



Circuit Reliability Review

Monrovia

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://www.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 Monrovia District

Altadena

Arcadia

Azusa

Baldwin Park

Bradbury

Duarte

East Pasadena

East San Gabriel

Glendale

Irwindale

La Canada Flintridge

La Crescenta-Montrose

Los Angeles

Mayflower Village

Monrovia

Pasadena

San Gabriel

San Marino

Sierra Madre

South Pasadena

Temple City

Vincent

West Puente 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.

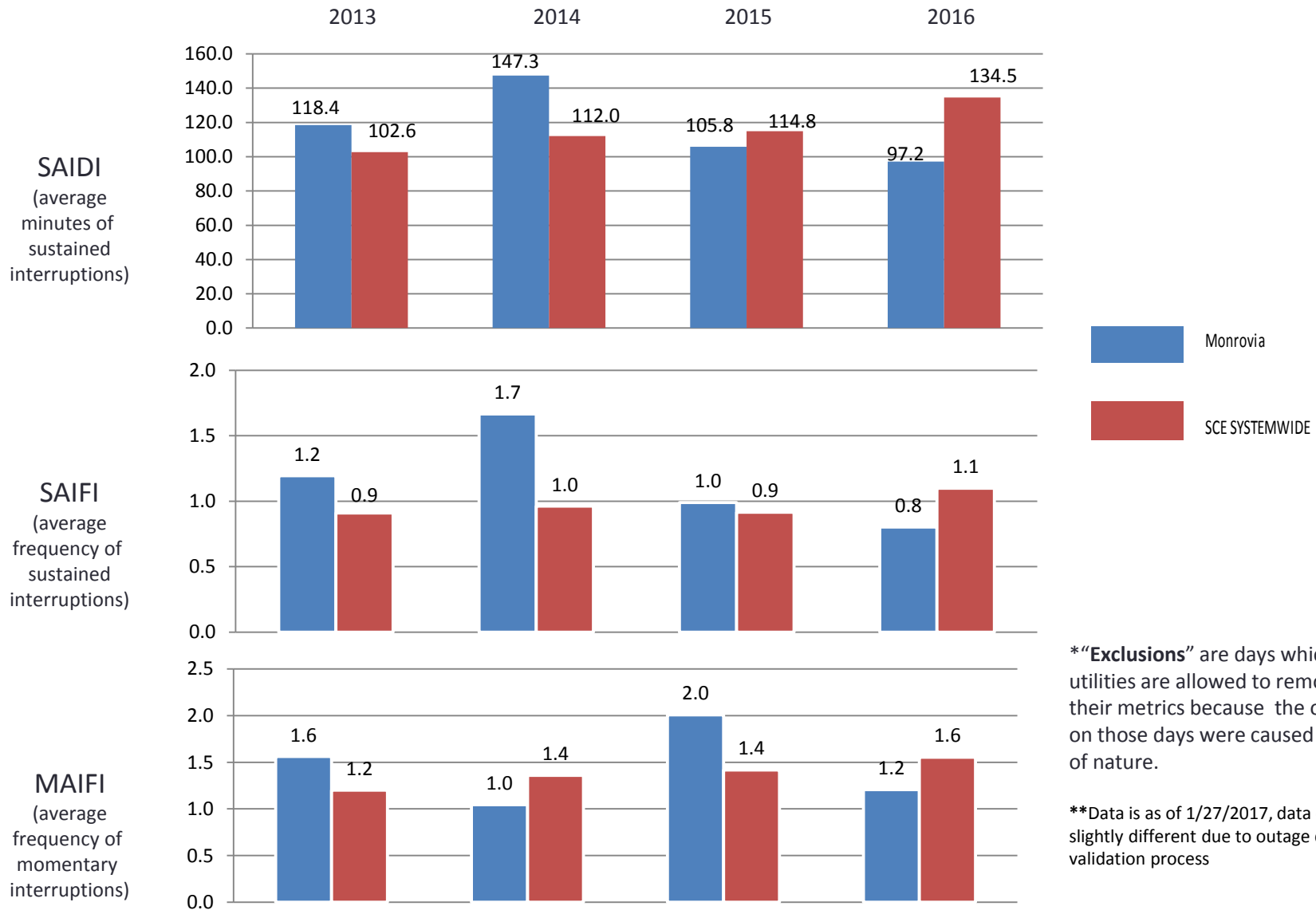
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Monrovia

There are 30 circuits that serve Monrovia

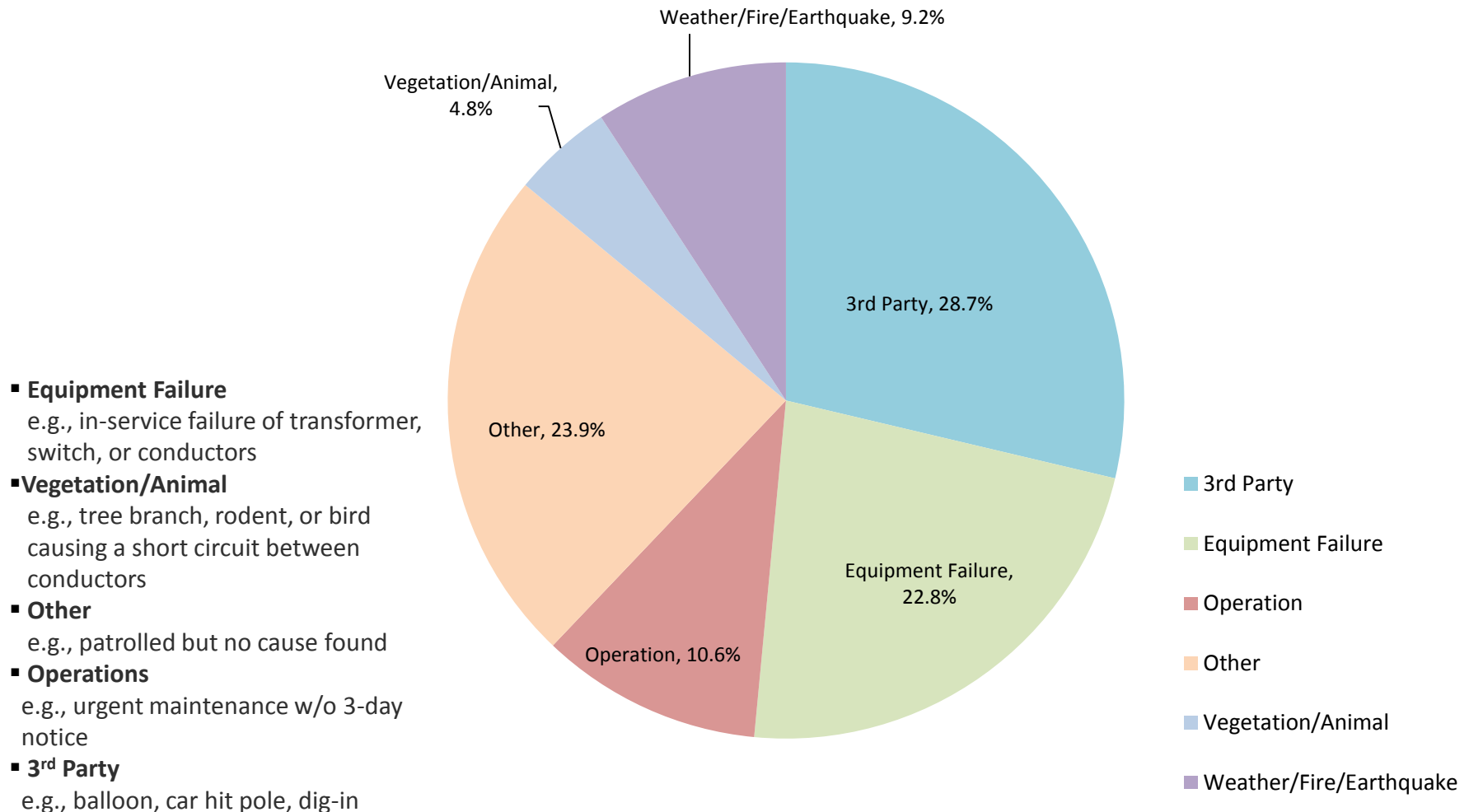
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
ALTA(4.16KV)	686						
AMBRUS(16KV)	2,235						
ARBORETUM(16KV)	1,210						
ASHMONT(4.16KV)	457						
BATEMAN(16KV)	1,087						
BONNIE(4.16KV)	489						
CHANNTRY(16KV)	2,803						
COMMERCIAL(4.16KV)	833						
CONCORD(4.16KV)	518						
DELFORD(16KV)	593						
FIG(16KV)	932						
GRAYDON(16KV)	2,328						
HONEYWELL(16KV)	1,760						
HURSTVIEW(16KV)	1,618						
IVY(4.16KV)	500						
JOYCE(4.16KV)	1,058						
KIEWAY(16KV)	1,072						
LA PORTE(16KV)	2,468						
MYRTLE(4.16KV)	491						
OWL(4.16KV)	658						
PAYNE(16KV)	2,181						
PILGRIM(16KV)	194						
POWDER(16KV)	1,389						
PRIMROSE(16KV)	2,369						
ROBBIE(16KV)	2,049						
SAINT JO(16KV)	1,789						
SANITARIUM(4.16KV)	896						
SHAMROCK(4.16KV)	426						
SPILLWAY(16KV)	1,006						
STANDISH(4.16KV)	585						
Grand Total	36,680						

Reliability History of Circuits Serving Monrovia (No Exclusions)



Causes of Repair Outages in Monrovia Circuits 2016 YTD

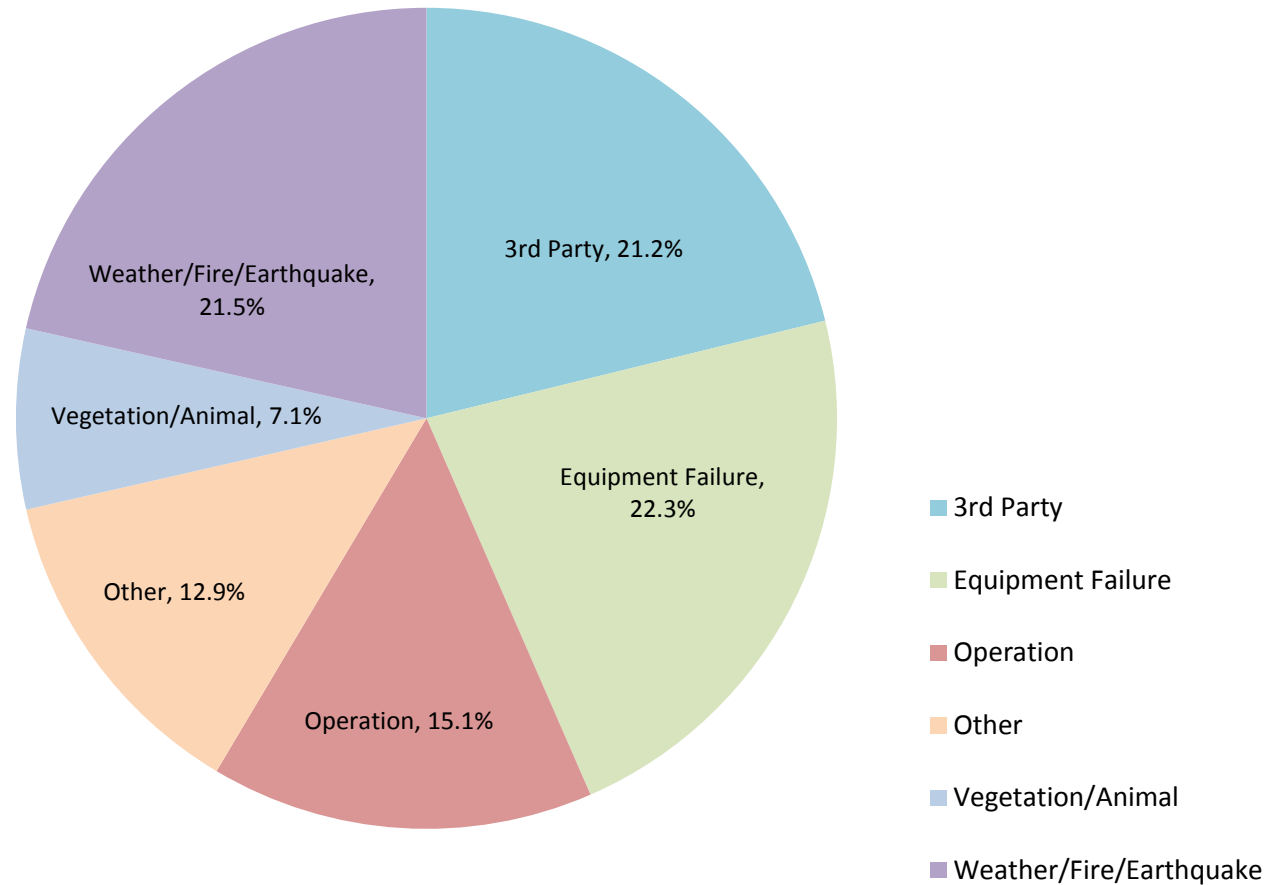
Contributions to SAIDI by Outage Cause



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

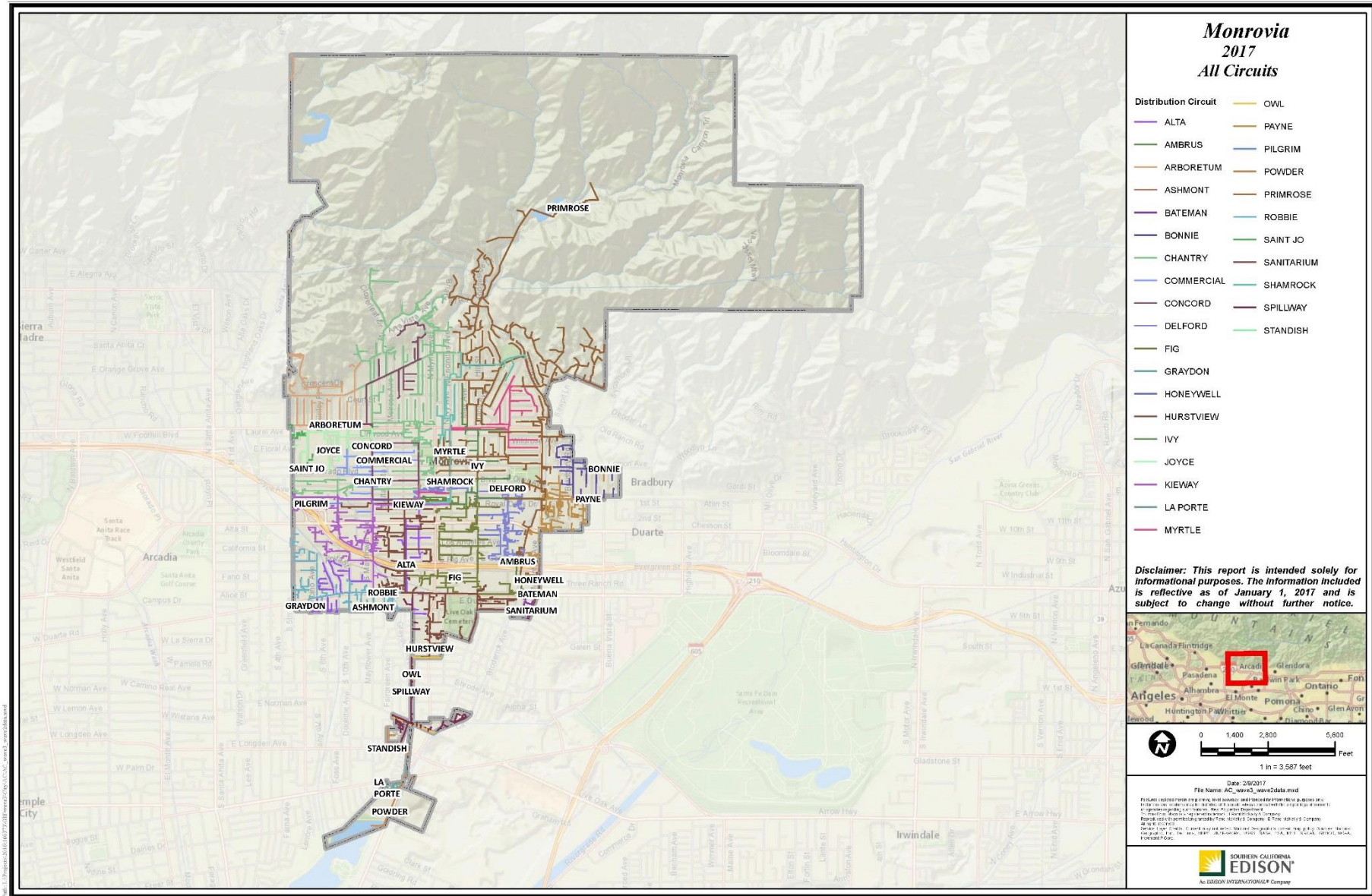
Causes of Repair Outages in Monrovia Circuits 2016 YTD

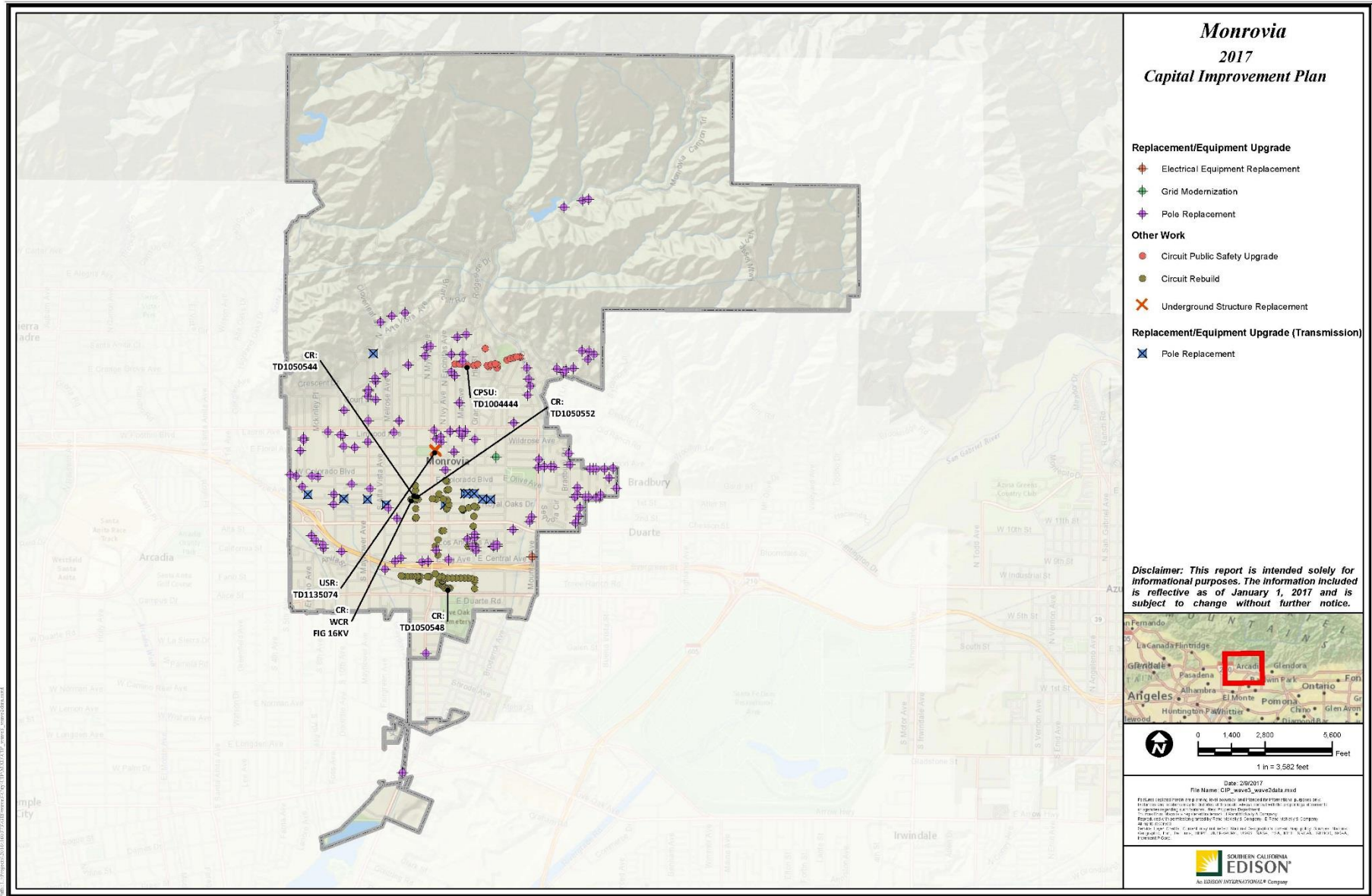
Contributions to SAIFI by Outage Cause



- **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 Monrovia

Updated through Year-End 2016

Average Reliability of 30 Circuits Serving Monrovia

	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
Monrovia	118.4	1.2	1.6	147.3	1.7	1.0	105.8	1.0	2.0	30.5	0.2	0.4	43.5	0.3	0.5	14.0	0.2	0.2	9.1	0.1	0.1	97.2	0.8	1.2
3rd Party	18%	18%	18%	12%	8%	32%	24%	16%	15%	68%	36%	39%	13%	21%	38%	11%	13%	17%	0%	0%	0%	29%	21%	31%
Equipment Failure	47%	37%	17%	21%	14%	11%	46%	41%	15%	8%	23%	13%	17%	17%	0%	58%	32%	0%	43%	14%	0%	23%	22%	4%
Operation	18%	15%	4%	2%	1%	4%	5%	7%	0%	9%	15%	13%	9%	9%	0%	18%	24%	0%	11%	14%	0%	11%	15%	4%
Other	3%	3%	8%	27%	23%	27%	12%	13%	19%	4%	1%	12%	50%	31%	10%	1%	1%	0%	3%	1%	7%	24%	13%	8%
Vegetation/Animal	8%	19%	27%	17%	17%	22%	8%	15%	47%	1%	1%	15%	8%	2%	33%	6%	24%	74%	0%	0%	23%	5%	7%	35%
Weather/Fire/Earthquake	6%	8%	25%	21%	37%	4%	5%	7%	5%	10%	23%	8%	3%	20%	19%	5%	6%	9%	43%	71%	69%	9%	21%	18%
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 Monrovia

	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
ALTA(4.16KV) - Customers: 686	5.1	0.0	1.0	266.0	6.0	0.0	72.2	1.0	0.0	0.0	0.0	0.0	98.2	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	98.2	1.0	1.0
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	100%	100%	100%
Equipment Failure	0%	0%	0%	0%	0%	0%	6%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	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%	0%	49%	34%	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%	51%	66%	0%	94%	99%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AMBRUS(16KV) - Customers: 2,235	103.5	1.5	0.0	65.7	0.1	0.0	168.6	1.9	2.9	0.0	0.0	0.0	63.8	0.5	0.0	121.7	1.1	0.0	42.8	0.2	0.0	228.3	1.7	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	85%	67%	0%	98%	67%	0%	55%	64%	0%	0%	0%	0%	0%	0%	0%	97%	94%	0%	70%	44%	0%	65%	62%	0%
Operation	0%	0%	0%	2%	33%	0%	16%	10%	0%	0%	0%	0%	100%	100%	0%	3%	6%	0%	30%	56%	0%	35%	38%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	15%	33%	0%	0%	0%	0%	29%	26%	66%	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%
ARBORETUM(16KV) - Customers: 1,210	226.2	2.0	2.0	9.5	0.0	1.0	214.0	1.7	0.8	4.5	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	2.3	0.1	0.0	10.5	0.1	0.0
3rd Party	0%	0%	0%	0%	0%	100%	7%	2%	78%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	91%	98%	49%	45%	14%	0%	63%	59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21%	5%	0%	5%	3%	0%
Operation	9%	2%	0%	0%	0%	0%	3%	1%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	79%	95%	0%	60%	73%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	35%	23%	0%
Vegetation/Animal	0%	0%	51%	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%	55%	86%	0%	27%	37%	22%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ASHMONT(4.16KV) - Customers: 457	77.7	1.0	0.0	114.2	1.1	1.0	5.2	0.2	1.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
3rd Party	0%	0%	0%	88%	96%	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%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	12%	4%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	100%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Monrovia

	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
BATEMAN(16KV) - Customers: 1,087	306.0	3.1	1.8	217.5	1.1	0.0	249.6	1.3	1.0	0.5	0.0	0.0	0.0	0.0	0.0	21.4	0.1	0.0	0.0	0.0	0.0	21.9	0.1	0.0
3rd Party	12%	33%	0%	0%	0%	0%	95%	77%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	39%	34%	43%	83%	92%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	49%	33%	0%	0%	0%	0%	5%	23%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Other	0%	0%	0%	7%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	57%	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%	10%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BONNIE(4.16KV) - Customers: 489	0.2	0.0	1.0	128.6	2.0	1.0	34.1	0.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.2	1.0	0.0	0.0	0.0	14.3	0.2	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%	12%	2%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Operation	100%	100%	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%	73%	49%	100%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	15%	49%	0%	0%	0%	50%	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%
CHANTRY(16KV) - Customers: 2,803	33.5	0.4	4.6	269.7	2.7	2.3	27.5	0.4	2.7	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	9%	13%	28%	6%	0%	38%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	63%	47%	0%
Operation	56%	7%	0%	2%	0%	0%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	22%	38%	13%	72%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	37%	53%	0%
Vegetation/Animal	44%	93%	14%	37%	37%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	64%	15%	37%	0%	91%	99%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
COMMERCIAL(4.16KV) - Customers: 833	11.2	0.0	0.0	193.0	5.9	0.0	9.0	1.0	0.0	23.0	0.1	2.0	90.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.7	1.1	2.0
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%	100%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	46%	50%	0%	0%	0%	0%	100%	100%	100%	100%	100%	0%	4%	2%	0%	0%	0%	0%	0%	0%	0%	23%	7%	0%
Other	0%	0%	0%	31%	34%	0%	0%	0%	0%	0%	0%	0%	96%	98%	0%	0%	0%	0%	0%	0%	0%	77%	93%	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	54%	50%	0%	69%	66%	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 Monrovia

	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
CONCORD(4.16KV) - Customers: 518	113.2	0.2	1.0	384.8	6.0	0.0	10.3	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	99%	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	1%	10%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	64%	33%	0%	0%	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	36%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DELORD(16KV) - Customers: 593	0.2	0.0	1.0	225.8	1.0	2.0	0.0	0.0	0.0	0.0	0.0	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
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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Vegetation/Animal	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	50%
Weather/Fire/Earthquake	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FIG(16KV) - Customers: 932	58.6	2.0	3.0	243.4	5.7	1.0	69.6	1.2	3.7	8.3	1.0	0.0	177.3	0.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	185.6	1.9	2.7
3rd Party	0%	0%	0%	27%	18%	0%	0%	0%	0%	0%	0%	0%	34%	84%	37%	0%	0%	0%	0%	0%	0%	33%	40%	37%
Equipment Failure	87%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	1%	0%	0%	0%	0%	0%	0%	0%	0%	83%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	51%	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%	33%	29%	18%	100%	100%	100%	100%	0%	0%	0%	66%	16%	63%	0%	0%	0%	0%	0%	0%	63%	8%	63%
Weather/Fire/Earthquake	12%	49%	67%	44%	65%	0%	0%	0%	0%	17%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%
GRAYDON(16KV) - Customers: 2,328	114.3	1.0	1.1	87.6	1.0	1.0	55.0	1.0	5.0	0.0	0.0	0.0	2.3	0.0	1.0	14.3	0.0	1.0	0.0	0.0	0.0	16.7	0.0	2.0
3rd Party	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	100%	100%	100%	84%	97%	0%	14%	1%	20%	0%	0%	0%	100%	100%	0%	92%	63%	0%	0%	0%	0%	93%	64%	0%
Operation	0%	0%	0%	16%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	31%	0%	0%	0%	0%	4%	30%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	6%	0%	0%	0%	0%	3%	6%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	86%	99%	80%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%
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 Monrovia

	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
HONEYWELL(16KV) - Customers: 1,760	510.2	3.9	3.5	215.9	1.8	1.3	321.5	1.9	4.9	72.6	1.1	2.9	26.0	0.1	0.0	17.7	1.0	0.0	0.4	0.0	0.0	116.6	2.2	2.9
3rd Party	0%	0%	0%	0%	0%	77%	0%	0%	21%	0%	0%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	34%
Equipment Failure	75%	59%	44%	100%	99%	23%	97%	95%	59%	57%	95%	34%	87%	90%	0%	0%	0%	0%	0%	0%	55%	51%	34%	
Operation	15%	23%	10%	0%	1%	0%	3%	5%	0%	43%	5%	32%	0%	0%	0%	0%	0%	0%	100%	100%	0%	27%	3%	32%
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	9%	18%	46%	0%	0%	0%	0%	0%	21%	0%	0%	0%	13%	10%	0%	100%	100%	0%	0%	0%	0%	18%	47%	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%
HURSTVIEW(16KV) - Customers: 1,618	54.8	1.0	4.0	62.1	1.0	2.0	51.0	0.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	27.7	0.9	0.0	2.1	0.0	0.0	29.8	0.9	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	11%	2%	0%	11%	1%	0%	74%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	58%	22%	0%	4%	0%	0%	
Operation	85%	96%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	42%	78%	0%	96%	100%	0%
Other	0%	0%	25%	0%	0%	0%	0%	0%	41%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	4%	2%	50%	89%	99%	100%	26%	90%	59%	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%
IVY(4.16KV) - Customers: 500	16.6	0.1	0.0	197.5	6.0	0.0	7.5	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	0.0	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%	96%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	100%	100%	0%	0%	0%	0%	4%	67%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	30%	33%	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%	70%	66%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
JOYCE(4.16KV) - Customers: 1,058	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	420.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	420.4	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%	0%	100%	100%	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%	0%	0%	0%	0%	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%	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 Monrovia

	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
KIEWAY(16KV) - Customers: 1,072	145.8	1.1	0.0	329.0	2.3	1.7	223.5	2.5	1.0	0.0	0.0	0.0	80.3	1.0	0.9	14.9	0.0	0.0	0.0	0.0	0.0	95.2	1.1	0.9
3rd Party	0%	0%	0%	0%	0%	57%	0%	0%	0%	0%	0%	0%	98%	100%	100%	0%	0%	0%	0%	0%	0%	82%	96%	100%
Equipment Failure	88%	91%	0%	35%	45%	0%	93%	99%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%
Operation	12%	9%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	16%	4%	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%	64%	55%	43%	7%	1%	100%	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%
LA PORTE(16KV) - Customers: 2,468	149.7	1.8	1.6	0.0	0.0	1.0	193.2	1.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.9	18.3	0.0	0.0	18.4	0.0	0.9
3rd Party	51%	39%	20%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	20%	3%	0%	0%	0%	0%	48%	39%	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	99%	0%
Operation	0%	0%	0%	0%	0%	0%	7%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	45%	59%	46%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	27%	57%	19%	0%	0%	0%	0%	0%	46%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	1%	100%
Weather/Fire/Earthquake	1%	0%	61%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
MYRTLE(4.16KV) - Customers: 491	56.6	3.0	1.0	279.3	7.1	1.0	283.1	1.9	3.8	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
3rd Party	0%	0%	100%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	46%	33%	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%	0%	49%	43%	0%	100%	100%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Vegetation/Animal	54%	67%	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%	51%	57%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
OWL(4.16KV) - Customers: 658	72.2	1.2	1.0	236.8	0.4	2.7	4.7	0.0	0.0	0.0	0.0	0.0	20.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.0	1.0
3rd Party	43%	87%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	38%	4%	0%	9%	5%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Operation	18%	9%	0%	1%	17%	39%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	36%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Weather/Fire/Earthquake	0%	0%	0%	89%	78%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Monrovia

	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
PAYNE(16KV) - Customers: 2,181	10.2	0.1	2.3	162.0	1.1	0.0	147.7	0.8	2.7	0.0	0.0	0.0	6.5	0.1	0.0	11.9	0.2	0.4	0.0	0.0	0.1	18.4	0.3	0.5
3rd Party	0%	0%	86%	97%	92%	0%	61%	76%	52%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	0%	0%	0%	36%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	6%	1%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	34%	27%	0%	0%	0%	0%	1%	9%	10%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	35%	24%	0%
Vegetation/Animal	60%	72%	14%	3%	8%	0%	0%	0%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	21%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	65%	76%	79%
PILGRIM(16KV) - Customers: 194	39.3	0.5	0.0	96.8	1.0	0.0	220.4	2.0	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	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%	100%	100%	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%	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%	100%	100%	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%
POWDER(16KV) - Customers: 1,389	57.4	1.2	1.0	0.0	0.0	0.0	1.2	0.0	1.0	0.0	0.0	0.0	14.1	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	4.0
3rd Party	93%	86%	100%	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%	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	7%	14%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	25%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	53%	79%	50%	0%	0%	0%	0%	0%	0%	53%	79%	50%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	47%	21%	25%	0%	0%	0%	0%	0%	0%	47%	21%	25%
PRIMROSE(16KV) - Customers: 2,369	15.1	0.0	0.0	379.8	1.8	2.4	81.5	1.2	1.0	296.9	1.0	0.7	36.4	1.1	2.1	0.2	0.0	0.0	3.2	0.0	1.1	336.8	2.1	3.9
3rd Party	78%	43%	0%	14%	17%	30%	90%	97%	0%	98%	99%	100%	0%	0%	49%	0%	0%	0%	0%	0%	0%	86%	47%	44%
Equipment Failure	8%	32%	0%	1%	0%	0%	6%	3%	0%	1%	1%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	0%	0%
Operation	14%	25%	0%	0%	0%	0%	3%	0%	0%	1%	1%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%
Other	0%	0%	0%	71%	75%	55%	0%	0%	0%	0%	0%	0%	57%	10%	0%	0%	0%	0%	100%	100%	9%	7%	5%	3%
Vegetation/Animal	0%	0%	0%	0%	0%	7%	0%	0%	100%	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	2%
Weather/Fire/Earthquake	0%	0%	0%	14%	8%	9%	0%	0%	0%	0%	0%	0%	41%	90%	48%	0%	0%	0%	0%	0%	91%	4%	47%	51%

Reliability Histories for Individual Circuits Serving Monrovia

	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
ROBBIE(16KV) - Customers: 2,049	1.5	0.0	0.0	108.4	1.0	0.0	0.0	0.0	0.0	1.8	0.0	1.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	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%	6%	2%	0%	0%	0%	0%	0%	0%	0%	87%	32%	0%	0%	0%	0%	0%	0%	0%	73%	25%	0%
Operation	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%	4%	18%	0%	0%	0%	0%	0%	0%	0%	4%	14%	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	100%	100%	0%	92%	97%	0%	0%	0%	0%	100%	100%	100%	9%	50%	0%	0%	0%	0%	0%	0%	0%	23%	61%	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%
SAINT JO(16KV) - Customers: 1,789	317.3	3.2	3.2	32.5	0.1	4.0	81.9	1.4	1.0	102.4	1.1	0.6	115.7	1.0	0.0	0.0	0.0	1.0	80.3	1.0	0.0	298.5	3.1	1.6
3rd Party	37%	31%	0%	0%	0%	25%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	33%	31%	29%	26%	10%	25%	75%	92%	0%	2%	0%	0%	96%	96%	0%	0%	0%	0%	0%	0%	0%	38%	32%	0%
Operation	2%	1%	0%	53%	51%	0%	9%	3%	0%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	2%	1%	0%
Other	16%	5%	0%	0%	0%	25%	11%	3%	0%	25%	4%	0%	4%	4%	0%	0%	0%	0%	0%	0%	0%	10%	3%	0%
Vegetation/Animal	1%	1%	41%	21%	39%	25%	5%	2%	0%	6%	4%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	2%	1%	63%
Weather/Fire/Earthquake	12%	31%	29%	0%	0%	0%	0%	0%	0%	61%	89%	100%	0%	0%	0%	0%	0%	0%	100%	99%	0%	48%	62%	37%
SANITARIUM(4.16KV) - Customers: 896	298.5	1.0	1.0	121.0	2.0	0.0	404.8	2.0	2.9	0.0	0.0	0.0	159.9	1.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	172.9	1.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	87%	50%	35%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	1%	1%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	7%	2%	0%
Operation	99%	99%	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%	0%	84%	50%	0%	13%	50%	30%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	93%	98%	0%
Vegetation/Animal	0%	0%	0%	16%	50%	0%	0%	0%	35%	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%
SHAMROCK(4.16KV) - Customers: 426	0.0	0.0	0.0	217.4	6.1	0.9	0.0	0.0	0.0	172.9	1.0	0.0	148.1	1.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	329.7	2.0	0.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	52%	50%	0%
Equipment Failure	0%	0%	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%	100%	100%	0%	3%	1%	0%
Other	0%	0%	0%	37%	34%	100%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	45%	49%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	63%	66%	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 Monrovia

	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
SPILLWAY(16KV) - Customers: 1,006	52.7	1.1	1.1	76.6	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	1.0	1.0	17.1	0.1	0.0	76.5	1.1	1.0
3rd Party	0%	0%	76%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	78%	93%	100%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	93%	95%	0%	21%	7%	0%
Operation	33%	26%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	5%	0%	1%	0%	0%
Vegetation/Animal	67%	74%	24%	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%
STANDISH(4.16KV) - Customers: 585	588.0	3.0	1.0	40.0	0.1	1.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
3rd Party	54%	67%	100%	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%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Weather/Fire/Earthquake	46%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%