

Circuit Reliability Review Lomita

January 2017

Providing Safe, Reliable, and Affordable Power

Southern California Edison is modernizing the power grid to meet the changing needs and expectations of our customers and to help California achieve its clean energy goals.

We are investing more than \$12 billion into our power grid between 2015 – 2017 with the goal of increasing power reliability through significant upgrades. These investments include:

- Updating thousands of transmission and distribution poles
- Replacing hundreds of miles of underground cables
- Replacing hundreds of underground structures such as vaults and manholes
- Upgrading critical distribution equipment; capacitor banks, switches, and circuit breakers
- Building new distribution circuits to serve electrical demands in our communities
- Inspecting and replacing overhead conductor and equipment to improve public safety

Our investments in local communities will help ensure that customers receive safe, reliable, and affordable electricity now and in the future.

Understanding Your Reliability Report

As your electric utility, we want you to always have power when you need it. To get there, we constantly track and monitor electric outages across our service territory, and we measure our "system reliability" from this data.

The two metrics we rely on are common in the electric utility industry: the System Average Interruption Duration Index (SAIDI) and the System Average Interruption Frequency Index (SAIFI). Both are described in more detail on the next page.

Replacing and upgrading our infrastructure will help SCE maintain or improve SAIDI and SAIFI measurements.

This report provides historical reliability data for the circuits that serve your jurisdiction and our proposed infrastructure upgrades for the current year.

To view other reliability reports, visit sce.com>Outage Center>Maintaining Reliable Service

Reliability Metrics

MOMENTARY OUTAGES:

OUTAGES LASTING 5 MINUTES OR LESS

MAIFI:

 The number of times the average customer is interrupted by Momentary outages each year.

SUSTAINED OUTAGES:

OUTAGES LASTING LONGER THAN 5 MINUTES

SAIFI:

 The number of times the average customer is interrupted by Sustained outages each year.

SAIDI:

 The cumulative amount of time the average customer is interrupted by Sustained outages each year.

Cities in the South Bay District

Alondra Park

Del Aire

El Segundo

Gardena

Hawthorne

Hermosa Beach

Inglewood

Ladera Heights

Lawndale

Lennox

Lomita

Los Angeles

Manhattan Beach

Palos Verdes Estates

Rancho Palos Verdes

Redondo Beach

Rolling Hills

Rolling Hills Estates

Torrance

View Park-Windsor Hills

West Athens

Westmont

Reliability by SCE District (No Exclusions)

		20	12			20:	13			20	14			20	15			20	16	
	District	SAIDI	District	SAIFI																
District Name	SAIDI	RANKING	SAIFI	Ranking																
ANTELOPE VALLEY	78.60	28	0.56	31	94.42	22	0.62	31	51.05	35	0.59	34	104.34	22	0.68	30	107.67	24	0.87	29
ARROWHEAD	129.58	13	1.31	7	180.59	7	1.39	8	193.25	5	1.59	5	362.61	4	3.97	1	659.46	3	2.85	5
BARSTOW	184.80	7	1.15	12	204.33	6	1.40	7	201.53	4	1.34	10	187.11	8	1.17	12	134.83	18	1.35	9
BIG CREEK	1184.25	1	4.52	1	176.51	8	3.08	1	920.25	1	1.34	11	422.77	2	3.42	2	1062.01	2	4.99	1
BISHOP	463.09	2	1.25	9	104.44	17	0.51	35	118.79	17	0.59	35	298.11	6	2.22	4	168.59	8	1.22	14
BLYTHE	225.88	6	1.53	3	483.13	1	1.38	9	707.54	2	2.42	2	427.00	1	1.52	7	396.38	5	2.71	6
CATALINA	78.46	30	0.72	29	105.94	16	2.97	2	97.02	24	4.17	1	42.56	35	2.25	3	65.01	35	3.66	3
COVINA	108.73	19	0.92	19	100.51	19	0.86	20	91.60	27	0.87	22	100.08	23	0.81	25	112.13	22	0.97	24
DOMINGUEZ HILLS	117.22	18	0.82	24	89.17	26	0.80	21	82.30	29	0.71	28	130.63	15	0.97	17	146.38	12	1.11	17
FOOTHILL	91.69	25	0.90	20	85.80	27	0.79	24	93.35	25	0.93	21	109.64	20	0.95	20	142.81	14	1.03	21
FULLERTON	68.99	33	0.42	35	90.57	25	0.79	22	82.23	30	0.72	27	76.59	29	0.67	31	92.72	30	0.76	34
HUNTINGTON BEACH	95.78	23	0.89	21	66.51	32	0.68	29	79.61	31	0.78	25	98.32	25	0.95	19	128.02	20	1.26	12
KERNVILLE	226.76	5	1.31	6	232.18	4	1.96	3	178.69	8	1.99	3	286.38	7	0.96	18	2421.32	1	3.67	2
LONG BEACH	75.83	31	0.55	33	75.11	30	0.70	28	66.33	34	0.61	32	164.46	9	0.89	23	135.16	17	0.86	31
MENIFEE	99.32	22	0.84	23	107.39	15	1.26	10	156.68	11	1.32	12	111.46	19	0.98	16	156.75	9	1.31	10
MONROVIA	108.11	20	1.13	15	99.12	20	1.02	16	133.32	14	1.16	16	96.68	26	0.88	24	116.57	21	0.84	32
MONTEBELLO	131.06	12	1.13	14	118.08	13	1.17	12	158.34	10	1.16	15	150.28	12	1.18	11	133.52	19	1.17	15
ONTARIO	93.09	24	0.87	22	77.39	29	0.79	23	97.91	23	1.00	19	94.04	27	0.74	27	105.07	27	0.93	27
PALM SPRINGS	175.92	8	1.27	8	112.80	14	0.77	25	107.04	20	0.71	29	99.54	24	0.80	26	107.58	25	1.07	19
REDLANDS	120.13	16	1.11	16	96.48	21	1.04	15	154.25	12	1.04	18	124.52	17	1.01	14	137.11	16	0.98	23
RIDGECREST	229.65	4	1.44	4	161.95	9	1.12	13	176.84	9	1.57	6	148.90	13	1.01	15	254.31	6	1.05	20
SADDLEBACK	83.01	27	0.73	27	70.69	31	0.53	34	99.07	22	0.74	26	46.03	34	0.39	35	65.99	34	0.65	35
SAN JOAQUIN	135.90	10	1.04	18	244.44	2	1.45	6	138.25	13	1.17	14	127.50	16	1.05	13	108.44	23	1.09	18
SANTA ANA	78.60	29	0.55	32	93.35	24	0.74	26	91.68	26	0.84	23	67.46	32	0.71	29	97.27	29	1.00	22
SANTA BARBARA	153.81	9	1.15	13	82.00	28	0.70	27	183.78	7	1.38	9	152.37	11	1.52	6	156.66	10	1.41	8
SANTA MONICA	101.69	21	0.79	25	122.78	12	1.00	17	110.76	19	0.99	20	75.41	30	0.62	32	91.08	31	0.95	26
SOUTH BAY	122.68	15	1.17	10	142.15	10	1.49	5	125.28	16	1.39	8	164.07	10	1.31	8	183.90	7	1.88	7
TEHACHAPI	117.96	17	1.43	5	232.67	3	1.12	14	130.70	15	1.29	13	298.96	5	1.21	9	97.29	28	1.13	16
THOUSAND OAKS	127.73	14	1.05	17	93.86	23	0.91	18	104.37	21	1.10	17	106.59	21	0.92	21	143.78	13	1.31	11
VALENCIA	62.01	35	0.46	34	51.04	34	0.53	33	79.23	32	0.61	33	72.27	31	0.61	33	105.09	26	0.97	25
VENTURA	134.81	11	1.15	11	100.52	18	1.21	11	183.79	6	1.65	4	148.85	14	1.19	10	150.41	11	1.24	13
VICTORVILLE	67.70	34	0.66	30	61.33	33	0.63	30	68.85	33	0.63	31	87.03	28	0.91	22	79.35	33	0.92	28
WHITTIER	72.60	32	0.74	26	135.04	11	0.86	19	87.60	28	0.70	30	114.52	18	0.73	28	137.34	15	0.81	33
WILDOMAR	88.54	26	0.72	28	40.51	35	0.56	32	118.49	18	0.81	24	52.70	33	0.60	34	84.01	32	0.87	30
YUCCA VALLEY	319.82	3	3.41	2	216.97	5	1.50	4	304.25	3	1.49	7	389.08	3	1.80	5	463.68	4	3.39	4
SCE SystemWide	108.13		0.89		102.61		0.91		112.00		0.96	_	114.83		0.92		134.48		1.10	

^{*&}quot;Exclusions" are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

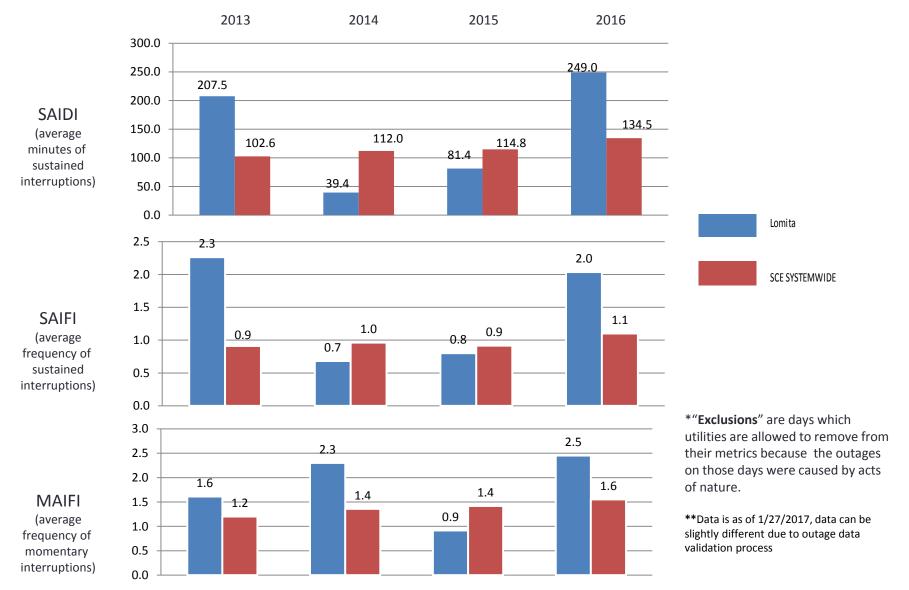
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Lomita There are 15 circuits that serve Lomita

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BACHELOR(16KV)	1,330						
BENHILL(16KV)	1,086						
BLOCKER(16KV)	4,534						
CODONA(4.16KV)	340						
LOQUAT(16KV)	2,914						
MADERA(4.16KV)	940						
MILLER(4.16KV)	911						
MOON(4.16KV)	1,406						
NARBONNE(4.16KV)	1,130						
RIDGELAND(4.16KV)	888						
SCIURBA(16KV)	2,761						
SILICONE(16KV)	2,247						
STATLER(16KV)	1,674						
TANDEM(16KV)	1,496						
ZEPHER(16KV)	714						

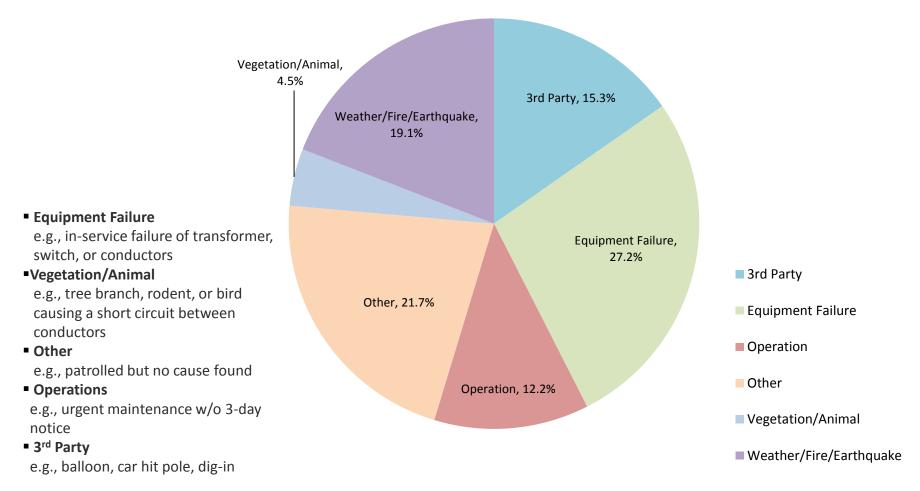
Grand Total 24,371

Reliability History of Circuits Serving Lomita (No Exclusions)



Causes of Repair Outages in Lomita Circuits 2016 YTD

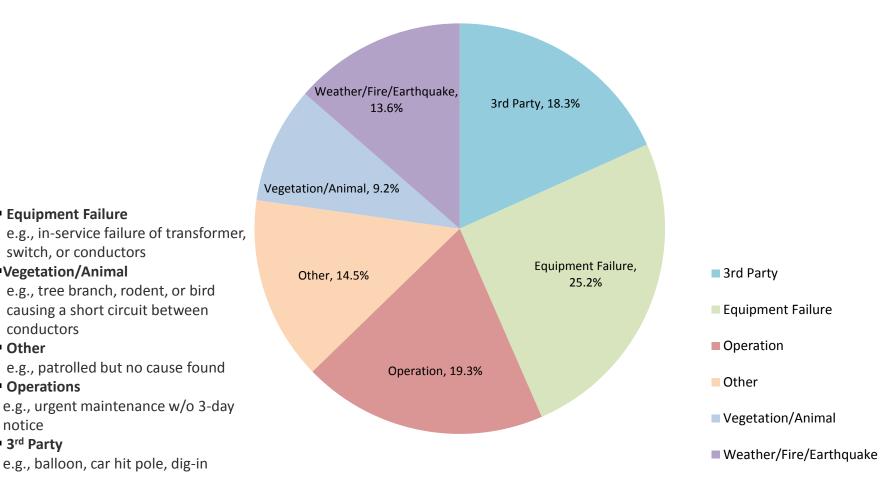
Contributions to SAIDI by Outage Cause



SAIDI = the cumulative amount of time the average customer is interrupted by "sustained" outages each year.

Causes of Repair Outages in Lomita Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



SAIFI = the number of times the average customer is interrupted by "sustained" outages each year.

Equipment Failure

■Vegetation/Animal

conductors

Operations

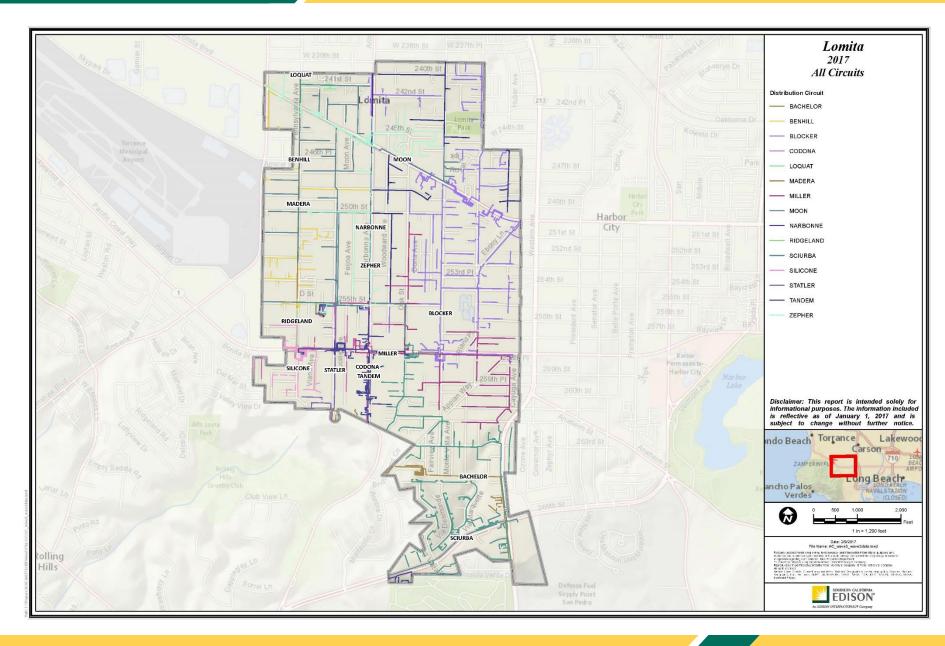
Other

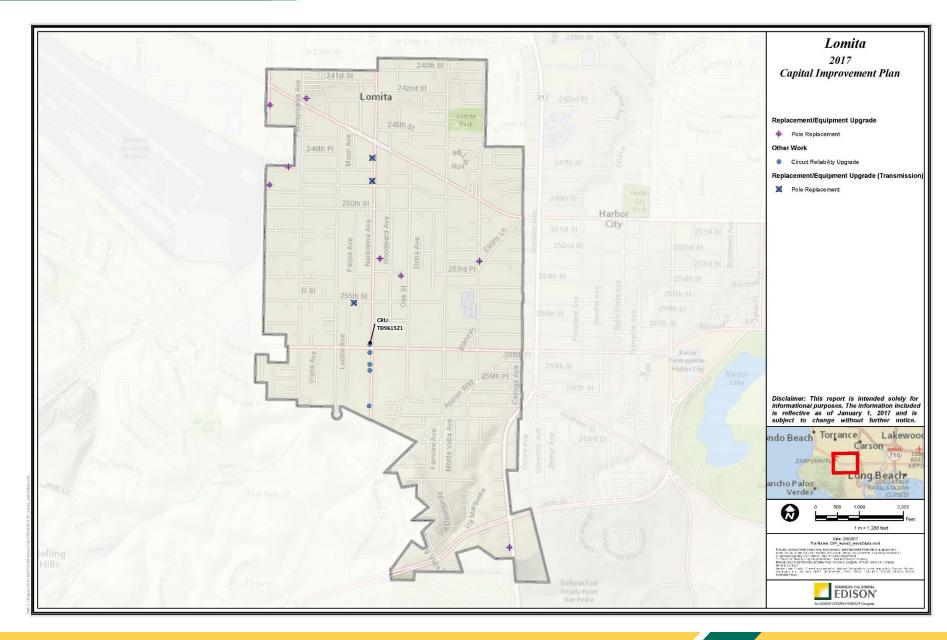
notice ■ 3rd Party

switch, or conductors

causing a short circuit between

e.g., balloon, car hit pole, dig-in





Back-up Slides

Reliability Histories of Circuits Serving Lomita

Updated through Year-End 2016

Average Reliability of 15 Circuits Serving Lomita

		2013			2014			2015		1st	Qtr 20	16	2nc	d Qtr 2	016	3rd	Qtr 2	016	4th	Qtr 2	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
Lomita	207.5	2.3	1.6	39.4	0.7	2.3	81.4	0.8	0.9	88.6	0.4	1.0	37.1	0.4	0.2	43.8	0.5	0.4	79.5	0.8	0.9	249.0	2.0	2.5
3rd Party	6%	4%	17%	47%	55%	18%	13%	10%	37%	1%	24%	35%	35%	31%	27%	55%	36%	34%	0%	0%	6%	15%	18%	24%
Equipment Failure	56%	66%	21%	28%	7%	7%	31%	55%	33%	8%	32%	14%	54%	37%	2%	19%	22%	0%	41%	18%	0%	27%	25%	6%
Operation	9%	12%	0%	15%	11%	9%	7%	15%	3%	16%	14%	0%	11%	32%	0%	1%	0%	51%	15%	26%	0%	12%	19%	7%
Other	1%	5%	12%	3%	18%	38%	5%	5%	12%	28%	7%	18%	0%	0%	28%	0%	0%	0%	37%	32%	14%	22%	14%	15%
Vegetation/Animal	4%	5%	23%	0%	0%	25%	7%	8%	15%	0%	0%	0%	0%	0%	42%	25%	41%	15%	0%	0%	80%	5%	9%	34%
Weather/Fire/Earthquake	24%	9%	28%	7%	8%	4%	37%	7%	0%	47%	23%	32%	0%	0%	0%	0%	0%	0%	7%	23%	0%	19%	14%	14%
_	•	,	·	·	·	·	•	,	·	•	·	·	·	•	·	•	,	•	•	·	•	•		
SCE Systemwide	102.6	0.9	1.2	112.0	1.0	1.4	114.8	0.9	1.4	40.5	0.3	0.4	34.8	0.3	0.4	29.4	0.2	0.3	29.8	0.3	0.4	134.5	1.1	1.6

Notes:

No outages are excluded from the metrics.

Outage Causes:

Other: e.g., patrolled but no cause could be found

Operations: e.g., urgent maintenance w/o 3-day notice to customers

3rd Party: e.g., balloons, car hit pole, dig-in

Vegetation/Animal: e.g., tree branch, rodent, or bird causing short circuit across conductors

SAIDI (minutes) = the cumulative amount of time the average customer is interrupted by "sustained" (longer than 5 minutes) outages.

SAIFI (interruptions) = the number of times the average customer is interrupted by "sustained" outages.

MAIFI (interruptions) = the number of times the average customer is interrupted by "momentary" (lasting 5 minutes or less) outages.

		2013			2014			2015		1st	Qtr 202	16	2nd	d Qtr 20	016	3rc	Qtr 20	16	4th	Qtr 20	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
DA CUEL OD/ACIAN) Contamana A 220	220.4	1.0	0.0	424.7	4.5	2.5	0.0	0.0	0.0	0.0		0.0	0.0	0.0	2.0	120.7	1.0	1.0	107.0	0.5	2.0	227.7	4.5	
BACHELOR(16KV) - Customers: 1,330	338.4	1.6	0.0	131.7	1.5 68%	3.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	3.0	120.7	1.0 99%	1.0	107.0 3%	0.5 1%	2.6		1.5	6.6
3rd Party	0%	0%	0%	63%		0%	0%	0%	0%	0%	0%	0%	0%	• , .	33%	99%		0%		_,-	38%	54%	65%	30%
Equipment Failure	94%	92%	0%	37%	32%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	80%	32%	0%	37%	11%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	1%	1%	0%
Other	0%	0%	100%	0%	0%	29%	0%	0%	100%	0%	0%	0%	0%	0%	34%	0%	0%	0%	18%	67%	24%	8%	23%	25%
Vegetation/Animal	5%	8%	0%	0%	0%	29%	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	100%	0%	0%	38%	0%	0%	45%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BENHILL(16KV) - Customers: 1,086	46.2	1.0	2.0	6.1	0.0	2.0	0.0	0.0	0.0		0.4	0.0	1.2	0.0	0.8	13.4	0.0	0.0	0.0	0.0	1.2	19.3	0.5	2.1
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%		100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%		100%	0%	0%	0%	0%	94%	100%	0%
Other	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%		100%	100%	0%	0%	0%	0%	0%	100%	6%	0%	100%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BLOCKER(16KV) - Customers: 4,534	302.2	1.9	2.3	38.7	1.2	3.0	72.5	1.9	2.4	15.3	0.0	0.0	4.9	0.0	0.0	71.4	1.0	1.0	84.2	2.2	1.0		3.3	2.0
3rd Party	0%	0%	0%	82%	98%	33%	0%	0%	41%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	15%	52%	0%	12%	1%	0%	90%	96%	59%	0%	0%	0%		100%	0%	18%	4%	0%	0%	0%	0%	10%	2%	0%
Operation	1%	1%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	50%	49%	0%	24%	32%	49%
Drag	0%	0%	0%	0%	0%	33%	9%	4%	0%	89%	50%	0%	0%	0%	0%	0%	0%	0%	16%	3%	0%	15%	3%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	82%	96%	0%	0%	0%	100%	33%	30%	51%
Weather/Fire/Earthquake	84%	46%	100%	6%	2%	0%	0%	0%	0%	11%	50%	0%	0%	0%	0%	0%	0%	0%	34%	47%	0%	17%	32%	0%
CODONA(4.16KV) - Customers: 340	523.5	4.0	1.9	31.2	0.2	3.0	25.7	0.2	1.0		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2	0.0
3rd Party	60%	24%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%			0%	0%	0%	0%	0%	0%	0%		100%	0%
Equipment Failure	8%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	2%	0%		100%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	33%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	32%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20)16	2nd	d Qtr 20	016	3rd	Qtr 20	16	4th	Qtr 20	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
LOQUAT(16KV) - Customers: 2,914	253.5	3.3	2.0	10.4	1.0	2.0	15.5	0.1	0.0		0.7	3.0		1.0	0.0	0.5	0.0	1.0		1.0	1.0			5.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	71%	98%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	4%	26%	79%
Equipment Failure	92%	70%	2%	0%	0%	0%	96%	91%	0%	29%	2%	0%			100%	0%	0%	0%	96%	98%	0%	93%	73%	1%
Operation	8%	30%	0%	4%	0%	0%	4%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	2%	0%	2%	1%	0%
Other	0%	0%	0%		100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%		0%	0%	0%	100%	0%	0%	20%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MADERA(4.16KV) - Customers: 940	125.0	2.0	1.7	0.0	0.0	0.0	63.3	1.0	1.0		0.0	2.0	0.0		0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	0.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	43%	0%	0%	0%	99%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		100%	0%	100%	100%	0%
Operation	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	57%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MILLER(4.16KV) - Customers: 911	159.0	2.0	0.0	0.0	0.0	1.0	122.3	1.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MOON(4.16KV) - Customers: 1,406	98.0	3.0	0.0	0.0	0.0	2.0	0.5	0.0	1.0	266.5	0.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	266.5	0.4	3.6
3rd Party	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	60%	66%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	40%	34%	0%	0%	0%	50%	100%	100%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	99%	100%

		2013			2014			2015		151	Qtr 20	16	2n	d Qtr 20	16	3rd	Qtr 20.	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
NARBONNE(4.16KV) - Customers: 1,130	294.8	2.6	0.0	0.4	0.0	0.0	157.6	1.2	0.0	4.7	0.0	0.0	42.0	1.0	0.0	6.6	0.0	0.0	104.3	1.0	0.0	157.5	2.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	81%	17%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	27%	49%	0%
Equipment Failure	99%	100%	0%	0%	0%	0%	3%	3%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	1%	1%	0%	8%	2%	0%
Operation	1%	0%	0%	100%	100%	0%	15%	81%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	99%	99%	0%	66%	49%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
RIDGELAND(4.16KV) - Customers: 888	85.3	1.1	0.9	44.0	1.0	0.0	46.6	0.5	0.6	484.7	0.5	1.9	135.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	620.2	1.7	1.9
3rd Party	51%	8%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	22%	69%	0%
Equipment Failure	49%	92%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	22%	5%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Other	0%	0%	0%	0%	0%	0%	78%	95%	100%	100%	98%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	31%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SCIURBA(16KV) - Customers: 2,761	130.8	2.9	1.7	42.5	0.5	3.0	11.4	0.0	0.0	44.7	0.0	1.0	36.0	1.1	0.0	158.8	1.0	0.0	2.6	0.0	1.0	242.0	2.2	2.0
3rd Party	0%	0%	0%	48%	84%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	66%	47%	0%
Equipment Failure	84%	55%	42%	23%	3%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	18%	2%	0%
Operation	2%	1%	0%	29%	13%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	16%	51%	0%
Other	10%	34%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	58%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	52%
Weather/Fire/Earthquake	4%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	48%
SILICONE(16KV) - Customers: 2,247	107.9	1.2	3.3	61.0	0.7	2.3	75.2	0.2	1.0	26.2	1.1	1.1	87.3	0.2	0.0	54.4	0.9	0.0	346.3	2.1	0.8	514.2	4.3	1.9
3rd Party	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	98%	90%	40%	37%	20%	38%	62%	46%	0%	60%	97%	100%	100%	100%	0%	100%	100%	0%	39%	10%	0%	57%	54%	57%
Operation	2%	10%	0%	63%	80%	24%	33%	49%	0%	35%	3%	0%	0%	0%	0%	0%	0%	0%	1%	4%	0%	3%	3%	0%
Other	0%	0%	30%	0%	0%	0%	4%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	60%	86%	100%	40%	43%	43%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	1%	1%	100%	5%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 20	16	2nd	d Qtr 20	16	3rd	Qtr 20	16	4th	Qtr 20	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
STATLER(16KV) - Customers: 1.674	60.1	1.0	0.2	176.4	1.3	4.1	627.6	2.2	0.5	616.7	1.4	0.8	2.5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.1	620.9	1.5	1.9
3rd Party	0%	0%	0%	59%	84%	23%	0%	0%	0%	0%	0%	0%	_	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	98%	99%	0%	39%	12%	0%	2%	7%	0%	0%	0%	0%	l	100%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Operation	2%	1%	0%	1%	4%	0%	1%	1%	91%	32%	36%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	32%	36%	0%
Other	0%	0%	50%	0%	0%	30%	0%	0%	0%	0%	0%	57%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	1%	24%
Vegetation/Animal	0%	0%	50%	0%	0%	47%	16%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	58%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	81%	44%	9%	68%	64%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67%	63%	18%
TANDEM(16KV) - Customers: 1,496	442.7	4.5	4.0	0.7	0.0	3.0	19.5	1.2	1.0	0.0	0.0	0.8	6.4	0.1	0.0	1.7	0.0	0.0	56.5	0.1	1.2	64.6	0.2	2.0
3rd Party	12%	24%	50%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	16%	24%	25%	0%	0%	0%	36%	1%	0%	0%	0%	100%	83%	46%	0%	100%	100%	0%	0%	0%	0%	11%	29%	41%
Operation	52%	29%	0%	0%	0%	0%	64%	99%	0%	0%	0%	0%	17%	54%	0%	0%	0%	0%	100%	100%	0%	89%	71%	0%
Other	0%	0%	25%	0%	0%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	19%	23%	0%	100%	100%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	59%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ZEPHER(16KV) - Customers: 714	44.4	1.0	0.0	19.8	0.0	3.0	34.7	1.0	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	5.0	0.0	1.0
3rd Party	0%	0%	0%	12%	56%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	95%	99%	0%	88%	44%	0%	97%	99%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	13%	12%	0%
Operation	0%	0%	0%	0%	0%	0%	3%	1%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	87%	88%	0%
Other	0%	0%	0%	0%	0%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	33%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Weather/Fire/Earthquake	5%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%