

Measure Description		Electric Product Detailed Technical Assumptions										Program Forecast Inputs										Program Forecast Outputs										Measure Load Shape											
Electric Measure Group	Electric Measure Description	High Efficiency Product Assumptions		Baseline Product Assumptions			Economic Assumptions					Stipulated Output					Economic Assumptions					Technical Assumptions					2019						2020										
		Efficient Product Description / Rating	Efficient Product Consumption (kWh)	Efficient Hours of Operation (hr/yr)	Baseline Product Description / Rating	Baseline Product Consumption (kWh)	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 (%)	Incremental Cost Payback Period w/ Rebate (yrs)	Incremental Cost Payback Period w/ Rebate (yrs)	Annual Customer kWh Saved (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 DAM Savings (\$)	Energy DAM Savings (\$)	Coincidence Factor (%)	2019 Participants (€)	2019 Units (€)	2020 Participants (€)	2020 Units (€)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2019 NET Gen kW (kW)	2019 NET Gen kWh (kWh)	2019 Rebate Budget (\$)	2019 Incremental Costs (\$)	2020 NET Gen kW (kW)	2020 NET Gen kWh (kWh)	2020 Rebate Budget (\$)	2020 Incremental Costs (\$)					
TOTAL																																											
Installation of Non-Qualifying Efficiency AC equipment with GI Existing Home	Standard Efficiency AC with GI	Residential Air Conditioner - Non-Qualifying Efficiency - GI (Nominal 13.0 SEER & 2.04 Tons)	4200	900	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI	3,980	790	19.00	\$300	\$600	\$197.11	0.12075	191%	2.7	-2.47	480	\$0.626	\$0.030	0.348	0.348	\$0.00	\$0.00	10%	98	98	110	110	66%	100%	100%	22	33,276	\$28,830	\$15,038	28	38,089	\$33,000	\$17,282			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency AC equipment with GI - Existing Home	High Efficiency AC with GI	Residential Air Conditioner - Qualifying Efficiency - GI (Nominal 15.0 SEER & 2.12 Tons)	2242	642	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI	3,125	727	19.00	\$500	\$600	\$213.02	0.12075	55%	10.5	4.74	721	\$0.693	\$0.039	0.651	0.645	\$0.00	\$0.00	10%	292	292	430	430	66%	100%	100%	127	152,000	\$146,950	\$286,513	187	223,703	\$214,800	\$392,236			CO2-Red_Cooling_OX		
Installation of Non-Qualifying Efficiency AC equipment and associated Furnace with GI - Existing Home	Standard Efficiency AC with GI and associated furnace	Residential Air Conditioner - Non-Qualifying Efficiency - GI (Nominal 13.0 SEER & 2.04 Tons) & Furnace (Nominal 80% AFUE)	4200	900	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI & Furnace (Nominal 80% AFUE)	3,980	790	19.00	\$190	\$600	\$196.00	0.12075	178%	1.9	-1.47	478	\$0.403	\$0.022	0.343	0.340	\$0.00	\$0.00	10%	703	703	850	850	69%	100%	100%	161	242,836	\$139,632	\$76,091	191	286,677	\$160,118	\$89,828			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency AC equipment and associated furnace with GI - Existing Home	High Efficiency AC without GI and associated furnace	Residential Air Conditioner - Qualifying Efficiency - GI (Nominal 15.0 SEER & 2.12 Tons) & Furnace (Nominal 80% AFUE)	2242	642	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI & Furnace (Nominal 80% AFUE)	3,980	790	19.00	\$200	\$600	\$200.00	0.12075	31%	15.6	10.92	339	\$0.589	\$0.033	0.356	0.352	\$0.00	\$0.00	10%	2,042	2,042	2,530	2,530	69%	100%	100%	466	500,505	\$409,420	\$1,322,101	700	720,426	\$567,890	\$1,903,033			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency AC equipment and associated furnace with GI - Existing Home	Quality Install of High Efficiency AC with associated furnace with GI - Existing Home	Residential Air Conditioner - Qualifying Efficiency - GI (Nominal 15.0 SEER & 2.12 Tons) & Furnace (Nominal 80% AFUE)	2242	642	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI & Furnace (Nominal 80% AFUE)	3,980	790	19.00	\$180	\$600	\$180.00	0.12075	24%	1.7	-2.43	370	\$0.463	\$0.027	0.298	0.296	\$0.00	\$0.00	10%	2,042	2,042	2,330	2,330	69%	100%	100%	409	546,030	\$372,720	\$150,035	588	785,260	\$538,494	\$217,257			CO2-Red_Cooling_OX		
Installation of Non-Qualifying Efficiency AC equipment with GI New Home	Standard Efficiency AC with GI	Residential Air Conditioner - Non-Qualifying Efficiency - GI (Nominal 14.0 SEER & 2.1 Tons)	4200	976	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI	3,220	823	19.00	\$300	\$600	\$197.11	0.12075	191%	8.7	-7.81	150	\$2.004	\$0.111	0.800	0.800	\$0.00	\$0.00	10%	1	1	1	1	66%	100%	100%	0	108	\$300	\$157	0	108	\$300	\$157			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency AC equipment with GI - New Home	High Efficiency AC with GI	Residential Air Conditioner - Qualifying Efficiency - GI (Nominal 15.0 SEER & 2.1 Tons)	2300	531	Residential Air Conditioner - Non-Qualifying Efficiency w/ GI	3,150	812	19.00	\$500	\$600	\$1,090.40	0.12075	46%	20.2	10.88	447	\$1.120	\$0.062	0.352	0.348	\$0.00	\$0.00	10%	14	14	14	14	66%	100%	100%	3	4,514	\$7,000	\$15,215	3	4,514	\$7,000	\$15,215			CO2-Red_Cooling_OX		
Mini Split Heat Pumps	High Efficiency Mini-Split Heat Pump	Residential Mini-Split Heat Pump (Nominal 18.0 SEER & 2.00 Tons)	2242	1,214	Residential Mini-Split Heat Pump - Code Minimum	3,014	1,236	19.00	\$300	\$600	\$366.00	0.12075	32%	18.2	12.44	431	\$0.697	\$0.039	0.972	0.962	\$0.00	\$0.00	10%	632	632	1,046	1,046	100%	100%	100%	608	290,939	\$189,600	\$586,497	1,007	481,026	\$318,800	\$990,550			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency GSHP equipment with GI - New Home, GSHP Heating & Cooling Baseline	High Efficiency GSHP with GI	Residential Ground Loop GSHP - GI (Nominal 14.1 EER Cooling & 3.3 COP Heating & 3.000 BTU/hr)	4,283	1,444	Residential Air-Source Heat Pump - Non-Qualifying Efficiency w/ GI	5,882	1,308	30.00	\$1,200	\$600	\$2,439.56	0.12075	49%	13.5	6.85	1,409	\$0.801	\$0.040	1.599	0.660	\$0.00	\$0.00	10%	1	1	1	1	100%	100%	100%	1	1,601	\$1,200	\$2,440	1	1,601	\$1,200	\$2,440			CO2-Red_Cooling_OX		
Installation of Qualifying Efficiency GSHP equipment with GI - Existing Home & Electric Heating & AC Cooling Baseline	High Efficiency GSHP with GI	Residential Ground Loop GSHP - GI (Nominal 14.1 EER Cooling & 3.3 COP Heating & 3.000 BTU/hr)	4,283	1,687	Ducted Electric Resistance Heating w/ GI	14,450	3,221	30.00	\$1,200	\$600	\$2,453.44	0.12075	49%	0.9	0.46	22,460	\$0.053	\$0.003	10.157	0.847	\$0.00	\$0.00	6%	1	1	1	1	100%	100%	100%	1	24,061	\$1,200	\$2,453	1	24,061	\$1,200	\$2,453			CO2-Red_Cooling_OX		
Western Cooling Control Device (WCCD)	Enhanced Fan Time Delay for Retrofit	> 1.11 SEER Non-GI Unit with Enhanced Electronic Fan Time Delay	9	982	1.1 SEER GI Unit	130	982	7.50	\$35	\$600	\$160.00	0.12075	35%	11.3	7.37	73	\$0.479	\$0.064	0.130	0.129	\$0.00	\$0.00	10%	1	1	1	1	100%	100%	100%	0	78	\$35	\$100	0	78	\$35	\$100			CO2-Red_Cooling_OX		