

# Measure Lives Documents

The following tables represent measure life data that should be used for your “Measure Cost” inputs

Commercial and Industrial Measures	Years
<b>Commercial and Industrial HVAC and Refrigeration</b>	
▪ HVAC -Unitary Systems	15
▪ HVAC - Central Systems	15
▪ Heat Recovery Systems	15
▪ Chillers	20
<b>Commercial and Industrial Controls</b>	
▪ HVAC Controls, including Energy Management Systems	15
▪ Lighting Control Systems	15
▪ Process and Other Efficiency Control Systems	10
▪ Commissioning/Retro-commissioning	5
<b>Commercial and Industrial Process Efficiency Improvements</b>	
▪ Refrigeration Systems	19
▪ Motor and Drive Systems	15
▪ Fan, Compressor and Pump Systems	15
▪ ENERGY STAR Qualified Transformers	15
▪ Other Process Modifications	15
▪ Food Storage – Free standing Freezers	19
▪ Food Storage – Free standing Refrigerators	19
▪ Laundry - Commercial ENERGY STAR Qualified Clothes Washer	8
<b>Commercial and Industrial Lighting Improvements</b>	
▪ Fluorescent, Compact Fluorescent, or HID Luminaries/Fixtures	12
▪ LED and EL Exit Signs	10
▪ Low Voltage Halogen	10
<b>Commercial and Industrial Building Thermal Improvements</b>	
▪ Roof, Ceiling and Wall Insulation	15
▪ Exterior Roof Insulation	10

## 2010 Demand Side Resources RFP • Exhibit E

Commercial and Industrial Measures	Years
▪ Duct Insulation	15
▪ Insulated Windows (minimum Class .35 for new construction)	20
<b>Commercial and Industrial Domestic Water Heating Improvements</b>	
▪ Insulation	10
▪ Low Flow Devices	5
▪ Heat Pump Water Heaters	15
▪ Water Heater Tank, not to exceed warranty period	Up to 15

- Measure lives are consistent with PSE's filed Electricity Conservation tariffs and/or Regional Technical Forum (RTF).
- This list may not include all possible measures. For Measures not listed, respondent should recommend a measure life, with supporting data, experience, or evaluation findings.

**Residential Measures:**

Residential Measures	Years
<b>Residential Lighting</b>	
▪ Screw-in CFLs (ENERGY STAR qualified)	5
▪ CFL Fixtures (ENERGY STAR qualified)	15
<b>Residential HVAC</b>	
▪ Air-source heat pump conversions-Mobile homes (ENERGY STAR qualified & install to RTF specification)	18
▪ Air-source heat pump upgrades-Mobile homes (ENERGY STAR qualified & install to RTF specification)	18
▪ Heating supply duct sealing - Single family (PTCS or qualifying equivalent specification)	20
▪ Heating duct sealing - Mobile home (PTCS or qualifying equivalent specification)	20
▪ Heating supply duct insulation	20
<b>Residential Water Heating</b>	
▪ Domestic water heater (natural gas) = .62 EF or greater	12
▪ Water heater pipe insulation	15

## 2010 Demand Side Resources RFP • Exhibit E

<b>Residential Measures</b>	<b>Years</b>
▪ Shower head & aerator replacement	6
<b>Residential Envelope – Existing &amp; New Construction</b>	
▪ Shell insulation - Single & Multi-family	30
<b>Residential Appliances</b>	
▪ Dishwasher (ENERGY STAR qualified)	9
▪ Washing machine (ENERGY STAR qualified)	14

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