

DEEMED SAVINGS TECHNICAL ASSUMPTIONS

Product: ENERGY STAR Retail Products Platform Pilot

Description:

This program will engage retailers through midstream incentive payments to increase the demand for and supply of the most energy efficient residential plug-load and appliance products on the market driving greater sales of select ENERGY STAR® certified products to customers.

Algorithms:

After comparison to existing products offered in the Company's portfolio, the company has elected to adopt assumptions developed by the Cadmus Group on behalf of the ENERGY STAR Retail Products Platform for the purposes of quantifying impacts related to this pilot (See Reference 1). These assumptions have been reviewed by multiple utilities across the country as well as by their respective commissions and the Environmental Protection Agency. See Table 1 for the results of this analysis and accompanying product information sheets for background analysis.

Inputs:

Product Category
Quantity of units purchased per product category
Store Zip Code

Assumptions:

For the purpose of the pilot program period, all purchases are assumed to be made by residential customers.

Tables:

Table 1: Deemed Energy Savings, Costs, and Lifetimes per unit for each product measure (Reference 1)

Measure	Gross Electric Energy Savings (kWh)	Natural Gas Energy Savings (Dth)	Incremental Product Cost (\$)	Measure Life (yrs)
Sound Bars	66.0	0.0	\$ -	7
Freezers	31.2	0.0	\$ 10.11	11
Gas Clothes Dryers	7.7	0.5	\$ 270.16	12
Electric Clothes Dryers	160.4	0.0	\$ 224.91	12
Air Cleaners	213.9	0.0	\$ 56.00	9
Room Air Conditioners	46.2	0.0	\$ 114.45	9

Table 2: Demand Savings and Coincidence Factors

Measure	Electric Demand Savings (kW) (Reference 1)	Coincidence Factors (%)
Sound Bars	0.008	100% (Reference 2)
Freezers	0.004	(Reference 3)
Gas Clothes Dryers	0.027	(Reference 4)
Electric Clothes Dryers	0.567	(Reference 4)
Air Cleaners	0.037	100% (Reference 5)
Room Air Conditioners	0.074	(Reference 6)

References:

1. Cadmus Group analysis for the ESRPP (see attached exhibit)
2. Demand savings for Sound Bars are calculated as an average value for all operating hours (8760), which allows a CF value of 100%
3. See Company's assumptions for the Refrigerator Replacement measure in the Home Performance with Energy Star product
4. See Company's assumptions for Clothes Washers under the Home Performance with Energy Star product
5. Per Reference 1, Air Cleaners are expected to operate continuously throughout the year
6. See Company's assumptions for Air Conditioning Equipment in the High Efficiency Air Conditioning Program