

Measure Description		Electric Product Detailed Technical Assumptions																		Program Forecast Inputs										Program Forecast Outputs									
		High Efficiency Product Assumptions				Baseline Product Assumptions				Economic Assumptions				Bipartized Output										2017			2018			2017			2018						
Electric Measure Group		Efficient Product Description / Rating	Efficient Product Consumption (kWh/yr)	Efficient Hours of Operation (hr/yr)	Baseline Product Description / Rating	Baseline Product Consumption (kWh/yr)	Baseline Hours of Operation (hr/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 (%)	Increment's Cost Payback Period w/ Rebate (yrs)	Increment's Cost Payback Period w/ Rebate (yrs)	Annual Customer kWh Savings (kWh/yr)	Rebated Cost / Cost kWh Saved (\$/kWh)	Rebated Lifetime Cost /Cost kWh Saved (\$/kWh)	Customer kWh Savings (kWh)	Generator Peak kW Savings (kW)	Non-Energy O&M Savings (\$)	Energy O&M Savings (\$)	Coincidence Factor (%)	2017 Participants (1)	2017 Units (-)	2018 Participants (1)	2018 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2017 NET Gen kW (kW)	2017 NET Gen kWh (kWh)	2017 Rebate Budget (\$)	2017 Incremental Costs (\$)	2018 NET Gen kW (kW)	2018 NET Gen kWh (kWh)	2018 Rebate Budget (\$)	2018 Incremental Costs (\$)	
TOTAL																																							
Installation of new AC 2.5 Ton 15 SEER		Installation of High Efficiency AC equipment New Home	Non-Quality Installation of new AC 2.5 Ton 15 SEER	2,430	611	Non-Quality Installation of 2.5 Ton 15 SEER AC	2,983	536	15.00	\$350	\$1,067	\$461	0.10440	78%	23.00	5.522984153	192	\$1,824	\$0.122	0.24	0.24	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	0	421	\$1,050	\$1,382	0	421	\$1,050	\$1,382
Installation of new AC 2.5 Ton 16 SEER		Installation of High Efficiency AC equipment New Home	Non-Quality Installation of new AC 2.5 Ton 16 SEER	2,344	493	Non-Quality Installation of 2.5 Ton 16 SEER AC	2,983	536	15.00	\$500	\$1,067	\$567	0.10440	72%	24.53	6.78	270	\$1,853	\$0.124	0.34	0.33	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	1	593	\$1,500	\$2,073	1	593	\$1,500	\$2,073
Installation of new AC 2.5 Ton 17 SEER		Installation of High Efficiency AC equipment New Home	Non-Quality Installation of new AC 2.5 Ton 17 SEER	2,260	460	Non-Quality Installation of 2.5 Ton 17 SEER AC	2,983	536	15.00	\$650	\$1,067	\$821	0.10440	71%	26.06	7.67	339	\$1,920	\$0.128	0.42	0.41	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	1	744	\$1,900	\$2,764	1	744	\$1,900	\$2,764
Provide Quality Installation of new AC 2.5 Ton 13 SEER 14.50 SEER		Provide Quality Installation of AC Unit New Home	Provide Quality Installation of new AC 2.5 Ton 13 SEER 14.50 SEER	2,593	460	Non-Quality Installation of 2.5 Ton 13 SEER AC	2,983	536	15.00	\$0	\$0	\$117	0.10440	0%	8.65	8.65	130	\$0.000	\$0.000	0.00	0.00	\$0.00	\$0.00	90%	1	1	1	1	68%	100%	100%	0	95	\$0	\$317	0	95	\$0	\$317
Provide Quality Installation of new AC 2.5 Ton 16 SEER		Provide Quality Installation of AC Unit New Home	Provide Quality Installation of new AC 2.5 Ton 16 SEER	2,430	493	Non-Quality Installation of 2.5 Ton 16 SEER AC	2,430	511	15.00	\$0	\$0	\$117	0.10440	0%	9.98	9.98	112	\$0.000	\$0.000	0.00	0.00	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	0	247	\$0	\$351	0	247	\$0	\$351
Provide Quality Installation of new AC 2.5 Ton 18 SEER		Provide Quality Installation of AC Unit New Home	Provide Quality Installation of new AC 2.5 Ton 18 SEER	2,344	466	Non-Quality Installation of 2.5 Ton AC 18 SEER	2,344	496	15.00	\$0	\$0	\$117	0.10440	0%	10.65	10.65	106	\$0.000	\$0.000	0.00	0.00	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	0	231	\$0	\$351	0	231	\$0	\$351
Provide Quality Installation of new AC 3 Ton 15 SEER		Provide Quality Installation of AC Unit New Home	Provide Quality Installation of new AC 3 Ton 15 SEER	2,925	503	Non-Quality Installation of 3 Ton AC 15 SEER	3,276	525	15.00	\$0	\$0	\$117	0.10440	0%	11.31	11.31	99	\$0.000	\$0.000	0.00	0.00	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	0	218	\$0	\$351	0	218	\$0	\$351
Installation of new AC 3 Ton 16 SEER		Installation of High Efficiency AC equipment Existing Home	Non-Quality Installation of new AC 3 Ton 16 SEER	2,926	460	Non-Quality Installation of 3 Ton 16 SEER AC	3,276	525	15.00	\$350	\$1,269	\$551	0.10440	83%	23.07	8.46	230	\$1,525	\$0.102	0.30	0.30	\$0.00	\$0.00	90%	280	280	375	375	68%	100%	100%	56	47,060	\$98,000	\$154,770	75	63,027	\$131,250	\$207,281
Installation of new AC 3 Ton 17 SEER		Installation of High Efficiency AC equipment Existing Home	Non-Quality Installation of new AC 3 Ton 17 SEER	2,760	476	Non-Quality Installation of 3 Ton 17 SEER AC	3,276	525	15.00	\$500	\$1,269	\$769	0.10440	60%	24.61	9.77	323	\$1,549	\$0.103	0.42	0.41	\$0.00	\$0.00	90%	442	442	510	510	68%	100%	100%	123	104,467	\$221,000	\$366,480	142	120,539	\$255,000	\$422,861
Installation of new AC 3 Ton 18 SEER		Installation of High Efficiency AC equipment Existing Home	Non-Quality Installation of new AC 3 Ton 18 SEER	2,760	476	Non-Quality Installation of 3 Ton 18 SEER AC	3,276	525	15.00	\$650	\$1,269	\$1,136	0.10440	59%	26.15	10.77	405	\$1,605	\$0.107	0.52	0.51	\$0.00	\$0.00	90%	146	146	150	150	68%	100%	100%	50	43,303	\$84,000	\$161,407	52	44,490	\$87,500	\$165,830
Provide Quality Installation of new AC 3 Ton 13 SEER to 14.50 SEER		Provide Quality Installation of AC Unit Existing Home	Provide Quality Installation of new AC 3 Ton 13 SEER to 14.50 SEER	2,988	456	Non-Quality Installation of 3 Ton 13 SEER AC	3,276	525	15.00	\$0	\$0	\$146	0.10440	0%	3.49	3.49	401	\$0.000	\$0.000	0.38	0.37	\$0.00	\$0.00	90%	3	3	3	3	68%	100%	100%	1	881	\$0	\$438	1	881	\$0	\$438
Provide Quality Installation of new AC 3 Ton 16 SEER		Provide Quality Installation of AC Unit Existing Home	Provide Quality Installation of new AC 3 Ton 16 SEER	2,934	434	Non-Quality Installation of 3 Ton 16 SEER AC	3,276	502	15.00	\$0	\$0	\$104	0.10440	0%	2.88	2.88	348	\$0.000	\$0.000	0.34	0.33	\$0.00	\$0.00	90%	280	280	375	375	68%	100%	100%	63	71,255	\$0	\$29,246	84	95,431	\$0	\$39,169
Provide Quality Installation of new AC 3 Ton 18 SEER		Provide Quality Installation of AC Unit Existing Home	Provide Quality Installation of new AC 3 Ton 18 SEER	2,921	424	Non-Quality Installation of 3 Ton 18 SEER AC	3,276	490	15.00	\$0	\$0	\$77	0.10440	0%	2.28	2.28	326	\$0.000	\$0.000	0.32	0.32	\$0.00	\$0.00	90%	442	442	510	510	68%	100%	100%	95	105,451	\$0	\$33,950	109	121,675	\$0	\$39,174
Provide Quality Installation of new AC 3 Ton 17 SEER		Provide Quality Installation of AC Unit Existing Home	Provide Quality Installation of new AC 3 Ton 17 SEER	2,840	413	Non-Quality Installation of 3 Ton 17 SEER AC	3,276	479	15.00	\$0	\$0	\$43	0.10440	0%	1.54	1.54	357	\$0.000	\$0.000	0.31	0.30	\$0.00	\$0.00	90%	146	146	146	146	68%	100%	100%	30	32,763	\$0	\$7,179	30	32,763	\$0	\$7,179
Existing Home High Efficiency 14.5 SEER 3 Ton AC (Trade In)		Early Retirement Install High Efficiency AC	Quality Install Existing Home High Efficiency 14.5 SEER 3 Ton AC (Trade In)	2,980	440	3 Ton 15 SEER AC without Quality Installation	3,900	591	7.50	\$500	\$947	\$950	0.10440	80%	7.54	3.09	1,054	\$0.474	\$0.063	1.39	1.27	\$0.00	\$0.00	90%	303	303	368	368	68%	100%	100%	260	233,883	\$151,350	\$251,383	315	284,030	\$184,000	\$305,310
Existing Home High Efficiency 16 SEER 3 Ton AC (Trade In)		Early Retirement Install High Efficiency AC	Quality Install Existing Home High Efficiency 16 SEER 3 Ton AC (Trade In)	2,836	436	3 Ton 16 SEER AC without Quality Installation	3,900	591	7.50	\$650	\$947	\$1,076	0.10440	79%	8.45	2.69	1,093	\$0.777	\$0.104	1.36	1.32	\$0.00	\$0.00	90%	686	686	720	720	68%	100%	100%	614	546,292	\$558,100	\$739,762	644	576,516	\$612,000	\$776,426
Existing Home High Efficiency 18 SEER 3 Ton AC (Trade In)		Early Retirement Install High Efficiency AC	Quality Install Existing Home High Efficiency 18 SEER 3 Ton AC (Trade In)	2,831	424	3 Ton 17 SEER AC without Quality Installation	3,900	591	7.50	\$1,000	\$947	\$1,397	0.10440	75%	10.91	2.69	1,195	\$0.668	\$0.114	1.46	1.42	\$0.00	\$0.00	90%	1,440	1,440	1,440	1,440	68%	100%	100%	1,388	1,228,451	\$1,440,000	\$1,911,054	1,388	1,228,451	\$1,440,000	\$1,911,054
Existing Home High Efficiency 17 SEER 3 Ton AC (Trade In)		Early Retirement Install High Efficiency AC	Quality Install Existing Home High Efficiency 17 SEER 3 Ton AC (Trade In)	2,443	413	3 Ton 17 SEER AC without Quality Installation	3,900	591	7.50	\$1,150	\$947	\$1,576	0.10440	73%	12.26	3.32	1,228	\$0.936	\$0.125	1.65	1.61	\$0.00	\$0.00	90%	536	536	1,022	1,022	68%	100%	100%	547	482,026	\$616,400	\$844,697	1,043	919,088	\$1,175,300	\$1,610,541
WCCD		Enhanced Fan Time Delay for Retrofit	3-T, 11 SEER Non-QD Unit with Enhanced Fan/Smart Fan Time Delay	2,924	561	11 SEER QD Unit	3,680	561	7.50	\$35	\$0	\$100	0.10440	35%	13.06	8.49	73	\$0.477	\$0.064	0.13	0.13	\$0.00	\$0.00	90%	15	15	15	15	100%	100%	100%	2	1,192	\$525	\$1,500	2	1,192	\$525	\$1,500
Installation of 3.1 Ton capacity with 2.5 ton load - closed loop, 14.1 EER GSHP in new 2469 SF New Home		Install GSHP Cooling	Quality Installation of 3.1 Ton capacity GSHP closed loop, 14.1 EER with 3 ton load	2,126	460	Non-Quality Installation of 2.5 Ton 13 SEER AC without Non-QD	2,983	536	20.00	\$178	\$411	\$346	0.10440	51%	8.27	4.02	401	\$0.444	\$0.022	0.56	0.54	\$0.00	\$0.00	90%	7	7	7	7	100%	100%	100%	4	3,038	\$1,244	\$2,422	4	3,038	\$1,244	\$2,422
Installation of 4.7 Ton capacity closed loop, 14.1 EER GSHP with 3 ton load in existing 2206 SF Existing home		Install GSHP Cooling	Quality Installation of 4.7 Ton capacity GSHP closed loop, 14.1 EER with 3 ton load	2,933	352	Non-Quality Installation of 3 Ton 13 SEER AC without Non-QD	3,276	525	20.00	\$266	\$1,269	\$516	0.10440	51%	6.02	2.93	823	\$0.323	\$0.016	0.72	0.71	\$0.00	\$0.00	90%	4	4	4	4	100%	100%	100%	3	3,567	\$1,064	\$2,071	3	3,567	\$1,064	\$2,071
Installation of 3749 Btu/h heating capacity with 2.5 ton cooling load - closed loop, 14.1 EER GSHP in new 2469 SF New Home		Install GSHP Heating	Quality Installation of GSHP 3.2 COP 3749 Btu/h capacity	3,324	900	Non-Quality Installation of New Home ASHP 3.2 COP 3749 Btu/h capacity	4,564	1,006	20.00	\$758	\$1,360	\$1,475	0.10440	51%	8.36	4.07	1,690	\$0.448	\$0.022	1.24	0.00	\$0.00	\$0.00	0%	5	5	5	5	100%	100%	100%	0	9,156	\$3,789	\$7,377	0	9,156	\$3,789	\$7,377
Installation of 5600 Btu/h heating capacity closed loop, 14.1 EER GSHP with 3 ton cooling load in existing 2206 SF Existing home		Install GSHP Heating	Quality Installation of GSHP 3.2 COP 5600 Btu/h capacity	4,975	1,004	Non-Quality Installation of Existing Electric Resistance Heating	16,802	1,807	20.00	\$1,134	\$1,911	\$3,207	0.10440	51%	0.84	0.41	25,302	\$0.045	\$0.002	11.85	0.00	\$0.00	\$0.00	0%	2	2	2	2	100%	100%	100%	0	54,819	\$2,268	\$4,415	0	54,819	\$2,268	\$4,415
Ductless Mini Split Heat Pumps		Install Efficient Mini-Split	36000 Btu/h 11 SEER 2-40 SEER 12.0 EER	2,940	560	11 SEER 2-40 SEER 12.0 EER	3,680	560	15.00	\$200	\$0.500	\$0.500	0.10440	30%	9.10	5.78	576	\$0.346	\$0.019	0.65	0.64	\$0.00	\$0.00	90%	399	399	600	600	100%	100%	100%	214	249,603	\$79,736	\$218,724	322	375,493	\$120,000	\$339,172