Measure Lives Documents

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

| Commercial and Industrial Measures | Years |
|--|-------|
| Commercial and Industrial HVAC and Refrigeration | |
| HVAC -Unitary Systems | 15 |
| HVAC - Central Systems | 15 |
| Heat Recovery Systems | 15 |
| Chillers | 20 |
| Commercial and Industrial Controls | |
| HVAC Controls, including Energy Management Systems | 15 |
| Lighting Control Systems | 15 |
| Process and Other Efficiency Control Systems | 10 |
| Commissioning/Retro-commissioning | 5 |
| Commercial and Industrial Process Efficiency Improvements | |
| 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 Washe | er 8 |
| Commercial and Industrial Lighting Improvements | |
| Fluorescent, Compact Fluorescent, or HID Luminaries/Fixtures | 12 |
| ■ LED and EL Exit Signs | 10 |
| ■ Low Voltage Halogen | 10 |
| Commercial and Industrial Building Thermal Improvements | |
| Roof, Ceiling and Wall Insulation | 15 |
| Exterior Roof Insulation | 10 |

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| Commercial and Industrial Measures | Years |
|--|----------|
| Duct Insulation | 15 |
| Insulated Windows (minimum Class .35 for new construction) | 20 |
| Commercial and Industrial Domestic Water Heating Improvements | |
| 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 |
|---|-------|
| Residential Lighting | |
| Screw-in CFLs (ENERGY STAR qualified) | 5 |
| CFL Fixtures (ENERGY STAR qualified) | 15 |
| Residential HVAC | |
| Air-source heat pump conversions-Mobile homes (ENERGY | 18 |
| STAR qualified & install to RTF specification) | |
| Air-source heat pump upgrades-Mobile homes (ENERGY STAR | 18 |
| qualified & install to RTF specification) | |
| Heating supply duct sealing - Single family (PTCS or qualifying | 20 |
| equivalent specification) | |
| Heating duct sealing - Mobile home (PTCS or qualifying | 20 |
| equivalent specification) | |
| Heating supply duct insulation | 20 |
| Residential Water Heating | |
| Domestic water heater (natural gas) = .62 EF or greater | 12 |
| Water heater pipe insulation | 15 |

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

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