							Electric Product Detailed Technical Assumptions														Program Forecast Inputs					Stipulated Forecast Inputs			Program Forecast Outputs				
Measure Description	High Efficiency Product Assumptions			Baseline P	Product Assum	ptions	Economic Assumptions				Stipulated Output					Economic Assur	Economic Assumptions Technical Assumption		2017 2018							2018							
Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumpti on (watts)	Efficient Hours of Operation (hrs/yr)	Description /	Baseline Product Consumption n (watts)	Baseline Hours of Operation (hrs/yr) Measur Lifetim (years		Average Baseline Product Cost (\$)	Incremental Cost of Efficient Product (\$)	Assumed Energy Cost (\$/kWh)	Rebate as a % of Incremental Cost (%)	Incremt'l Cos Payback Perio w/o Rebate (yrs)		r kWh	/h Litetime C	customer kW Savings (kW)	Generator Peak kW Savings (kW)	k Non-Energy O&M Savings (\$)		pincidence Factor (%)	2017 Participants (-)	2017 Units (-)	2018 Participants (-)	2018 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2018 NET Gen kW (kW)	2018 NET Gen kWh (kWh)	2018 Rebate Budget (\$)	2018 Incremental Costs (\$)		
T8 to T8 Optimization	Fluorescent T8 Fixture with Less Lamps (3,2,1)	63	4,601	Fluorescent T8 Fixture with More Lamps (4,3,2)	114	4,601 20.00	\$12	\$0	\$43	0.068	28%	2.8	4 2.05 234	\$0.05	\$0.003	0.05	0.04	\$0.00	-\$0.60	77.72%	2	67	5,397 2	256,149 67	89%	100%	100%	7,377	46,221,381 14,917	\$5,678,407 \$804	\$15,452,936 \$2,894		
High Bay Fluorescent replacing HID	High Bay Flourescents With Electronic Ballasts	316	4,601	HID Fixture	549	4,601 20.00	\$49	\$0	\$221	0.068	22%	3.1	B 2.47 1,07	2 \$0.046	\$0.002	0.23	0.19	\$0.00	-\$2.75	77.72%	6	13	6	13	89%	100%	100%	2	13,261	\$640	\$2,879		
T8 Ballast, 2 ft to 4 ft., 1 and 2 Lamp / T8 Ballast, 2 ft to 4 ft., 3 and 4 Lamp CFL Pin Based	High Efficiency Ballast Pin-Based CFL	94 34	4,601 4,601	Standard Ballast Incandescent	98	4,601 20.00 4,601 20.00	\$2 \$3	\$18 \$0	\$3 \$11	0.068 0.068	50% 24%	2.6				0.00 0.07	0.00	\$0.00 \$0.00	-\$0.04 -\$0.80	77.72% 77.72%	46 15	700 300	46 15	700 300	89% 89%	100% 100%	100% 100%	2 15	11,535 89,304	\$1,050 \$800	\$2,100 \$3,371		
Occupancy Sensor - Photocell	Lighting Fixture with Photocell	172	4,601	Lighting Fixture wit Manual Switch	th 265	4,601 8.00	\$25	\$0	\$65	0.068	38%	2.3	3 1.43 429	\$0.050	\$0.007	0.09	0.08	\$0.00	-\$1.10	77.72%	4	4	4	4	89%	100%	100%	0	1,635	\$100	\$260		
Wall mount occupancy sensor - 50 Watts to 300 Watts Controlled Load	Lighting System with Occupancy Sensor	ey 88	4,601	Lighting Fixture wit Manual Switch	th 126	4,601 8.00	\$15	\$0	\$55	0.068	27%	4.8	7 3.54 174	\$0.086	\$0.011	0.04	0.03	\$0.00	-\$0.45	77.72%	57	57	57	57	89%	100%	100%	2	9,416	\$855	\$3,135		
Wall mount occupancy sensor - Greater than 300 Watts Controlled Load	Lighting System with Occupancy Sensor	^{Cy} 450	4,601	Lighting Fixture wit Manual Switch	th 643	4,601 8.00	\$25	\$0	\$55	0.068	45%	0.9	5 0.52 88	\$0.020	\$0.004	0.19	0.16	\$0.00	-\$2.28	77.72%	7	7	7	7	89%	100%	100%	1	5,913	\$175	\$385		
Ceiling mount occupancy sensor - 50 Watts to 300 Watts Controlled Load	Lighting System with Occupancy Sensor	ey 88	4,601	Lighting Fixture wit Manual Switch	th 126	4,601 8.00	\$30	\$0	\$125	0.068	24%	11.0	7 8.41 17-	\$0.17	\$0.022	0.04	0.03	\$0.00	-\$0.45	77.72%	18	18	18	18	89%	100%	100%	1	2,974	\$540	\$2,250		
Ceiling mount occupancy sensor - Greater than 300 Watts Controlled Load	Lighting System with Occupancy Sensor	450	4,601	Lighting Fixture wit Manual Switch	th 643	4,601 8.00	\$40	\$0	\$125	0.068	32%	2.1	7 1.47 88				0.16	\$0.00	,	77.72%	5	5	5	5	89%	100%	100%	1	4,224	\$200	\$625		
Stairwell Fixture with Integral Occupancy Sensor	Stairwell Fixture with Integral Occupancy Sensor Lighting System with Occupance	7	4,601	Stairwell Lighting Fixture	71	4,601 14.00	\$75	\$0	\$306	0.059	25%	18.3	+			_	0.05			77.72%	1	10	1	10	89%	100%	100%	0	2,808	\$750	\$3,060		
Integrated Occupancy Sensor	Sensor Lighting System with Integrated	38 d	8,102	Manual Switch	54	8,387 8.00	\$20	\$0	\$38	0.068	53%	3.8					0.02			89.79%	3	3	3	5	89%	100%	100%	0	695	\$100	\$188		
Integrated Photocell Integrated Occupancy & Photo Cell Sensor	Photocell Lighting System with Occupance	- 34 Cy 30	6,357 6,251	Manual Switch Lighting Fixture -	53	7,021 8.00 6,914 8.00	\$8 \$28	\$0 \$0	\$13 \$50	0.068	60% 56%	1.2			_	0.02	0.02			86.63% 86.08%	3	3	3	5	89%	100%	100%	0	732 473	\$38 \$84	\$63 \$150		
	& Photo Sensor Lighting Fixture with Networked	d 32	- 77	Manual Switch Lighting Fixture wil	th 55			\$0		0.068																100%	100%	0					
Networked Lighting Controls Standalone Controls	Lighting Controls Lighting Fixture with Sensor	33	4,601	Manual Switch Lighting Fixture wil	63 th 210	4,601 15.00 4,601 8.00	\$25 \$19	\$0	\$99 \$129	0.068	25%	11.1	6 8.32 134 0 5.95 28				0.02	\$0.00 \$0.00		77.72%	0	0	8 60	1,000	89%	100%	100%	22	129,432 498,287	\$25,154 \$35,688	\$98,743 \$238,276		
Stairwell Fixture	LED Stairwell Fixture	28	7,673	Manual Switch Stairwell Lighting Fixture	58	7,673 20.00	\$40	\$0	\$277	0.059	14%	21.4					0.03			100.00%	0	0	0	0	89%	100%	100%	0	0	\$0	\$0		
LED/LEC Exit Sign T8 Low Wattage Lamps	LED T8 Low Wattage Lamps	1 31	8,760 4,601		35 38	8,760 20.00 4,601 8,00	7-0	\$0 \$0	\$82 \$4	0.059 0.068	30% 40%	4.6		\$0.084 \$0.05			0.04 0.01	0.000	\$0.00	100.00%	64 43	568 2,500	64 43	568 2,500		100% 100%		18 13	160,439 74,670	\$14,200 \$4,000	\$46,579 \$10,000		
LED Interior Lamps	LED Lamp	13	4,601	Hologop or	44	4,601 5.51	\$5	\$0	\$6	0.068	77%	0.7					0.03	\$0.00	-\$0.63	77.72%	1,300	15,130	1,300	26,300	90%	100%	100%	601	3,557,392	\$130,740	\$170,640		
LED Midstream Interior Lamps	LED Lamp	14	4,637	Halogen, Incandescent, or CFL Lamp	51	4,637 5.70	\$6	\$6	\$18	0.068	34%	1.6	6 1.10 160	\$0.03	\$0.006	0.04	0.03	\$0.00	-\$0.43	76.26%	876	51,650	876	81,100	92%	100%	100%	2,206	13,410,844	\$500,096	\$1,472,423		
LED Interior Fixture	LED Downlight Luminaire	22	4,601	Incandescent Luminaire	55	4,601 20.00	\$35	\$0	\$103	0.068	34%	10.3	3 6.81 15	\$0.229	\$0.011	0.03	0.03	\$0.00	-\$0.39	77.72%	19	444	19	444	89%	100%	100%	11	64,872	\$15,600	\$45,778		
LED Exterior Wall Pack	LED Wall Pack Fixture	60	4,903	HID Wall Pack Fixture	237	4,903 20.00	\$62	\$0	\$375	0.044	17%	9.8	5 8.22 86	\$0.07	\$0.004	0.18	0.00	\$0.00	\$0.00	0.00%	68	422	77	464	89%	100%	100%	0	383,354	\$28,774	\$173,926		
LED Parking Garage Wall Pack LED Outdoor Canopy Lighting	LED Wall Pack Fixture	60	8,760	Fixture	272	8,760 20.00	\$65 \$112	\$0 \$0	\$437 \$331	0.059	15% 34%	3.9			\$0.002 \$0.004	0.21	0.23	\$0.00	\$0.00	100.00%	5 21	17 338	5 21	17 338	89%	100%	100%	3	30,095 416,034	\$1,110 \$37,920	\$7,436 \$111,799		
LED Parking Garage Lighting	LED Parking Garage Fixture	47	8,760	HID Fixture	183	8,760 20.00	\$117		\$366	0.059	32%	5.2	0 3.54 1,19	3 \$0.098	\$0.005	0.14	0.15	\$0.00	\$0.00	100.00%	7	248	7	248	89%	100%	100%	32	281,644	\$29,000	\$90,718		
LED Ref and Frz Cases 5' or 6' doors LED Street Lighting	LED Strip lighting LED Fixture	51	8,760 4,903	Fluorescent HID Fixture	92	8,760 20.00 4.903 20.00	\$45 \$35	\$0 \$0	\$164 \$541	0.059	27% 6%	7.7		_	_		0.04			0.00%	5	50 4	40	50	89% 89%	100%	100%	0	17,098 3,044	\$2,250 \$140	\$8,188 \$2,163		
LED Area Lighting	LED Fixture	191	4,903		653	4,903 20.00	\$187	\$0	\$797	0.044	23%	8.0	1	_	_	_	0.00			0.00%	23	191	23	191	89%	100%	100%	0	412,039	\$35,725	\$152,248		
LED Troffer Fixture	LED Troffer Fixture	55	4,601	Fluorescent Fixtur	re 100	4,601 20.00	\$30	\$0	\$171	0.068	18%	12.7	6 10.52 20	\$0.145	\$0.007	0.05	0.04	\$0.00	-\$0.62	77.72%	50	3,500	250	13,000	89%	100%	100%	433	2,563,127	\$390,000	\$2,219,750		
LED Troffer Retrofit	LED Troffer Fixture - Retrofit Ki	Gt 51	4,601	Fluorescent Fixtur	re 97	4,601 20.00	\$30	\$0	\$119	0.068	25%	8.6	4 6.47 21;	\$0.14	\$0.007	0.05	0.04	\$0.00	-\$0.60	77.72%	50	800	150	2,500	89%	100%	100%	86	507,214	\$75,000	\$298,325		
T12 LED Troffer Fixture	LED Troffer T12 Fixture - Retrofit Kit	48	4,601	Fluorescent Fixtur	re 89	4,601 20.00	\$50	\$51	\$69	0.068	73%	5.5	2 1.51 19	\$0.26	\$0.013	0.04	0.03	\$0.00	-\$0.49	77.72%	3	3	0	0	89%	100%	100%	0	0	\$0	\$0		
T12 LED Troffer Retrofit	LED Troffer T12 Fixture	53	4,601	Fluorescent Fixtur	re 92	4,601 20.00	\$30	\$51	\$120	0.068	25%	10.2					0.03	\$0.00	-\$0.46	77.72%	3	3	0	0	89%	100%	100%	0	0	\$0	\$0		
LED High Bay Fixture LED High Bay Retrofit Kit	LED High Bay Fixture LED High Bay Retrofit Kit	208 266	4,601 4,601	HID Fixture HID Fixture	373 501	4,601 20.00 4,601 20.00	\$139 \$51	\$0 \$0	\$474 \$400	0.068 0.068	29% 13%	9.5 5.7				0.17 0.23	0.14 0.19	\$0.00 \$0.00	-\$1.95 -\$2.77	77.72% 77.72%	60 28	102 182	60 30	1,022 182	89% 89%			125 32	738,654 186,796	\$142,500 \$9,220	\$483,931 \$72,809		
LED Tubes (Linear Lamps)	LED Tubes (Linear Lamps)	21	4,601	Fluorescent Lamp	s 35	4,601 14.95	\$3	\$3	\$11	0.068	24%	2.6	8 2.05 66	\$0.04	\$0.003	0.01	0.01	\$0.00	-\$0.15	77.72%	30	300	1,120	77,700	89%	100%	100%	820	4,853,673	\$211,000	\$892,178		
Custom Lighting Project	High Efficiency Lighting	4,537	3,898	Efficiency Lighting	14,860	3,898 16.94	\$5,495	\$1,569	\$12,110	0.068	45%	4.6			_	10.32	6.69	\$0.00	\$113.84	60.63%	30	100	30	125	89%	100%	100%	745	4,787,657	\$686,913	\$1,513,749		
Sink Aerator -restroom, elec water heating (per aerator)	.6 gallons per minute restroom faucet aerator 1.5 gallons per minute kitchen	84	8,760	minute faucet	306	8,760 10.00	\$7	\$0	\$7	0.068	100%	0.0					0.00			2.08%	90	90	90	90	90%	100%	100%	0	169,034	\$603	\$603		
Sink Aerator -kitchen, elec water heating (per aerator)	faucet aerator	70	8,760	minute faucet	102	8,760 10.00	\$7	\$0	\$7	0.068	100%	0.2	+				0.00			0.69%	10	10	10	10	90%	100%	100%	0	2,739	\$67	\$67		
Lighting Control System	Lighting Control System LED High Bay Replacement	146	8,433 4,601	Controls	2,647 285	8,433 15.00 4.601 9.52	\$1,579 \$50	\$0 \$11	\$6,632 \$178	0.068	24%	3.7	+				0.11			3.99% 77.72%	10	150	10	150	89%	100%	100%	15	42,499 91,218	\$3,158 \$7,450	\$13,263 \$26,704		
LED Screw-in Lamps, HID Replacement LED PL/G based CFL Replacement lamp	Lamp LED Plug In Lamp	21	4,601			4,601 9.52 4,601 12.00	\$50	\$1	\$178	0.068	35%	2.6					0.12		-\$1.64	77.72%	10	500	10	500	89% 89%	100%	100%	9	55,740	\$3,500	\$26,704		
LED Interior Fixture (CFL Baseline)	LED Downlight Fixture	32		CFL Fixture		4,601 20.00	\$30		\$144	0.068	21%	11.4					0.03		-\$0.50	77.72%	20	1,000	20	2,000		100%			368,164	\$60,000	\$288,205		
LED Troffer Fixture (T12 Baseline) LED Troffer Retrofit (T12 Baseline)	LED Troffer Fixture LED Troffer Fixture - Retrofit Ki	55 St 51	_	Fixture T12 Elucroscont	140	4,601 20.00 4,601 20.00		\$0 \$0	\$171	0.068	41%	6.7	+			_	0.07			77.72%	15	2,500 1,500	350	12,300	89%	100%	100%	774	4,579,715 525,900	\$861,000 \$60,000	\$2,100,225 \$143,196		
LED Troffer Hetrofit (112 Baseline) LED Tubes (Linear Lamps) (T12 Baseline)	LED Troffer Fixture - Hetrofit Ki	21	4,601 4,601	Fixture T12 Fluorescent	151	4,601 20.00 4,601 15.98	\$50 \$12	\$0 \$1	\$119 \$22	0.068	53%	2.5	+ + + + + + + + + + + + + + + + + + + +		-	-	0.08			77.72% 77.72%	15 45	4,000	75 450	1,200	89% 89%	100%	100%	89 351	2,075,300	\$192,800	\$143,196		
LED Tubes (Linear Lamps) (112 baseline) LED Ref and Frz Cases 5' or 6' doors (T12 Baseline)	LED Tubes (Linear Lamps)	51	8,760	Lamps	160	8,760 20.00	\$12 \$55	\$1	\$22 \$164	0.068	34%	2.5	+		-	-	0.02			100.00%	20	950	20	800	89%	100%	100%	83	724,771	\$192,800	\$361,390		
LED Linear Ambient (T12 Baseline)	LED Linear Ambient Fixture	77	4,601	T12 Flourescent	143	4,601 20.00		\$10	\$251	0.068	57%	12.9					0.05			77.72%	3	2,750	3	11,700	89%	100%	100%	568	3,360,790	\$1,674,000	\$2,933,156		
LED Linear Ambient	LED Linear Ambient Fixture	_	4,601	Flourescent	116	4,601 20.00		\$40	\$222	0.068	30%	20.9	+				0.03			77.72%	0	0	271	5,925	80%	100%	100%	167	991,257	\$390,664	\$1,314,139		
CCO CAROLI PURIDIENT	LED Elitedi Afficient Fixture	70	4,001	Ambient Fixture	110	4,001 20.00	\$00	940	ψ222	V.000	30%	20.9	. 14.09 170	φυ.37t	φυ.018	0.04	0.03	φυυυ	Ų1.20	7.7270	3	J	2/1	3,823	U376	100%	100%	107	991,237	φυσυ,004	φ1,014,109		