

DOCKETED	
Docket Number:	19-IEPR-03
Project Title:	Electricity and Natural Gas Demand Forecast
TN #:	227713
Document Title:	SCE Demand Form 1.7a (PUBLIC)_FNL
Description:	N/A
Filer:	Legal Administration
Organization:	Southern California Edison Company
Submitter Role:	Applicant
Submission Date:	4/15/2019 5:57:22 PM
Docketed Date:	4/16/2019

INSTALLED CAPACITY (MW)								
YEAR	Photovoltaic						Combined Hea	
	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	AGRICULTURAL	OTHER	TOTAL	RESIDENTIAL	COMMERCIAL
2000	0.0	0.2	0.0	0.0	0.0	0.3	0	87
2001	0.6	0.3	0.0	0.0	0.0	0.9	0	89
2002	1.9	0.6	0.0	0.0	0.1	2.7	0	93
2003	5.0	2.6	0.0	0.0	1.0	8.6	0	104
2004	9.0	4.7	0.3	0.0	2.2	16.2	0	108
2005	12.1	9.0	0.3	0.3	3.2	25.0	0	111
2006	17.7	15.5	0.5	0.7	7.3	41.7	0	111
2007	26.0	27.6	2.6	0.8	8.6	65.6	0	108
2008	35.4	53.0	3.3	4.5	15.3	111.4	0	112
2009	52.5	67.3	5.9	4.6	18.6	148.9	0	119
2010	80.0	87.9	6.4	5.0	26.0	205.2	0	124
2011	122.4	131.6	7.1	6.0	45.5	312.7	0	127
2012	193.6	175.9	9.5	7.6	61.8	448.3	0	131
2013	323.8	208.0	10.2	9.1	80.8	631.9	0	122
2014	501.1	257.8	10.6	12.2	86.0	867.7	0	122
2015	797.2	295.7	44.7	12.2	86.0	1235.8	0	122
2016	1084.1	383.3	98.2	12.2	93.9	1671.7	0	127
2017	1,319	471	121	15	115	2,041	0	132
2018	1,572	544	139	17	133	2,407	0	137
2019	1,859	642	164	20	157	2,842	0	142
2020	2,258	751	192	24	184	3,409	0	147
2021	2,687	869	223	28	213	4,020	0	152
2022	3,126	994	255	32	243	4,650	0	157
2023	3,534	1,120	287	36	274	5,251	0	162
2024	3,934	1,243	318	40	304	5,839	0	154
2025	4,314	1,357	348	43	332	6,394	0	159
2026	4,669	1,459	374	46	357	6,906	0	164
2027	4,999	1,547	396	49	379	7,370	0	169
2028	5,304	1,619	415	52	396	7,786	0	174
2029	5,583	1,677	430	53	411	8,154	0	179
2030	5,836	1,859	476	59	455	8,686	0	184

Cumulative Historical and Forecast
LOCAL PRIVATE SUPPLY BY SECTOR - PHOTOVOLTAIC

				ENERGY					
Electricity and Power including Fuel Cells				Photovoltaic					
INDUSTRIAL	AGRICULTURAL	OTHER	TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	AGRICULTURAL	OTHER	TOTAL
380	0	49	516	0	1	-	-	-	1
355	0	35	480	1	1	-	-	-	2
424	1	42	560	3	2	4	-	-	10
427	0	50	582	8	6	6	-	-	21
429	2	52	590	15	12	6	-	-	34
428	3	55	597	21	21	6	-	-	48
431	2	59	603	33	35	8	-	-	76
422	2	57	588	49	58	10	-	-	117
421	2	66	601	67	110	16	-	-	193
421	2	68	609	101	137	19	-	-	257
418	2	62	606	155	168	29	-	-	352
415	2	63	606	258	216	56	-	-	530
415	3	60	609	421	257	121	-	-	798
575	3	61	761	671	291	221	-	-	1,183
574	3	61	761	1,005	339	262	-	-	1,606
464	3	61	650	1,547	429	293	-	-	2,270
467	3	64	662	2,127	591	378	-	-	3,096
470	3	67	673	2,341	811	183	23	185	3,543
473	4	70	684	2,491	803	189	20	372	3,874
476	4	73	696	2,946	1,000	203	19	407	4,576
479	4	76	707	3,525	1,198	220	19	473	5,435
482	5	79	718	4,227	1,417	238	19	543	6,444
485	5	82	730	4,959	1,650	258	19	617	7,503
488	5	85	741	5,666	1,891	278	19	692	8,546
478	6	88	727	6,334	2,129	299	19	763	9,545
481	6	91	738	6,971	2,355	318	19	829	10,492
484	6	94	750	7,564	2,560	335	19	886	11,364
487	7	97	761	8,108	2,738	350	19	932	12,147
490	7	100	772	8,603	2,887	362	19	967	12,838
493	7	103	784	9,050	3,005	371	19	992	13,437
496	7	106	795	9,447	3,231	389	19	1,050	14,136

**Forecasted Capacity
DLTAIC & CHP INCLUDING FUEL CELLS**

Y (GWh)								
Combined Heat and Power including Fuel Cells						Photovoltaic		
RESIDENTIAL	COMMERCIAL	INDUSTRIAL	AGRICULTURAL	OTHER	TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
1.66	364.77	3,763.41	2.58	336.90	4,469.32	0.02	0.12	-
1.66	357.22	3,635.45	2.58	241.38	4,238.28	0.35	0.15	0.00
1.66	372.67	3,621.90	2.10	301.05	4,299.37	1.07	0.32	0.01
1.66	468.21	4,054.16	2.77	416.31	4,943.10	2.73	1.43	0.02
1.66	559.18	4,108.12	5.06	430.87	5,104.90	4.97	2.59	0.15
1.66	642.81	4,103.33	11.87	437.71	5,197.38	6.65	4.95	0.17
1.66	654.67	4,067.12	11.96	438.76	5,174.17	9.73	8.53	0.30
1.31	633.90	4,068.10	11.96	435.85	5,151.12	14.29	15.20	1.45
0.45	683.00	4,086.18	12.00	474.46	5,256.08	19.44	29.13	1.83
0.48	680.26	4,058.65	11.66	458.35	5,209.40	28.87	37.01	3.25
1.31	666.83	4,032.72	11.50	370.11	5,082.48	44.02	48.34	3.51
1.58	624.65	3,996.75	11.04	344.06	4,978.08	67.33	72.40	3.93
1.79	654.14	4,007.57	11.63	347.10	5,022.22	106.46	96.75	5.20
1.79	726.51	4,001.96	16.70	346.15	5,093.10	178.07	114.39	5.62
1.79	760.69	3,944.41	16.70	348.71	5,072.30	275.63	141.81	5.81
1.79	788.79	3,236.76	16.70	348.71	4,392.75	438.45	162.64	24.58
1.80	793.13	3,346.37	16.75	349.66	4,507.70	596.26	210.81	54.01
1.82	881.59	3,245.04	16.70	348.71	4,493.86	725.52	258.98	66.35
1.82	968.19	3,245.39	16.70	348.71	4,580.81	864.83	299.36	76.70
1.82	1,005.83	3,266.42	17.82	366.23	4,658.12	1,022.27	352.90	90.41
1.83	1,039.24	3,296.39	18.99	384.75	4,741.20	1,230.19	409.02	104.79
1.82	1,067.24	3,308.52	20.07	401.32	4,798.97	1,413.95	457.41	117.19
1.82	1,097.90	3,329.55	21.19	418.84	4,869.29	1,608.19	511.43	131.03
1.82	1,128.56	3,350.57	22.31	436.36	4,939.62	1,071.49	339.65	87.02
1.83	1,159.34	3,380.55	23.48	454.88	5,020.07	2.42	0.76	0.20
1.82	1,187.33	3,392.68	24.56	471.45	5,077.84	2.63	0.83	0.21
1.82	1,217.99	3,413.70	25.68	488.97	5,148.16	2.83	0.88	0.23
1.82	1,248.65	3,434.73	26.80	506.49	5,218.49	3.00	0.93	0.24
1.83	1,281.93	3,464.70	27.97	525.00	5,301.42	3.16	0.96	0.25
1.82	1,310.06	3,476.83	29.04	541.57	5,359.33	3.30	0.99	0.25
1.82	1,340.72	3,497.86	30.17	559.09	5,429.65	3.40	1.08	0.28

COINCIDENT PEAK DEMAND IMPACT (MW)								
ic			Combined Heat and Power including Fuel Cells					
AGRICULTURAL	OTHER	TOTAL	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	AGRICULTURAL	OTHER	TOTAL
-	-	0.14	0.38	86.73	380.25	0.37	48.69	516.4137
-	0.00	0.51	0.38	88.51	355.01	0.37	35.39	479.6457
0.01	0.07	1.48	0.38	92.61	424.36	0.52	42.06	559.9272
0.01	0.56	4.73	0.38	103.70	427.40	0.40	49.71	581.5868
0.01	1.19	8.91	0.38	107.53	428.77	1.63	51.77	590.0759
0.18	1.78	13.73	0.38	111.37	427.94	2.98	54.61	597.2733
0.37	4.00	22.92	0.38	110.61	430.93	1.90	58.83	602.6487
0.43	4.74	36.10	0.38	107.66	421.75	1.90	56.55	588.2439
2.50	8.39	61.29	0.10	112.12	421.23	1.90	66.13	601.4837
2.53	10.25	81.91	0.14	118.92	420.70	1.90	67.61	609.2673
2.73	14.28	112.87	0.31	123.90	418.18	1.83	61.75	605.9672
3.29	25.02	171.97	0.40	126.61	414.53	1.83	62.69	606.0601
4.17	33.99	246.57	0.40	130.76	414.58	2.67	60.12	608.5398
5.01	44.43	347.52	0.40	122.14	574.84	2.67	60.72	760.7812
6.71	47.31	477.26	0.40	122.14	574.47	2.67	61.37	761.0632
6.71	47.31	679.67	0.40	122.14	463.84	2.67	61.37	650.4332
6.71	51.62	919.41	0.40	127.14	466.84	2.99	64.37	661.7542
8.24	63.42	1,122.52	0.39	128.79	457.91	3.23	65.66	655.9829
9.53	73.31	1,323.73	0.40	133.99	461.98	3.55	68.76	668.6753
11.23	86.42	1,563.23	0.39	135.38	453.21	3.77	69.88	662.6368
13.02	100.16	1,857.18	0.38	139.87	455.19	4.07	72.60	672.1178
14.56	112.01	2,115.12	0.38	144.38	457.27	4.37	75.33	681.7269
16.28	125.24	2,392.17	0.39	152.38	470.14	4.77	79.88	707.5569
10.81	83.17	1,592.15	0.37	148.05	445.44	4.79	77.95	676.5943
0.02	0.19	3.59	0.37	142.50	441.18	5.13	81.54	670.7269
0.03	0.20	3.90	0.37	147.15	444.06	5.43	84.33	681.3389
0.03	0.22	4.18	0.37	151.37	445.68	5.71	86.88	690.008
0.03	0.23	4.43	0.37	155.59	447.32	5.99	89.42	698.6927
0.03	0.24	4.64	0.37	159.64	448.56	6.27	91.86	706.6903
0.03	0.24	4.82	0.37	164.11	451.03	6.56	94.55	716.6174
0.03	0.27	5.06	0.37	168.70	453.82	6.85	97.30	727.0471

2000		0.26201			0.144106	0.144106
2001		0.92052			0.506286	0.506286
2002		2.68346			1.475903	1.475903
2003		8.60819			4.734505	4.734505
2004		16.19718			8.908448	8.908448
2005		24.96645			13.73155	13.73155
2006		41.67305			22.92018	22.92018
2007		65.63654			36.1001	36.1001
2008		111.4359			61.28976	61.28976
2009		148.9218			81.90698	81.90698
2010		205.22			112.871	112.871
2011		312.6751			171.9713	171.9713
2012		448.3117			246.5714	246.5714
2013		631.8538			347.5196	347.5196
2014		867.7478			477.2613	477.2613
2015		1235.772			679.6747	679.6747
2016		1671.663			919.4145	919.4145
2017		2040.939			1122.516	1122.516
2018		2406.781			1323.73	1323.73
2019	-283.747	2842.235	435.4542	0.55	1563.229	1563.229
2020	-545.895	3408.737	1001.956	-0.54483	-1857.18	1857.178
2021	-848.824	4020.088	1613.307	-0.52614	-2115.12	2115.125
2022	-1153.93	4649.701	2242.921	-0.51448	-2392.17	2392.168
2023	-862.424	5251.23	2844.449	-0.3032	-1592.15	1592.149
2024	-2.11122	5839.427	3432.646	-0.00062	-3.5915	3.591498
2025	-2.43226	6393.87	3987.089	-0.00061	-3.90048	3.900482
2026	-2.72274	6905.688	4498.907	-0.00061	-4.17932	4.179317
2027	-2.98069	7369.662	4962.881	-0.0006	-4.4262	4.426198
2028	-3.20399	7785.842	5379.061	-0.0006	-4.63757	4.637571
2029	-3.39949	8154.076	5747.295	-0.00059	-4.82309	4.823086
2030	-3.65673	8686.26	6279.479	-0.00058	-5.05827	5.058266

4469.323	Additional 2018		0.145973	652.4005
4238.284			0.145973	618.6751
4299.371			0.145973	627.5921
4943.099			0.145973	721.5589
5104.896			0.145973	745.1769
5197.382			0.145973	758.6774
5174.173			0.145973	755.2895
5151.12			0.145973	751.9244
5256.081			0.145973	767.2459
5209.398			0.145973	760.4314
5082.475			0.145973	741.9041
4978.081			0.145973	726.6654
5022.22			0.145973	733.1086
5093.104			0.145973	743.4556
5072.297			0.145973	740.4185
4392.753			0.145973	641.2233
4507.702			0.145973	658.0028
4493.865			0.145973	655.9829
4580.815		11.28504	0.145973	668.6753
4658.124	77.30912	10.99753	0.142254	662.6368
4741.204	160.3892	22.73693	0.141761	672.1178
4798.967	218.1523	30.99007	0.142057	681.7269
4869.292	288.4776	41.91868	0.14531	707.5569
4939.618	358.8029	49.14631	0.136973	676.5943
5020.072	439.2576	58.68877	0.133609	670.7269
5077.836	497.0208	66.68975	0.134179	681.3389
5148.161	567.346	76.04139	0.13403	690.008
5218.486	637.6713	85.37654	0.133888	698.6927
5301.423	720.6084	96.05854	0.133302	706.6903
5359.329	778.5146	104.0983	0.133714	716.6174
5429.655	848.8398	113.6622	0.133903	727.0471