Electric Product Detailed Technical Assumptions																																					
Measure Description		High Efficiency Product Assumptions			Baseline Product Assumptions			Economic Assumptions					Stipulated Output								Economic Assumptions		Technical Assumption	Program Forecast Inputs				Stipulated Forecast Inputs			Program Forecast Outputs								
																								2019		2020					2019				2020				
Electric Product Measure	Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumption (watts)	Efficient Hours of Operation (hrs/yr)	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 Product ($)	Assumed Energy Cost ($/kWh)	Rebate as a % of Incremental Cost (%)	Increm'l Cost Payback Period w/o Rebate (yrs)	Increm'l Cost Payback Period w/ Rebate (yrs)	Annual Customer kWh Savings (kWh/yr)	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 (%)	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 ($)	2020 Incremental Costs ($)	Measure Load Shape
TOTAL																																					
LED Tubes (Linear Lamps)	LED Tubes (Linear Lamps)	LED Linear Tube	17	5,503	Fluorescent Lamp	31	5,503	12.05	$5.26	$2	$12	0.069	45%	2.30	1.25	76	$0.069	$0.006	0.01	0.01	$0.00	-$0.20	78%	1,125	760,132	1,189	888,555	92.0%	99%	100%	8,023	55,517,657	$3,994,509	$8,787,132	9,379	64,897,305	$4,669,377	$10,271,708	CO-BUS-Light Tube
LED Ref and Frz Cases 5' or 6' doors	LED Ref and Frz Cases 5' or 6' doors	LED Case Lighting	26	6,233	Fluorescent System	78	6,233	20.00	$45	$0	$164	0.065	27%	7.78	5.64	324	$0.139	$0.007	0.05	0.05	$0.00	$0.00	89.65%	11	106	11	106	74.0%	100%	100%	4	26,856	$4,770	$17,358	4	26,856	$4,770	$17,358	CO-BUS-Light Refrigerated
LED/LEC Exit Sign	LED/LEC Exit Sign	LED/LEC Exit Sign	2	8,760	Incandescent Exit Sign	37	8,760	20.00	$25	$0	$84	0.056	30%	5.17	3.63	304	$0.082	$0.004	0.03	0.04	$0.00	-$0.80	100%	69	1,033	69	1,033	74.0%	100%	100%	29	245,228	$25,825	$86,742	29	245,228	$25,825	$86,742	CO-BUS-Light Flat
LED PL/G Based Lamp	LED PL/G Based Lamp	LED Plug In Lamp	14	5,353	CFL Lamp	42	5,353	12.00	$8	$7	$12	0.070	71%	1.14	0.33	154	$0.055	$0.005	0.03	0.02	$0.00	-$0.41	74%	138	32,694	138	32,694	92.0%	99%	100%	682	4,832,044	$274,331	$386,116	682	4,832,044	$274,331	$386,116	CO-BUS-Light Troffer
LED Mogul-Base Lamps	LED High Bay Mogul-Base Lamps	LED Screw-Base Lamp	114	5,179	HID Lamp	342	5,179	9.60	$91	$29	$147	0.071	62%	1.80	0.68	1,186	$0.077	$0.008	0.23	0.19	$0.00	-$2.78	76%	42	1,158	42	1,158	92.0%	99%	100%	198	1,320,859	$105,765	$170,126	198	1,320,859	$105,765	$170,126	CO-BUS-Light High Bay
LED High Bay Fixture or Kit	LED High Bay Fixture or Kit	LED High Bay Fixture or Kit	150	5,946	HID or Fluorescent Fixture	348	5,946	20.00	$121	$0	$377	0.066	32%	5.00	3.39	1,179	$0.103	$0.005	0.20	0.18	$0.00	-$3.01	85%	308	10,336	653	24,453	74.0%	100%	100%	1,396	9,527,005	$1,254,865	$3,892,821	3,303	22,540,097	$2,968,906	$9,210,089	CO-BUS-Light High Bay
LED Interior Fixture	LED Interior Fixture	LED Downlight Fixture	16	4,663	Incandescent or CFL Fixture	95	4,663	20.00	$31	$0	$75	0.075	42%	2.80	1.83	369	$0.084	$0.004	0.08	0.06	$0.00	-$0.96	68.92%	166	21,200	330	42,196	74.0%	100%	100%	927	6,113,673	$659,916	$1,587,622	1,845	12,168,609	$1,313,492	$3,159,990	CO-BUS-Light Troffer
LED Troffer Fixture or Kit	LED Troffer Fixture or Kit	LED Troffer Fixture or Kit	36	4,936	Fluorescent Fixture	78	4,936	20.00	$34	$2	$160	0.073	19%	12.52	10.19	206	$0.164	$0.008	0.04	0.03	$0.00	-$0.54	75.22%	494	58,900	415	45,550	74.0%	100%	100%	1,435	9,178,944	$1,924,957	$10,336,512	1,149	7,347,995	$1,540,980	$8,274,660	CO-BUS-Light Troffer
LED Linear Ambient	LED Linear Ambient	LED Linear Ambient Fixture	70	5,292	Fluorescent Fixture	100	5,292	20.00	$36	$20	$560	0.070	15%	22.79	19.40	158	$0.230	$0.012	0.03	0.03	$0.00	-$0.39	60.35%	218	2,382	102	2,644	74.0%	100%	100%	46	293,288	$86,384	$580,552	51	325,547	$95,886	$644,408	CO-BUS-Light Troffer
Stairwell Fixture	Stairwell Fixture	LED Stairwell Lighting Fixture	28	8,760	Fluorescent Fixture	58	8,760	20.00	$40	$0	$277	0.056	14%	19.74	16.89	262	$0.153	$0.008	0.03	0.03	$0.00	-$0.67	100.00%	5	200	5	200	74.0%	100%	100%	5	40,982	$8,000	$55,450	5	40,982	$8,000	$55,450	CO-BUS-Light Flat
LED Parking Garage Lighting	LED Parking Garage Lighting	LED Parking Garage Fixture	57	8,760	HID Fixture	206	8,760	20.00	$124	$0	$319	0.056	39%	4.36	2.67	1,301	$0.095	$0.005	0.15	0.16	$0.00	$0.00	100.00%	15	1,390	18	1,666	74.0%	100%	100%	166	1,413,433	$171,913	$442,984	198	1,694,086	$206,048	$530,944	CO-BUS-Light Flat
LED Parking Garage Wall Pack	LED Parking Garage Wall Pack	LED Wall Pack Fixture	31	8,760	HID Wall Pack Fixture	156	8,760	20.00	$44	$0	$316	0.056	14%	5.15	4.44	1,094	$0.040	$0.002	0.12	0.14	$0.00	$0.00	100.00%	12	134	21	268	74.0%	100%	100%	13	114,610	$5,863	$42,382	27	229,220	$11,725	$84,764	CO-BUS-Light Flat
LED Area Lighting	LED Area Lighting	LED Fixture	171	4,511	HID Fixture	650	4,511	20.00	$93	$0	$683	0.077	14%	4.13	3.57	2,163	$0.043	$0.002	0.48	0.00	$0.00	$0.00	0.00%	296	5,579	138	2,500	74.0%	100%	100%	0	9,434,460	$517,374	$3,812,569	0	4,227,666	$231,840	$1,708,446	CO-BUS-RECM_OUT
LED Exterior Wall Pack	LED Exterior Wall Pack	LED Wall Pack Fixture	49	4,511	HID Wall Pack Fixture	252	4,511	20.00	$42	$0	$302	0.077	14%	4.29	3.69	919	$0.046	$0.002	0.20	0.00	$0.00	$0.00	0.00%	341	4,260	155	1,880	74.0%	100%	100%	0	3,059,413	$180,692	$1,286,129	0	1,350,163	$79,742	$567,588	CO-BUS-RECM_OUT
LED Outdoor Canopy Lighting	LED Outdoor Canopy Lighting	LED Canopy Fixture	79	4,511	HID Fixture	349	4,511	20.00	$46	$0	$294	0.077	16%	3.15	2.66	1,216	$0.038	$0.002	0.27	0.00	$0.00	$0.00	0.00%	68	912	34	455	74.0%	100%	100%	0	866,689	$41,977	$267,753	0	432,394	$20,943	$133,583	CO-BUS-RECM_OUT
LED Street Lighting	LED Street Lighting	LED Fixture	159	4,511	HID Fixture	353	4,511	20.00	$54	$0	$615	0.077	9%	9.19	8.38	874	$0.062	$0.003	0.19	0.00	$0.00	$0.00	0.00%	3	27	0	0	74.0%	100%	100%	0	18,439	$1,454	$16,596	0	0	$0	$0	CO-BUS-RECM_OUT
Networked Lighting Controls	Networked Lighting Controls	Networked Lighting Controls	33	4,543	Manual Switch	63	4,543	15.00	$25	$0	$99	0.076	25%	9.98	7.44	134	$0.187	$0.012	0.03	0.02	$0.00	-$0.34	74.00%	50	11,000	127	21,000	100.0%	100%	100%	261	1,560,120	$276,690	$1,086,174	498	2,978,410	$528,227	$2,073,604	CO-BUS-Light-Network-Controls
Standalone Controls	Standalone Controls	Sensor	156	4,543	Manual Switch	210	4,543	8.00	$13	$0	$129	0.076	10%	7.15	6.40	245	$0.055	$0.007	0.05	0.05	$0.00	-$0.64	77.54%	60	6,500	78	8,400	74.0%	100%	100%	218	1,243,930	$86,920	$837,185	281	1,607,541	$112,328	$1,081,901	CO-BUS-Light-Sensor
LED Ref and Frz Cases 5' or 6' doors	LED Ref and Frz Cases 5' or 6' doors	LED Strip Lighting	20	4,513	Fluorescent System	70	4,513	20.00	$35	$38	$125	0.077	28%	7.33	5.29	223	$0.157	$0.008	0.05	0.04	$0.00	$0.00	82.16%	2	15	2	15	74.0%	100%	100%	0	2,620	$525	$1,881	0	2,620	$525	$1,881	CO-BUS-Light Refrigerated
LED High Bay Fixture	LED High Bay Fixture	LED Fixture	174	5,313	HID Fixture	352	5,313	20.00	$131	$232	$257	0.070	51%	4.02	1.97	947	$0.139	$0.007	0.18	0.15	$0.00	-$2.45	80.04%	53	4,250	65	5,150	74.0%	100%	100%	486	3,144,832	$558,717	$1,094,037	589	3,810,797	$677,033	$1,325,716	CO-BUS-Light High Bay
LED Interior Fixture	LED Interior Fixture	LED Downlight Fixture	26	4,088	Incandescent Fixture	110	4,088	20.00	$30	$43	$102	0.081	30%	3.78	2.65	343	$0.088	$0.004	0.08	0.05	$0.00	-$0.88	60.39%	43	10,500	57	14,000	74.0%	100%	100%	427	2,815,172	$318,350	$1,065,860	569	3,753,563	$424,466	$1,421,147	CO-BUS-Light Troffer
LED Troffer Fixture	LED Troffer Fixture	LED Troffer Fixture	41	4,195	Fluorescent Fixture	79	4,195	20.00	$35	$47	$166	0.080	21%	13.60	10.73	158	$0.221	$0.011	0.04	0.03	$0.00	-$0.41	72.71%	102	5,108	102	5,108	74.0%	100%	100%	112	631,102	$178,598	$846,322	112	631,102	$178,598	$846,322	CO-BUS-Light Troffer
LED Parking Garage Lighting	LED Parking Garage Lighting	LED Parking Garage Fixture	35	8,760	HID Fixture	198	8,760	20.00	$26	$290	$48	0.056	54%	0.60	0.28	1,424	$0.018	$0.001	0.16	0.18	$0.00	$0.00	100.00%	2	19	2	19	74.0%	100%	100%	2	21,152	$495	$919	2	21,152	$495	$919	CO-BUS-Light Flat
LED Parking Garage Wall Pack	LED Parking Garage Wall Pack	LED Wall Pack Fixture	39	8,760	HID Wall Pack Fixture	189	8,760	20.00	$30	$269	$90	0.056	33%	1.22	0.81	1,314	$0.023	$0.001	0.15	0.16	$0.00	$0.00	100.00%	1	6	1	6	74.0%	100%	100%	1	6,163	$180	$538	1	6,163	$180	$538	CO-BUS-Light Flat
LED Area Lighting	LED Area Lighting	LED Fixture	209	4,511	HID Fixture	907	4,511	20.00	$76	$384	$459	0.077	17%	1.91	1.59	3,146	$0.024	$0.001	0.70	0.00	$0.00	$0.00	0.00%	30	591	19	342	74.0%	100%	100%	0	1,453,496	$45,007	$271,473	0	841,109	$26,045	$157,096	CO-BUS-RECM_OUT
LED Exterior Wall Pack	LED Exterior Wall Pack	LED Wall Pack Fixture	50	4,511	HID Wall Pack Fixture	222	4,511	20.00	$30	$257	$86	0.077	35%	1.45	0.94	778	$0.039	$0.002	0.17	0.00	$0.00	$0.00	0.00%	38	453	26	311	74.0%	100%	100%	0	275,633	$13,621	$39,099	0	189,232	$9,351	$26,842	CO-BUS-RECM_OUT
LED Outdoor Canopy Lighting	LED Outdoor Canopy Lighting	LED Canopy Fixture	67	4,511	HID Fixture	329	4,511	20.00	$24	$252	$93	0.077	25%	0.99	0.74	1,229	$0.019	$0.001	0.27	0.00	$0.00	$0.00	0.00%	4	34	4	34	74.0%	100%	100%	0	32,659	$805	$3,173	0	32,659	$805	$3,173	CO-BUS-RECM_OUT
LED Street Lighting	LED Street Lighting	LED Fixture	115	4,380	HID Fixture	287	4,380	20.00	$37	$225	$311	0.078	12%	5.30	4.67	754	$0.049	$0.002	0.17	0.00	$0.00	$0.00	0.00%	4	4	0	0	74.0%	100%	100%	0	2,359	$149	$1,245	0	0	$0	$0	CO-BUS-RECM_OUT
LED Midstream Interior Lamps	LED Midstream Interior Lamps	LED Lamp or Retrofit Kit	11	5,194	Halogen, Incandescent, or CFL	39	5,194	5.24	$7	$6	$11	0.071	70%	1.06	0.32	146	$0.051	$0.010	0.03	0.02	$0.00	-$0.36	74.67%	750	140,400	753	190,000	92.0%	99%	100%	2,903	19,687,455	$1,037,770	$1,483,489	3,929	26,642,567	$1,404,389	$2,007,571	CO-BUS-Light Screw In
Custom Lighting Project	Custom Lighting Project	High Efficiency Lighting	17,090	4,783	Existing Lower Efficiency Lighting	39,191	4,783	16.22	$8,298	$2,944	$29,208	0.074	28%	3.85	2.75	105,713	$0.078	$0.005	22.10	13.86	$0.00	-$247.03	57.90%	261	261	235	235	74.0%	100%	100%	2,678	21,567,359	$2,165,655	$7,623,379	2,411	19,418,886	$1,949,919	$6,863,962	CO-BUS-Light All