

Measure Description		Electric Product Detailed Technical Assumptions																				Program Forecast Inputs				Program Forecast Outputs				Measure Load Shape									
		High Efficiency Product Assumptions				Baseline Product Assumptions				Economic Assumptions				Stipulated Output				Economic Assumptions				Technical Assumptions				2019					2020				Stipulated Forecast Inputs				Program Forecast Outputs
Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumption (kWh)	Efficient Hours of Operation (Hours)	Baseline Product Description / Rating	Baseline Product Consumption (kWh)	Baseline Hours of Operation (Hours)	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 / kWh Saved (\$/kWh)	Rebated Lifetime Cost / kWh Saved (\$/kWh)	Customer kWh Savings (kWh)	Generator Peak kW Savings (kW)	Generator Peak kW Savings (kW)	Non-Energy GEM Savings (\$)	Energy GEM Savings (\$)	Conductance Factor (%)	2019 Participants (C)	2019 Units (U)	2020 Participants (C)	2020 Units (U)	NET G (C)	Installation Rate (%)	Realization Rate (%)	2019 NET Gen kWh (kWh)	2019 NET Gen kWh (kWh)	2019 Rebate Budget (\$)	2019 Incremental Costs (\$)	2020 NET Gen kWh (kWh)	2020 NET Gen kWh (kWh)	2020 Rebate Budget (\$)	2020 Incremental Costs (\$)	
Attic Insulation in Electrically Heated and non-cooled Home	Existing Home with Attic Insulation added to achieve R-34	466	1,100	Existing Home with no attic insulation and average heating efficiency of 1.0 COP	2,343	1,100	30.00	\$329	\$0	\$1,508	0.12075	22%	5.74	4.490352113	2,175	\$0.151	\$0,008	1,88	0.00		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	0	2,695	\$329	\$1,508	0	5,390	\$657	\$3,016	CO-Res_Heating_Elec
Attic Insulation in Electrically Heated and Cooled Home	Existing Home with Attic Insulation added to achieve R-34	466	1,242	Existing Home with no attic insulation and average heating efficiency of 1.0 COP and cooling efficiency of 0.9 COP	2,343	1,242	30.00	\$400	\$0	\$1,508	0.12075	27%	5.38	3.94	2,330	\$0.172	\$0,009	1,88	0.02		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	1	2,887	\$400	\$1,508	1	5,774	\$800	\$3,016	CO-Res_Cooling_DX_Heating_Elec
Attic Insulation in Natural Gas Heater and Electrically Cooled Home	Existing Home with Attic Insulation added to achieve R-34	117	925	Existing Home with no attic insulation and average heating efficiency of 1.0 COP	589	925	30.00	\$229	\$0	\$760	0.12075	29%	41.87	29.84	155	\$1,476	\$0,074	0,47	0.52		\$0.00	\$0.00	100%	130	215	113	215	116%	100%	100%	129	41,342	\$49,254	\$168,690	129	41,342	\$49,254	\$168,690	CO-Res_Cooling_DX
Fair 2 Air Sealing & Bypass Sealing for minimum 20% ACH Reduction in Electrically Heated and non-cooled Home	Home with Fair 2 Air Sealing CFM50 reading of 2,234	4,264	1,100	Baseline Home with CFM50 rating of 2,234	6,134	1,100	30.00	\$247	\$0	\$960	0.12075	26%	2.00	1.00	3,058	\$0.081	\$0,008	2,64	0.00		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	0	3,769	\$247	\$960	0	7,578	\$484	\$1,020	CO-Res_Heating_Elec
Fair 2 Air Sealing & Bypass Sealing for minimum 20% ACH Reduction in Electrically Heated and Cooled Home	Home with Fair 2 Air Sealing CFM50 reading of 2,234	4,264	1,242	Baseline Home with CFM50 rating of 2,234	6,134	1,242	30.00	\$310	\$0	\$960	0.12075	32%	2.52	1.21	3,150	\$0.098	\$0,010	2,64	0.31		\$0.00	\$0.00	71%	1	1	1	2	116%	100%	100%	0	5,903	\$310	\$960	1	7,898	\$620	\$1,020	CO-Res_Cooling_DX_Heating_Elec
Fair 2 Air Sealing & Bypass Sealing for minimum 20% ACH Reduction in Natural Gas Heater and Electrically Cooled Home	Home with Fair 2 Air Sealing CFM50 reading of 2,234	122	925	Baseline Home with CFM50 rating of 2,234	1,001	925	30.00	\$42	\$0	\$436	0.12075	10%	38.31	38.58	92	\$0,483	\$0,045	0,28	0.31		\$0.00	\$0.00	100%	78	130	69	130	116%	100%	100%	46	14,784	\$5,401	\$56,834	46	14,784	\$5,401	\$56,834	CO-Res_Cooling_DX
Fair 3 Air Sealing & Bypass Sealing for minimum 30% ACH Reduction in Electrically Heated and non-cooled Home	Home with Fair 3 Air Sealing CFM50 reading of 2,070	6,186	1,100	Baseline Home with CFM50 rating of 2,070	10,841	1,100	30.00	\$92	\$0	\$965	0.12075	10%	1.47	1.33	5,392	\$0.017	\$0,002	4,65	0.00		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	0	6,681	\$92	\$965	0	13,362	\$183	\$1,010	CO-Res_Heating_Elec
Fair 3 Air Sealing & Bypass Sealing for minimum 30% ACH Reduction in Electrically Heated and Cooled Home	Home with Fair 3 Air Sealing CFM50 reading of 2,070	6,186	1,242	Baseline Home with CFM50 rating of 2,070	10,841	1,242	30.00	\$400	\$0	\$965	0.12075	42%	1.43	0.83	5,550	\$0.072	\$0,007	4,65	0.53		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	1	6,877	\$400	\$965	1	13,753	\$900	\$1,010	CO-Res_Cooling_DX_Heating_Elec
Fair 3 Air Sealing & Bypass Sealing for minimum 30% ACH Reduction in Natural Gas Heater and Electrically Cooled Home	Home with Fair 3 Air Sealing CFM50 reading of 2,070	428	925	Baseline Home with CFM50 rating of 2,070	1,171	925	30.00	\$99	\$0	\$436	0.12075	23%	22.88	17.70	198	\$0,625	\$0,062	0,48	0.53		\$0.00	\$0.00	100%	78	130	69	130	116%	100%	100%	80	26,407	\$12,807	\$66,841	80	26,407	\$12,807	\$66,841	CO-Res_Cooling_DX
Fair Insulation from R-6 to R-11 in Electrically Heated and non-cooled Home	R-11 Insulation (w/old foam)	2,700	1,200	Energy Star Ceiling	6,000	1,200	30.00	\$364	\$0	\$1,000	0.12075	19%	3.08	2.46	2,238	\$0,060	\$0,003	4,38	1.02		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	1	6,430	\$364	\$1,000	1	6,430	\$364	\$1,000	CO-Res_Heating_Elec
Fair Insulation from R-6 to R-11 in Natural Gas Heated and Electrically Cooled Home	R-11 Insulation (w/old foam)	2,700	1,200	Energy Star Ceiling	6,000	1,200	30.00	\$364	\$0	\$1,000	0.12075	19%	3.08	2.46	2,238	\$0,060	\$0,003	4,38	1.02		\$0.00	\$0.00	0%	1	1	1	2	116%	100%	100%	1	6,430	\$364	\$1,000	1	6,430	\$364	\$1,000	CO-Res_Heating_Elec
EC Fan Motor on new Residential Furnace with AC	EC Fan Motor on new Residential Furnace with AC	448	4,100	EC Fan Motor on new Residential Furnace with AC	448	4,100	30.00	\$125	\$100	\$125	0.12075	53%	2.73	1.20	809	\$0,150	\$0,009	0,78	0,17		\$11.78	\$0.00	0%	2	3	0	0	116%	100%	100%	1	3,027	\$275	\$705	0	0	\$0	\$0	CO-Res_Heating_Elec
EC Fan Motor on new Residential Furnace w/o AC	EC Fan Motor on new Residential Furnace w/o AC	448	4,100	EC Fan Motor on new Residential Furnace w/o AC	448	4,100	30.00	\$125	\$100	\$125	0.12075	53%	2.73	1.20	809	\$0,150	\$0,009	0,78	0,17		\$11.78	\$0.00	0%	2	3	0	0	116%	100%	100%	1	3,027	\$275	\$705	0	0	\$0	\$0	CO-Res_Heating_Elec
Energy Star Clothes Washer - Combo Customers of Electric Dish	Energy Star Clothes Washer	117	291	Baseline Clothes Washer	497	291	30.00	\$40	\$0	\$36	0.12075	100%	1.00	1.00	39	\$0,060	\$0,066	0,11	0,00		\$0.00	\$0.00	0%	1	1	1	1	116%	100%	100%	0	39	\$30	\$30	0	39	\$30	\$30	CO-Res_Heating_Elec
Energy Star Clothes Washer - Combo Customers of Gas Dish	Energy Star Clothes Washer	117	291	Baseline Clothes Washer	497	291	30.00	\$40	\$0	\$36	0.12075	100%	1.00	1.00	39	\$0,060	\$0,066	0,11	0,00		\$0.00	\$0.00	0%	1	1	1	1	116%	100%	100%	0	39	\$30	\$30	0	39	\$30	\$30	CO-Res_Heating_Elec
Medium Draw Heat Pump Water Heater - Refrigerant Based Cooling & Electric Resistance Heat (20-50 Gallons)	High Efficiency Heat Pump Water Heater	6,039	387	Baseline Electric Resistance Water Heater	4,949	387	30.00	\$600	\$600	\$611	0.12075	62%	1.86	0.84	2,721	\$0,184	\$0,016	0,28	0.83		\$0.00	\$0.00	100%	1	1	3	6	116%	100%	100%	1	5,371	\$600	\$611	4	20,226	\$3,000	\$3,699	CO-Res_Heating_Elec
Medium Draw Heat Pump Water Heater - Refrigerant Based Cooling & ASHP Heat (20-50 Gallons)	High Efficiency Heat Pump Water Heater	6,039	405	Baseline Electric Resistance Water Heater	4,949	405	30.00	\$600	\$600	\$611	0.12075	82%	1.46	0.98	3,834	\$0,147	\$0,012	0,87	0,82		\$0.00	\$0.00	100%	0	0	2	3	116%	100%	100%	0	0	\$0	\$0	2	13,139	\$1,800	\$1,834	CO-Res_Heating_Elec
Medium Draw Heat Pump Water Heater - Refrigerant Based Cooling & Natural Gas Heat (20-50 Gallons)	High Efficiency Heat Pump Water Heater	6,039	405	Baseline Electric Resistance Water Heater	4,949	405	30.00	\$600	\$600	\$611	0.12075	82%	1.50	0.94	4,240	\$0,116	\$0,016	0,87	0,82		\$49.44	\$0.00	100%	0	0	0	0	116%	100%	100%	0	0	\$0	\$0	1	5,253	\$600	\$611	CO-Res_Heating_Elec
High Efficiency AC with GI	Transcend AC Conditioner - Qualifying Efficiency - GI (Nominal 14.5 SEER & 1.0 EER)	2,453	646	Non-Qualifying Replacement of 3 Ton 12 SEER AC	3,108	741	30.00	\$600	\$0	\$167	0.12075	76%	3.16	2.19	711	\$0,844	\$0,047	0,85	0,65		\$0.00	\$0.00	0%	2	3	2	3	116%	100%	100%	2	2,644	\$1,800	\$2,361	2	2,644	\$1,800	\$2,361	CO-Res_Cooling_DX
Standard Efficiency AC with GI	Transcend AC Conditioner - Qualifying Efficiency - GI (Nominal 14.5 SEER & 1.0 EER)	2,453	646	Non-Qualifying Replacement of 3 Ton 12 SEER AC	3,108	741	30.00	\$490	\$0	\$167	0.12075	240%	2.65	14.03	479	\$0,838	\$0,046	0,34	0,34		\$0.00	\$0.00	0%	0	0	0	0	116%	100%	100%	0	0	\$0	\$0	0	0	\$0	\$0	CO-Res_Cooling_DX
Installation of Qualifying Efficiency GSHP equipment with GI - New Home, ASHP Heating & Cooling Baseline - High Efficiency GSHP with GI	Residential Closed Loop GSHP - GI (Nominal 14.5 SEER Cooling & 3.5 COP Heating & 36000 BTU/hr)	2,200	1,344	Baseline AC Electric Heat Pump - Non-Qualifying Efficiency w/o GI	2,960	1,344	30.00	\$1,200	\$0	\$1,400	0.12075	49%	13.48	8.88	1,490	\$0,801	\$0,040	1,60	0,88		\$0.00	\$0.00	0%	0	0	0	0	116%	100%	100%	0	0	\$0	\$0	0	0	\$0	\$0	CO-Res_Cooling_DX_Heating_Elec
Installation of Qualifying Efficiency GSHP equipment with GI - Existing Home & Electric Heating & AC Cooling Baseline - High Efficiency GSHP with GI	Residential Closed Loop GSHP - GI (Nominal 14.5 SEER Cooling & 3.5 COP Heating & 36000 BTU/hr)	2,200	1,344	Baseline AC Electric Heat Pump - Non-Qualifying Efficiency w/o GI	2,960	1,344	30.00	\$1,200	\$0	\$1,400	0.12075	49%	0.99	0.46	22,469	\$0,093	\$0,003	10,18	0,88		\$0.00	\$0.00	0%	1	1	1	1	116%	100%	100%	1	27,841	\$1,200	\$2,463	1	27,841	\$1,200	\$2,463	CO-Res_Cooling_DX_Heating_Elec
Standard evaporative cooler - replacement	3 Ton Evaporative Cooler	980	916	3 Ton Evaporative Cooler	3,300	916	30.00	\$125.00	\$1,810.00	\$2,943.26	0.12075	-4%	(18.84)	(17.86)	1,603	\$0,078	\$0,005	2,92	2,25		\$19.90	\$0.00	70%	1	1	1	2	116%	100%	100%	3	1,988	\$125	\$2,943	5	3,973	\$250	\$5,887	CO-Res_Cooling_DX
Standard evaporative cooler - non-replacement	3 Ton Evaporative Cooler	980	916	3 Ton Evaporative Cooler	3,300	916	30.00	\$275.00	\$1,810.00	\$2,943.26	0.12075	-9%	(18.84)	(18.83)	1,603	\$0,172	\$0,011	2,92	2,25		\$19.90	\$0.00	70%	0	0	1	1	116%	100%	100%	0	0	\$0	\$0	3	1,988	\$275	\$2,943	CO-Res_Cooling_DX
Premium evaporative cooler - replacement	High Efficiency Evaporative Cooler 3 Tons	980	916	High Efficiency Evaporative Cooler 3 Tons	3,300	916	30.00	\$625.00	\$1,810.00	\$1,022.28	0.12075	-61%	(8.57)	(8.57)	1,603	\$0,327	\$0,025	2,92	2,25		\$83.32	\$0.00	70%	1	1	1	2	116%	100%	100%	3	1,988	\$625	\$1,022	5	3,973	\$1,050	\$2,065	CO-Res_Cooling_DX
Premium evaporative cooler - non-replacement	High Efficiency Evaporative Cooler 3 Tons	980	916	High Efficiency Evaporative Cooler 3 Tons	3,300	916	30.00	\$625.00	\$1,810.00	\$1,022.28	0.12075	-61%	(8.57)	(8.57)	1,603	\$0,390	\$0,025	2,92	2,25		\$83.32	\$0.00	70%	0	0	1	1	116%	100%	100%	0	0	\$0	\$0	3	1,988	\$625	\$1,022	CO-Res_Cooling_DX
Multi-ducted premium evaporative cooler - replacement	High Efficiency Evaporative Cooler 3 Tons	148	916	High Efficiency Evaporative Cooler 3 Tons	3,300	916	30.00	\$625.00	\$1,810.00	\$210.98	0.12075	298%	1.20	0.58	1,403	\$0,446	\$0,026	2,56	1,97		\$83.32	\$0.00	70%	1	1	0	0	116%	100%	100%	2	1,738	\$625	\$210	0	0	\$0	\$0	CO-Res_Cooling_DX
Multi-ducted premium evaporative cooler - non-replacement	High Efficiency Evaporative Cooler 3 Tons	148	916	High Efficiency Evaporative Cooler 3 Tons	3,300	916	30.00	\$1,200.00	\$1,810.00	\$210.98	0.12075	671%	1.30	(8.15)	1,403	\$0,885	\$0,087	2,56	1,97		\$83.32	\$0.00	70%	0	0</														