

Electric Product Detailed Technical Assumptions																																		
Measure Description		High Efficiency Product Assumptions			Baseline Product Assumptions			Economic Assumptions					Stipulated Output					Economic Assumptions			Technical Assumption	Program Forecast Inputs		Stipulated Forecast Inputs			Program Forecast Outputs							
Electric Product Measure	Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumption (watts)	Efficient Hours of Operation (hrs/yr)	Baseline Product Description / Rating	Baseline Product Consumption (watts)	Baseline Hours of Operation (hrs/yr)	Measure Lifetime (years)	Rebate Amount (\$)	Average Baseline Product Cost (\$)	Incremental Cost of Efficient Product (\$)	Assumed Energy Cost (\$/kWh)	Rebate as a % of Incremental Cost (%)	Incremental Cost Payback Period w/o Rebate (yrs)	Incremental Cost Payback Period w/ Rebate (yrs)	Annual Customer kWh Savings (kWh/yr)	Rebated Cost / Cust kWh Saved (\$/kWh)	Rebated Lifetime cost (Cust kWh Saved (\$/kWh))	Customer kWh Savings (kW)	Generator Peak kW Savings (kW)	Non-Energy O&M Savings (\$)	Energy O&M Savings (\$)	Coincidence Factor (%)	2020 Participants (-)	2020 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2020 NET Gen kW (kW)	2020 NET Gen kWh (kWh)	2020 Rebate Budget (\$)	2020 Incremental Costs (\$)	Measure Load Shape	
<b>TOTAL</b>																																		
Custom	Misc Custom measures	Misc Custom Measures	8,716	4,920	no controls	30,000	4,920	15.00	\$8,619	\$0	\$24,135	0.07388	36%	3.15	2.027987997	104,728	\$0.082	\$0.005	21.28	22.39	\$0.00	\$0.00	97%	20	20	100%	100%	100%	448	2,212,530	\$172,380	\$482,691	CO-BUS-FLAT	
Coil Cleaning Tune Up	Coil Cleaning Tune-Up Refrigerators	After Tune-Up	410	8,760	Before Tune-Up	441	8,760	1.00	\$10	\$0	\$15	0.05615	67%	0.99	0.33	270	\$0.037	\$0.037	0.03	0.03	\$0.00	\$0.00	100%	0	0	100%	100%	100%	0	0	\$0	\$0	CO-BUS-FLAT	
Coil Cleaning Tune Up	Coil Cleaning Tune-Up Freezers	After Tune-Up	652	8,760	Before Tune-Up	701	8,760	1.00	\$15	\$0	\$15	0.05615	100%	0.62	-	430	\$0.035	\$0.035	0.05	0.05	\$0.00	\$0.00	100%	0	0	100%	100%	100%	0	0	\$0	\$0	CO-BUS-FLAT	
Restroom Aerator	Sink Aerator - Restroom, Electric Water Heating	6 gallons per minute restroom faucet aerator	35	8,760	2.2 gallons per minute faucet	130	8,760	9.00	\$8	\$0	\$8	0.05615	100%	0.08	-	828	\$0.010	\$0.001	0.09	0.00	\$55.76	\$0.00	1%	30	30	100%	100%	100%	0	26,225	\$240	\$240	CO-BUS-CUSTOM	
Kitchen Aerator	Sink Aerator - Kitchen, Electric Water Heating	1.5 gallons per minute kitchen faucet aerator	122	8,760	2.2 gallons per minute faucet	178	8,760	9.00	\$8	\$0	\$8	0.05615	100%	0.15	-	497	\$0.016	\$0.002	0.06	0.00	\$24.40	\$0.00	1%	23	23	100%	100%	100%	0	12,078	\$184	\$184	CO-BUS-CUSTOM	
LED Ref and Frz Screw in Fixture Retrofit	LED Ref and Frz Screw in Fixture Retrofit	LED Screw-in Lamp	10	3,702	Halogen, Incandescent, or CFL Lamp	39	3,702	5.05	\$3	\$0	\$3	0.08674	100%	0.34	-	109	\$0.029	\$0.006	0.03	0.02	\$0.00	\$0.00	79%	60	60	100%	100%	100%	1	6,891	\$189	\$189	CO-BUS-LIGHTING	
Pre-Rinse Sprayer	CHW Pre-Rinse Sprayer - Electric Water Heating	1.28 gallons per minute sprayer	532	8,760	1.60 gallons per minute sprayer	665	8,760	5.00	\$45	\$0	\$45	0.05615	100%	0.31	-	1,166	\$0.039	\$0.008	0.13	0.01	\$78.57	\$0.00	6%	15	15	100%	100%	100%	0	18,471	\$675	\$675	CO-BUS-CUSTOM	
Energy Star Smart Thermostat	Install Energy Star certified smart thermostat - AC & GAS	Energy Star Certified Thermostat	3,943	760	Manual or programmable thermostat	8,324	760	10.00	\$13	\$0	\$13	0.20283	100%	0.10	-	450	\$0.028	\$0.003	0.59	0.00	\$0.00	\$0.00	100%	15	45	100%	100%	100%	0	21,374	\$567	\$567	CO-BUS-COOL_OUT	
Energy Star Smart Thermostat	Install Energy Star certified smart thermostat - AC ONLY	Energy Star Certified Thermostat	3,943	760	Manual or programmable thermostat	8,324	760	10.00	\$14	\$0	\$14	0.20283	100%	0.11	-	450	\$0.032	\$0.003	0.59	0.00	\$0.00	\$0.00	100%	5	15	100%	100%	100%	0	7,125	\$214	\$214	CO-BUS-COOL_OUT	
Energy Star Smart Thermostat	Install Energy Star certified smart thermostat - AC & ELEC HEAT	Energy Star Certified Thermostat	3,943	1,260	Manual or programmable thermostat	8,324	1,260	10.00	\$23	\$0	\$23	0.10299	100%	0.16	-	754	\$0.030	\$0.003	0.59	0.00	\$0.00	\$0.00	100%	5	15	100%	100%	100%	0	11,949	\$340	\$340	CO-BUS-COOL_OUT	
Anti-Sweat Heater - Med Temp	Anti-Sweat Heater Controls, Medium Temperature Case	Anti-Sweat Heater Controls	4	8,760	Anti-Sweat Heaters running constantly	121	8,760	12.00	\$60	\$0	\$180	0.05615	33%	3.11	2.08	1,029	\$0.058	\$0.005	0.12	0.12	\$0.00	\$0.00	97%	40	40	100%	100%	100%	5	43,485	\$2,400	\$7,200	CO-BUS-FLAT	
Anti-Sweat Heater - Low Temp	Anti-Sweat Heater Controls, Low Temperature Case	Anti-Sweat Heater Controls	7	8,760	Anti-Sweat Heaters running constantly	238	8,760	12.00	\$60	\$0	\$180	0.05615	33%	1.59	1.06	2,020	\$0.030	\$0.002	0.23	0.24	\$0.00	\$0.00	97%	15	15	100%	100%	100%	4	32,010	\$900	\$2,700	CO-BUS-FLAT	
Closed Case Doors - Cooler	Retrofit of open multi-deck Cooler Cases with solid glass doors (per linear foot of case)	Closed Case with Doors	12	8,760	Open Case with No Doors	72	8,760	12.00	\$30	\$0	\$222	0.05615	14%	7.56	6.54	522	\$0.057	\$0.005	0.06	0.06	\$0.00	\$0.00	100%	2	2	100%	100%	100%	0	1,103	\$60	\$443	CO-BUS-FLAT	
Closed Case Doors - Freezer	Retrofit of open multi-deck Freezer Cases with solid glass doors (per linear foot of case)	Closed Case with Doors	39	8,760	Open Case with No Doors	218	8,760	12.00	\$75	\$0	\$330	0.05615	23%	3.73	2.88	1,572	\$0.048	\$0.004	0.18	0.19	\$0.00	\$0.00	100%	2	2	100%	100%	100%	0	3,322	\$150	\$659	CO-BUS-FLAT	
CO DCV - 5 to less than 7.5 HP	Demand Controlled Ventilation CO - 5 to less than 7.5 HP	Commercial kitchen ventilation hood with Demand Controlled Ventilation	10,547	5,069	Commercial kitchen ventilation hood without Demand Controlled Ventilation	14,160	5,069	20.00	\$1,250	\$0	\$4,077	0.07192	31%	3.10	2.15	18,314	\$0.068	\$0.003	3.61	1.73	\$0.00	\$0.00	44%	6	6	100%	100%	100%	10	116,075	\$7,500	\$24,461	CO-BUS-COOL_OUT	
CO DCV - 7.5 HP or Greater	Demand Controlled Ventilation CO - 7.5 HP or Greater	Commercial kitchen ventilation hood with Demand Controlled Ventilation	14,597	5,069	Commercial kitchen ventilation hood without Demand Controlled Ventilation	19,597	5,069	20.00	\$1,298	\$0	\$5,642	0.07192	23%	3.10	2.38	25,347	\$0.051	\$0.003	5.00	2.40	\$0.00	\$0.00	44%	6	6	100%	100%	100%	14	160,648	\$7,785	\$33,854	CO-BUS-COOL_OUT	
CO DCV - Less than 5 HP	Demand Controlled Ventilation CO - Less than 5 HP	Commercial kitchen ventilation hood with Demand Controlled Ventilation	4,219	5,069	Commercial kitchen ventilation hood without Demand Controlled Ventilation	5,664	5,069	20.00	\$500	\$0	\$1,631	0.07192	31%	3.10	2.15	7,326	\$0.068	\$0.003	1.45	0.69	\$0.00	\$0.00	44%	6	6	100%	100%	100%	4	46,430	\$3,000	\$9,784	CO-BUS-COOL_OUT	
Dishwashers - Primary Fuel: Elec; Secondary Fuel: Elec	Commercial Dishwasher - Under Counter & Door, Electric w/ Electric Booster	ENERGY STAR qualified unit	2,827	6,570	Conventional unit as defined by ENERGY STAR	3,972	6,570	12.50	\$250	\$0	\$445	0.06337	56%	0.65	0.28	7,519	\$0.033	\$0.003	1.14	1.06	\$212.53	\$0.00	86%	2	2	100%	100%	100%	2	15,886	\$500	\$890	CO-BUS-LIGHTING	
Dishwashers - Primary Fuel: Gas; Secondary Fuel: Gas	Commercial Dishwasher - Under Counter & Door, Electric w/ Gas Booster	ENERGY STAR qualified unit	1,972	6,570	Conventional unit as defined by ENERGY STAR	2,764	6,570	12.50	\$125	\$0	\$380	0.06337	33%	0.70	0.47	5,203	\$0.024	\$0.002	0.79	0.73	\$212.53	\$0.00	86%	2	2	100%	100%	100%	1	10,993	\$250	\$761	CO-BUS-LIGHTING	
Dishwashers - Primary Fuel: Elec; Secondary Fuel: None	Commercial Dishwasher - Under Counter & Door, Electric No Booster	ENERGY STAR qualified unit	2,401	6,570	Conventional unit as defined by ENERGY STAR	3,824	6,570	12.50	\$250	\$0	\$25	0.06337	1000%	0.02	(0.21)	9,349	\$0.027	\$0.002	1.42	1.32	\$490.18	\$0.00	86%	2	2	100%	100%	100%	3	19,751	\$500	\$50	CO-BUS-LIGHTING	
Dishwashers - Primary Fuel: Gas; Secondary Fuel: Elec	CO-Commercial Dishwashers (Door & Under Counter- Gas w/ Electric Booster)	ENERGY STAR qualified unit	1,330	6,570	Conventional unit as defined by ENERGY STAR	1,857	6,570	12.50	\$125	\$0	\$360	0.06337	35%	0.83	0.54	3,465	\$0.036	\$0.003	0.53	0.49	\$212.53	\$0.00	86%	2	2	100%	100%	100%	1	7,320	\$250	\$719	CO-BUS-LIGHTING	
EC Motors - Display Case	ECM - Medium Temp Display Case	Electronically Commutated Motor (ECM)	24	8,672	Shaded Pole Motor	72	8,672	15.00	\$40	\$0	\$141	0.05637	28%	6.03	4.31	414	\$0.097	\$0.006	0.05	0.05	\$0.00	\$0.00	99%	15	15	100%	100%	100%	1	6,563	\$600	\$2,111	CO-BUS-FLAT	
EC Motors - Display Case	ECM - Low Temp Display Case	Electronically Commutated Motor (ECM)	28	8,672	Shaded Pole Motor	84	8,672	15.00	\$40	\$0	\$141	0.05637	28%	5.11	3.66	489	\$0.082	\$0.005	0.06	0.06	\$0.00	\$0.00	99%	10	10	100%	100%	100%	1	5,161	\$400	\$1,407	CO-BUS-FLAT	
EC Motors - Walk in Cooler	ECM - Medium Temp Walk-in, Evap fan <= 15" Diameter	Electronically Commutated Motor (ECM)	44	8,585	Shaded Pole Motor	137	8,585	15.00	\$70	\$0	\$269	0.05659	26%	5.99	4.43	793	\$0.088	\$0.006	0.09	0.10	\$0.00	\$0.00	98%	65	65	100%	100%	100%	6	54,456	\$4,550	\$17,486	CO-BUS-FLAT	
EC Motors - Walk in Cooler	ECM - Low Temp Walk-in, Evap fan <= 15" Diameter	Electronically Commutated Motor (ECM)	52	8,585	Shaded Pole Motor	161	8,585	15.00	\$70	\$0	\$269	0.05659	26%	5.08	3.76	936	\$0.075	\$0.005	0.11	0.12	\$0.00	\$0.00	98%	45	45	100%	100%	100%	5	44,473	\$3,150	\$12,105	CO-BUS-FLAT	
LED Ref and Frz Cases 5' or 6' doors	LED Ref and Frz Cases 5' or 6' doors	LED Case Lighting	26	6,233	Fluorescent System	78	6,233	20.00	\$45	\$0	\$164	0.06493	27%	7.78	5.64	324	\$0.139	\$0.007	0.05	0.05	\$0.00	\$0.00	90%	20	20	100%	100%	100%	1	6,848	\$900	\$3,275	CO-BUS-FLAT	
Medium Temperature Reach-In Case	Medium-temp Enclosed Reach-In Case (per linear foot)	Medium-temp Reach-In Cases with Doors	21	8,760	Medium-temp Open Reach-In Cases	132	8,760	15.00	\$70	\$0	\$686	0.05615	10%	12.59	11.31	970	\$0.072	\$0.005	0.11	0.12	\$0.00	\$0.00	100%	0	0	100%	100%	100%	0	0	\$0	\$0	CO-BUS-FLAT	
New Medium-temp Enclosed Reach-In Case	New Medium-temp Enclosed Reach-In Case (per linear foot)	New Medium-temp Reach-In Cases with Doors	21	8,760	New Medium-temp Open Reach-In Cases	132	8,760	15.00	\$70	\$349	\$338	0.05615	21%	6.19	4.91	970	\$0.072	\$0.005	0.11	0.12	\$0.00	\$0.00	100%	10	10	100%	100%	100%	1	10,251	\$700	\$3,376	CO-BUS-FLAT	
No Heat Case Doors	No Heat Case Doors Cooler	No Heat Case Doors	0	8,760	Anti-Sweat Heaters running constantly	121	8,760	10.00	\$85	\$0	\$275	0.05615	31%	4.62	3.19	1,061	\$0.080	\$0.008	0.12	0.13	\$0.00	\$0.00	100%	15	15	100%	100%	100%	2	16,813	\$1,275	\$4,125	CO-BUS-FLAT	
No Heat Case Doors	No Heat Case Doors Freezer	No Heat Case Doors	0	8,760	Anti-Sweat Heaters running constantly	238	8,760	10.00	\$75	\$0	\$800	0.05615	9%	6.84	6.20	2,082	\$0.036	\$0.004	0.24	0.26	\$0.00	\$0.00	100%	10	10	100%	100%	100%	3	21,989	\$750	\$8,000	CO-BUS-FLAT	