

DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Program: Multifamily Buildings - CO

Description:

Multifamily buildings that are electric and natural gas customers can receive an energy assessment and direct-install measures they are eligible for based on the assessment at no additional cost. These customers will also be eligible to participate in larger, capital-intensive projects that offer rebates for custom and prescriptive measures.

Program References:

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| Measure "Direct Install - LED" | Refer to Product "CO Home Lighting & Recycling" for calculation methodology. See table 1 for incremental cost of measure. |
| Measure "Direct Install - Low-Flow Showerhead" | Refer to Product "CO Energy Efficient Showerheads" for calculation methodology. See table 1 for incremental cost of measures. |
| Measure "Direct Install - Kitchen Aerator" | Refer to Product "CO Energy Efficient Showerheads" for calculation methodology. See table 1 for incremental cost of measures. |
| Measure "Direct Install - Bath Aerator" | Refer to Product "CO Energy Efficient Showerheads" for calculation methodology. See table 1 for incremental cost of measures. |
| Measure "Direct Install - LED Exit Sign" | Refer to Product "CO Lighting Efficiency" for calculation methodology. See table 1 for incremental cost of measures. |
| Savings for Measure "Energy Star Smart Thermostats" | Refer to Product "Commercial Building Controls" to find equations (Customer kW, Customer kWh, Customer PCKW, Customer Dth, etc.) for the "Energy Star certified smart thermostat - AC & GAS", "Energy Star certified smart thermostat - AC ONLY", and the "Energy Star certified smart thermostat - AC & ELEC HEAT" electric and gas measures. |
| Savings for Measure "Average Multifamily Unit with EnergyStar Smart Thermostat" | Refer to Product "Smart Thermostat & Optimization" to find equations (Customer kW, Customer kWh, Customer PCKW, Customer Dth, etc.) for the "Energy Star certified smart thermostat - Combo Customer" electric and gas measures. |
| Measure "Direct Install - LED" | Refer to Product "CO Home Lighting & Recycling" for reference table for Hours and Coincidence Factor. |

| Variable ID | Value | Description |
|-----------------------|--------------|--|
| NTG | 100% | Net-to-gross factor. |
| Incremental Cost | See Table 1 | Incremental cost of direct install measures |
| Lamp Lifetime | 25000 | Lifetime of lamps installed through the program. Spec sheets provided by vendor |
| Baseline Lamp Wattage | Vendor Input | Wattage of the lamp types being removed. Recorded by vendor during visit. |
| Proposed Lamp Wattage | Vendor Input | Wattage of the lamp types being installed provided by vendor after installation. |

Table 1 Incremental Cost

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| Showerhead - Regular | \$14.00 |
| Showerhead - Handheld | \$14.00 |
| Showerhead - Regular 1.25GPM | \$14.00 |
| Kitchen Aerator | \$5.00 |
| Kitchen Aerator 1.0GPM | \$5.00 |
| Bath Aerator | \$4.00 |
| Bath Aerator 0.5GPM | \$4.00 |
| LED Globe | \$5.00 |
| LED A19 Energy Star Rated Lamp | \$5.00 |
| LED Candelabra | \$5.00 |
| LED BR30 Flood | \$5.00 |
| LED MR16 Reflector | \$5.00 |
| LED PAR30 | \$5.50 |
| LED Exit Kit | \$25.00 |
| Energy Star Smart Thermostat - In-Unit* | \$180.51 |
| Energy Star Smart Thermostat - Common Areas* | \$175.00 |

*Costs are re-evaluated throughout the year and updated to account for the rapidly evolving market. The incremental cost to install the thermostats is split between the demand response and energy efficiency programs.

Inputs Provided by Customer or Vendor: Verified during M&V:

| | |
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| Wattage of LEDs installed | Yes |
| Quantity of each Wattage of LEDs installed | Yes |
| Quantity of primary showerheads installed | Yes |
| Quantity of handheld showerheads installed | Yes |
| Quantity of kitchen faucet aerators installed | Yes |
| Quantity of bathroom faucet aerators installed | Yes |
| Quantity of water heater blankets installed | Yes |
| Quantity of LED Exit sign retrofits installed | Yes |