



Circuit Reliability Review

Ventura District 1

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](https://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 Ventura District

Camarillo

Channel Islands Beach

El Rio

Fillmore

Meiners Oaks

Mira Monte

Oak View

Ojai

Oxnard

Port Hueneme

San Buenaventura (Ventura)

Santa Paula

Ventura

Reliability by SCE District (No Exclusions)

District Name	2012				2013				2014				2015				2016			
	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	SAIFI Ranking	District SAIDI	SAIDI RANKING	District SAIFI	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	

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.

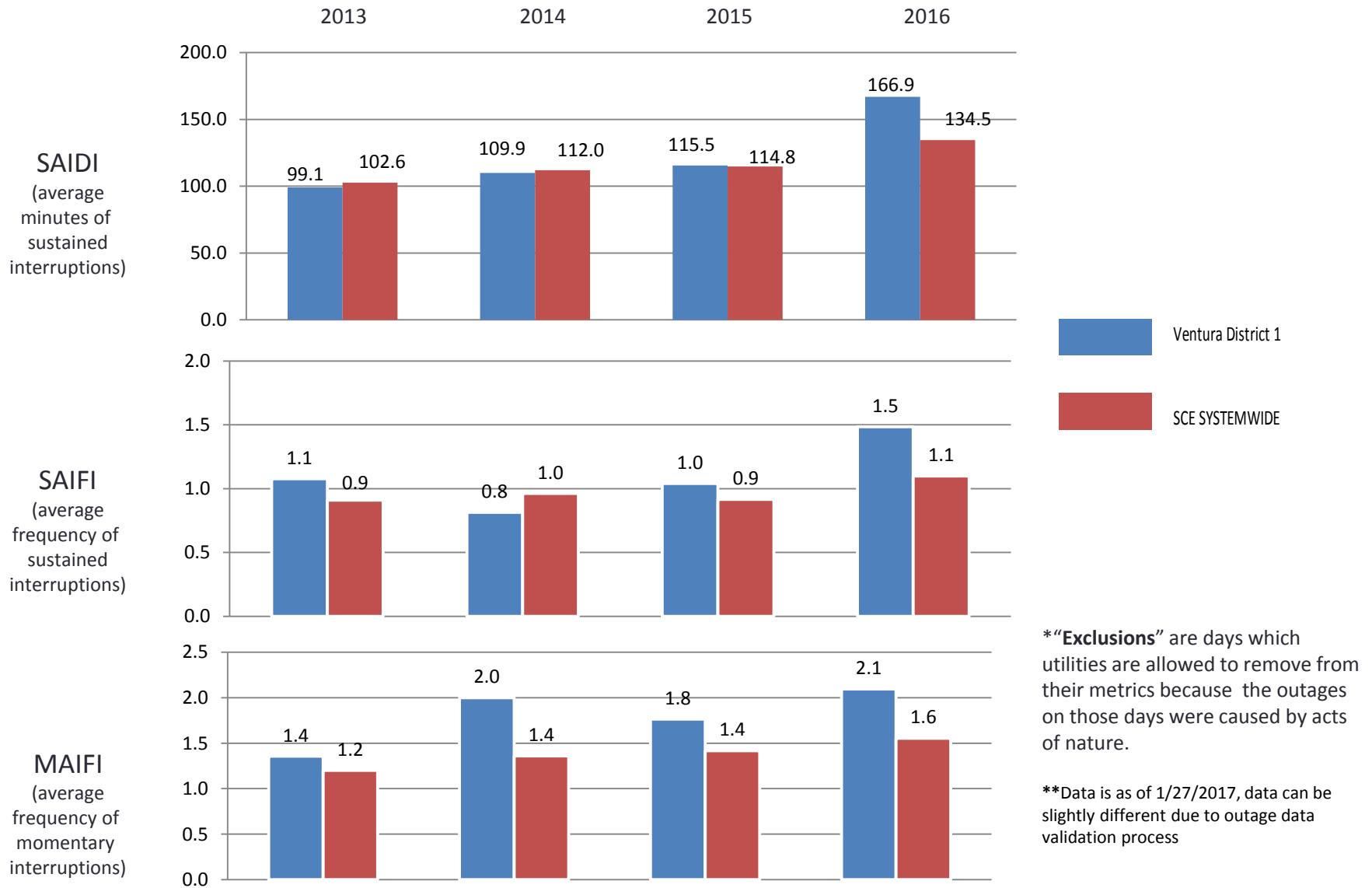
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Ventura District 1

There are 30 circuits that serve Ventura District 1

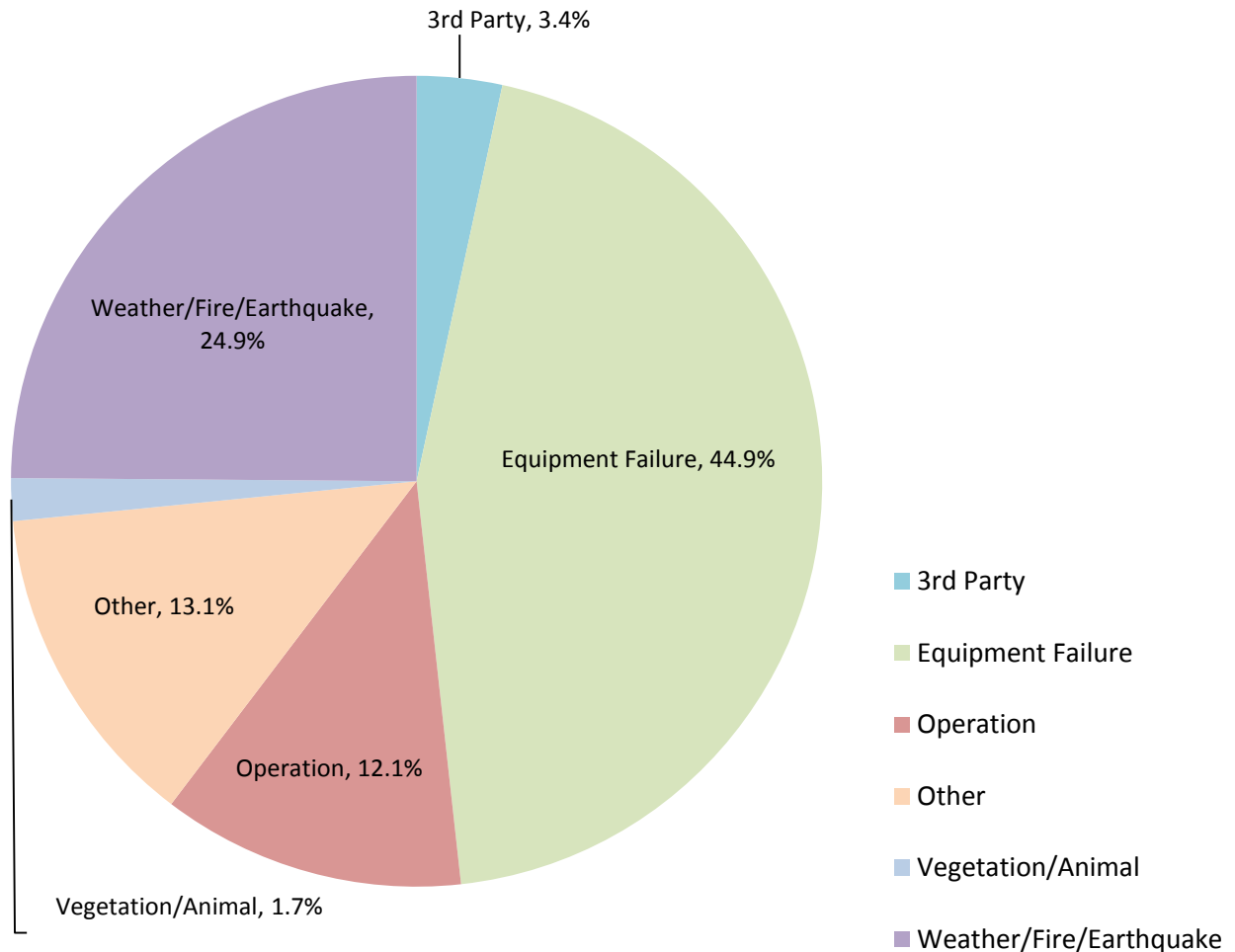
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
ALFREDO(16KV)	1,216						
ALVARADO(16KV)	2,311						
BUCKAROO(16KV)	2,417						
CANET(16KV)	3,714						
CARNEGIE(16KV)	4,355						
CASTRO(16KV)	2,421						
CISCO(16KV)	318						
CUYAMA(12KV)	140						
DIABLO(16KV)	4,175						
ELAINE(2.4KV)	33						
GRANDAD(16KV)	25						
GRINGO(16KV)	4,510						
HIGHWAY(16KV)	5,000						
MALOY(16KV)	1,013						
MATILIJIA(16KV)	1,942						
MAXSON(16KV)	3,309						
MIDDLE ROAD(16KV)	1,148						
PATRICIA(16KV)	2,606						
PEARCE(4.16KV)	591						
PEDRO(16KV)	684						
RED MOUNTAIN(16KV)	358						
RICARDO(16KV)	2,686						
RIVA(16KV)	3,198						
SALVADOR(16KV)	2,606						
SAN NICHOLAS(16KV)	3,280						
SEACLIFF(16KV)	1,186						
SEXTON(16KV)	3,523						
THACHER(16KV)	2,222						
TICO(16KV)	2,004						
VINEYARD(16KV)	4,892						
Grand Total	67,883						

Reliability History of Circuits Serving Ventura District 1 (No Exclusions)



Causes of Repair Outages in Ventura District 1 Circuits 2016 YTD

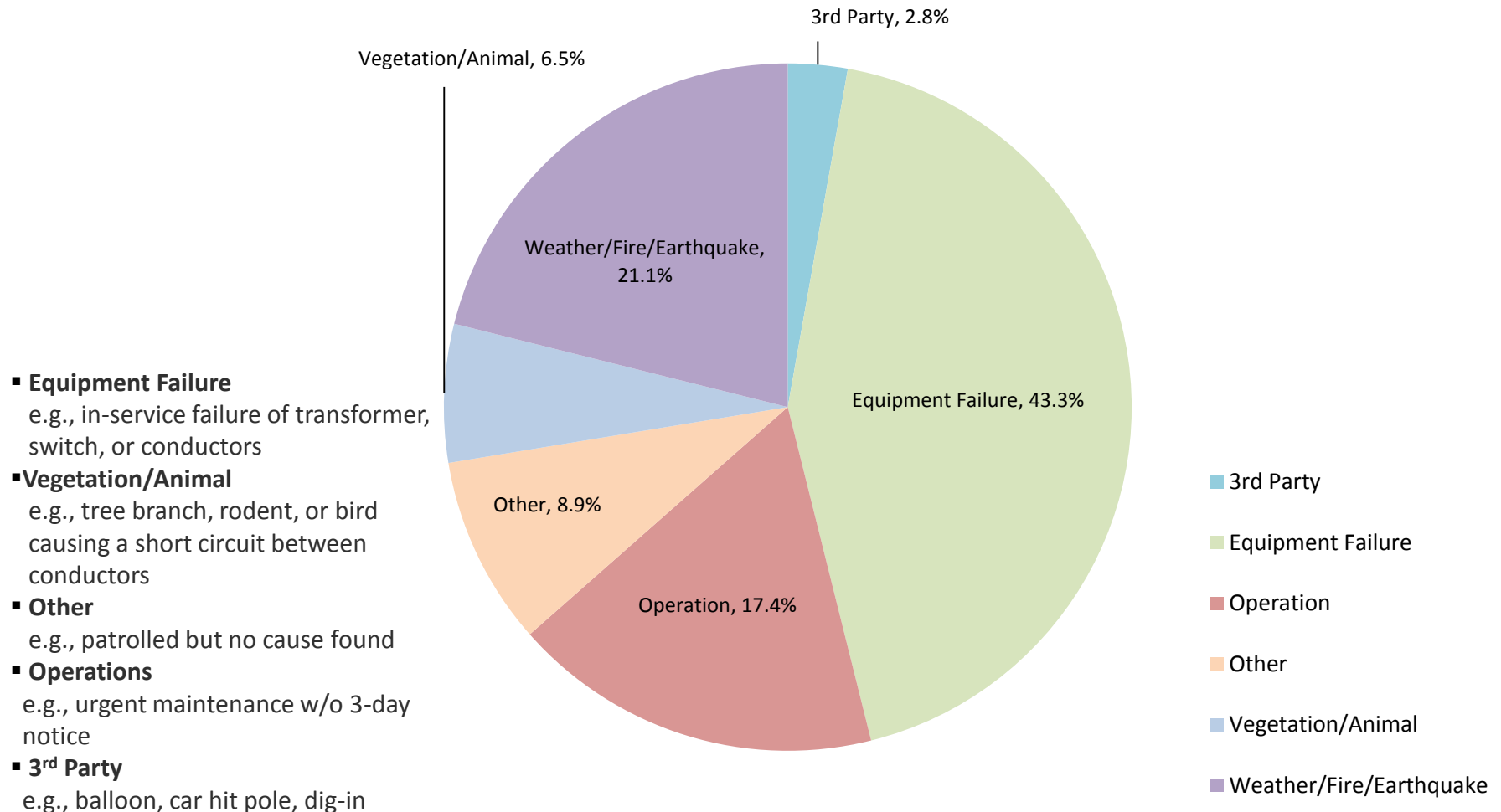
Contributions to SAIDI by Outage Cause



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

Causes of Repair Outages in Ventura District 1 Circuits 2016 YTD

Contributions to SAIFI by Outage Cause



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

Back-up Slides

Reliability Histories of Circuits Serving Ventura District 1

Updated through Year-End 2016

Average Reliability of 30 Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
Ventura District 1	99.1	1.1	1.4	109.9	0.8	2.0	115.5	1.0	1.8	81.0	0.6	0.6	26.2	0.3	0.4	26.9	0.3	0.5	32.8	0.4	0.5	166.9	1.5	2.1
3rd Party	7%	6%	7%	21%	40%	15%	4%	7%	9%	3%	2%	9%	10%	10%	20%	2%	1%	2%	0%	0%	0%	3%	3%	7%
Equipment Failure	64%	43%	24%	38%	26%	21%	64%	53%	36%	26%	23%	14%	75%	71%	24%	59%	51%	57%	57%	48%	19%	45%	43%	28%
Operation	14%	26%	6%	32%	21%	5%	7%	6%	4%	8%	23%	5%	2%	2%	0%	14%	6%	12%	28%	30%	2%	12%	17%	5%
Other	5%	7%	23%	3%	2%	15%	7%	9%	24%	19%	11%	15%	8%	10%	56%	0%	0%	18%	12%	12%	45%	13%	9%	32%
Vegetation/Animal	5%	8%	35%	0%	0%	30%	2%	3%	21%	0%	0%	13%	0%	0%	0%	9%	20%	0%	1%	10%	20%	2%	7%	9%
Weather/Fire/Earthquake	5%	10%	6%	6%	10%	14%	17%	22%	5%	44%	41%	44%	4%	7%	0%	16%	22%	12%	2%	0%	14%	25%	21%	19%
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.

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
ALFREDO(16KV) - Customers: 1,216	0.0	0.0	1.0	59.6	1.1	0.2	94.3	1.1	1.0	0.0	0.0	0.0	76.4	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	1.0	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	0%	0%	0%	100%	100%	100%	99%	98%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Operation	0%	0%	0%	0%	0%	0%	1%	2%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	0%	0%	100%	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%
ALVARADO(16KV) - Customers: 2,311	23.4	0.2	1.0	173.3	2.2	3.0	31.1	1.0	2.0	10.1	0.1	0.0	40.5	0.3	0.2	21.7	0.1	0.0	18.7	0.2	1.0	91.0	0.7	1.2
3rd Party	0%	0%	0%	52%	91%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	98%	99%	0%	48%	9%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	91%	80%	0%	63%	73%	18%
Operation	0%	0%	0%	0%	0%	0%	0%	1%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	9%	20%	0%	37%	27%	0%
Other	2%	1%	0%	0%	0%	0%	100%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	82%
Vegetation/Animal	0%	0%	100%	0%	0%	67%	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%
BUCKAROO(16KV) - Customers: 2,417	90.0	1.1	2.0	73.5	0.4	2.1	59.8	0.7	7.3	228.2	1.2	1.0	0.0	0.0	0.0	2.3	0.0	0.0	15.4	0.0	0.0	245.9	1.2	1.0
3rd Party	0%	0%	0%	31%	25%	48%	20%	24%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	77%	93%	0%	27%	31%	0%	45%	45%	23%	11%	9%	0%	0%	0%	0%	0%	0%	0%	46%	36%	0%	13%	10%	0%
Operation	23%	7%	0%	15%	6%	3%	18%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	28%	26%	0%	2%	1%	0%
Other	0%	0%	50%	2%	2%	0%	17%	24%	39%	87%	90%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	81%	88%	0%
Vegetation/Animal	0%	0%	50%	0%	0%	48%	0%	0%	14%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Weather/Fire/Earthquake	0%	0%	0%	26%	37%	0%	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	27%	38%	0%	4%	1%	0%
CANET(16KV) - Customers: 3,714	585.3	4.9	4.0	145.6	0.1	1.0	151.6	1.9	2.6	14.8	0.1	0.0	51.3	0.1	0.9	32.1	1.0	1.1	236.3	1.0	0.2	334.6	2.2	2.1
3rd Party	6%	2%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	44%
Equipment Failure	77%	57%	73%	5%	10%	0%	51%	43%	12%	4%	5%	0%	88%	71%	0%	0%	0%	0%	100%	100%	100%	84%	51%	7%
Operation	5%	20%	4%	95%	90%	0%	2%	1%	0%	96%	96%	0%	12%	29%	0%	8%	3%	0%	0%	0%	0%	7%	5%	0%
Other	0%	0%	0%	0%	0%	0%	16%	4%	38%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	49%
Vegetation/Animal	12%	21%	0%	0%	0%	0%	0%	0%	38%	0%	0%	0%	0%	0%	0%	92%	97%	0%	0%	0%	0%	9%	44%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	100%	31%	52%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
CARNEGIE(16KV) - Customers: 4,355	43.8	2.5	0.6	132.5	1.1	2.3	72.4	0.6	2.0	70.4	0.2	1.0	4.6	0.1	0.0	14.4	0.2	0.0	103.3	0.7	1.2	192.7	1.1	2.2
3rd Party	0%	0%	0%	0%	0%	0%	40%	58%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	45%	42%	0%	45%	69%	54%	30%	19%	1%	20%	26%	1%	16%	3%	0%	0%	0%	0%	7%	6%	84%	11%	8%	46%
Operation	5%	0%	0%	45%	22%	0%	19%	9%	0%	0%	0%	0%	0%	0%	0%	25%	15%	0%	72%	84%	16%	40%	58%	9%
Other	1%	0%	0%	9%	9%	1%	0%	0%	50%	10%	24%	0%	40%	77%	0%	0%	0%	0%	21%	10%	0%	16%	14%	0%
Vegetation/Animal	16%	15%	100%	0%	0%	44%	0%	0%	49%	0%	0%	0%	0%	0%	0%	75%	85%	0%	0%	0%	0%	6%	13%	0%
Weather/Fire/Earthquake	34%	42%	0%	0%	0%	1%	10%	15%	0%	70%	51%	99%	44%	20%	0%	0%	0%	0%	0%	0%	0%	27%	8%	45%
CASTRO(16KV) - Customers: 2,421	128.2	1.0	5.1	48.6	0.2	0.1	41.0	0.1	0.1	27.9	0.2	1.2	2.7	0.0	0.0	0.0	0.0	0.0	25.7	0.2	1.0	56.4	0.5	2.2
3rd Party	0%	0%	2%	11%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	24%	4%	38%	2%	1%	0%	95%	80%	7%	83%	43%	14%	6%	6%	0%	0%	0%	0%	4%	4%	0%	43%	24%	7%
Operation	0%	0%	0%	28%	20%	0%	0%	0%	0%	17%	57%	0%	85%	91%	0%	0%	0%	0%	33%	90%	0%	28%	73%	0%
Other	0%	0%	21%	0%	0%	100%	0%	0%	93%	0%	0%	0%	9%	3%	0%	0%	0%	0%	23%	1%	0%	11%	1%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	2%	11%	0%	0%	0%	86%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	93%
Weather/Fire/Earthquake	76%	96%	38%	59%	47%	0%	3%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	5%	0%	18%	2%	0%
CISCO(16KV) - Customers: 318	10.2	0.0	1.0	27.5	0.3	0.0	96.5	1.0	0.0	22.1	0.1	0.0	0.0	0.0	1.0	70.0	1.2	0.3	0.0	0.0	0.0	92.1	1.3	1.3
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	0%	0%	0%	84%	78%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	76%	92%	24%
Operation	100%	100%	0%	0%	0%	0%	82%	98%	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%	94%	77%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	22%	6%	76%
Vegetation/Animal	0%	0%	100%	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%	16%	22%	0%	18%	2%	0%	6%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%
CUYAMA(12KV) - Customers: 140	201.5	1.0	5.0	380.1	1.7	7.7	690.8	1.1	4.0	923.9	2.0	0.0	136.3	0.7	1.0	0.0	0.0	1.0	2.4	0.0	0.0	1062.6	2.7	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	0%	0%	0%	1%	0%	0%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	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	100%	100%	100%	99%	100%	100%	72%	65%	100%	100%	100%	0%	100%	100%	100%	0%	0%	100%	0%	0%	0%	100%	100%	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%	24%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
DIABLO(16KV) - Customers: 4,175	150.6	1.1	1.1	15.6	0.1	1.0	21.0	0.2	0.0	53.1	0.1	0.0	2.4	0.0	1.0	23.8	1.0	2.1	47.8	0.8	0.0	127.1	2.0	3.1
3rd Party	59%	85%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	25%	7%	0%	95%	95%	100%	13%	3%	0%	34%	24%	0%	100%	100%	0%	91%	99%	6%	0%	0%	0%	33%	52%	4%
Operation	9%	6%	0%	5%	5%	0%	36%	42%	0%	66%	76%	0%	0%	0%	0%	2%	0%	47%	93%	92%	0%	63%	44%	32%
Other	6%	2%	0%	0%	0%	0%	11%	14%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	7%	8%	0%	3%	3%	32%
Vegetation/Animal	0%	0%	92%	0%	0%	0%	36%	38%	0%	0%	0%	0%	0%	0%	0%	6%	1%	0%	0%	0%	0%	1%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	47%	0%	0%	0%	0%	0%	32%
ELAINE(2.4KV) - Customers: 33	7.0	1.0	1.0	59.2	1.0	3.0	161.5	1.0	0.0	356.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	356.5	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	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	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	100%	100%	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%	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%	33%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GRANDAD(16KV) - Customers: 25	88.5	1.2	0.0	425.6	1.0	1.5	1162.8	1.6	1.6	0.0	0.0	0.0	258.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.1	2.1	0.0
3rd Party	0%	0%	0%	82%	50%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	87%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	10%	57%	0%	18%	50%	0%	74%	37%	36%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	4%	3%	0%	0%	0%	66%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	64%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	26%	63%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GRINGO(16KV) - Customers: 4,510	98.6	1.3	1.9	137.6	1.2	1.3	96.6	0.7	0.3	63.2	0.7	0.3	24.4	0.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	87.6	1.4	2.0
3rd Party	0%	0%	0%	50%	85%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	55%	19%	0%	21%	9%	75%	95%	96%	100%	0%	0%	0%	100%	100%	41%	0%	0%	0%	0%	0%	0%	28%	48%	34%
Operation	2%	6%	0%	29%	6%	0%	5%	4%	0%	11%	91%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	47%	17%
Other	42%	75%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	59%	0%	0%	0%	0%	0%	0%	0%	0%	49%
Vegetation/Animal	0%	0%	53%	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%	89%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	64%	5%	0%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
HIGHWAY(16KV) - Customers: 5,000	112.0	1.3	0.0	65.1	0.2	1.0	230.4	3.0	2.0	160.3	2.0	2.0	17.7	0.0	0.0	31.6	0.1	0.0	1.9	0.0	2.0	211.5	2.2	4.0
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	55%	19%	100%	48%	65%	0%	78%	66%	100%	1%	0%	0%	100%	100%	0%	84%	61%	0%	0%	0%	0%	22%	5%	0%
Operation	41%	78%	0%	52%	35%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	16%	39%	0%	71%	87%	0%	3%	2%	0%
Other	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	25%
Vegetation/Animal	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	2%	2%	0%	0%	0%	0%	21%	34%	0%	99%	100%	100%	0%	0%	0%	0%	0%	0%	29%	13%	50%	75%	94%	75%
MALLOY(16KV) - Customers: 1,013	0.0	0.0	0.0	68.9	0.3	1.2	270.1	2.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	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	0%	0%	0%	0%	0%	0%	63%	73%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	100%	100%	17%	37%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	61%	50%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	39%	50%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	83%	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%
MATILIJIA(16KV) - Customers: 1,942	11.7	0.1	1.0	8.3	0.0	1.0	24.8	0.7	1.9	155.2	0.8	1.2	146.0	0.7	0.0	128.5	1.2	0.0	11.2	0.9	0.1	441.0	3.6	1.4
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	19%	4%	100%	0%	0%	0%	100%	100%	100%	96%	93%	100%	92%	89%	0%	0%	0%	0%	0%	0%	0%	64%	38%	90%
Operation	0%	0%	0%	95%	80%	0%	0%	0%	0%	4%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%
Other	81%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	11%	0%	0%	0%	0%	24%	4%	0%	3%	3%	0%
Vegetation/Animal	0%	0%	0%	5%	20%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	76%	96%	100%	2%	24%	10%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	29%	34%	0%
MAXSON(16KV) - Customers: 3,309	18.2	0.7	1.0	125.7	1.2	1.0	14.1	0.1	0.1	4.1	0.0	0.2	0.0	0.0	0.0	60.5	0.1	1.0	17.7	0.1	0.0	82.3	0.2	1.2
3rd Party	1%	0%	100%	47%	83%	0%	2%	2%	0%	53%	85%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	18%	11%
Equipment Failure	7%	1%	0%	52%	17%	0%	19%	11%	0%	4%	1%	33%	0%	0%	0%	98%	83%	100%	2%	4%	0%	72%	23%	88%
Operation	88%	99%	0%	1%	0%	0%	60%	58%	0%	0%	0%	0%	0%	0%	0%	2%	17%	0%	98%	96%	100%	23%	56%	2%
Other	4%	1%	0%	0%	0%	0%	19%	29%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	1%	0%	0%	0%	0%	100%	0%	0%	0%	9%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	34%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
MIDDLE ROAD(16KV) - Customers: 1,14	79.1	1.0	2.3	358.6	3.5	6.1	108.0	0.8	0.5	176.6	1.5	2.4	213.8	2.4	2.1	4.6	0.0	1.0	0.0	0.0	0.0	395.0	4.0	5.6
3rd Party	0%	0%	0%	13%	28%	0%	2%	1%	0%	0%	0%	0%	58%	56%	100%	0%	0%	0%	0%	0%	0%	32%	34%	38%
Equipment Failure	71%	75%	59%	18%	32%	33%	8%	2%	0%	73%	65%	81%	42%	44%	0%	100%	100%	100%	0%	0%	0%	56%	52%	53%
Operation	7%	5%	41%	51%	10%	15%	21%	13%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	19%	25%	10%	0%	27%	35%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	13%	8%
Vegetation/Animal	0%	1%	0%	0%	0%	16%	44%	73%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	22%	19%	0%	17%	30%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PATRICIA(16KV) - Customers: 2,606	102.1	1.1	1.0	60.1	0.7	3.3	131.1	0.7	4.6	87.5	0.5	0.0	25.4	0.5	0.0	15.8	0.1	1.0	53.8	1.1	1.0	182.6	2.2	2.0
3rd Party	0%	0%	0%	0%	0%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	83%	85%	5%	0%	0%	0%	7%	2%	2%
Equipment Failure	94%	92%	3%	45%	32%	21%	54%	37%	9%	3%	1%	0%	0%	0%	0%	3%	2%	0%	100%	99%	0%	31%	49%	0%
Operation	3%	5%	0%	16%	7%	0%	0%	0%	44%	0%	0%	0%	0%	0%	0%	14%	13%	0%	0%	1%	0%	1%	1%	0%
Other	0%	0%	50%	0%	0%	15%	0%	0%	1%	54%	6%	0%	0%	0%	0%	0%	0%	95%	0%	0%	0%	26%	2%	49%
Vegetation/Animal	3%	4%	46%	0%	0%	30%	9%	7%	33%	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	100%	0%	0%	49%
Weather/Fire/Earthquake	0%	0%	0%	38%	60%	18%	36%	56%	13%	43%	93%	0%	98%	99%	0%	0%	0%	0%	0%	0%	0%	35%	46%	0%
PEARCE(4.16KV) - Customers: 591	0.0	0.0	0.0	0.0	0.0	2.0	36.2	0.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	1.0	0.0	0.0	0.0	3.3	0.0	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%
Equipment Failure	0%	0%	0%	0%	0%	0%	64%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	36%	54%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Other	0%	0%	0%	0%	0%	50%	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%	50%	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%
PEDRO(16KV) - Customers: 684	102.8	1.1	1.7	93.5	1.6	1.1	33.1	1.0	1.0	84.8	0.0	1.9	84.2	2.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	169.1	2.2	4.7
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%
Equipment Failure	100%	100%	41%	100%	100%	100%	4%	0%	0%	0%	0%	0%	100%	100%	63%	0%	0%	0%	0%	0%	0%	50%	98%	37%
Operation	0%	0%	0%	0%	0%	0%	10%	2%	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%	95%	100%	100%	49%	0%	0%	37%	0%	0%	0%	0%	0%	0%	50%	2%	42%
Vegetation/Animal	0%	0%	59%	0%	0%	0%	86%	98%	5%	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%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
RED MOUNTAIN(16KV) - Customers: 35	118.4	1.2	0.1	368.0	2.8	2.1	214.0	1.2	1.0	253.8	0.6	0.9	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	272.2	0.6	0.9
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%	73%	100%	0%	0%	0%	0%	0%	0%	84%	47%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	45%	100%
Operation	0%	0%	0%	29%	26%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	2%	27%	0%	47%	32%	53%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	7%	3%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	25%	42%	47%	100%	100%	0%	16%	53%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	52%	0%
RICARDO(16KV) - Customers: 2,686	10.0	0.0	1.0	15.1	0.1	4.1	33.1	0.1	2.0	73.8	0.1	1.9	15.4	0.1	1.0	6.3	0.0	0.0	6.9	0.0	0.0	102.5	0.3	2.8
3rd Party	0%	0%	0%	8%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	12%	21%	0%	58%	15%	49%	87%	63%	100%	4%	4%	0%	60%	66%	0%	0%	0%	0%	95%	67%	0%	19%	32%	0%
Operation	24%	23%	0%	33%	80%	2%	13%	37%	0%	1%	26%	0%	0%	0%	0%	59%	49%	0%	5%	33%	0%	5%	22%	0%
Other	65%	56%	0%	0%	0%	25%	0%	0%	0%	95%	69%	100%	40%	34%	100%	0%	0%	0%	0%	0%	0%	74%	39%	100%
Vegetation/Animal	0%	0%	100%	0%	0%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	41%	51%	0%	0%	0%	0%	2%	7%	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%
RIVA(16KV) - Customers: 3,198	92.5	0.7	1.4	224.9	1.2	4.3	278.0	1.4	2.6	0.0	0.0	0.0	11.3	0.1	0.0	42.0	0.2	0.4	41.7	0.7	1.0	95.0	1.0	1.4
3rd Party	0%	0%	0%	48%	25%	12%	0%	0%	38%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	12%	8%	0%
Equipment Failure	66%	26%	0%	42%	40%	8%	90%	75%	24%	0%	0%	0%	0%	0%	0%	81%	59%	88%	0%	0%	0%	36%	10%	24%
Operation	33%	73%	0%	2%	2%	0%	5%	18%	0%	0%	0%	0%	0%	0%	0%	15%	15%	0%	0%	0%	0%	6%	3%	0%
Other	1%	1%	97%	1%	2%	32%	4%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	44%	74%	73%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	3%	6%	31%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	26%	12%	0%	0%	0%	2%	5%	3%
SALVADOR(16KV) - Customers: 2,606	135.4	0.3	1.0	0.0	0.0	1.0	191.4	2.1	0.6	0.0	0.0	0.0	0.1	0.0	1.0	0.0	0.0	0.0	26.9	0.4	0.8	27.0	0.4	1.8
3rd Party	0%	0%	0%	0%	0%	100%	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%	94%	90%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	97%	98%	100%	96%	98%	43%
Operation	0%	0%	0%	0%	0%	0%	6%	10%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	3%	2%	0%	4%	2%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	57%
Vegetation/Animal	0%	0%	100%	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%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
SAN NICHOLAS(16KV) - Customers: 3,2	32.0	1.2	0.1	12.6	0.2	3.8	159.2	2.2	4.9	0.3	0.0	0.0	1.0	0.0	0.1	0.3	0.0	0.0	39.3	1.1	1.0	41.0	1.1	1.1
3rd Party	0%	0%	0%	85%	92%	21%	31%	46%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	1%	0%	41%	100%	100%	0%	0%	0%	0%	0%	0%	0%	94%	96%	0%	91%	95%	0%
Operation	100%	100%	100%	11%	5%	0%	2%	4%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	6%	4%	0%	9%	5%	0%
Other	0%	0%	0%	0%	0%	26%	1%	0%	21%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	4%	3%	26%	0%	0%	21%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	26%	66%	49%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SEACLIFF(16KV) - Customers: 1,186	52.6	0.2	0.6	313.4	1.0	2.3	62.8	0.3	3.2	348.6	1.3	1.7	49.3	1.1	0.0	22.1	0.1	0.1	2.9	0.0	0.0	422.9	2.5	1.8
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	10%	6%	45%	96%	85%	0%	7%	2%	31%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	1%	0%
Operation	40%	16%	0%	1%	7%	0%	1%	2%	0%	0%	0%	0%	0%	0%	0%	93%	90%	0%	100%	100%	0%	6%	6%	0%
Other	43%	64%	41%	0%	0%	98%	21%	49%	7%	0%	0%	0%	99%	100%	0%	7%	10%	100%	0%	0%	0%	12%	43%	8%
Vegetation/Animal	6%	14%	14%	0%	0%	0%	43%	24%	62%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	4%	8%	2%	28%	23%	0%	97%	98%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	80%	50%	92%
SEXTON(16KV) - Customers: 3,523	1.8	0.0	1.0	212.2	1.8	1.0	263.9	2.0	1.5	224.3	1.5	0.0	0.0	0.0	0.0	15.2	0.1	0.0	0.0	0.0	0.0	239.5	1.6	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	0%	0%	0%	6%	8%	0%	77%	74%	34%	52%	87%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	55%	88%	0%
Operation	100%	100%	100%	94%	92%	0%	2%	1%	0%	7%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	3%	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%	100%	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%	21%	24%	66%	41%	11%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	39%	10%	0%
THACHER(16KV) - Customers: 2,222	25.7	0.4	4.3	88.9	0.8	2.8	32.9	0.2	1.7	26.8	0.0	0.1	151.2	1.6	1.0	127.5	1.1	3.0	6.1	0.4	1.8	311.5	3.1	5.8
3rd Party	5%	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	0%	0%	0%	71%	14%	3%	12%	6%	64%	21%	33%	0%	97%	99%	100%	100%	100%	100%	48%	10%	0%	91%	88%	68%
Operation	8%	12%	0%	18%	36%	0%	15%	15%	0%	8%	19%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
Other	1%	1%	29%	0%	0%	51%	42%	56%	34%	0%	0%	13%	2%	1%	0%	0%	0%	0%	0%	0%	57%	1%	0%	17%
Vegetation/Animal	85%	87%	71%	0%	0%	0%	15%	4%	0%	0%	0%	87%	0%	0%	0%	0%	0%	0%	52%	90%	43%	1%	11%	15%
Weather/Fire/Earthquake	0%	0%	0%	11%	50%	46%	15%	20%	2%	71%	48%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	6%	1%	0%

Reliability Histories for Individual Circuits Serving Ventura District 1

	2013			2014			2015			1st Qtr 2016			2nd Qtr 2016			3rd Qtr 2016			4th Qtr 2016			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
TICO(16KV) - Customers: 2,004	23.3	0.1	1.0	22.7	3.3	3.6	69.5	1.0	1.0	212.2	0.9	1.9	4.0	0.1	0.0	147.7	2.1	1.5	2.6	0.0	0.0	366.6	3.1	3.4
3rd Party	0%	0%	0%	81%	95%	72%	0%	0%	0%	37%	43%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	22%	12%	37%
Equipment Failure	54%	57%	0%	1%	0%	28%	6%	1%	0%	3%	0%	0%	0%	0%	0%	60%	47%	100%	100%	100%	0%	27%	34%	45%
Operation	43%	35%	0%	1%	1%	0%	0%	1%	0%	1%	1%	0%	73%	85%	0%	31%	5%	0%	0%	0%	0%	14%	6%	0%
Other	1%	2%	100%	3%	0%	0%	93%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	2%	6%	0%	1%	0%	0%	0%	0%	100%	0%	0%	0%	27%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	13%	3%	0%	0%	0%	0%	58%	55%	33%	0%	0%	0%	9%	47%	0%	0%	0%	0%	38%	48%	18%
VINEYARD(16KV) - Customers: 4,892	155.6	1.3	0.5	132.8	0.4	2.0	106.7	0.3	0.0	49.2	0.9	0.1	0.0	0.0	0.0	0.4	0.0	1.0	0.1	0.0	0.0	49.8	0.9	1.1
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	79%	81%	100%	86%	28%	0%	89%	92%	0%	60%	5%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	59%	5%	89%
Operation	21%	19%	0%	14%	72%	50%	0%	0%	0%	40%	95%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	40%	94%	11%
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%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	1%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	11%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%