	Electric Product Detailed Technical Assumptions High Efficiency Product Assumptions Baseline Product Assumptions Economic Assumptions Stipulated Output Economic Assumptions																Program F	orecast Inputs	ast Inputs Stipulated Forecas													
Measure Description	High Efficiency Produc		Baseline	Economic Assumptions					Stipulated Output							Economic	Assumptions	Technical Assumption	2017			2018				2017						
Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumption (watts)	Efficient Hour of Operation (hrs/yr)	S 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 Produc (\$)	Assumed Energ Cost (\$/kWh)	Rebate as a % of Incremental Cost (%)		Incremt'l Cost Payback Period w/ Rebate (yrs)	Annual Customer kWl Savings (kWh/yr)	h Rebated Cost / Cust kWh Saved (\$/kWh)	Rebated Lifetime cost /Cust KWh Saved (\$/kWh)	Customer kW Savings (kW)	Generator Peak kW Savings (kW)	Non-Energy O&M Savings (\$)	Energy O&M Savings (\$)	Coincidence Factor (%)	2017 Participants (-)	2017 Units (-)	2018 Participants (-)	2018 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2017 NET Gen kW (kW)	(kWh)	2017 Rebate Budget (\$)
Electric Heat Homes Without Cooling	Home with additional insulation	2,018	1,159	Home with R20 or less existing Insulation	4,296	1,159	20	\$355.79	\$0	\$1,232	0.12944	29%	3.61	2.56	2,640	\$0.135	\$0.007	2.28	0.00	\$0.00	\$0.00	0%	571 28	1,041 46	571 28	1,083 46	85%	100%	100%	0	423,507 111,835	\$175,144 \$16,366
Electric Heat Homes With Cooling	Home with additional insulation	1,269	1,488	Home with R20 or less existing Insulation	3,549	1,488	20	\$421.41	\$0	\$1,468	0.12944	29%	3.34	2.38	3,393	\$0.124	\$0.006	2.28	0.56	\$0.00	\$0.00	23%	5	8	5	8	85%	100%	100%	4	24,998	\$3,371
Gas Heat Homes With Cooling, Combo Customer	Home with additional insulation	480	329	Home with R20 or less existing Insulation	1,044	329	20	\$184.67	\$0	\$ 793	0.12944	23%	33.05	25.36	185	\$0.996	\$0.050	0.56	0.61	\$0.00	\$0.00	100%	243	447	243	467	85%	100%	100%	232	76,246	\$82,475
Electric Heat Homes Without Cooling	R-11 insulation	2,927	1,159	Baseline assumes R-0 in wall cavities as existing level	4,296	1,159	20	\$240.90	\$0	\$803	0.12944	30%	3.91	2.74	1,587	\$0.152	\$0.008	1.37	0.00	\$0.00	\$0.00	0%	1	2	1	2	85%	100%	100%	0	2,923	\$482
Electric Heat Homes With Cooling	R-11 insulation	2,524	1,488	Baseline assumes R-0 in wall cavities as existing level	3,549	1,488	20	\$385.00	\$0	\$1,337	0.12944	29%	6.77	4.82	1,525	\$0.252	\$0.013	1.03	0.35	\$0.00	\$0.00	32%	1	2	1	2	85%	100%	100%	1	2,809	\$770
Gas Heat Homes With Cooling, Combo Customer	R-11 insulation	369	329	Baseline assumes R-0 in wall cavities as existing level	1,044	329	20	\$167.40	\$0	\$677	0.12944	25%	23.56	17.74	222	\$0.754	\$0.038	0.68	0.73	\$0.00	\$0.00	100%	25	46	25	48	85%	100%	100%	29	9,447	\$7,734
Electric Heat Homes Without Cooling	Home with Tier 2 Air Sealing	6,071	1,159	Existing Home Without Air Sealing	t 8,000	1,159	10	\$275.31	\$0	\$686	0.12944	40%	2.37	1.42	2,235	\$0.123	\$0.012	1.93	0.00	\$0.00	\$0.00	0%	14	24	14	24	85%	100%	100%	0	49,396	\$6,608
Electric Heat Homes With Cooling	Home with Tier 2 Air Sealing	6,808	1,488	Existing Home Without Air Sealing	t 8,000	1,488	10	\$320.23	\$0	\$1,200	0.12944	27%	5.23	3.83	1,774	\$0.180	\$0.018	1.19	0.24	\$0.00	\$0.00	18%	2	4	2	4	85%	100%	100%	1	6,535	\$1,281
Gas Heat Homes With Cooling, Combo Customer	Home with Tier 2 Air Sealing	3,773	329	Existing Home Without Air Sealing	t 4,000	329	10	\$102.48	\$0	\$264	0.12944	39%	27.29	16.69	75	\$1.373	\$0.137	0.23	0.25	\$0.00	\$0.00	100%	135	249	135	260	85%	100%	100%	52	17,088	\$25,478
Electric Heat Homes Without Cooling	Home with Tier 3 Air Sealing	4,568	1,159	Existing Home Without Air Sealing	t 8,000	1,159	10	\$314.37	\$0	\$1,047	0.12944	30%	2.03	1.42	3,977	\$0.079	\$0.008	3.43	0.00	\$0.00	\$0.00	0%	11	19	11	19	85%	100%	100%	0	69,584	\$5,973
Electric Heat Homes With Cooling	Home with Tier 3 Air Sealing	1,889	1,488	Existing Home Without Air Sealing	t 8,000	1,488	10	\$212.00	\$0	\$353	0.12944	60%	0.30	0.12	9,093	\$0.023	\$0.002	6.11	0.90	\$0.00	\$0.00	14%	2	3	2	3	85%	100%	100%	2	25,119	\$636
Gas Heat Homes With Cooling, Combo Customer	Home with Tier 3 Air Sealing	3,525	329	Existing Home Without Air Sealing	t 4,000	329	10	\$125.24	\$0	\$307	0.12944	41%	15.17	8.98	156	\$0.802	\$0.080	0.47	0.51	\$0.00	\$0.00	100%	104	191	104	200	85%	100%	100%	84	27,527	\$23,971

	Gas Product Detailed Technical Assumptions															Program F	orecast Inputs		Sti	oulated Forecast	Inputs	Pro	gram Forecast O	utputs	Program Forecast Outputs					
Measure Description	High Efficiency Product A	Assumptions	Baseline Product Assu	Economic Assumptions					Stipulated Output						Economic Assumptions			017	2	018	Valid '	Throughout Filin	ng Period	2017			2018			
Natural Gas Measure Description	High Efficiency Product Description / Rating	High Efficiency Product Consumption (Dth/yr)	Baseline Product Description / Rating	Baseline Product Consumption (Dth/yr)	Life of Product (years)	Average Rebate Amount	Average Baseline Product Cost	Average Incremental Cost of Efficient Product	Assumed Energy Cost (\$/Dth)	Rebate as a % of Incrementa Cost	Incremt'l Cost Payback Period w/o Rebate		Average Annual Customer Dth Savings	Average rebated cost per Dth Saved	Average rebated Lifetime cost per Dth Saved	Non-Energy O&M Savings	Energy O&M Savings	M 2017 Participant:	s 2017 Units (-)	2018 Participant (-)	s 2018 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2017 NET Dth (Dth)	2017 Rebate Budget (\$)	2017 Incremental Cost (\$)	2018 NET Dth (Dth)	2018 Rebate Budget (\$)	2018 Incremental Cost (\$)
																		953	1,438	953	1,438				19,757	\$306,441	\$1,128,778	19,757	\$306,441	\$1,128,778
Gas Heat Homes Without Cooling	Home with additional insulation	12.4	Home with R20 or less existing Insulation	30.0	20	\$364.16	\$0	\$1,440.39	\$5.24	25%	15.6	11.6	17.64	\$20.64	\$1.03	\$0.00	\$0.00	168	253	168	253	85%	100%	100%	3,794	\$92,132	\$364,419	3,794	\$92,132	\$364,419
Gas Heat Homes With Cooling, Combo Customer	Home with additional insulation	12.8	Home with R20 or less existing Insulation	30.0	20	\$196.15	\$0	\$842.58	\$5.24	23%	9.4	7.2	17.18	\$11.42	\$0.57	\$0.00	\$0.00	269	406	269	406	85%	100%	100%	5,928	\$79,639	\$342,089	5,928	\$79,639	\$342,089
Gas Heat Homes With Cooling, Gas Only Customer	Home with additional insulation	6.2	Home with R20 or less existing Insulation	30.0	20	\$202.61	\$0	\$861.75	\$5.24	24%	6.9	5.3	23.80	\$8.51	\$0.43	\$0.00	\$0.00	30	46	30	46	85%	100%	100%	931	\$9,320	\$39,641	931	\$9,320	\$39,641
Gas Heat Homes Without Cooling	R-11 insulation	13.0	Baseline assumes R-0 in wall cavities as existing level	30.0	20	\$270.07	\$0	\$1,310.35	\$5.24	21%	14.7	11.6	17.05	\$15.84	\$0.79	\$0.00	\$0.00	18	27	18	27	85%	100%	100%	391	\$7,292	\$35,379	391	\$7,292	\$35,379
Gas Heat Homes With Cooling, Combo Customer	R-11 insulation	9.4	Baseline assumes R-0 in wall cavities as existing level	30.0	20	\$177.79	\$0	\$719.40	\$5.24	25%	6.7	5.0	20.57	\$8.64	\$0.43	\$0.00	\$0.00	28	42	28	42	85%	100%	100%	734	\$7,467	\$30,215	734	\$7,467	\$30,215
Gas Heat Homes With Cooling, Gas Only Customer	R-11 insulation	9.9	Baseline assumes R-0 in wall cavities as existing level	30.0	20	\$166.05	\$0	\$837.89	\$5.24	20%	7.9	6.4	20.13	\$8.25	\$0.41	\$0.00	\$0.00	1	2	1	2	85%	100%	100%	34	\$332	\$1,676	34	\$332	\$1,676
Gas Heat Homes Without Cooling	Home with Tier 2 Air Sealing	20.4	Existing Home Without Air Sealing	30.0	10	\$160.26	\$0	\$624.80	\$5.24	26%	12.4	9.2	9.62	\$16.65	\$1.67	\$0.00	\$0.00	83	125	83	125	85%	100%	100%	1,023	\$20,033	\$78,101	1,023	\$20,033	\$78,101
Gas Heat Homes With Cooling, Combo Customer	Home with Tier 2 Air Sealing	20.1	Existing Home Without Air Sealing	30.0	10	\$142.42	\$0	\$366.48	\$5.24	39%	7.1	4.3	9.86	\$14.44	\$1.44	\$0.00	\$0.00	150	226	150	226	85%	100%	100%	1,895	\$32,186	\$82,824	1,895	\$32,186	\$82,824
Gas Heat Homes With Cooling, Gas Only Customer	Home with Tier 2 Air Sealing	20.4	Existing Home Without Air Sealing	30.0	10	\$157.46	\$0	\$456.46	\$5.24	34%	9.1	5.9	9.59	\$16.41	\$1.64	\$0.00	\$0.00	16	24	16	24	85%	100%	100%	196	\$3,779	\$10,955	196	\$3,779	\$10,955
Gas Heat Homes Without Cooling	Home with Tier 3 Air Sealing	10.8	Existing Home Without Air Sealing	30.0	10	\$216.45	\$0	\$647.95	\$5.24	33%	6.5	4.3	19.17	\$11.29	\$1.13	\$0.00	\$0.00	62	94	62	94	85%	100%	100%	1,531	\$20,347	\$60,908	1,531	\$20,347	\$60,908
Gas Heat Homes With Cooling, Combo Customer	Home with Tier 3 Air Sealing	9.5	Existing Home Without Air Sealing	30.0	10	\$173.09	\$0	\$423.90	\$5.24	41%	3.9	2.3	20.53	\$8.43	\$0.84	\$0.00	\$0.00	115	174	115	174	85%	100%	100%	3,036	\$30,117	\$73,758	3,036	\$30,117	\$73,758
Gas Heat Homes With Cooling, Gas Only Customer	Home with Tier 3 Air Sealing	13.7	Existing Home Without Air Sealing	30.0	10	\$199.92	\$0	\$463.88	\$5.24	43%	5.4	3.1	16.35	\$12.23	\$1.22	\$0.00	\$0.00	13	19	13	19	85%	100%	100%	264	\$3,798	\$8,814	264	\$3,798	\$8,814