



Circuit Reliability Review

California City

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 Ridgecrest District

Boron

California City

Cantil

China Lake Acres

Edwards Afb

Furnace Creek

Homewood Canyon-Valley Wells

Inyokern

Johannesburg

North Edwards

Pearsonville

Randsburg

Ridgecrest

Searles Valley

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.

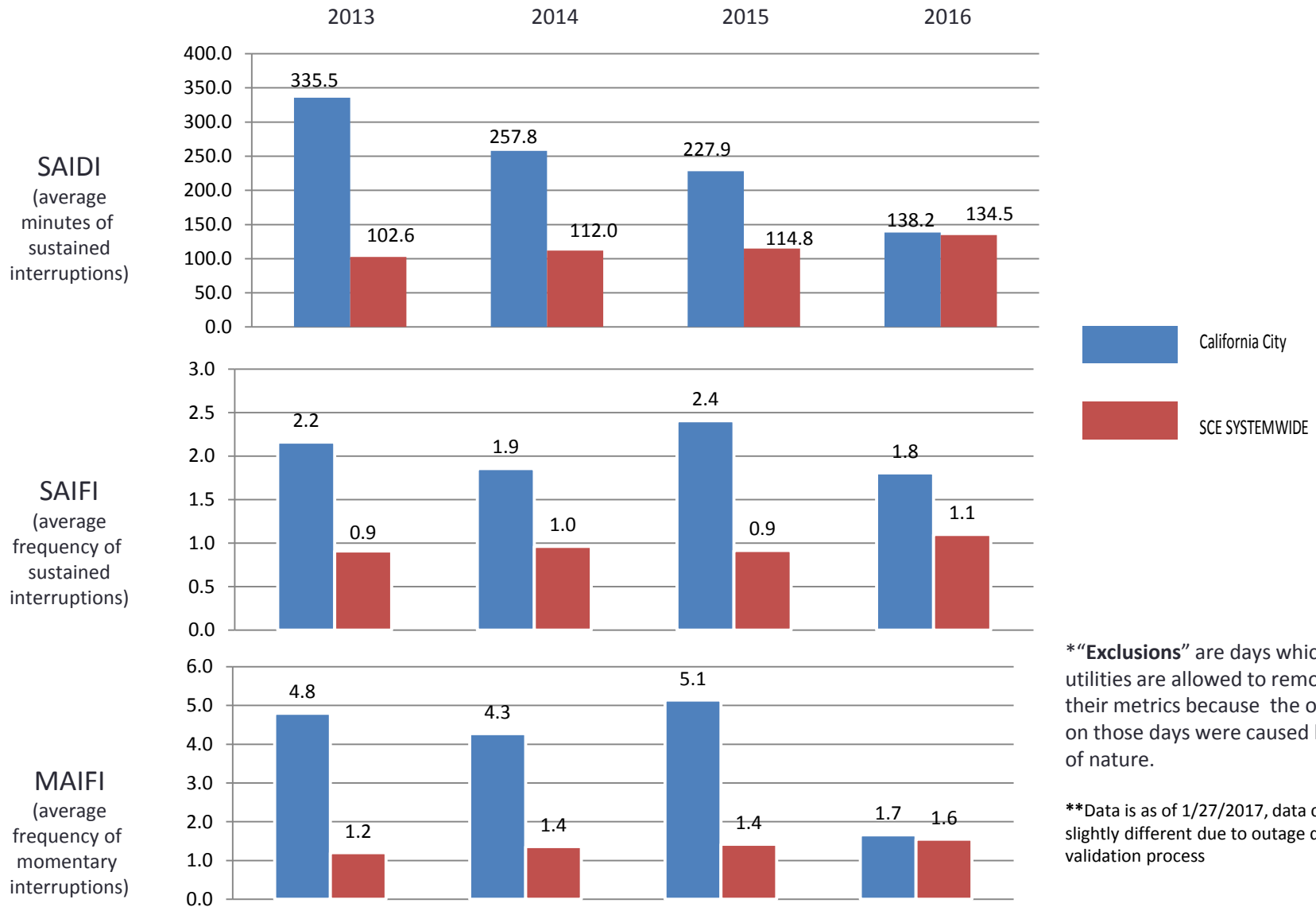
Overview of California City

There are 9 circuits that serve California City

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BOXCAR(12KV)	793						
BRITTLE BUSH(12KV)	1,578						
CARBON(12KV)	772						
CASTLE BUTTE(33KV)	6						
DOGBANE(12KV)	1,072						
GALILEO(12KV)	41						
GREASEWOOD(12KV)	1,486						
HEAVY(33KV)	13						
OVERALL(12KV)	1,099						

Grand Total 6,860

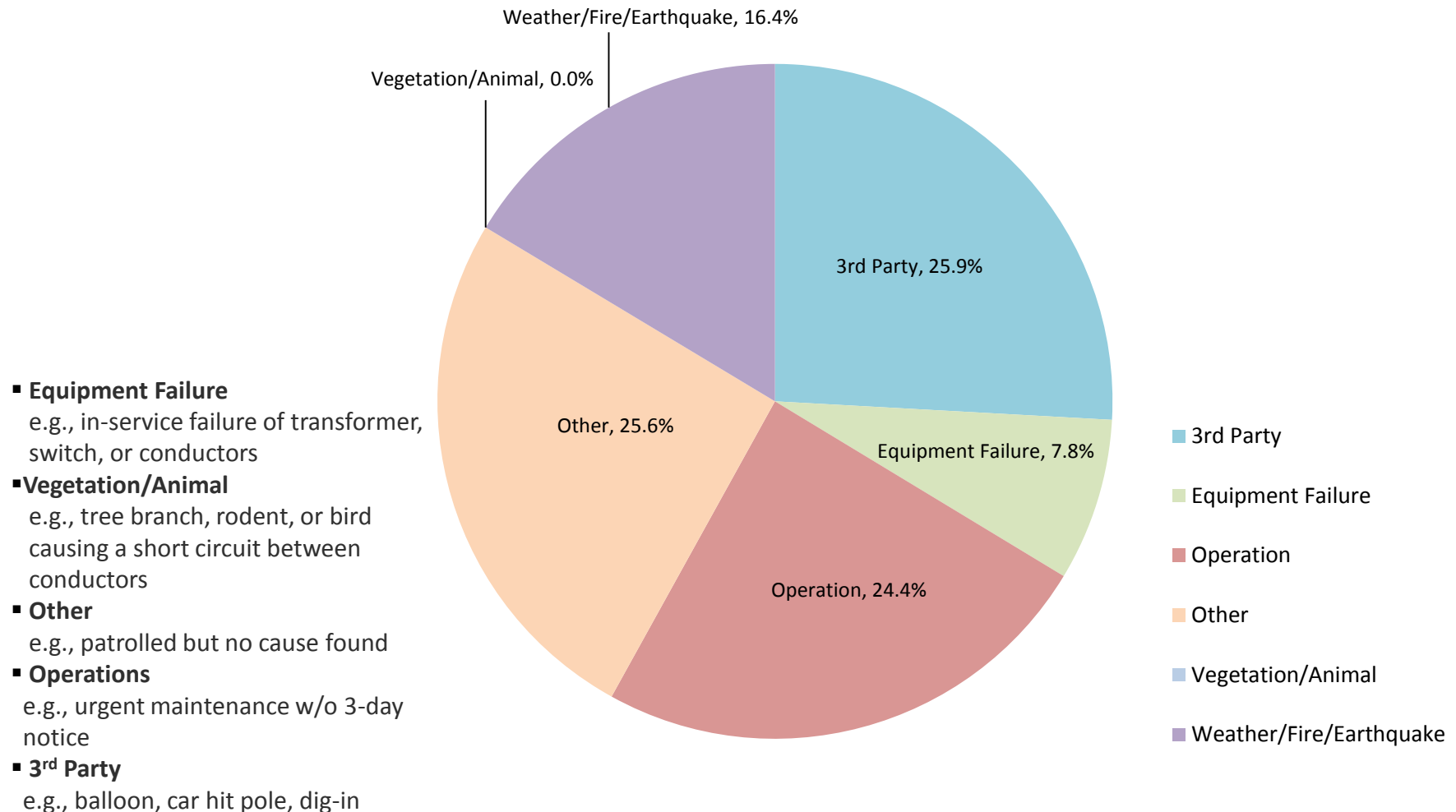
Reliability History of Circuits Serving California City (No Exclusions)



Causes of Repair Outages in California City Circuits

2016 YTD

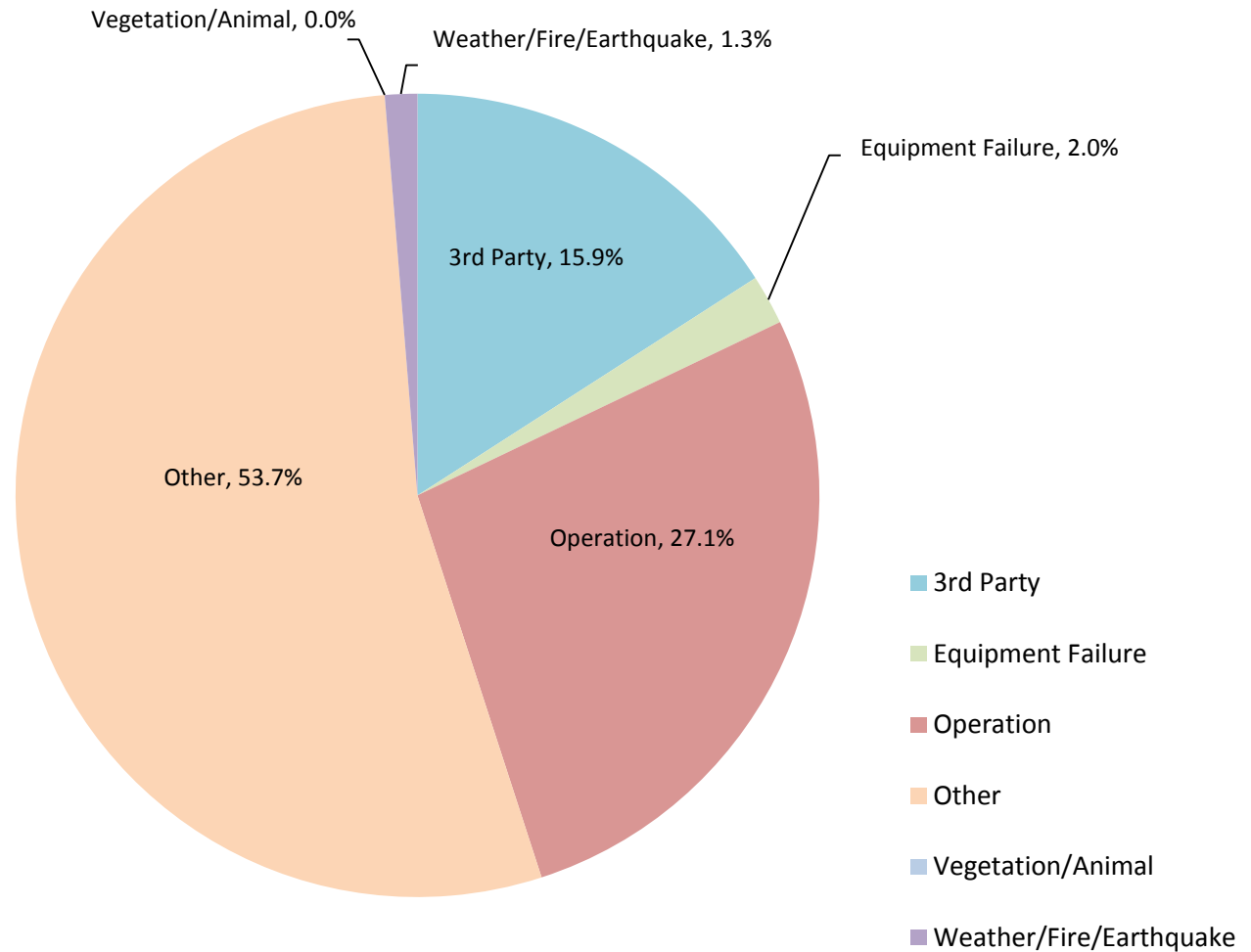
Contributions to SAIDI by Outage Cause



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

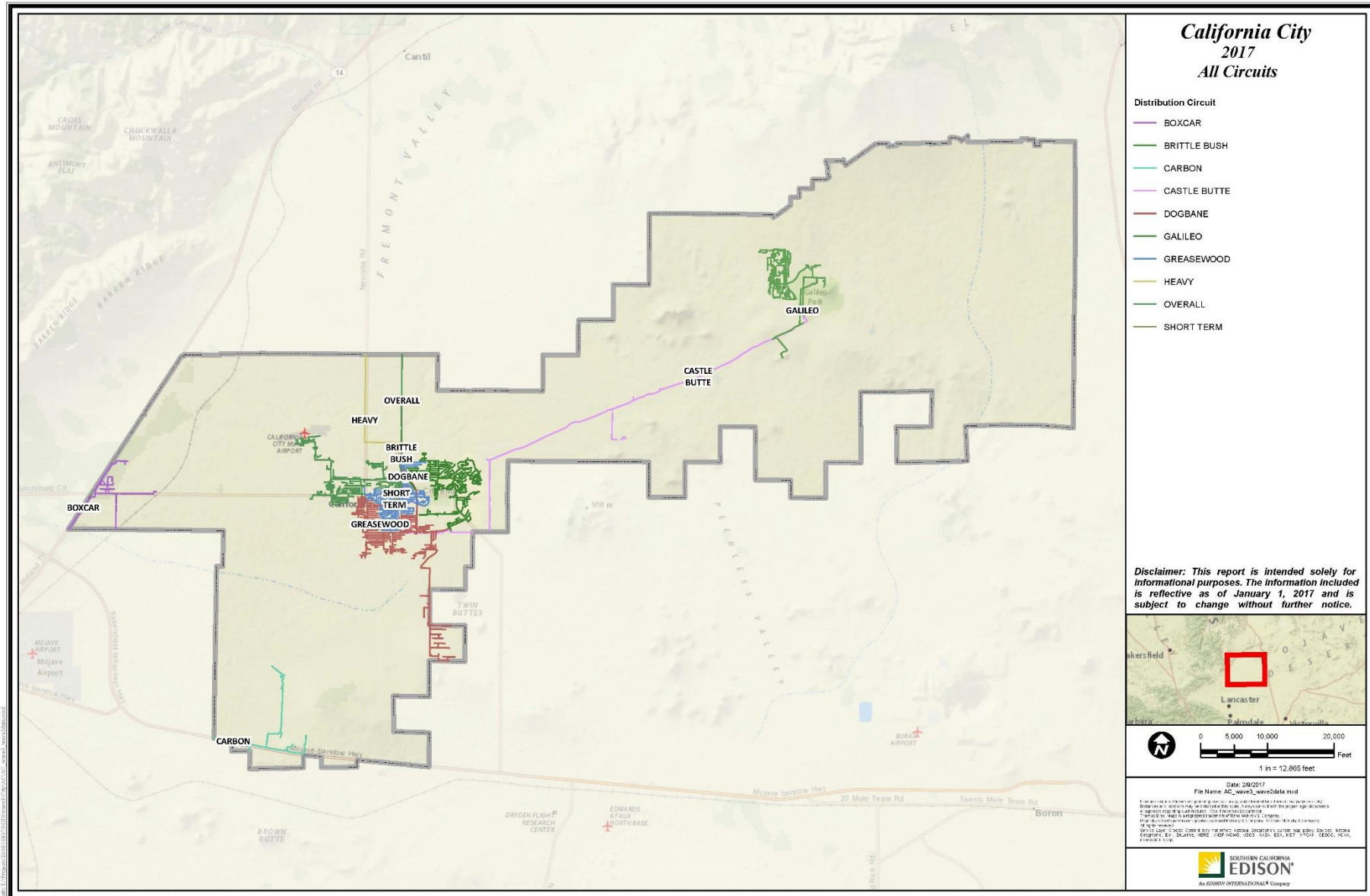
Causes of Repair Outages in California City Circuits 2016 YTD

Contributions to SAIFI 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

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



Back-up Slides

Reliability Histories of Circuits Serving California City

Updated through Year-End 2016

Average Reliability of 9 Circuits Serving California City

	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
California City	335.5	2.2	4.8	257.8	1.9	4.3	227.9	2.4	5.1	42.2	0.4	0.3	33.0	0.3	0.3	17.1	0.2	0.0	45.9	0.9	1.0	138.2	1.8	1.7
3rd Party	0%	0%	7%	62%	35%	0%	3%	14%	0%	11%	1%	0%	65%	62%	16%	57%	37%	100%	0%	0%	0%	26%	16%	5%
Equipment Failure	14%	26%	12%	11%	10%	23%	20%	20%	0%	16%	4%	9%	6%	3%	0%	1%	0%	0%	5%	1%	0%	8%	2%	2%
Operation	12%	13%	8%	2%	5%	2%	2%	1%	3%	5%	3%	0%	30%	35%	42%	43%	63%	0%	32%	27%	0%	24%	27%	7%
Other	54%	39%	45%	17%	39%	54%	72%	50%	82%	15%	85%	91%	0%	0%	40%	0%	0%	0%	63%	72%	100%	26%	54%	85%
Vegetation/Animal	0%	0%	0%	0%	0%	16%	0%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	21%	22%	28%	8%	11%	5%	2%	15%	2%	54%	6%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	16%	1%	0%
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 California City

	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
BOXCAR(12KV) - Customers: 793	268.4	2.5	4.5	26.0	0.4	3.5	1142.3	3.2	5.4	210.7	0.3	0.2	83.8	1.0	1.0	8.9	0.1	0.0	126.2	2.0	0.0	429.7	3.4	1.2
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	40%	44%	67%	60%	25%	2%	20%	5%	0%	7%	34%	100%	3%	1%	0%	7%	4%	0%	1%	1%	0%	4%	4%	17%
Operation	27%	27%	0%	39%	74%	0%	0%	0%	0%	0%	1%	0%	97%	99%	100%	93%	96%	0%	99%	99%	0%	50%	90%	83%
Other	33%	29%	33%	1%	1%	33%	77%	36%	82%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	33%	3%	59%	18%	93%	64%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	46%	6%	0%
BRITTLE BUSH(12KV) - Customers: 1,578	441.1	2.6	1.8	745.1	1.8	5.0	11.2	0.5	6.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.5	1.1	0.0	0.5
3rd Party	0%	0%	0%	88%	28%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	17%	23%	0%	10%	13%	20%	83%	99%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	30%	2%	0%
Operation	0%	0%	0%	1%	3%	0%	17%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	70%	98%	0%
Other	68%	59%	100%	2%	56%	60%	0%	0%	83%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	20%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	15%	18%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CARBON(12KV) - Customers: 772	421.2	3.2	5.5	79.9	1.2	10.1	588.5	5.2	4.8	45.9	0.1	0.0	15.0	0.1	1.0	141.7	1.6	0.4	1.3	0.0	0.0	204.0	1.7	1.4
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	60%	39%	100%	0%	0%	0%	42%	35%	29%
Equipment Failure	23%	32%	30%	85%	76%	56%	18%	2%	0%	92%	37%	0%	77%	47%	0%	0%	0%	0%	0%	0%	0%	27%	3%	0%
Operation	77%	68%	16%	15%	24%	8%	0%	1%	0%	8%	63%	0%	23%	53%	0%	40%	61%	0%	100%	100%	0%	32%	61%	0%
Other	0%	0%	36%	0%	0%	20%	80%	73%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	71%
Vegetation/Animal	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	18%	0%	0%	8%	2%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CASTLE BUTTE(33KV) - Customers: 6	188.0	2.0	2.0	130.0	1.0	6.0	0.0	0.0	10.0	16.3	0.2	2.0	0.0	0.0	1.0	0.0	0.0	0.0	237.0	1.0	0.0	253.4	1.2	3.0
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%	17%	0%	0%	0%	100%	100%	50%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	33%
Operation	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	24%	50%	100%	100%	100%	50%	0%	0%	90%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%
Vegetation/Animal	0%	0%	0%	0%	0%	17%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	76%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	33%

Reliability Histories for Individual Circuits Serving California City

	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
DOGBANE(12KV) - Customers: 1,072	196.5	2.1	11.1	178.7	2.9	4.0	65.5	4.1	4.1	6.9	1.0	1.0	0.0	0.0	0.0	0.2	0.0	0.0	90.7	2.0	2.0	97.8	3.0	3.0
3rd Party	0%	0%	9%	12%	45%	0%	23%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	8%	49%	0%	1%	0%	0%	12%	25%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	3%	0%	0%
Operation	18%	3%	9%	0%	0%	0%	33%	2%	27%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	46%	87%	55%	100%	32%	49%	65%	86%	100%	100%	0%	0%	0%	0%	0%	0%	98%	100%	100%	97%	100%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	74%	49%	36%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
GALILEO(12KV) - Customers: 41	184.6	2.0	2.0	130.0	1.0	6.0	125.5	1.0	10.0	129.7	1.0	1.6	17.0	1.0	1.0	0.0	0.0	0.0	430.5	2.0	1.0	577.2	4.0	3.6
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%	17%	0%	0%	0%	0%	0%	64%	100%	100%	0%	0%	0%	0%	55%	50%	0%	44%	50%	28%
Operation	0%	0%	0%	0%	0%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	24%	50%	100%	100%	100%	50%	0%	0%	90%	100%	100%	36%	0%	0%	0%	0%	0%	0%	45%	50%	100%	56%	50%	44%
Vegetation/Animal	0%	0%	0%	0%	0%	17%	100%	100%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	76%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	28%
GREASEWOOD(12KV) - Customers: 1,486	155.9	2.0	0.0	187.4	2.3	5.0	17.7	0.1	8.0	6.8	0.0	0.0	99.8	1.0	0.2	0.0	0.0	0.0	0.0	0.0	1.0	106.6	1.0	1.2
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	93%	97%	17%
Equipment Failure	0%	0%	0%	8%	8%	20%	56%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	1%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	3%	0%
Other	7%	50%	0%	36%	48%	60%	44%	73%	87%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	83%
Vegetation/Animal	0%	0%	0%	0%	0%	20%	0%	0%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	92%	50%	0%	55%	44%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
HEAVY(33KV) - Customers: 13	510.8	1.1	4.5	38.4	0.3	0.0	937.9	2.2	1.2	17.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.7	2.2	2.0	227.5	2.3	2.0
3rd Party	0%	0%	2%	71%	75%	0%	2%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	97%	93%	0%	0%	0%	0%	68%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	71%	0%	0%	0%	30%	48%	93%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%
Vegetation/Animal	0%	0%	0%	29%	25%	0%	1%	3%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	3%	7%	5%	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 California City

	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
OVERALL(12KV) - Customers: 1,099	588.4	1.1	9.5	35.4	2.0	0.0	61.5	4.1	1.0	57.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	84.6	2.0	2.0	142.5	3.0	3.0
3rd Party	0%	0%	11%	99%	100%	0%	50%	26%	0%	50%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	1%	0%
Equipment Failure	1%	7%	0%	1%	0%	0%	13%	25%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	11%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	99%	93%	37%	0%	0%	0%	34%	49%	0%	49%	97%	100%	0%	0%	0%	0%	0%	0%	100%	100%	100%	79%	99%	100%
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%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%