

DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Product: Lighting - Small Business

Description:

Prescriptive rebates will be offered for replacement lighting equipment. Custom rebates are available for lighting-related improvements that are not prescriptive.

Program References

All Lamp, Fixture and Lighting Control Measures	Refer to Product "CO Lighting Efficiency" to find equations (Customer kW, Customer kWh, Customer PCkW, etc.), Variable IDs, Deemed Values, and Eligibility Requirements for the measures. Exceptions are listed below.
Measures "Faucet Aerators"	Refer to Product "CO Commercial Refrigeration" to find equations (Customer kW, Customer kWh, Customer PCkW, etc.) for the "Faucet Aerator (Kitchen), elec water heating", "Faucet Aerator (Restroom), elec water heating", "Faucet Aerator (Kitchen), gas water heating", and the "Faucet Aerator (Restroom), gas water heating" 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 measures.

Variable ID:

Value

Description

Existing_Model_kW	Customer Input from Picklist	Existing equipment wattage collected on-site for Direct Install lamps. Specific lighting product provided by customer and verified during M&V. EISA affected lamps are modified, see Table 1 below for values.
NTG	89%	Net-to-gross for prescriptive and custom measures for Small Business Lighting Retrofit rebates. ¹
NTG	90%	Net-to-gross for Direct Install. ¹
NTG	100%	Net-to-gross for Network Lighting Controls ³
High Efficiency Cost	Customer Input from Picklist	Cost of the High Efficiency technology. ² *Costs are re-evaluated throughout the year and updated to account for the rapidly evolving market.

Tables:

Table 1: Baseline Wattages for EISA Affected Bulbs

Lumens	EISA Baseline Wattage (halogen)	Non-EISA Baseline Wattage (incandescent)
310 - 749	29	40
750 - 1,049	43	60
1,050 - 1,489	53	75
1,490 - 2,600	72	100

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Table 2: Direct Install Lamps ²

Lamp Type	Measure Life	Current Cost
A Lamps	7	\$2.50
BR30	7	\$3.75
MR16	7	\$3.58
PAR20	7	\$3.50
R20	5	\$3.40
PAR30	7	\$4.86
PAR38	7	\$12.50

* = See note above on updating costs throughout the program year.

Table 3: Aerator Costs ²

Aerator Type	Current Cost
0.5 GPS Restroom Aerators	\$0.49
1.5 GPS Kitchan Aerators	\$0.51

* = See note above on updating costs throughout the program year.

Table 4: Smart Thermostat Costs

Smart Thermostat Description	Current Cost
Energy Star Smart Thermostat	\$175.00

* = See note above on updating costs throughout the program year.

The incremental cost to install the thermostats is split between the demand response and energy efficiency programs.

References:

1. Net-to-Gross Factors from Evaluation of the Small Business Lighting Program - Colorado. Dec 16, 2016. Tetra Tech.
2. Rated Life for Direct Install Lamps and Costs Provided by third-party implementer from their new inventory list as of July 27th, 2018.
3. The Unopposed Settlement Agreement in Proceeding No. 18A-0606EG.