,000 square feet
  - Existing electric heat
  - No commercial kitchens, commercial refrigeration, or process loads in the zone conditioned by the DHP
  - 9 measures determined by heating and cooling zone
  - \$250/ton



# Commercial Sector

## Measure Updates (cont.):

- Networked Computer Power Management
  - Updated per approved RTF measure
  - Nine measures, grouped by type of HVAC system and heating source (electric resistance, heat pump, gas).
  - Reimbursement = \$10/workstation for all measures



# Commercial Sector

## Measure Updates (cont):

- HVAC and shell measures
  - Forms are now required for all BPA-Qualified HVAC and shell measures
- Documentation requirements clarified for many measures.
- Requirements & specifications clarified for many measures.
- Lists of ice maker and refrigeration measures now provided in IM Documentation library



# Commercial Sector

## Program Update:

- Energy Smart Grocer
  - ESG Custom project process has been added
  - ESG Custom projects will follow the Option 1 custom project path



# Commercial Sector

## Negative Changes – effective October 1, 2012:

- **Unitary Air-Conditioning Equipment**
  - Savings and incentive levels may be reduced to align with updated CEE equipment tiers and specifications.
- **Commercial Kitchen Hot Food Holding Cabinets**
  - The reimbursement level will change: see IM for details of change.
- **Deemed Refrigeration Retrofit Measures**
  - A number of case lighting measures have been replaced with updated measures and will no longer be available.
  - See IM for details and reference numbers



## Residential Sector

Presenter: Sarah F. Moore



# Residential Sector

## Measure Updates:

- EISA impacts to standard CFLs
  - Retail and Mailed CFLs drop to 17kWh
  - Direct install decreased to 20 kWh
- Electric storage water heaters
  - New size categories implemented
  - Savings for 105 and 119 decreased by 43%
  - Reimbursement \$25, consistent with Commercial
  - EF spec increased



# Residential Sector

## New Measure: Heat Pump Water Heaters

- HPWHs must be listed on BPA's qualified products list as meeting Tier 1 requirements of the Northern Climate Specification
- Installed, according to specifications, by an installer who received installation training from the manufacturer of the installed HPWH equipment.
- Ducted HPWHs do not qualify



# Residential Sector

## Heat Pump Water Heaters (cont)

HPWH Tank Size (gallons)	Installation Location, Home Heating Source	Busbar Energy Savings (kWh/yr)	Reimbursement
50-75	Unheated buffer space, any heating system	960	\$300.00
	Interior, non-electric home heat	1687	
	Interior, heat pump	1297	
	Interior, zonal electric resistance	707	
	Interior, electric forced air furnace	607	
Greater than 75	Unheated buffer space, any heating system	1975	\$500.00
	Interior, non-electric home heat	2366	
	Interior, heat pump	1839	
	Interior, zonal electric resistance	1044	
	Interior, electric forced air furnace	908	



# Residential Sector

## Measure Updates:

- Ductless Heat Pumps
  - There is now an optional combined homeowner / contractor form
- Performance Tested Comfort Systems (PTCS)
  - BPA's "PTCS Program Requirements" have replaced the RTF "PTCS Provider Standard.")
  - Language clarifying the eligibility of PTCS heat pumps for new construction has been added.



# Residential Sector

## Measure Clarifications:

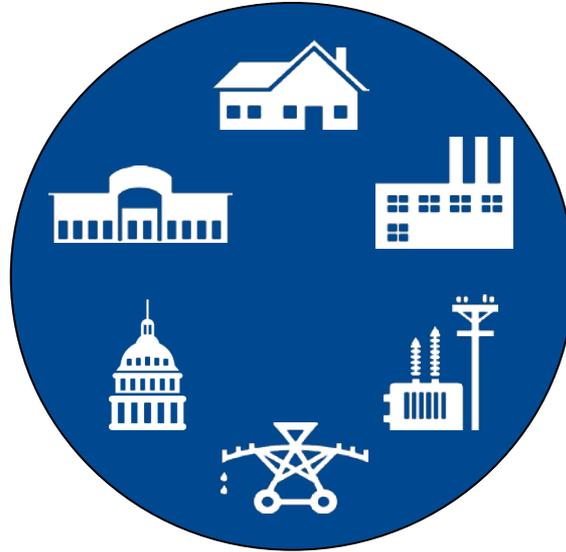
- Low Income Weatherization
  - Performance Tested Comfort Systems requirements have been clarified



# Residential Sector

## Negative Changes – eff. October 1, 2012

- Performance Tested Comfort Systems
  - Customers will be responsible for quality assurance inspections of 10% of the PTCS projects in their territory
- Geothermal Heat Pumps
  - Appendix I, Performance Tested Comfort Systems – Geothermal Heat Pump Design and Installation Standards” dated April 15, 2007 will be replaced with “Ground Source Heat Pump System Installation Standards” adopted October 4, 2011.
  - Geothermal heat pumps will no longer be an eligible qualifying measure in heating zone 1



## Multi Sector

Presenter: Allie Robbins



# Multi-Sector

## Multi-Sector, New Sections:

- **Electric Storage Water Heaters**
  - Moved to multi-sector from the residential and commercial sectors
- **Refrigerator and Freezer Decommissioning**
  - Moved to multi-sector from the residential and commercial sectors
- **Multifamily, Multi-Sector Measures**
  - Section and table added to summarize the available offerings for multifamily housing

# Multi-Sector

## Multi-Sector, Updates:

- Limited Availability Emerging Technologies Field Test Projects
  - BPA will maintain a list of eligible technologies with estimated savings and reimbursements on the BPA website
  - Projects must use the Option 1 Custom Project Process



# Multi-Sector

## Negative Changes – Future changes

- Non-Residential Lighting
  - BPA plans to release Lighting Calculator 3.0 in the fall of 2012 to incorporate a new baseline relative to the changes in federal standards.
  - Lighting Calculators 2.2 and 2.3 will be valid until April 1, 2013
  - Look for announcement for a brownbag on this topic in the coming months.