DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Program: Energy Savings Kit

Description:

A package of home energy efficiency measures in a kit that will be distributed to low-income customers. Each participant receives a kit containing a high-efficiency showerhead, two high efficiency sink aerators (1.0 GPM and 1.5 GPM), and eight LED bulbs, 10 Watts each.

Program References:

Mearsures "Provide Efficient Showerhead"	Refer to Program "Energy Efficient Showerhead - CO" to find formulas for Customer Dth, Customer kWh, customer PCkW, etc. for the "Efficient Showerhead" measures.		
Measures "Provide Efficient Kitchen Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find formulas for Customer Dth, Customer kWh, customer PCkW, etc. for the "Efficient Kitchen Faucet Aerator" measure.		
Measures "Provide Efficient Bath Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find formulas for Customer Dth, Customer kWh, customer PCkW, etc. for the "Efficient Bath Faucet Aerator" measure.		
Replace incandescent lamps with LEDs	Refer to Program CO Home Lighting & Recycling to find formulas for Customer kW, Customer kWh, Customer PCkW for the "Replace incandescent lamp with LED".		
Measure "Provide Efficient Showerhead"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for "Gas Split Factor", "Measure Life", "Hours", "Coincidence Factor", etc values.		
Measures "Provide Efficient Kitchen Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for "Gas Split Factor", "Measure Life", "Hours", "Coincidence Factor", etc values.		
Measures "Provide Efficient Bath Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for "Gas Split Factor", "Measure Life", "Hours", "Coincidence Factor", etc values.		
Measure "LED"	Refer to Program "Home Lighting and Recycling - CO" to find references and tables for "Measure Life", "Hours", "Coincidence Factor", etc values.		
Measure "Provide Efficient Showerhead"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for Operation and Maintenance cost savings value due to water savings.		
Measures "Provide Efficient Kitchen Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for Operation and Maintenance cost savings value due to water savings.		
Measures "Provide Efficient Bath Faucet Aerator"	Refer to Program "Energy Efficient Showerhead - CO" to find reference table for "Operation and Maintenance cost savings", value due to water savings.		

Energy Savings Kit

DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Algorithms:

All measures	Refer to Source Programs for energy savings calculation algorithms.
--------------	---

Variables:

Energy O&M savings	Varies by	= Savings attributed to savings of fuel not served by Xcel Energy. Varies by	
Energy Odivi Savings	customer	customer depending on customer type and water heating fuel.	
Net-to-Gross Factor (NTG)	100%	= We will use 100% as these kits would not be available without the product.	
Install Rate	Table 1	= Installation rates will be determined during the year.	
Incremental Costs for all measures	Input	= costs provided by vendor.	
Lamp Lifetime	25000	= Lifetime of lamp in kit. From Spec sheet From implementor	

Inputs:

Verified during		
M&V:		
Yes		
	M&V: Yes Yes Yes Yes	

Assumptions:

Savings shown above include homes with either electric or gas water heaters. The Energy Efficient Showerhead - CO program monitors and establishes a gas split factor for use in homes where the water heater type is unknown. Energy Savings Kits will use the Energy Efficient Showerhead - CO program's gas split factor for unknown water heater types to claculate and claim energy savings.

Energy Savings Kit Colorado

DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Tables:

Table 1

Measure	Install Rate
Replace incandescent lamps with LEDs	74.60%
Provide Efficient Showerhead - Electric Water	70.10%
Heater	70.1070
Provide Efficient Kitchen Faucet Aerator - Electric	64.00%
Water Heater	04.0070
Provide Efficient Bath Faucet Aerator - Electric	68.10%
Water Heater	00.1070

References:

See Reference Programs
Energy Efficient Showerhead - CO
Home Lighting and Recycling - CO
Lamp spec sheet provided by implementer
Colorado House Bill 2019 1231

Changes from 2017 / 2018 Plan Cleaned up Deemed sheet

Added table for install rate in deemed sheet

Energy Savings Kit Colorado