



Circuit Reliability Review

Cypress

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.

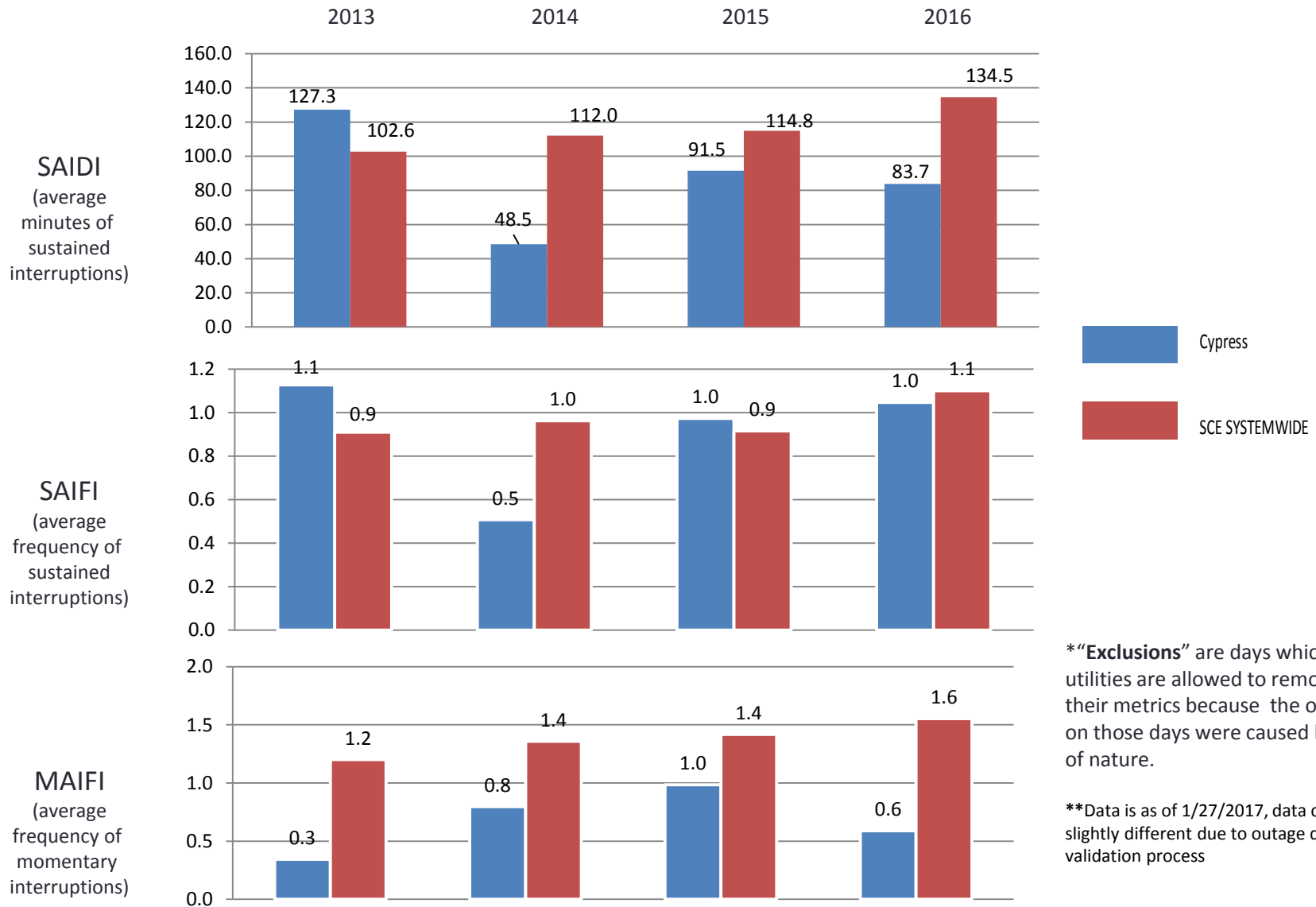
Overview of Cypress

There are 23 circuits that serve Cypress

| Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers |
|----------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
| ANNETTE(12KV) | 803 | | | | | | |
| BERNICE(12KV) | 92 | | | | | | |
| BERTHA(12KV) | 2,206 | | | | | | |
| CLAIR(12KV) | 263 | | | | | | |
| CLAUDIA(12KV) | 2,089 | | | | | | |
| DAFFODIL(12KV) | 1,146 | | | | | | |
| DIANA(12KV) | 1,530 | | | | | | |
| ECUADOR(12KV) | 3,329 | | | | | | |
| FELA(12KV) | 942 | | | | | | |
| FOXGLOVE(12KV) | 1,440 | | | | | | |
| GRETA(12KV) | 222 | | | | | | |
| HEREFORD(12KV) | 2,350 | | | | | | |
| JACQUE(12KV) | 2,374 | | | | | | |
| KAREN(12KV) | 2,355 | | | | | | |
| KATELLA(12KV) | 1,236 | | | | | | |
| KRISTEN(12KV) | 1,000 | | | | | | |
| MILDRED(12KV) | 1,420 | | | | | | |
| RAVENNA(12KV) | 2,080 | | | | | | |
| RZYSKI(12KV) | 2,599 | | | | | | |
| STELLA(12KV) | 2,678 | | | | | | |
| THORPE(12KV) | 867 | | | | | | |
| TRINIDAD(12KV) | 2,007 | | | | | | |
| VERBENA(12KV) | 2,548 | | | | | | |

Grand Total 37,576

Reliability History of Circuits Serving Cypress (No Exclusions)



Causes of Repair Outages in Cypress Circuits 2016 YTD

Contributions to SAIDI by Outage Cause

Vegetation/Animal, 0.0% Weather/Fire/Earthquake, 0.4%

Other, 0.5%

3rd Party, 4.6%

Operation, 44.8%

Equipment Failure, 49.6%

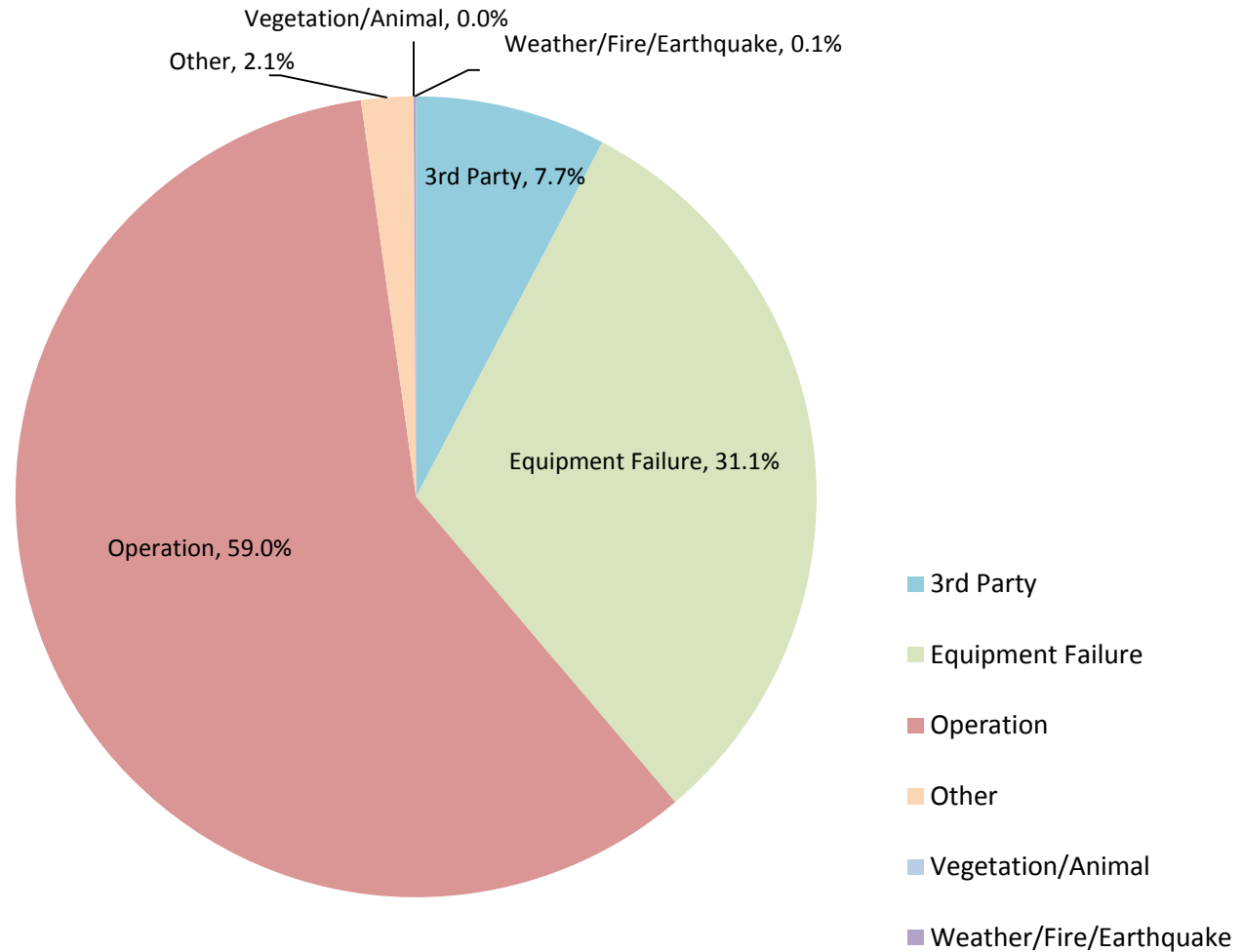
- **Equipment Failure**
e.g., in-service failure of transformer, switch, or conductors
- **Vegetation/Animal**
e.g., tree branch, rodent, or bird causing a short circuit between conductors
- **Other**
e.g., patrolled but no cause found
- **Operations**
e.g., urgent maintenance w/o 3-day notice
- **3rd Party**
e.g., balloon, car hit pole, dig-in

- 3rd Party
- Equipment Failure
- Operation
- Other
- Vegetation/Animal
- Weather/Fire/Earthquake

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

Causes of Repair Outages in Cypress 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 Cypress

Updated through Year-End 2016

Average Reliability of 23 Circuits Serving Cypress

| | 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 |
| Cypress | 127.3 | 1.1 | 0.3 | 48.5 | 0.5 | 0.8 | 91.5 | 1.0 | 1.0 | 39.8 | 0.6 | 0.1 | 3.5 | 0.1 | 0.1 | 5.3 | 0.0 | 0.2 | 35.2 | 0.3 | 0.3 | 83.7 | 1.0 | 0.6 |
| 3rd Party | 6% | 10% | 16% | 26% | 31% | 30% | 15% | 46% | 33% | 1% | 1% | 0% | 13% | 42% | 100% | 47% | 41% | 0% | 2% | 4% | 64% | 5% | 8% | 41% |
| Equipment Failure | 55% | 49% | 31% | 36% | 13% | 6% | 50% | 23% | 27% | 21% | 23% | 26% | 34% | 3% | 0% | 46% | 33% | 56% | 84% | 62% | 0% | 50% | 31% | 20% |
| Operation | 5% | 5% | 31% | 16% | 19% | 20% | 17% | 10% | 2% | 77% | 76% | 0% | 53% | 55% | 0% | 7% | 26% | 13% | 13% | 26% | 0% | 45% | 59% | 4% |
| Other | 32% | 35% | 22% | 1% | 0% | 4% | 6% | 9% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 8% | 35% | 1% | 2% | 18% |
| Vegetation/Animal | 0% | 1% | 0% | 11% | 24% | 33% | 3% | 3% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 20% | 0% | 0% | 0% | 0% | 0% | 6% |
| Weather/Fire/Earthquake | 1% | 0% | 0% | 10% | 13% | 6% | 10% | 9% | 12% | 1% | 0% | 74% | 0% | 0% | 0% | 0% | 0% | 11% | 0% | 0% | 0% | 0% | 0% | 10% |
| 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 Cypress

| | 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 |
| ANNETTE(12KV) - Customers: 803 | 209.5 | 2.6 | 1.5 | 11.2 | 0.1 | 0.0 | 87.2 | 1.0 | 2.0 | 129.7 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 98.1 | 0.2 | 1.0 | 0.0 | 0.0 | 0.0 | 227.8 | 2.1 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 43% | 7% | 0% |
| Equipment Failure | 59% | 61% | 33% | 26% | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 74% | 90% | 0% | 0% | 0% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 57% | 93% | 0% |
| Other | 41% | 39% | 67% | 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% | 100% | 100% | 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% | 100% | 0% | 0% | 0% | 0% | 0% | 100% |
| BERNICE(12KV) - Customers: 92 | 308.3 | 2.0 | 1.1 | 49.6 | 1.0 | 0.0 | 106.4 | 2.7 | 0.9 | 65.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65.2 | 1.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 8% | 37% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 41% | 51% | 100% | 5% | 1% | 0% | 92% | 63% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 59% | 49% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 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% | 0% | 95% | 99% | 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% |
| BERTHA(12KV) - Customers: 2,206 | 196.7 | 2.1 | 0.3 | 100.0 | 1.1 | 1.0 | 170.0 | 3.1 | 2.0 | 83.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 129.7 | 1.0 | 0.0 | 213.1 | 2.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 32% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 49% | 50% | 100% | 30% | 7% | 0% | 37% | 33% | 50% | 6% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 63% | 50% | 0% |
| Operation | 8% | 3% | 0% | 4% | 3% | 100% | 5% | 3% | 0% | 91% | 99% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 36% | 50% | 0% |
| Other | 44% | 48% | 0% | 0% | 0% | 0% | 0% | 0% | 50% | 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% | 66% | 90% | 0% | 52% | 32% | 0% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 0% | 0% |
| CLAIR(12KV) - Customers: 263 | 180.1 | 2.0 | 0.0 | 30.5 | 0.1 | 1.0 | 110.4 | 1.0 | 1.0 | 43.1 | 0.1 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 43.1 | 0.1 | 2.9 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 100% | 100% | 0% | 13% | 2% | 0% | 0% | 0% | 100% | 40% | 16% | 51% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 40% | 16% | 51% |
| Operation | 0% | 0% | 0% | 5% | 38% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Other | 0% | 0% | 0% | 81% | 60% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 60% | 84% | 49% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 60% | 84% | 49% |

Reliability Histories for Individual Circuits Serving Cypress

| | 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 |
| CLAUDIA(12KV) - Customers: 2,089 | 148.6 | 1.3 | 0.0 | 45.9 | 0.4 | 1.0 | 28.8 | 1.1 | 0.0 | 65.1 | 1.0 | 0.0 | 1.5 | 0.0 | 1.0 | 6.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.5 | 1.0 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 60% | 64% | 100% | 31% | 92% | 0% | 0% | 0% | 0% | 100% | 100% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 11% | 1% | 100% |
| Equipment Failure | 18% | 7% | 0% | 0% | 0% | 0% | 67% | 7% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 1% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 89% | 99% | 0% |
| Other | 57% | 79% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 6% | 6% | 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 | 19% | 8% | 0% | 40% | 36% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| DAFFODIL(12KV) - Customers: 1,146 | 268.2 | 2.2 | 2.0 | 84.6 | 1.1 | 0.0 | 46.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3rd Party | 4% | 4% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 60% | 90% | 50% | 100% | 100% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 36% | 6% | 50% | 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% | 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% |
| DIANA(12KV) - Customers: 1,530 | 0.0 | 0.0 | 0.0 | 110.8 | 2.4 | 0.0 | 68.1 | 2.0 | 0.5 | 64.6 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 79.3 | 0.6 | 1.0 | 143.9 | 1.6 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 57% | 59% | 0% | 13% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 0% | 0% | 0% | 0% | 0% | 0% | 74% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 13% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 86% | 16% | 0% | 92% | 67% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 14% | 84% | 100% | 8% | 33% | 100% |
| Vegetation/Animal | 0% | 0% | 0% | 43% | 41% | 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% |
| ECUADOR(12KV) - Customers: 3,329 | 98.3 | 1.5 | 0.5 | 70.8 | 0.3 | 2.8 | 24.2 | 0.0 | 0.0 | 15.3 | 1.1 | 0.0 | 4.3 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.0 | 1.1 | 0.0 |
| 3rd Party | 91% | 97% | 100% | 66% | 27% | 65% | 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% | 83% | 0% | 100% | 100% | 0% | 48% | 20% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 87% | 98% | 0% |
| Operation | 7% | 1% | 0% | 33% | 73% | 0% | 4% | 17% | 0% | 0% | 0% | 0% | 52% | 80% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 13% | 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 | 2% | 2% | 0% | 0% | 0% | 35% | 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 Cypress

| | 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 |
| FELA(12KV) - Customers: 942 | 151.2 | 1.1 | 0.0 | 50.6 | 0.1 | 0.0 | 333.2 | 1.6 | 0.0 | 11.2 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 31.2 | 0.1 | 0.0 | 42.4 | 0.1 | 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% | 100% | 100% | 0% | 28% | 8% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 7% | 8% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 50% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 32% | 37% | 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% | 0% | 0% | 0% | 33% | 47% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 50% |
| FOXGLOVE(12KV) - Customers: 1,440 | 23.5 | 0.1 | 0.6 | 0.0 | 0.0 | 0.0 | 64.3 | 0.1 | 0.0 | 120.0 | 1.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 120.2 | 1.0 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 100% | 100% | 100% | 0% | 0% | 0% | 15% | 42% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 100% | 99% | 100% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 85% | 58% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 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 | 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% |
| GRETA(12KV) - Customers: 222 | 0.0 | 0.0 | 0.0 | 46.6 | 1.0 | 0.0 | 9.0 | 1.0 | 0.0 | 64.8 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.8 | 1.0 | 0.0 |
| 3rd Party | 0% | 0% | 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% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 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% | 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% |
| HEREFORD(12KV) - Customers: 2,350 | 105.6 | 1.1 | 0.0 | 41.1 | 0.1 | 1.0 | 221.1 | 1.1 | 3.0 | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 |
| 3rd Party | 6% | 7% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 94% | 93% | 0% | 99% | 86% | 0% | 18% | 5% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 81% | 67% | 0% |
| Operation | 0% | 0% | 0% | 1% | 14% | 0% | 82% | 95% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 19% | 33% | 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 | 0% | 0% | 0% | 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% | 100% | 0% | 0% | 33% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Reliability Histories for Individual Circuits Serving Cypress

| | 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 |
| JACQUE(12KV) - Customers: 2,374 | 372.4 | 1.4 | 0.0 | 7.2 | 0.0 | 2.0 | 42.1 | 1.1 | 0.0 | 57.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 0.0 | 31.2 | 0.4 | 1.9 | 94.3 | 1.3 | 1.9 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 21% | 88% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 35% | 49% | 100% | 11% | 14% | 100% |
| Equipment Failure | 42% | 20% | 0% | 76% | 43% | 0% | 55% | 7% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 17% | 12% | 0% | 12% | 5% | 0% |
| Operation | 0% | 0% | 0% | 24% | 57% | 100% | 2% | 1% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 48% | 39% | 0% | 77% | 81% | 0% |
| Other | 58% | 80% | 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% | 21% | 5% | 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% |
| KAREN(12KV) - Customers: 2,355 | 104.3 | 1.1 | 1.0 | 53.4 | 0.1 | 1.0 | 32.3 | 1.1 | 0.0 | 91.4 | 1.3 | 0.0 | 5.7 | 0.9 | 0.0 | 2.6 | 0.0 | 0.0 | 23.0 | 0.1 | 0.0 | 122.6 | 2.3 | 0.0 |
| 3rd Party | 15% | 11% | 0% | 2% | 12% | 100% | 43% | 95% | 0% | 5% | 5% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 8% | 44% | 0% |
| Equipment Failure | 0% | 0% | 0% | 11% | 36% | 0% | 51% | 3% | 0% | 8% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 99% | 96% | 0% | 24% | 4% | 0% |
| Operation | 2% | 0% | 100% | 87% | 52% | 0% | 3% | 1% | 0% | 88% | 93% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 1% | 4% | 0% | 68% | 52% | 0% |
| Other | 82% | 89% | 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% | 4% | 1% | 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% |
| KATELLA(12KV) - Customers: 1,236 | 72.1 | 1.0 | 0.0 | 1.4 | 0.0 | 1.0 | 218.3 | 0.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 112.4 | 1.9 | 0.0 | 112.4 | 1.9 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 95% | 94% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 97% | 99% | 0% | 0% | 0% | 0% | 5% | 6% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 93% | 53% | 100% | 93% | 53% | 100% |
| Operation | 3% | 1% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 7% | 47% | 0% | 7% | 47% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 100% | 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% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| KRISTEN(12KV) - Customers: 1,000 | 6.0 | 0.0 | 0.0 | 44.7 | 1.0 | 0.0 | 492.9 | 1.5 | 1.0 | 35.9 | 0.5 | 0.0 | 0.4 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.2 | 0.6 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 68% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 100% | 100% | 0% | 0% | 0% | 0% | 98% | 32% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 12% | 2% | 0% |
| Operation | 0% | 0% | 0% | 2% | 2% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 88% | 98% | 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% | 98% | 98% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Reliability Histories for Individual Circuits Serving Cypress

| | 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 |
| MILDRED(12KV) - Customers: 1,420 | 99.1 | 1.6 | 0.0 | 3.8 | 0.0 | 0.0 | 102.6 | 1.1 | 0.9 | 65.4 | 1.0 | 0.0 | 6.8 | 0.1 | 0.0 | 0.0 | 0.0 | 1.0 | 3.5 | 0.0 | 0.0 | 75.6 | 1.1 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 8% | 76% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 9% | 3% | 0% | 0% | 0% | 0% | 85% | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 3% | 35% | 0% | 100% | 100% | 0% | 2% | 4% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% |
| Other | 87% | 62% | 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% | 6% | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 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% |
| RAVENNA(12KV) - Customers: 2,080 | 0.0 | 0.0 | 0.0 | 4.3 | 0.1 | 1.5 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 17.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 69.5 | 0.7 | 0.0 | 87.3 | 0.7 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 100% | 100% | 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% | 100% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 88% | 14% | 0% | 90% | 22% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 12% | 86% | 0% | 10% | 78% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| RZYSKI(12KV) - Customers: 2,599 | 63.6 | 1.0 | 0.0 | 132.5 | 1.2 | 1.0 | 16.4 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.2 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 8% | 4% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 100% | 100% | 0% | 74% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 18% | 83% | 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% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| STELLA(12KV) - Customers: 2,678 | 38.9 | 0.2 | 0.0 | 59.2 | 1.1 | 0.0 | 203.7 | 3.1 | 2.0 | 81.7 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.5 | 0.0 | 0.0 | 174.7 | 1.0 | 1.0 | 285.8 | 2.1 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 23% | 8% | 0% | 4% | 32% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 100% |
| Equipment Failure | 97% | 97% | 0% | 0% | 0% | 0% | 74% | 32% | 50% | 20% | 3% | 0% | 0% | 0% | 0% | 93% | 53% | 0% | 100% | 100% | 0% | 77% | 51% | 0% |
| Operation | 3% | 3% | 0% | 3% | 1% | 0% | 9% | 3% | 0% | 80% | 97% | 0% | 0% | 0% | 0% | 7% | 47% | 0% | 0% | 0% | 0% | 23% | 49% | 0% |
| Other | 0% | 0% | 0% | 0% | 0% | 0% | 13% | 32% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 74% | 91% | 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 Cypress

| | 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 |
| THORPE(12KV) - Customers: 867 | 155.5 | 1.2 | 1.0 | 2.6 | 0.0 | 1.0 | 6.3 | 0.8 | 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 | 9% | 2% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 91% | 98% | 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% | 100% | 100% | 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% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| TRINIDAD(12KV) - Customers: 2,007 | 93.5 | 0.2 | 0.0 | 13.6 | 0.2 | 1.9 | 75.2 | 0.1 | 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% | 2% | 26% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 94% | 77% | 0% | 97% | 69% | 49% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 6% | 23% | 0% | 1% | 5% | 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% | 51% | 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% |
| VERBENA(12KV) - Customers: 2,548 | 126.4 | 0.2 | 0.0 | 72.1 | 1.1 | 0.0 | 30.6 | 0.1 | 3.9 | 0.0 | 0.0 | 0.0 | 14.7 | 0.9 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 14.7 | 0.9 | 1.0 |
| 3rd Party | 0% | 0% | 0% | 83% | 94% | 0% | 0% | 0% | 25% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 89% | 63% | 0% | 17% | 6% | 0% | 87% | 83% | 24% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 100% |
| Operation | 11% | 22% | 0% | 0% | 0% | 0% | 13% | 17% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Other | 0% | 16% | 0% | 0% | 0% | 0% | 0% | 0% | 25% | 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% | 0% | 0% | 0% | 0% | 0% | 26% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |