

# Implementation Manual Updates: April, 2015

## Programmatic Changes





# Agricultural Sector

Presenter: Jennifer Eskil



# Agricultural Sector

## Effective Immediately

**Correction:** In the Irrigation Systems Upgrades Specifications and Requirements section added clarifying language, “Brass impact sprinklers shall be rebuilt by an established repair shop and shall meet or exceed manufacturers’ specifications.”

**Rationale:** Brings uniformity between the IM and UES Measures List.

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**Correction:** In the Variable Frequency Drives in Agricultural Turbine Pump Applications Documentation Requirements table, added clarifying language to “Completed Turbine Pump VFD Energy Savings Calculator (available in the [Document Library](#)) regardless of completion date.”

**Rationale:** Brings greater clarity to the programmatic requirements.



# Agricultural Sector

## Effective Immediately

**Correction:** In the Variable Frequency Drives in Agricultural Turbine Pump Applications section:

- Modified the reference “All new VFD installations must meet IEEE 519 standards” to “BPA recommends” in the Requirements and Specifications subsection.
- Added clarifying language, “BPA no longer collects information for this measure from the BPA Qualified and Provisionally Deemed Input Sheet” from the Requirements and Specifications subsection.

**Rationale:** Removes additional documentation requirements for customers.



# Commercial Sector

## Presenter: John Wilson



# Commercial Sector

**Correction:** Roof and Attic Insulation

**Rationale:** This language was updated to differentiate between roof and attic insulation measures as they apply to K-8 schools. This distinction allows for increased incentives.

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**Change:** The Energy Smart Grocer (ESG) section has been updated to reflect the contractor name change. CLEAResult is now listed as the contractor instead of PECL.

**Rationale:** This language was updated to reflect the current name of the contractor.



# Commercial Sector

**Clarification:** An end of program section has been added to the ESG section, but timing related to close-out options is currently unknown

**Rationale:** This language was added to clarify the end of program.

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**Clarification:** Ductless Heat Pumps

**Rationale:** Removed requirements that were deemed unnecessary.



## Industrial Sector

Presenter: Jennifer Eskil





# Industrial Sector

**Change:** Effective October 1, 2015, the Energy Smart Industrial's High Performance Energy Management & Track and Tune program components and requirements will be consolidated into Strategic Energy Management Projects.

**Rationale:** Makes it easier for customers to understand



## Residential Sector

Presenter: Sarah Fielding Moore



# Residential Sector

## Lighting:

Effective now (April 1, 2015)

- New CFL and LED measures are now available.

*\* Note new Low Use, Mod/High Use categories.*

RBSA Room Type	RTF Category
Exterior	Exterior
Bedroom	Moderate and High-use Interior
Dining Room	Moderate and High-use Interior
Family Room	Moderate and High-use Interior
Garage	Moderate and High-use Interior
Kitchen	Moderate and High-use Interior
Laundry Room	Moderate and High-use Interior
Living Room	Moderate and High-use Interior
Master Bedroom	Moderate and High-use Interior
Bathroom	Low-use Interior
Closet	Low-use Interior
Hall	Low-use Interior
Office	Low-use Interior
Other	Low-use Interior

Effective October 1, 2015:

- Globe CFLs will be included in the General Purpose CFL measure category for payment.
- General Purpose CFLs – Retail will be reduced to \$0.75.





# Residential Sector

## Lighting/Showerheads/Advanced Power Strips:

Effective now (April 1, 2015)

- **Delivery mechanisms** for lighting, showerheads and APS were consolidated into four categories:
    - Retail
    - Direct Install
    - By Request (includes former Mail by Request, Over the Counter, Other)
    - Mailed Non-Request (bulbs only, limited to 4 per household/fiscal year)
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- **APS Clarification:** The Requirements and Specifications for Residential Advanced Power Strips has been clarified to more clearly state that the APS must be used on home entertainment centers only (TV with any combination of peripherals).
  - An **APS End User Survey** is now available – both Print and Online versions



# Residential Sector

## Appliances:

Effective now (April 1, 2015)

- New **Retail** measures for Refrigerators, Freezers, Clothes Washers
    - These measures are available through **Simple Steps**
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Effective October 1, 2015)

- Refrigerator, Freezer, and Clothes Washer measures will be updated
- “**Upright Freezer**” measure will be expired, “Any Freezer” will remain
- Most **Top Loader Clothes Washers** will no longer be eligible, some may
- Savings for **Refrigerator Decommissioning** will decrease and
- Savings for **Freezer Decommissioning** will increase
  - Payment will decrease for both



# Residential Sector

## Water Heaters:

### Effective now (April 1, 2015)

- BPA will no longer provide payment for AirGenerate/Electrolux Heat Pump Water Heaters
    - These have been removed from the HPWH Qualified Product List
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### Effective October 1, 2015)

- Residential Electric Storage Water Heaters measures will be expired due to the new Federal Standard



# Residential Sector

## Ducted HVAC:

Effective October 1, 2015)

- PTCS Duct Sealing measures will be summarized to **any Electric Heat**
- Duct sealing measures for **New Single Family** will be expired
  - PTCS and Prescriptive
- PTCS Duct Sealing **Specification was updated** April 1, 2015 (eff. 10/1/15)
- Prescriptive Duct Sealing **Spec was updated** April 1, 2015 (eff. 10/1/15)
- PTCS Open Loop Ground Water Source Heat Pump **Specification was updated** April 1, 2015 (eff. 10/1/15)
- We will separate Heat Pump and Duct Sealing requirements in the next Implementation Manual



# Residential Sector

## New Construction:

### Effective now (April 1, 2015)

- New measures for New Energy Star Homes (WA) have been added to the Measure List.

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### Coming in October?

- New measures for New Energy Star Homes Oregon are anticipated for October





# Residential Sector

## Weatherization:

Effective October 1, 2015

- **Single Family Wx:** Insulation, Window, Whole House Air Sealing measures will be expired and replaced with updated savings and payments
  - Overall decrease of over 60% in savings, on average
  - Payments will be reduced, but only about 50%
- **Single Family and Manufactured Window payments** will decrease by 50%

	Current	New	% Change
Class 30	\$6.00	<b>\$3.00</b>	50.0%
Class 22	\$8.00	<b>\$4.00</b>	50.0%

- **No change in payment** for multifamily
- **No change in payment** for Low Income measures



# Residential Sector

			Savings			TRC		
			Current	New	% Change	Current	New	% Change
Zone 1	Class 30	Single	27.24	<b>10.27</b>	62.3%	1.80	<b>1.08</b>	40.2%
		Double	19.16	<b>5.19</b>	72.9%	1.20	<b>0.55</b>	53.8%
	Class 22	Single	24.79	<b>11.21</b>	54.8%	2.20	<b>1.01</b>	53.9%
		Double	14.63	<b>6.01</b>	58.9%	1.30	<b>0.55</b>	57.4%
Zone 2	Class 30	Single	35.95	<b>13.99</b>	61.1%	2.30	<b>1.46</b>	36.5%
		Double	25.28	<b>6.88</b>	72.8%	1.60	<b>0.70</b>	56.1%
	Class 22	Single	34.89	<b>15.27</b>	56.2%	3.10	<b>1.33</b>	57.1%
		Double	20.84	<b>7.93</b>	62.0%	1.90	<b>0.70</b>	63.1%
Zone 3	Class 30	Single	42.46	<b>15.07</b>	64.5%	2.70	<b>1.56</b>	42.2%
		Double	29.86	<b>7.32</b>	75.5%	1.90	<b>0.77</b>	59.7%
	Class 22	Single	43.08	<b>16.47</b>	61.8%	3.90	<b>1.43</b>	63.3%
		Double	26.02	<b>8.49</b>	67.4%	2.30	<b>0.74</b>	67.8%



# Residential Sector

HZ 1	Savings			Payments		
	Current	New	% Change	Current	New	% Change
Attic Insulation - R0 to R38	2.66	<b>2.03</b>	-24%	\$0.80	<b>\$0.65</b>	-19%
Attic Insulation - R0 to R49	2.83	<b>2.06</b>	-27%	\$0.85	<b>\$0.65</b>	-24%
Attic Insulation - R11 to R38*		<b>0.40</b>			<b>\$0.25</b>	
Attic Insulation - R11 to R49*		<b>0.43</b>			<b>\$0.25</b>	
Attic Insulation - R19 to R38	0.70	<b>0.20</b>	-72%	\$0.21	<b>\$0.10</b>	-52%
Attic Insulation - R19 to R49	0.87	<b>0.23</b>	-73%	\$0.26	<b>\$0.10</b>	-62%
Attic Insulation - R30 to R38*		<b>0.07</b>			<b>\$0.03</b>	
Attic Insulation - R30 to R49*		<b>0.11</b>			<b>\$0.04</b>	
Attic Insulation - R38 to R49	0.17	<b>0.05</b>	-70%	\$0.05	<b>\$0.02</b>	-60%
Wall Insulation - R0 to R11	2.00	<b>1.62</b>	-19%	\$0.61	<b>\$0.65</b>	7%
Floor Insulation - R0 to R19	2.20	<b>0.70</b>	-68%	\$0.65	<b>\$0.25</b>	-62%
Floor Insulation - R0 to R25	2.58	<b>0.74</b>	-71%	\$0.77	<b>\$0.30</b>	-61%
Floor Insulation - R0 to R30	2.58	<b>0.78</b>	-70%	\$0.77	<b>\$0.30</b>	-61%
Floor Insulation - R19 to R30	0.40	<b>0.11</b>	-72%	\$0.12	<b>\$0.05</b>	-58%

\*Not previously offered



# Residential Sector

## Weatherization:

### Clarification:

- Reference to “audit or field notes” in the Documentation Requirements were removed. These requirements have been edited for clarity. No requirements were added or removed.
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### Effective October 1, 2015:

- Customers will be required to collect heating system type (i.e. electric zonal, forced air furnace, ASHP, GSHP, DHP) for homes received weatherization measures.



# Residential Sector

## Low income Section:

Effective now (April 1, 2015)

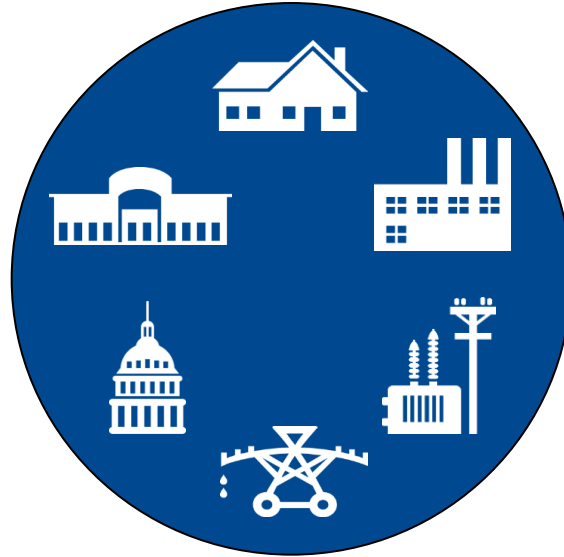
### Measures available in Low Income are:

- Insulation, Windows, Whole House and Prescriptive Air Sealing
- Exterior Doors
- PTCS and Prescriptive Duct Sealing
- Ductless Heat Pumps

\*Not all measures available in all housing types

### The Low Income Section had been updated to be more clear:

- More clarity on **income verification**
- More **information on HVAC measures**
- More **examples on allowable installation and repair costs**



## Multi Sector

Presenter: Sarah F. Moore

# Multi-Sector

## Effective Immediately

**Change:** Effective October 1, 2015, Residential Electric Storage Water Heater measures will be expired.

**Rationale:** A new federal standard for efficiency went into effect in 2015 for electric storage water heaters, raising the baseline.