



Circuit Reliability Review

Placentia

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 Fullerton District

Anaheim

Brea

Buena Park

Cypress

East La Mirada

Fullerton

Hacienda Heights

La Habra

La Habra Heights

La Mirada

La Palma

Placentia

Rowland Heights

Stanton

Yorba Linda

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.

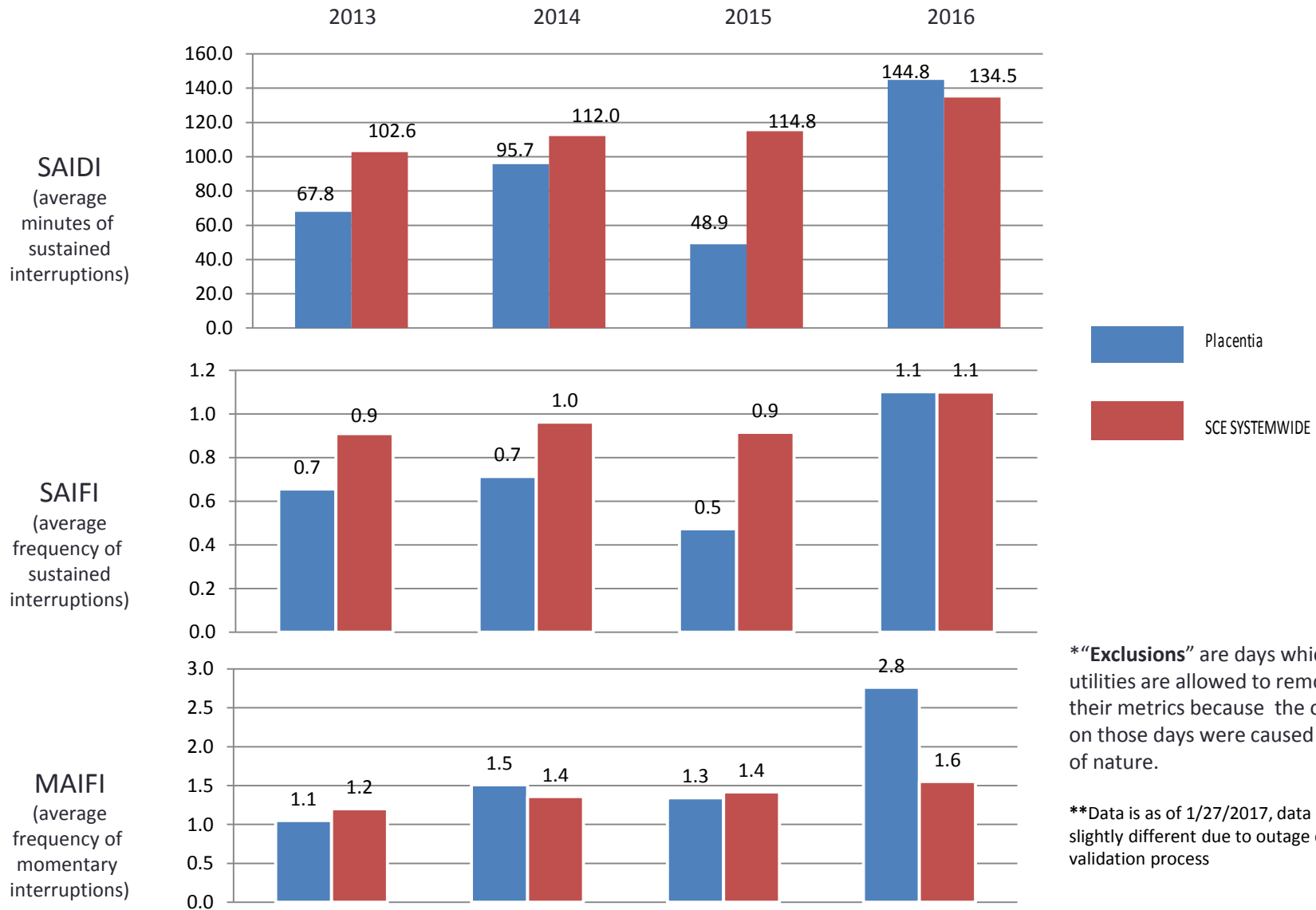
**In the columns showing "Rank," lower numbers indicate poorer performance.

Overview of Placentia

There are 28 circuits that serve Placentia

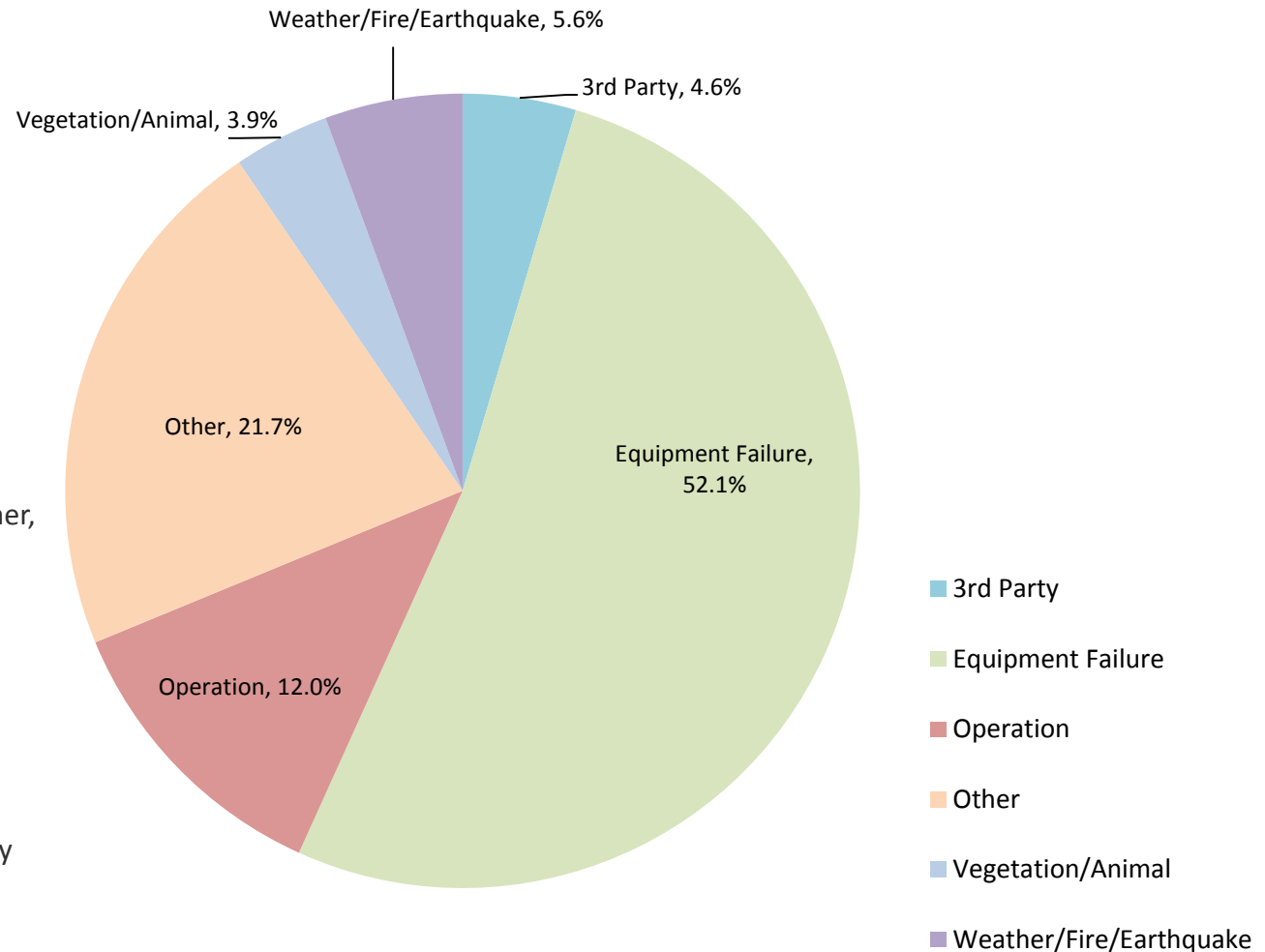
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
BAJA(12KV)	983						
BRETING(12KV)	2,027						
CANCUN(12KV)	740						
CARLTON(12KV)	896						
COACH(12KV)	2,040						
COURSE(12KV)	643						
CROWTHER(12KV)	1,563						
FINALS(12KV)	2,108						
GRADUATE(12KV)	1,197						
HURRICANE(12KV)	2,087						
MARDA(12KV)	1,019						
MASSACHUSETTS(12KV)	2,463						
MAZATLAN(12KV)	980						
OKLAHOMA(12KV)	1,361						
PERALTA(12KV)	2,134						
PLUMOSA(12KV)	2,397						
QUARTER(12KV)	729						
RHODE ISLAND(12KV)	282						
SCIENCE(12KV)	478						
SEMESTER(12KV)	296						
STUDENT(12KV)	2,226						
TEACHER(12KV)	583						
TERM(12KV)	2,472						
TUITION(12KV)	2,491						
VAN BUREN(12KV)	1,453						
VERA CRUZ(12KV)	1,363						
VORTEX(12KV)	739						
WISCONSIN(12KV)	1,446						
Grand Total	39,196						

Reliability History of Circuits Serving Placentia (No Exclusions)



Causes of Repair Outages in Pomona Circuits 2016 YTD

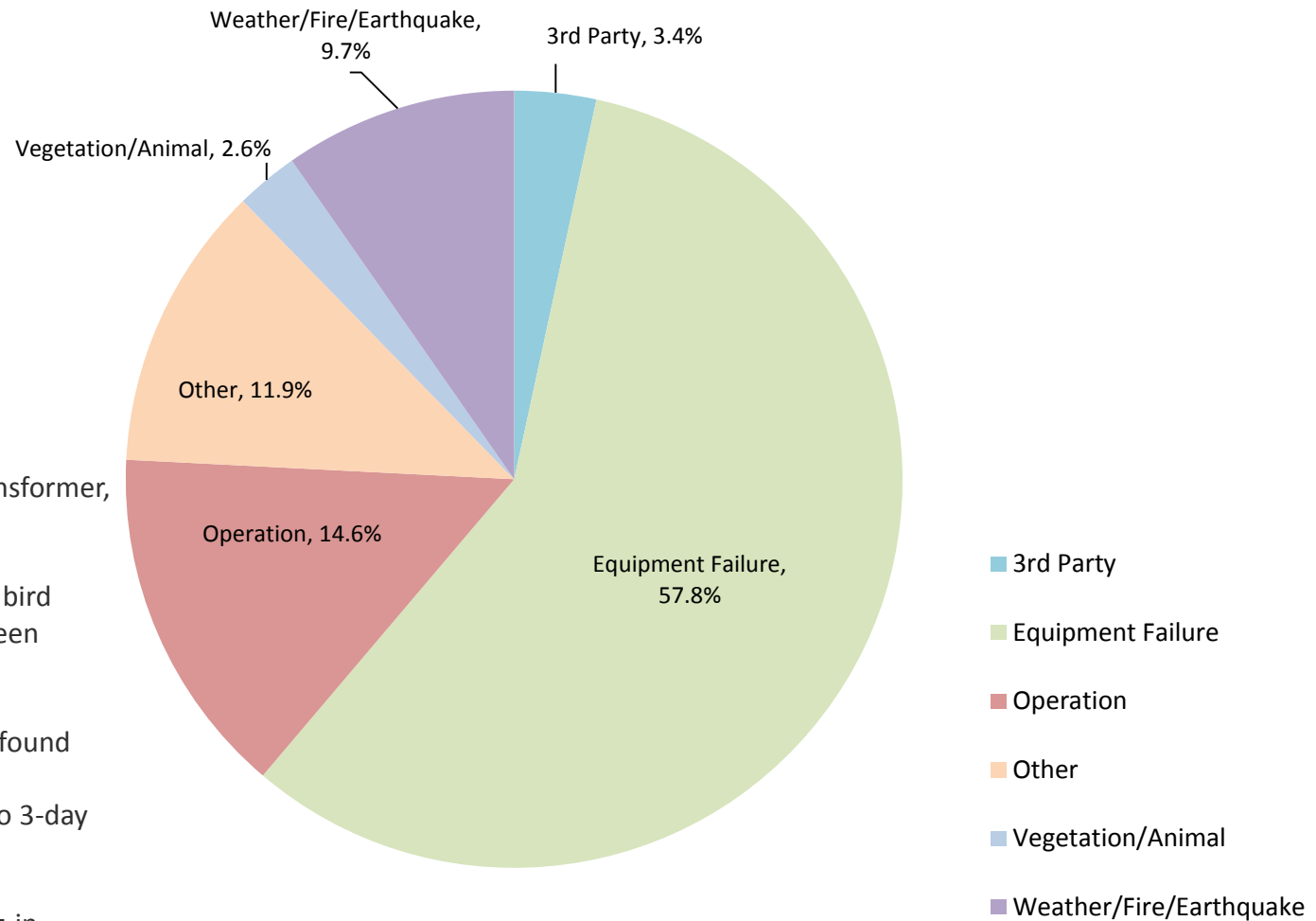
Contributions to SAIDI by Outage Cause



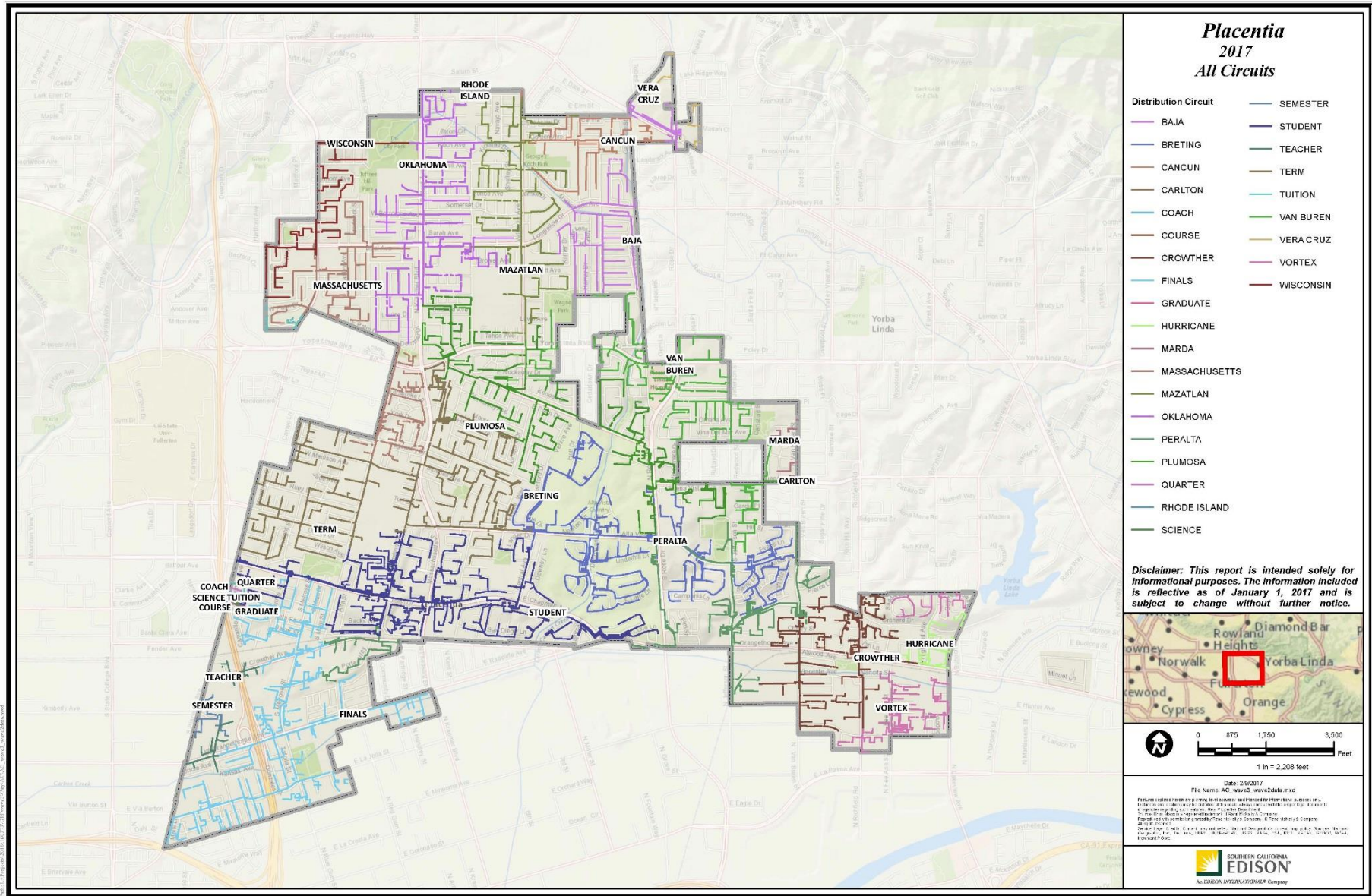
SAIDI = the cumulative amount of time the average customer is interrupted by “sustained” outages each year.

Causes of Repair Outages in Placentia 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 Placentia

Updated through Year-End 2016

Average Reliability of 28 Circuits Serving Placentia

	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
Placentia	0.7	1.1		95.7	0.7	1.5	48.9	0.5	1.3	70.4	0.5	0.5	28.3	0.2	1.0	33.4	0.2	0.4	12.7	0.2	0.9	144.8	1.1	2.8
3rd Party	22%	24%	27%	8%	10%	8%	23%	27%	27%	0%	0%	0%	22%	14%	3%	1%	6%	42%	0%	0%	1%	5%	3%	7%
Equipment Failure	58%	48%	5%	63%	43%	10%	51%	36%	6%	42%	56%	8%	67%	75%	86%	67%	64%	39%	35%	43%	36%	52%	58%	49%
Operation	14%	19%	15%	3%	3%	9%	11%	24%	2%	4%	12%	13%	6%	5%	0%	28%	25%	3%	29%	19%	3%	12%	15%	4%
Other	0%	0%	11%	6%	16%	18%	0%	0%	18%	45%	26%	17%	0%	0%	0%	0%	0%	0%	0%	0%	8%	22%	12%	6%
Vegetation/Animal	5%	8%	37%	12%	17%	52%	15%	14%	46%	4%	1%	31%	4%	6%	11%	2%	3%	16%	7%	2%	30%	4%	3%	22%
Weather/Fire/Earthquake	1%	1%	5%	8%	10%	3%	0%	0%	0%	6%	5%	32%	0%	0%	0%	1%	2%	0%	28%	35%	22%	6%	10%	13%
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 Placentia

	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
BAJA(12KV) - Customers: 983	93.5	1.3	0.0	170.1	1.4	0.1	11.6	0.0	0.0	0.2	0.0	1.0	29.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	0.0	2.0
3rd Party	0%	0%	0%	95%	95%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
Equipment Failure	99%	99%	0%	3%	1%	0%	76%	47%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	99%	98%	0%
Operation	0%	0%	0%	0%	0%	0%	24%	53%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	1%	1%	0%	3%	5%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	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%
BRETING(12KV) - Customers: 2,027	109.6	1.2	1.0	280.4	1.6	0.0	2.9	0.0	2.0	203.5	0.9	0.1	6.9	0.0	0.0	5.2	0.0	0.0	0.0	0.0	1.1	215.6	1.0	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	49%	85%	0%	100%	100%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	94%	93%	100%
Operation	51%	15%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	6%	7%	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%	100%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CANCUN(12KV) - Customers: 740	0.0	0.0	1.0	0.0	0.0	0.0	236.9	2.2	0.0	117.4	2.0	1.9	8.3	0.1	1.0	1.8	0.0	1.0	0.0	0.0	0.0	127.5	2.1	3.9
3rd Party	0%	0%	0%	0%	0%	0%	52%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	25%
Equipment Failure	0%	0%	0%	0%	0%	0%	43%	51%	0%	6%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	1%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	50%	100%	0%	0%	0%	100%	100%	0%	0%	0%	0%	19%	49%	49%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	84%	77%	0%	0%	0%	0%	0%	0%	0%	5%	2%	0%
Vegetation/Animal	0%	0%	100%	0%	0%	0%	4%	3%	0%	0%	0%	0%	16%	23%	100%	0%	0%	0%	0%	0%	0%	1%	1%	25%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	76%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	70%	47%	0%
CARLTON(12KV) - Customers: 896	261.4	0.7	1.0	29.9	0.0	0.0	0.0	0.0	1.8	76.4	1.0	0.0	430.4	1.0	0.0	11.4	0.0	0.0	0.0	0.0	2.0	518.2	2.0	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	98%	85%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%
Operation	1%	13%	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%	100%	0%	0%	100%
Vegetation/Animal	1%	2%	100%	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%	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 Placentia

	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
COACH(12KV) - Customers: 2,040	0.0	0.0	0.0	0.3	0.0	1.0	103.9	1.7	1.5	22.8	0.6	0.4	25.6	0.2	2.0	0.0	0.0	0.0	2.9	0.1	1.0	51.3	0.9	3.4
3rd Party	0%	0%	0%	0%	0%	0%	30%	63%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	100%	70%	37%	30%	0%	0%	0%	0%	0%	100%	0%	0%	0%	76%	88%	0%	4%	11%	59%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	55%	41%	0%	0%	0%	0%	24%	12%	0%	73%	77%	12%
Other	0%	0%	0%	0%	0%	0%	0%	0%	70%	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%	45%	59%	0%	0%	0%	0%	0%	0%	100%	23%	11%	29%
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%
COURSE(12KV) - Customers: 643	43.5	1.3	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0
3rd Party	100%	100%	0%	0%	0%	0%	100%	100%	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%	100%	0%	0%	0%	0%	0%	0%	0%	0%	67%
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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
CROWTHER(12KV) - Customers: 1,563	275.1	2.2	2.0	19.1	0.0	2.0	153.3	1.1	1.7	187.0	2.0	0.0	12.8	0.1	0.0	25.9	0.1	0.0	0.0	0.0	1.0	225.7	2.2	1.0
3rd Party	49%	47%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	44%	49%	0%	100%	100%	100%	95%	95%	0%	59%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	49%	45%	100%
Operation	7%	5%	0%	0%	0%	0%	5%	5%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	0%	0%	0%	17%	9%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	41%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	34%	45%	0%
Vegetation/Animal	0%	0%	50%	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FINALS(12KV) - Customers: 2,108	71.6	1.1	2.0	6.2	0.0	5.6	14.6	0.1	2.0	15.4	0.4	0.6	13.0	1.0	2.0	0.8	0.0	0.0	22.5	0.6	0.4	51.7	2.0	3.0
3rd Party	0%	0%	50%	9%	13%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	92%	8%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	0%	0%	0%	100%	100%	100%	98%	100%	100%
Operation	8%	92%	50%	2%	1%	18%	16%	9%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	2%	0%	0%
Other	0%	0%	0%	0%	0%	65%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	89%	86%	18%	84%	91%	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 Placentia

	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
GRADUATE(12KV) - Customers: 1,197	31.2	1.1	0.0	25.7	0.6	2.2	8.3	0.1	2.9	0.3	0.0	0.0	16.6	1.0	1.0	134.4	1.1	0.4	145.6	2.7	4.0	296.9	4.9	5.3
3rd Party	0%	0%	0%	0%	0%	45%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	34%	12%	0%	99%	99%	55%	0%	0%	34%	0%	0%	0%	100%	100%	100%	0%	0%	0%	24%	52%	50%	18%	50%	56%
Operation	0%	0%	0%	1%	1%	0%	100%	100%	32%	100%	100%	0%	0%	0%	0%	93%	90%	100%	76%	48%	25%	79%	48%	25%
Other	0%	0%	0%	0%	0%	0%	0%	0%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	0%	0%	19%
Vegetation/Animal	56%	86%	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	9%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	10%	0%	0%	0%	0%	3%	2%	0%
HURRICANE(12KV) - Customers: 2,087	87.7	0.2	1.0	102.0	1.2	1.0	78.7	2.2	1.5	9.4	0.1	0.0	0.0	0.0	0.0	72.4	0.1	0.0	0.0	0.0	0.0	81.8	0.2	0.0
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	62%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	76%	47%	0%	33%	11%	0%	82%	51%	38%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	19%	43%	0%	17%	6%	0%	13%	46%	0%	41%	43%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	93%	72%	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	5%	10%	0%	50%	83%	100%	5%	3%	0%	59%	57%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	28%	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%
MARDA(12KV) - Customers: 1,019	22.0	0.2	1.0	82.4	0.2	1.1	38.7	0.1	2.0	69.7	1.0	0.0	244.8	1.0	0.0	60.4	0.2	0.0	2.2	0.0	1.0	377.1	2.2	1.0
3rd Party	100%	100%	0%	0%	0%	92%	0%	0%	0%	0%	0%	0%	100%	100%	0%	16%	68%	0%	100%	100%	0%	68%	52%	0%
Equipment Failure	0%	0%	0%	80%	48%	0%	98%	96%	0%	100%	100%	0%	0%	0%	0%	84%	32%	0%	0%	0%	100%	32%	48%	100%
Operation	0%	0%	0%	20%	52%	8%	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%	100%	0%	0%	0%	2%	4%	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%
MASSACHUSETTS(12KV) - Customers: 2,463	71.0	1.0	0.0	50.8	1.0	2.0	0.0	0.0	1.0	5.5	0.0	1.0	35.4	0.1	0.0	109.0	0.7	1.9	22.3	0.1	0.0	172.2	0.9	2.9
3rd Party	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	17%	100%	0%	0%	0%	1%	12%	65%
Equipment Failure	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	76%	40%	0%	99%	83%	0%	79%	41%	0%	88%	69%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	3%	6%	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%	100%	0%	0%	100%	24%	57%	0%	0%	0%	0%	21%	59%	0%	8%	13%	35%
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%

Reliability Histories for Individual Circuits Serving Placentia

	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
MAZATLAN(12KV) - Customers: 980	38.3	0.4	1.0	48.9	0.2	0.1	36.9	0.2	0.0	142.8	0.3	0.9	3.2	0.0	0.0	12.8	0.1	1.0	0.0	0.0	0.0	158.7	0.4	1.9
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%	53%
Equipment Failure	16%	10%	0%	77%	54%	100%	6%	8%	0%	25%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	22%	19%	0%
Operation	20%	5%	0%	23%	46%	0%	86%	70%	0%	5%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	39%	0%
Other	12%	12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	53%	72%	100%	0%	0%	0%	8%	23%	0%	70%	25%	100%	100%	100%	0%	100%	100%	0%	0%	0%	0%	73%	42%	47%
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%
OKLAHOMA(12KV) - Customers: 1,361	74.4	1.0	0.0	103.7	0.3	5.0	27.2	0.1	0.0	1.5	0.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	1.0
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	16%	0%
Equipment Failure	100%	99%	0%	99%	84%	0%	96%	88%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	1%	0%	1%	16%	40%	3%	11%	0%	67%	84%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	67%	84%	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%	60%	1%	1%	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%
PERALTA(12KV) - Customers: 2,134	125.7	1.6	5.7	98.6	2.7	0.9	66.2	1.5	2.9	94.5	0.9	0.0	0.2	0.0	0.0	48.4	0.6	1.7	4.0	0.0	1.2	147.2	1.6	2.8
3rd Party	0%	0%	0%	0%	0%	0%	30%	19%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	9%	3%	0%	16%	57%	0%	1%	0%	0%	81%	76%	0%	0%	0%	0%	100%	100%	100%	0%	0%	100%	85%	85%	100%
Operation	91%	97%	65%	3%	1%	0%	69%	81%	0%	2%	1%	0%	100%	100%	0%	0%	0%	0%	100%	100%	0%	4%	2%	0%
Other	0%	0%	18%	81%	41%	100%	0%	0%	0%	17%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	11%	13%	0%
Vegetation/Animal	0%	0%	18%	0%	0%	0%	0%	0%	67%	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%
PLUMOSA(12KV) - Customers: 2,397	7.9	0.1	4.0	163.3	0.9	2.2	0.0	0.0	1.9	57.3	1.0	0.0	1.0	0.0	0.0	5.5	0.1	1.0	50.0	1.0	2.9	113.8	2.1	3.8
3rd Party	0%	0%	50%	12%	35%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	36%	24%	0%	22%	7%	0%	0%	0%	0%	98%	98%	0%	100%	100%	0%	32%	22%	0%	1%	0%	33%	52%	49%	24%
Operation	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	21%	0%	0%	0%	0%	0%	1%	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	64%	76%	25%	66%	57%	68%	0%	0%	100%	2%	2%	0%	0%	0%	0%	64%	57%	100%	21%	4%	0%	14%	5%	26%
Weather/Fire/Earthquake	0%	0%	25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	78%	95%	67%	34%	46%	50%

Reliability Histories for Individual Circuits Serving Placentia

	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
QUARTER(12KV) - Customers: 729	49.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	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	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	67%
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%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
RHODE ISLAND(12KV) - Customers: 282	0.0	0.0	0.0	4.4	0.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5	1.0	0.0	93.5	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%
Operation	0%	0%	0%	100%	100%	34%	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%	66%	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%
SCIENCE(12KV) - Customers: 478	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	0.0	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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	67%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
SEMESTER(12KV) - Customers: 296	0.0	0.0	1.0	0.0	0.0	0.0	6.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0
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%	100%	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	67%
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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	33%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Reliability Histories for Individual Circuits Serving Placentia

	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
STUDENT(12KV) - Customers: 2,226	78.2	0.9	0.9	148.7	1.1	0.0	22.6	0.1	2.0	0.9	0.0	0.0	0.0	0.0	3.0	38.7	0.0	0.0	5.4	0.0	0.9	44.9	0.1	3.9
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	89%	94%	0%	100%	100%	0%	86%	57%	0%	0%	0%	0%	0%	69%	100%	100%	0%	100%	100%	0%	98%	93%	52%	
Operation	9%	3%	0%	0%	0%	0%	14%	43%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	7%	0%	
Other	1%	2%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Vegetation/Animal	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	31%	0%	0%	0%	0%	0%	100%	0%	0%	48%	
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%	
TEACHER(12KV) - Customers: 583	108.4	0.2	0.5	192.8	0.5	0.6	90.0	0.5	1.4	183.8	0.6	0.7	117.7	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	301.6	1.6	1.7
3rd Party	0%	0%	100%	0%	0%	0%	86%	97%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	0%	0%	0%	0%	14%	3%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	39%	62%	57%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	
Other	0%	0%	0%	0%	0%	0%	0%	0%	58%	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%	100%	0%	0%	0%	100%	100%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	61%	38%	26%
TERM(12KV) - Customers: 2,472	23.9	0.1	1.0	79.8	0.4	3.5	14.5	0.1	0.0	400.9	1.2	1.2	40.2	0.2	3.0	7.3	0.0	0.0	0.0	0.0	0.9	448.4	1.4	5.1
3rd Party	0%	0%	0%	21%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	53%	36%	0%	55%	16%	0%	54%	38%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	9%	12%	59%
Operation	0%	0%	0%	4%	3%	0%	46%	62%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	2%	3%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	89%	85%	23%
Vegetation/Animal	30%	33%	0%	19%	73%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	18%	
Weather/Fire/Earthquake	17%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TUITION(12KV) - Customers: 2,491	17.2	0.1	0.0	86.4	0.1	0.0	84.3	0.5	2.0	0.0	0.0	2.3	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	5.3
3rd Party	0%	0%	0%	0%	0%	0%	97%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	100%	100%	0%	3%	1%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	38%
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%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	19%	
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%

Reliability Histories for Individual Circuits Serving Placentia

	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
VAN BUREN(12KV) - Customers: 1,453	26.0	0.2	1.0	76.1	0.8	0.5	153.2	0.6	2.7	55.1	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	55.7	1.0	1.0
3rd Party	0%	0%	0%	50%	69%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	4%	4%	0%	38%	12%	3%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	99%	99%	100%
Operation	0%	0%	0%	0%	0%	0%	13%	8%	0%	0%	0%	0%	0%	0%	0%	64%	89%	0%	0%	0%	0%	1%	1%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	36%	11%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	100%	100%	100%	46%	27%	0%	49%	81%	97%	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%
VERA CRUZ(12KV) - Customers: 1,363	18.2	0.3	0.0	147.7	2.0	1.0	12.4	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	17.5	0.2	0.8	25.7	0.3	2.1	43.2	0.6	3.0
3rd Party	41%	3%	0%	1%	0%	1%	72%	49%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	0%	4%
Equipment Failure	27%	96%	0%	40%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	41%	42%	27%
Operation	0%	0%	0%	0%	1%	0%	14%	47%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	3%	0%	9%	2%	0%
Other	0%	0%	0%	57%	96%	99%	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%	14%	4%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%
Weather/Fire/Earthquake	32%	1%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	85%	97%	95%	50%	56%	66%
VORTEX(12KV) - Customers: 739	173.8	1.3	1.8	371.4	0.5	0.0	9.4	0.1	2.0	0.0	0.0	0.0	74.4	0.1	0.0	46.4	0.1	0.0	0.0	0.0	0.0	120.8	0.2	0.0
3rd Party	94%	97%	43%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	0%	0%	0%	98%	88%	0%	15%	4%	0%	0%	0%	0%	100%	100%	100%	77%	29%	0%	0%	0%	0%	91%	54%	100%
Operation	0%	0%	0%	0%	0%	0%	21%	52%	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%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	6%	3%	57%	2%	12%	0%	64%	44%	0%	0%	0%	0%	0%	0%	0%	23%	71%	0%	0%	0%	0%	9%	46%	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%
WISCONSIN(12KV) - Customers: 1,446	122.8	1.2	1.4	115.2	1.2	3.0	185.1	1.3	1.0	27.7	0.1	1.0	0.0	0.0	0.0	225.9	1.1	0.9	2.7	0.0	0.0	256.4	1.2	1.9
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	100%	100%	100%	90%	86%	0%	51%	11%	0%	100%	100%	0%	0%	0%	0%	99%	99%	100%	0%	0%	0%	98%	99%	49%
Operation	0%	0%	0%	10%	14%	0%	3%	9%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	1%	1%	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%	67%	46%	80%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	51%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	1%	1%	0%