

Circuit Reliability Review

Palos Verdes Estates

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.

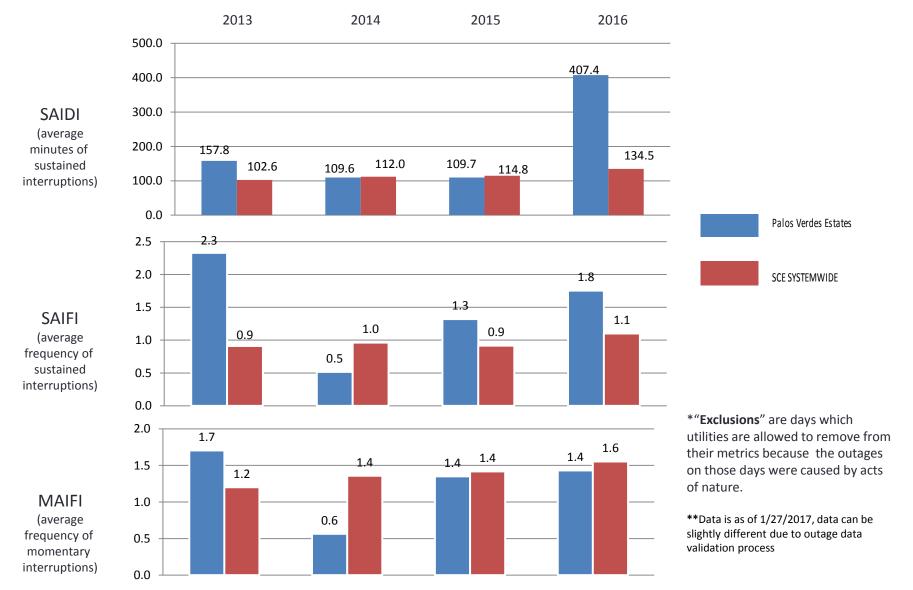
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Palos Verdes Estates There are 17 circuits that serve Palos Verdes Estates

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
ARCTURUS(4.16KV)	603						
BAUXITE(16KV)	2,339						
CHICO(16KV)	2,996						
COVEVIEW(16KV)	1,858						
CRESTWIND(4.16KV)	317						
JUPITER(4.16KV)	726						
LILAC(4.16KV)	501						
MAJOR(4.16KV)	839						
MALAGA COVE(4.16KV)	452						
PEACOCK(4.16KV)	136						
PIMA(4.16KV)	365						
PINZON(16KV)	1,151						
QUICKSILVER(16KV)	1,759						
TERRAZZO(4.16KV)	855						
TYBURN(4.16KV)	181						
VALMONTE(4.16KV)	527						
VIOLET(4.16KV)	457						

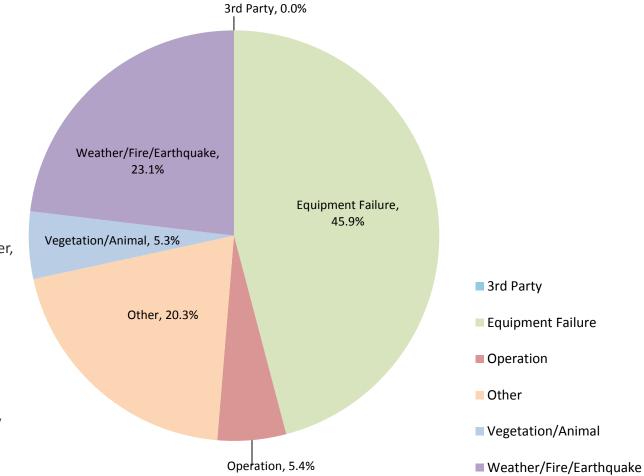
Grand Total 16,062

Reliability History of Circuits Serving Palos Verdes Estates (No Exclus



Causes of Repair Outages in Palos Verdes Estates Circuits 2016 YTD

Contributions to SAIDI by Outage Cause



Equipment Failure

e.g., in-service failure of transformer, switch, or conductors

■Vegetation/Animal

e.g., tree branch, rodent, or bird causing a short circuit between conductors

Other

e.g., patrolled but no cause found

Operations

e.g., urgent maintenance w/o 3-day notice

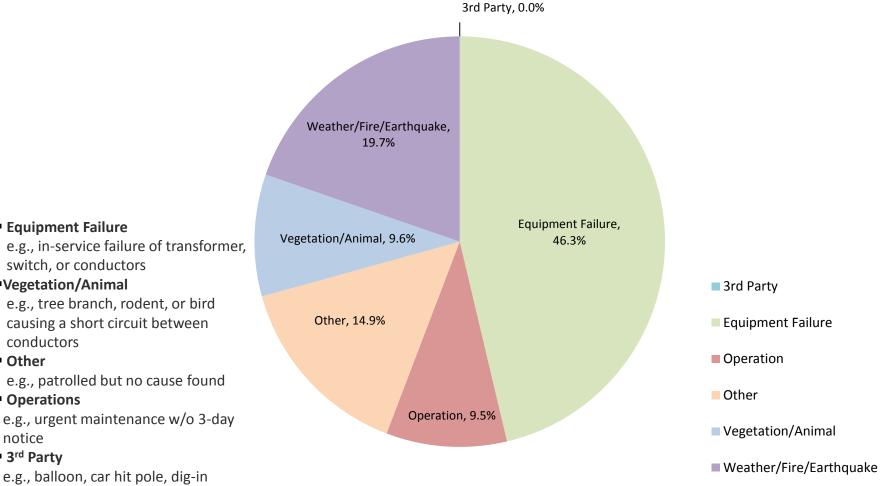
■ 3rd Party

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

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

Causes of Repair Outages in Palos Verdes Estates Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



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

Equipment Failure

conductors

Operations

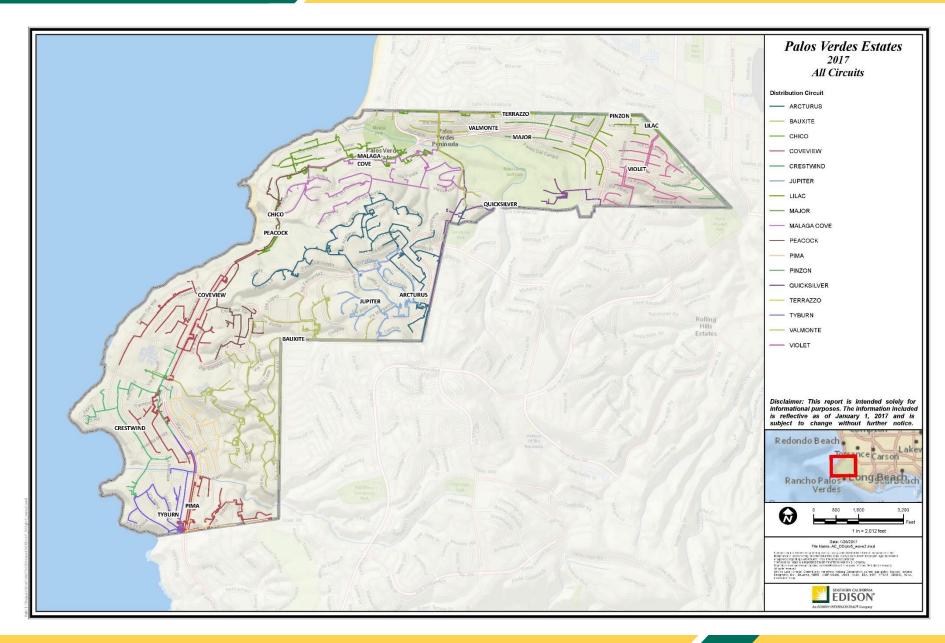
Other

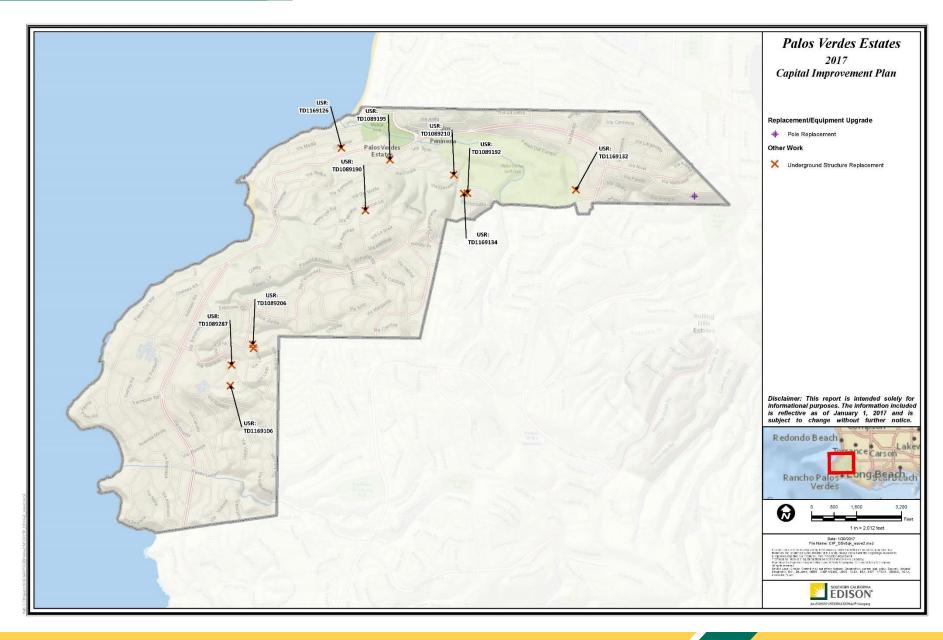
notice ■ 3rd Party

switch, or conductors ■Vegetation/Animal

causing a short circuit between

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





Back-up Slides

Reliability Histories of Circuits Serving Palos Verdes Estates

Updated through Year-End 2016

Average Reliability of 17 Circuits Serving Palos Verdes Estates

		2013			2014			2015		1st	Qtr 20	16	2nd	Qtr 2	016	3rd	Qtr 2	016	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
Palos Verdes Estates	157.8	2.3	1.7	109.6	0.5	0.6	109.7	1.3	1.4	265.2	0.9	0.3	37.6	0.3	0.1	47.1	0.2	0.0	57.5	0.3	1.0	407.4	1.8	1.4
3rd Party	6%	10%	9%	3%	22%	6%	9%	18%	6%	0%	0%	55%	0%	0%	0%	0%	0%	0%	0%	0%	19%	0%	0%	25%
Equipment Failure	85%	83%	44%	19%	23%	25%	38%	45%	60%	34%	31%	19%	33%	40%	0%	99%	98%	0%	67%	59%	16%	46%	46%	15%
Operation	4%	2%	0%	27%	18%	0%	20%	8%	13%	0%	3%	0%	16%	25%	33%	1%	2%	0%	25%	16%	30%	5%	10%	22%
Other	3%	3%	35%	46%	30%	34%	4%	2%	9%	30%	26%	26%	0%	0%	0%	0%	0%	100%	3%	8%	11%	20%	15%	17%
Vegetation/Animal	0%	0%	12%	5%	7%	23%	11%	16%	0%	0%	0%	0%	50%	35%	67%	0%	0%	0%	4%	17%	18%	5%	10%	16%
Weather/Fire/Earthquake	2%	2%	0%	0%	0%	13%	18%	11%	12%	35%	39%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	23%	20%	5%
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 20 .	16	2nc	d Qtr 20	016	3rd	Qtr 201	.6	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI M	/AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
ARCTURUS(4.16KV) - Customers: 603	155.1	1.2	1.0	0.0	0.0	0.0	109.3	1.0	0.0	361.6	1.0	0.8	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.0	361.6	1.0	2.5
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	91%	89%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	1%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	27%
Other	9%	6%	100%	0%	0%	0%	0%	0%	0%	81%	18%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	81%	18%	73%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	100%	100%	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%	19%	82%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	82%	0%
BAUXITE(16KV) - Customers: 2,339	104.2	1.4	1.6	10.6	0.2	0.0	158.9	2.7	4.5	419.0	2.1	1.4	42.7	0.6	0.0	156.5	1.0	0.0	273.2	1.3	1.9	891.4	5.0	3.3
3rd Party	0%	0%	0%	58%	25%	0%	0%	0%	0%	0%	0%	70%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	31%
Equipment Failure	100%	100%	39%	0%	0%	0%	28%	53%	78%	72%	51%	30%	100%	100%	0%	100%	100%	0%	68%	78%	46%	77%	74%	39%
Operation	0%	0%	0%	42%	75%	0%	40%	9%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	32%	22%	0%	10%	6%	0%
Other	0%	0%	61%	0%	0%	0%	0%	0%	0%	28%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	13%	20%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	24%	37%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	54%	0%	0%	30%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CHICO(16KV) - Customers: 2,996	181.0	4.2	2.4	334.3	0.9	0.9	158.0	0.9	1.6	5.2	0.0	0.0	18.7	0.1	0.0	22.4	0.1	0.0	1.0	0.0	2.0	47.2	0.2	2.0
3rd Party	4%	15%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%	83%	50%	1%	1%	50%
Equipment Failure	76%	73%	41%	8%	16%	0%	34%	12%	59%	39%	39%	0%	0%	0%	0%	94%	78%	0%	0%	0%	0%	49%	26%	0%
Operation	1%	1%	0%	24%	12%	0%	22%	21%	0%	1%	1%	0%	100%	100%	0%	6%	22%	0%	56%	17%	50%	44%	66%	50%
Other	14%	8%	33%	68%	72%	100%	0%	0%	41%	60%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	7%	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	6%	3%	0%	0%	0%	0%	44%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
COVEVIEW (16KV) - Customers: 1,858	152.7	2.1	0.8	88.6	0.2	0.0	7.3	0.1	0.0	0.0	0.0	0.0	31.0	0.1	0.0	0.0	0.0	0.0	95.1	0.1	0.0	126.1	0.2	0.0
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	96%	95%	100%	100%	98%	0%	0%	0%	0%	0%	0%	0%	93%	83%	0%	0%	0%	0%	100%	100%	0%	98%	90%	0%
Operation	4%	5%	0%	0%	2%	0%	100%	100%	0%	0%	0%	0%	7%	17%	0%	0%	0%	0%	0%	0%	0%	2%	10%	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%

		2013			2014			2015		1st	Qtr 20	16	2nd	d Qtr 20	016	3rc	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	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
CRESTWIND(4.16KV) - Customers: 317	389.5	2.3	2.0	5.7	0.0	0.0	439.3	3.8	3.0	2019.4	2.5	1.0	69.3	1.0	0.0	85.5	1.0	0.0	77.4	1.2	2.0	2251.7	5.7	3.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%
Equipment Failure	100%	100%	49%	100%	100%	0%	30%	54%	67%	16%	60%	0%	100%	100%	0%	100%	100%	0%	19%	81%	50%	22%	79%	34%
Operation	0%	0%	0%	0%	0%	0%	55%	20%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	81%	19%	0%	3%	4%	0%
Other	0%	0%	51%	0%	0%	0%	0%	0%	0%	84%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	76%	17%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	15%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	33%
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%
JUPITER(4.16KV) - Customers: 726	322.8	2.9	1.0	0.0	0.0	1.0	0.0	0.0	0.0	87.3	1.0	0.0	22.2	0.1	0.0	1.5	0.0	1.0	0.7	0.0	0.0	111.7	1.2	1.0
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	97%	96%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	20%	12%	0%
Operation	3%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	2%	3%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	85%	0%
LILAC(4.16KV) - Customers: 501	50.9	1.0	3.0	224.4	1.0	1.0	0.0	0.0	0.0	756.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	756.6	1.0	0.0
3rd Party	16%	2%	33%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	84%	98%	0%	1%	2%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	67%	99%	98%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
MAJOR(4.16KV) - Customers: 839	61.0	2.1	1.0	31.2	0.2	0.8	3.5	0.1	1.0	564.8	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	49.7	1.0	0.0	614.5	3.0	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	95%	98%	100%	0%	0%	0%	94%	85%	0%	41%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	38%	32%	0%
Operation	5%	2%	0%	0%	0%	0%	6%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	1%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	57%	50%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	53%	33%	50%
Vegetation/Animal	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	98%	99%	0%	8%	33%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%

		2013			2014			2015		1st	Qtr 20	16	2nd	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 I	VIAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI
MALAGA COVE(4.16KV) - Customers: 452	190.0	2.5	0.0	299.2	0.3	1.0	0.0	0.0	0.0	742.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	742.5	1.0	0.0
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	96%	80%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	4%	20%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	100%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
PEACOCK(4.16KV) - Customers: 136	172.8	2.0	1.0	32.4	0.1	0.0	146.6	2.8	3.7	174.1	2.1	1.0	65.9	1.0	0.0	83.7	1.0	0.0	15.0	1.0	2.0	338.7	5.1	3.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	34%
Equipment Failure	100%	100%	0%	91%	55%	0%	58%	67%	74%	25%	52%	0%	100%	100%	0%	100%	100%	0%	100%	100%	50%	62%	80%	33%
Operation	0%	0%	0%	9%	45%	0%	0%	0%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	75%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	38%	20%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	42%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	33%
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%
PIMA(4.16KV) - Customers: 365	67.1	1.0	1.0	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	0.0	86.0	1.1	0.0	86.0	1.1	0.0
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%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	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%
PINZON(16KV) - Customers: 1,151	170.2	2.2	2.0	36.3	0.1	1.0	129.9	0.2	0.2	11.3	0.0	0.0	41.1	0.1	0.0	245.6	0.5	0.0	0.0	0.0	2.0	298.0	0.6	2.0
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	94%	95%	50%	0%	0%	0%	100%	100%	100%	60%	18%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	85%	81%	0%
Operation	6%	5%	0%	100%	100%	0%	0%	0%	0%	40%	82%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	4%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	50%
Vegetation/Animal	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	14%	15%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	50%

		2013			2014			2015		1st	Qtr 20	16	2nd	d Qtr 20	16	3rd	l Qtr 20	16	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
QUICKSILVER(16KV) - Customers: 1,759	192.7	2.3	4.2	85.6	1.5	0.8	225.7	4.8	1.4	387.1	1.9	0.0	145.4	1.0	0.0	0.2	0.0	0.0	0.9	0.0	1.0	533.6	2.9	1.0
3rd Party	36%	44%	0%	30%	65%	0%	40%	43%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	56%	52%	47%	8%	3%	0%	45%	53%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	24%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	100%	0%	0%	99%
Other	0%	0%	24%	0%	0%	0%	10%	2%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
Vegetation/Animal	1%	0%	29%	38%	12%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	27%	34%	0%
Weather/Fire/Earthquake	7%	4%	0%	0%	0%	0%	5%	1%	69%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	73%	65%	0%
TERRAZZO(4.16KV) - Customers: 855	72.0	1.0	0.0	84.2	1.1	1.2	12.1	0.1	0.0	3.8	0.0	0.0	34.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	1.0	0.0
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	94%	94%	0%	100%	100%	100%	33%	21%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	1%	0%
Operation	6%	6%	0%	0%	0%	0%	67%	79%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	90%	99%	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%
TYBURN(4.16KV) - Customers: 181	540.2	5.0	1.0	124.6	0.5	0.0	271.6	2.2	0.0	89.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.6	0.1	0.0
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%	44%	46%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Operation	0%	0%	0%	100%	100%	0%	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%	56%	54%	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%
VALMONTE(4.16KV) - Customers: 527	42.1	1.0	0.0	0.7	0.0	1.0	100.5	0.1	1.9	755.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	755.6	1.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	7%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	0%	0%	100%	0%	0%	0%	100%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	98%	0%
Operation	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	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%	93%	50%	50%	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 2016		4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MA	IFI S	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
VIOLET(4.16KV) - Customers: 457	186.4	2.0	0.0	2.0	0.0	0.0	31.7	1.1	1.0	28.0	1.0	0.0	22.3	0.2	0.0	0.0	0.0	0.0	6.4	0.0	0.0	56.7	1.3	0.0
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	30%	89%	0%	63%	46%	0%	14%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	43%	14%	0%	5%	0%	0%
Operation	70%	11%	0%	37%	54%	0%	2%	3%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	57%	86%	0%	95%	100%	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%	84%	94%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%