

Circuit Reliability Review **Desert Hot Springs**

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 Palm Springs District

Banning

Bermuda Dunes

Cabazon

Cathedral City

Desert Hot Springs

Indian Wells

Morongo Valley

Palm Desert

Palm Springs

Rancho Mirage

Thousand Palms

Whitewater Canyon

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.

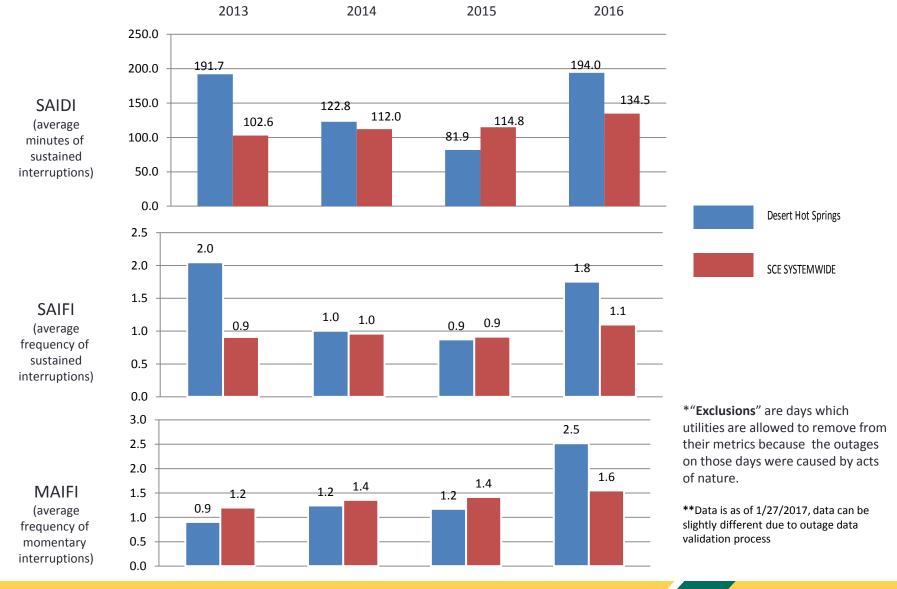
^{**}In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Desert Hot Springs There are 14 circuits that serve Desert Hot Springs

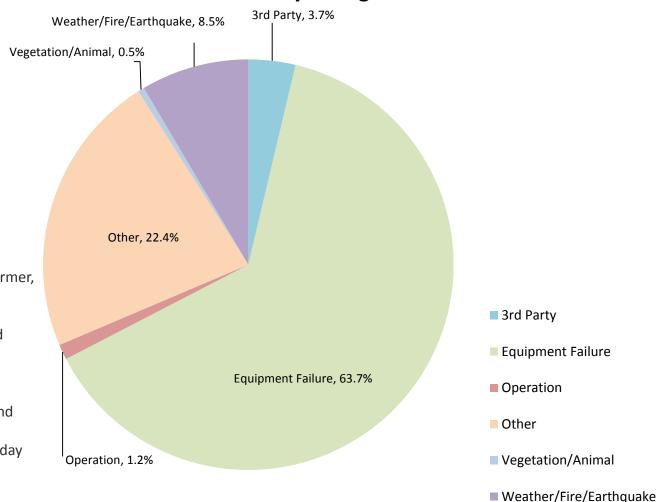
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
AVENTURA(12KV)	1,882						
BLEND(12KV)	2,265						
CAFE(12KV)	2,003						
COACHELLA(33KV)	2						
ESPRESSO(12KV)	2,071						
INVADER(12KV)	692						
KONA(12KV)	1,442						
MAXIM(12KV)	2,176						
PALMVIEW(33KV)	1						
ROVER(12KV)	1,712						
SAN RAFAEL(12KV)	1,212						
SKYBORNE(12KV)	220						
TOWNHALL(33KV)	8						
YUBAN(12KV)	1,546						

Grand Total 17,232

Reliability History of Circuits Serving Desert Hot Springs (No Exclusions)



Causes of Repair Outages in Desert Hot Springs 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

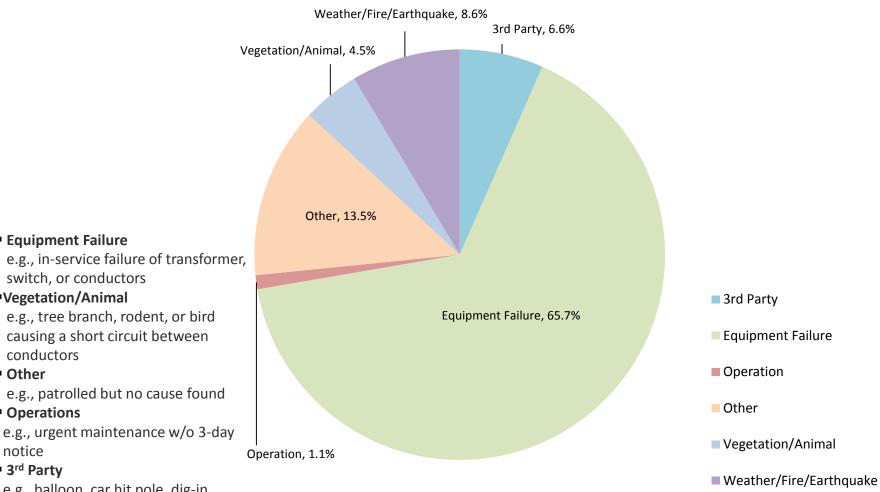
■ 3rd Party

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 Desert Hot Springs 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

conductors

Operations

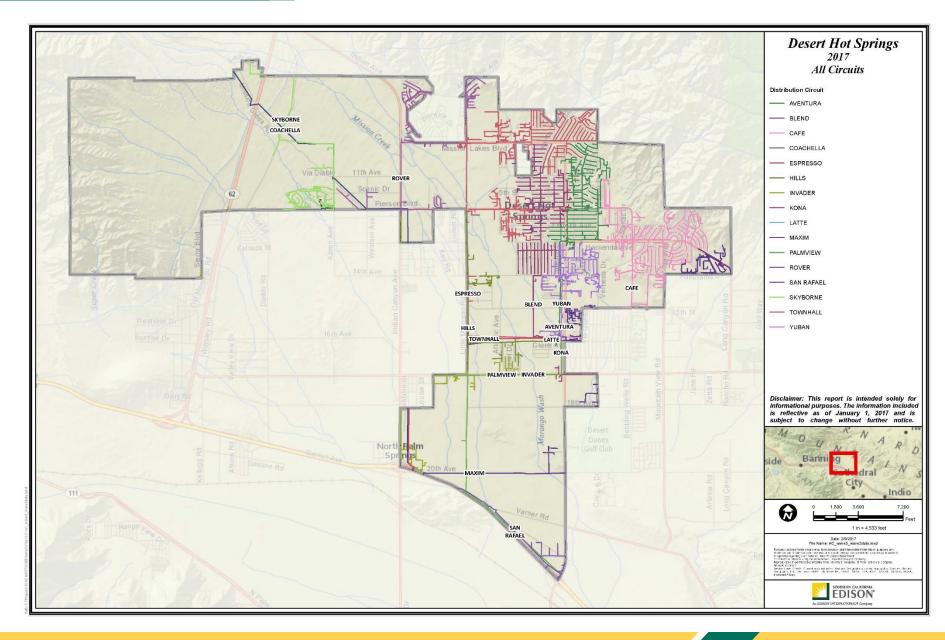
Other

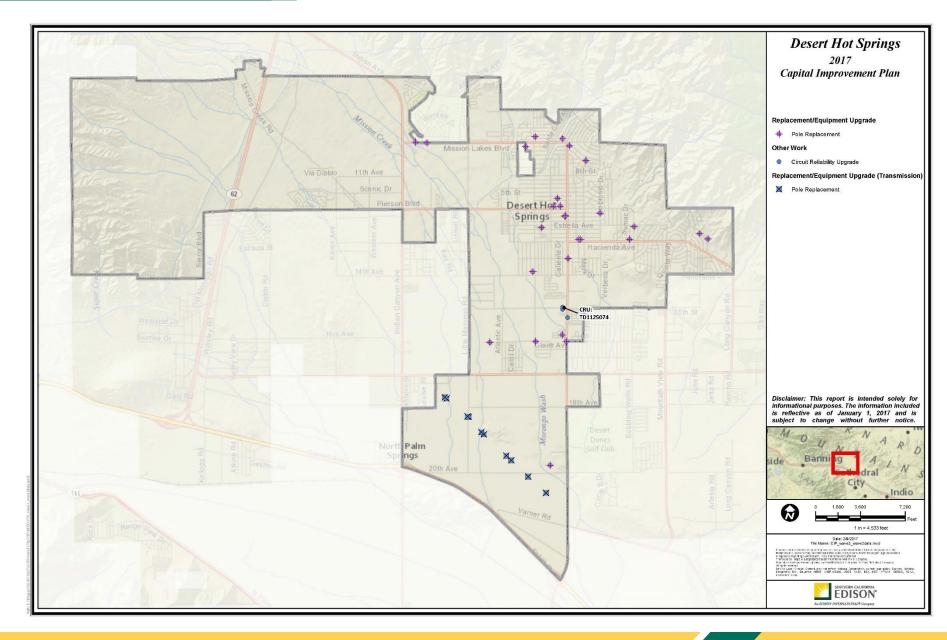
notice

■ 3rd Party

switch, or conductors ■Vegetation/Animal

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





Back-up Slides

Reliability Histories of Circuits Serving Desert Hot Springs

Updated through Year-End 2016

Average Reliability of 14 Circuits Serving Desert Hot Springs

		2013	•		2014			2015		1st	Qtr 20	16	2nc	d Qtr 20	016	3ra	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 I	MAIFI
Desert Hot Springs	191.7	2.0	0.9	122.8	1.0	1.2	81.9	0.9	1.2	103.1	0.8	1.1	18.7	0.2	0.2	26.0	0.4	0.2	46.2	0.3	1.0	194.0	1.8	2.5
3rd Party	33%	13%	0%	25%	8%	18%	55%	52%	36%	0%	0%	11%	38%	46%	0%	0%	0%	0%	0%	0%	4%	4%	7%	6%
Equipment Failure	21%	12%	0%	25%	27%	14%	31%	31%	25%	56%	58%	12%	54%	51%	5%	79%	77%	0%	77%	86%	23%	64%	66%	15%
Operation	6%	15%	8%	31%	29%	5%	4%	2%	3%	1%	1%	0%	2%	2%	47%	4%	1%	14%	0%	0%	0%	1%	1%	6%
Other	29%	48%	82%	13%	34%	51%	3%	6%	23%	37%	27%	22%	6%	2%	47%	15%	4%	33%	0%	0%	62%	22%	13%	41%
Vegetation/Animal	0%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	18%	53%	0%	0%	0%	0%	5%	5%
Weather/Fire/Earthquake	11%	11%	10%	6%	2%	3%	8%	9%	13%	6%	14%	55%	0%	0%	0%	0%	0%	0%	22%	13%	11%	9%	9%	27%
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 201	16	2nc	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
AVENTURA(12KV) - Customers: 1,882	134.0	2.1	0.0	11.7	1.0	3.5	17.6	1.0	3.0	204.5	1.0	0.0	1.5	0.0	0.0	70.4	2.0	1.5	309.8	2.0	3.2	586.2	4.9	4.7
3rd Party	1%	0%	0%	0%	0%	0%	96%	100%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	73%	48%	0%	23%	0%	0%	4%	0%	67%	0%	0%	0%	100%	100%	0%	100%	100%	0%	100%	100%	10%	65%	80%	7%
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	22%	48%	0%	77%	100%	71%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	33%	0%	0%	60%	35%	20%	52%
Vegetation/Animal	0%	0%	0%	0%	0%	29%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67%	0%	0%	0%	0%	0%	21%
Weather/Fire/Earthquake	4%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	21%
BLEND(12KV) - Customers: 2,265	167.2	1.6	0.0	86.5	1.1	0.2	1.9	0.3	1.0	2.7	0.0	0.0	11.8	0.0	0.0	6.4	0.0	0.0	7.9	0.0	0.2	28.8	0.1	0.2
3rd Party	0%	0%	0%	0%	0%	0%	88%	99%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	5%	2%	0%	0%	0%	0%	11%	0%	0%	97%	58%	0%	46%	24%	0%	0%	0%	0%	50%	18%	0%	41%	18%	0%
Operation	3%	15%	0%	51%	91%	0%	1%	1%	1%	3%	42%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	23%	37%	0%
Other	92%	83%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	54%	76%	0%	0%	0%	0%	0%	0%	100%	22%	28%	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%	49%	9%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	82%	0%	14%	17%	0%
CAFE(12KV) - Customers: 2,003	369.3	2.5	0.0	17.1	0.0	1.4	314.5	1.9	1.7	262.7	3.7	8.0	34.3	0.9	0.0	0.0	0.0	0.0	3.6	0.0	1.0	300.6	4.6	9.0
3rd Party	0%	0%	0%	0%	0%	71%	99%	99%	52%	0%	0%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	11%
Equipment Failure	53%	42%	0%	1%	1%	0%	0%	0%	0%	79%	73%	0%	100%	100%	0%	0%	0%	0%	78%	97%	0%	81%	78%	0%
Operation	1%	1%	0%	99%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	9%	41%	0%	0%	0%	29%	1%	1%	48%	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
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	37%	17%	0%	0%	0%	0%	0%	0%	0%	21%	27%	62%	0%	0%	0%	0%	0%	0%	22%	3%	0%	19%	22%	56%
COACHELLA(33KV) - Customers: 2	315.0	3.0	1.0	0.0	0.0	0.5	0.0	0.0	1.0	0.0	0.0	0.5	10.2	1.0	1.0	15.0	1.0	0.0	0.0	0.0	0.0	25.2	2.0	1.5
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	25%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	41%	50%	100%
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	10%	33%	100%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	59%	50%	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	65%	33%	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	2na	l 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	MAIF
ESPRESSO(12KV) - Customers: 2,071	33.1	1.0	0.0	8.1	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	64.0	1.0	2.0	91.7	1.0	0.3	0.0	0.0	0.0	155.7	2.0	2.2
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	94%	99%	0%	0%	0%	0%	0%	0%	0%	39%	49%	0%
Equipment Failure	6%	1%	0%	98%	96%	0%	20%	17%	0%	0%	0%	0%	3%	0%	0%	100%	100%	0%	0%	0%	0%	60%	51%	0%
Operation	0%	0%	0%	2%	4%	0%	80%	83%	0%	0%	0%	0%	3%	0%	50%	0%	0%	100%	0%	0%	0%	1%		56%
Other	91%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	44%
Vegetation/Animal	4%	1%	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%
INVADER(12KV) - Customers: 692	157.3	3.3	0.0	82.3	1.5	1.0	289.2	3.7	2.0	4.8	0.0	0.0	95.6	0.2	0.0	0.0	0.0	0.0	1.7	0.0	1.0	102.0	0.2	1.0
3rd Party	0%	0%	0%	0%	0%	100%	3%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	74%	33%	100%	1%	1%	100%
Equipment Failure	33%	13%	0%	24%	9%	0%	92%	39%	100%	100%	100%	0%	98%	92%	0%	0%	0%	0%	26%	67%	0%	97%	92%	0%
Operation	41%	56%	0%	18%	70%	0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%
Other	25%	31%	0%	57%	21%	0%	4%	33%	0%	0%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%
Vegetation/Animal	2%	0%	0%	1%	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%
KONA(12KV) - Customers: 1,442	147.8	3.4	3.0	549.4	1.3	2.0	7.2	0.0	1.4	417.0	1.3	0.0	13.5	0.0	0.0	0.0	0.0	0.0	114.1	0.4	1.0	544.7	1.7	1.0
3rd Party	0%	0%	0%	63%	65%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	13%	1%	0%	36%	26%	0%	42%	7%	0%	62%	21%	0%	98%	94%	0%	0%	0%	0%	0%	1%	0%	50%	18%	0%
Operation	13%	9%	0%	0%	9%	0%	54%	91%	29%	0%	0%	0%	2%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	20%	30%	67%	0%	0%	50%	0%	0%	0%	38%	79%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	29%	59%	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	53%	60%	33%	0%	0%	0%	4%	2%	71%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	99%	0%	21%	23%	0%
MAXIM(12KV) - Customers: 2,176	518.0	4.0	3.2	279.0	1.5	1.0	115.4	1.6	0.5	68.8	0.3	1.0	1.9	0.0	0.0	6.1	0.0	0.2	2.2	0.0	2.3	79.0	0.4	3.5
3rd Party	82%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	2%	0%	0%	5%	2%	0%	45%	62%	0%	69%	49%	100%	21%	12%	0%	86%	60%	0%	32%	57%	43%	68%	49%	57%
Operation	6%	27%	0%	69%	33%	0%	4%	1%	0%	0%	1%	0%	8%	32%	0%	14%	40%	0%	68%	43%	0%	4%	6%	0%
Other	10%	27%	100%	25%	65%	100%	10%	1%	0%	30%	51%	0%	72%	56%	0%	0%	0%	100%	0%	0%	57%	28%	46%	43%
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%	41%	36%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

		2013			2014			2015		1st	Qtr 201	6	2nd	l Qtr 20	16	3rd	Qtr 20 1	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
PALMVIEW(33KV) - Customers: 1	128.0	2.0	0.0	9.0	1.0	3.0	17.0	1.0	3.0	170.0	1.0	0.0	0.0	0.0	0.0	845.0	2.0	0.0	135.0	1.0	2.0	1150.0	4.0	2.0
3rd Party	0%	0%	0%	0%	0%	0%	100%	100%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	77%	50%	0%	0%	0%	0%	0%	0%	67%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	85%	75%	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	23%	50%	0%	100%	100%	67%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	15%	25%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	33%	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%
ROVER(12KV) - Customers: 1,712	51.4	0.2	0.0	4.5	0.0	0.9	49.1	0.2	0.0	54.3	1.1	0.0	0.4	0.0	0.0	51.7	0.1	0.0	1.4	0.0	0.0	107.8	1.2	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	80%	60%	0%	3%	6%	0%	74%	50%	100%	87%	93%	0%	100%	100%	0%	29%	33%	0%	100%	100%	0%	59%	89%	0%
Operation	20%	40%	0%	0%	0%	100%	26%	50%	0%	13%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	7%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	71%	67%	0%	0%	0%	0%	34%	4%	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%	97%	94%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SAN RAFAEL(12KV) - Customers: 1,212	34.6	1.0	1.0	71.2	1.9	2.0	168.5	1.8	3.0	4.9	0.0	0.0	3.3	0.0	0.0	0.1	0.0	0.0	1.3	0.0	0.9	9.6	0.0	0.9
3rd Party	0%	0%	0%	1%	1%	0%	57%	40%	33%	0%	0%	0%	34%	7%	0%	0%	0%	0%	0%	0%	0%	12%	5%	0%
Equipment Failure	0%	0%	0%	43%	46%	50%	38%	57%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Operation	8%	3%	100%	0%	0%	0%	4%	2%	0%	0%	0%	0%	66%	93%	0%	100%	100%	0%	0%	0%	0%	24%	63%	0%
Other	92%	97%	0%	57%	53%	50%	1%	1%	67%	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%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	51%	27%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	14%	5%	0%
SKYBORNE(12KV) - Customers: 220	33.6	1.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	9.9	1.0	1.0	15.1	1.0	0.0	0.0	0.0	0.0	25.0	2.0	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	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	40%	50%	100%
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	95%	100%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	60%	50%	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 201	16	2nd	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	MAIF
TOMMULALI (22/V) Customores Q	121 5	1.4	0.0	F7F 4	4.4	F 4	25.0	1.2	0.4	F27.0	2.4	15.0	0.0	0.0	1.0	00.3	0.2	0.0	400.2	2.1	1.5	1102.4	4.0	10
TOWNHALL(33KV) - Customers: 8	121.5	1.4	0.8	575.4	4.4	5.4	25.9		8.4	537.9		15.8	0.0	0.0	1.0		0.3		469.2		_	1103.4		
3rd Party	0%	0%	0%	0%	0%	0%	39%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	6%	0%	0%	3%	09
Equipment Failure	80%	45%	0%	95%	74%	21%	0%	0%	4%	56%	58%	89%	0%	0%	0%	0%	0%	0%	0%	0%	0%	27%	29%	749
Operation	0%	0%	0%	2%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	69%	50%	0%	0%	0%	0%	6%	3%	09
Other	20%	55%	100%	3%	23%	74%	61%	70%	73%	44%	42%	11%	0%	0%	100%	31%	50%	100%	99%	94%	100%	66%	66%	26
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%	09
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	5%	0%	0%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	09
YUBAN(12KV) - Customers: 1,546	92.9	1.2	1.0	71.4	1.9	1.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.9	0.1	0.0	0.0	0.0	6.2	0.9	0.
3rd Party	2%	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	21%	7%	5%	98%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	09
Operation	10%	8%	0%	2%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
Other	67%	85%	95%	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%	100%	100%	100%	0%	0%	0%	100%	100%	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