

Measure Description		Electric Product Detailed Technical Assumptions											Economic Assumptions							Program Forecast Inputs				Program Forecast Outputs				Measure Load Steps										
Electric Measure Group	Electric Measure Description	High Efficiency Product Assumptions			Baseline Product Assumptions			Measure Lifetime (Years)	Relative Burden (%)	Average Annual Product Cost (\$)	Incremental Cost of Efficient Product (\$)	Assumed Energy Cost (\$/kWh)	Relative Risk as % of Incremental Cost (%)	Incremental Cost Payback Period (Years)	Incremental Cost Payback Period of Return (Years)	Detailed Product Assumptions				Economic Assumptions				Program Forecast Inputs					Program Forecast Outputs									
		Efficient Product Description / Rating	Efficient Product Consumption (kWh/yr)	Efficient Hours of Operation (Hours)	Baseline Product Description / Rating	Baseline Product Consumption (kWh/yr)	Baseline Hours of Operation (Hours)									Annual Estimated kWh Savings (kWh/yr)	Relative Cost/ kW (\$/kW)	Relative Lifetime Cost (kW/yr)	Generator Peak kW Savings (kW)	Non-Energy O&M Savings (\$)	Energy O&M Savings (\$)	Calculation Factor (%)	2019 Participants (n)	2019 Units (n)	2020 Participants (n)	2020 Units (n)	NTS (%)		Installation Rate (%)	Reduction Rate (%)	2019 NET Gen kW (MW)	2019 NET Gen kWh (MWh)	2019 Global Budget (\$)	2019 Incremental Costs (\$)	2020 NET Gen kW (MW)	2020 NET Gen kWh (MWh)	2020 Global Budget (\$)	2020 Incremental Costs (\$)
TOTAL																																						
Attic Insulation	Attic Insulation in Electrically Heated and non-cooled Home	Existing Home with R-19 insulation and no attic fan	140	1,100	Existing Home with R-30 insulation and no attic fan	2,300	1,100	20,000	\$0.75	\$0	\$1,000	0.1000	20%	2.14	4.2(1)0.5(1)	2,175	\$0.171	\$0.039	1.88	0.00	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	0	2,080	\$0.75	\$1,000	0	2,300	\$0.75	\$0.00
Attic Insulation	Attic Insulation in Electrically Heated and Cooled Home	Existing Home with R-19 insulation and no attic fan	140	1,100	Existing Home with R-30 insulation and no attic fan	2,300	1,100	20,000	\$0.84	\$0	\$1,000	0.1000	30%	5.38	3.29	2,300	\$0.201	\$0.013	1.88	0.52	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	1	2,887	\$0.84	\$1,000	1	5,774	\$1,168	\$0.00
Attic Insulation	Attic Insulation in Natural Gas Heated and Electrically Cooled Home	Existing Home with R-19 insulation and no attic fan	117	500	Existing Home with R-30 insulation and no attic fan	588	500	30,000	\$2.09	\$0	\$500	0.1000	20%	41.87	28.84	105	\$1,476	\$0.074	0.47	0.52	\$0.00	\$0.00	100%	131	215	115	215	100%	100%	100%	128	41,342	\$48,254	\$168,880	128	41,342	\$48,254	\$168,880
Air Sealing & Weather-striping T2	Top 2 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Electric Heated and non-cooled Home	Home with Top 2 Air Sealing & Bypass Sealing	3,500	1,700	Home with Top 2 Air Sealing & Bypass Sealing	5,100	1,700	10,000	\$500	\$0	\$500	0.1000	41%	3.00	1.84	3,000	\$0.138	\$0.013	2.64	0.00	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	0	3,789	\$500	\$500	0	7,578	\$0.00	\$0.00
Air Sealing & Weather-striping T2	Top 2 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Electrically Heated and Cooled Home	Home with Top 2 Air Sealing & Bypass Sealing	3,500	1,700	Home with Top 2 Air Sealing & Bypass Sealing	5,100	1,700	10,000	\$430	\$0	\$500	0.1000	40%	3.00	1.98	3,100	\$0.138	\$0.014	2.64	0.31	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	0	3,900	\$430	\$500	1	7,800	\$0.00	\$0.00
Air Sealing & Weather-striping T2	Top 2 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Natural Gas Heated and Electrically Cooled Home	Home with Top 2 Air Sealing & Bypass Sealing	120	500	Home with Top 2 Air Sealing & Bypass Sealing	1,000	500	10,000	\$40	\$0	\$400	0.1000	10%	30.33	38.56	30	\$0.403	\$0.046	0.28	0.31	\$0.00	\$0.00	100%	79	130	69	130	100%	100%	100%	40	14,784	\$0.403	\$500.00	40	14,784	\$0.403	\$500.00
Air Sealing & Weather-striping T3	Top 3 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Electrically Heated and non-cooled Home	Home with Top 3 Air Sealing & Bypass Sealing	6,100	1,100	Home with Top 3 Air Sealing & Bypass Sealing	10,841	1,100	10,000	\$850	\$0	\$850	0.1000	10%	1.47	1.33	5,300	\$0.017	\$0.002	4.65	0.00	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	0	6,681	\$850	\$850	0	13,362	\$0.00	\$0.00
Air Sealing & Weather-striping T3	Top 3 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Electrically Heated and Cooled Home	Home with Top 3 Air Sealing & Bypass Sealing	6,100	1,100	Home with Top 3 Air Sealing & Bypass Sealing	10,841	1,100	10,000	\$550	\$0	\$550	0.1000	10%	1.42	1.00	5,500	\$0.009	\$0.010	4.65	0.00	\$0.00	\$0.00	100%	1	1	1	2	100%	100%	100%	1	6,877	\$550	\$550	1	13,754	\$1,100	\$1,100
Air Sealing & Weather-striping T3	Top 3 Air Sealing & Bypass Sealing for minimum 30% ACH50 Reduction in Natural Gas Heated and Electrically Cooled Home	Home with Top 3 Air Sealing & Bypass Sealing	626	500	Home with Top 3 Air Sealing & Bypass Sealing	1,117	500	10,000	\$107	\$0	\$200	0.1000	30%	32.88	14.02	158	\$0.586	\$0.140	0.48	0.53	\$0.00	\$0.00	100%	79	130	69	130	100%	100%	100%	80	26,447	\$107.00	\$200.00	80	26,447	\$107.00	\$200.00
Wall Insulation	Wall Insulation from R-0 to R-11 in Electric Heated and non-cooled Home	R-11 Insulation in wall	1,000	1,000	R-0 Insulation in wall	4,000	1,000	10,000	\$600	\$0	\$1,000	0.1000	20%	1.92	1.92	4,000	\$0.106	\$0.005	3.07	0.00	\$0.00	\$0.00	100%	1	1	1	1	100%	100%	100%	0	5,000	\$600	\$1,000	0	5,000	\$0.00	\$0.00
Wall Insulation	Wall Insulation from R-0 to R-11 in Electric Heated and Cooled Home	R-11 Insulation in wall	1,000	1,000	R-0 Insulation in wall	4,000	1,000	10,000	\$270	\$0	\$1,000	0.1000	20%	1.06	2.46	5,208	\$0.074	\$0.004	4.26	1.02	\$0.00	\$0.00	100%	1	1	1	1	100%	100%	100%	1	6,400	\$270	\$1,000	1	6,400	\$270	\$1,000
Wall Insulation	Wall Insulation from R-0 to R-11 in Natural Gas Heated and Electrically Cooled Home	R-11 Insulation in wall	500	500	R-0 Insulation in wall	2,000	500	10,000	\$200	\$0	\$1,000	0.1000	20%	27.02	21.28	354	\$0.501	\$0.028	0.50	1.02	\$0.00	\$0.00	100%	61	100	61	100	100%	100%	100%	118	37,042	\$200.00	\$1,000.00	118	37,042	\$200.00	\$1,000.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$120	\$0	\$120	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.10	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$120	\$120	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$80	\$0	\$80	0.1000	30%	1.12	1.12	499	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$80	\$80	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2	2	100%	100%	100%	0	2,027	\$100	\$100	0	2,027	\$0.00	\$0.00
Water Heating	Electric Water Heater (EWH) with Energy Star	Energy Star EWH	500	1,200	Standard EWH	2,200	1,200	10,000	\$100	\$0	\$100	0.1000	30%	1.12	1.12	500	\$0.155	\$0.028	0.21	0.07	\$0.00	\$0.00	100%	2	2	2												