



Circuit Reliability Review

Diamond Bar

January 2017

Providing Safe, Reliable, and Affordable Power

Southern California Edison is modernizing the power grid to meet the changing needs and expectations of our customers and to help California achieve its clean energy goals.

We are investing more than \$12 billion into our power grid between 2015 – 2017 with the goal of increasing power reliability through significant upgrades. These investments include:

- Updating thousands of transmission and distribution poles
- Replacing hundreds of miles of underground cables
- Replacing hundreds of underground structures such as vaults and manholes
- Upgrading critical distribution equipment; capacitor banks, switches, and circuit breakers
- Building new distribution circuits to serve electrical demands in our communities
- Inspecting and replacing overhead conductor and equipment to improve public safety

Our investments in local communities will help ensure that customers receive safe, reliable, and affordable electricity now and in the future.

Understanding Your Reliability Report

As your electric utility, we want you to always have power when you need it. To get there, we constantly track and monitor electric outages across our service territory, and we measure our “system reliability” from this data.

The two metrics we rely on are common in the electric utility industry: the System Average Interruption Duration Index (SAIDI) and the System Average Interruption Frequency Index (SAIFI). Both are described in more detail on the next page.

Replacing and upgrading our infrastructure will help SCE maintain or improve SAIDI and SAIFI measurements.

This report provides historical reliability data for the circuits that serve your jurisdiction and our proposed infrastructure upgrades for the current year.

To view other reliability reports, visit [sce.com>Outage Center>Maintaining Reliable Service](https://sce.com/Outage-Center/Maintaining-Reliable-Service)

Reliability Metrics

MOMENTARY OUTAGES:

OUTAGES LASTING 5 MINUTES OR LESS

MAIFI:

- The number of times the average customer is interrupted by Momentary outages each year.

SUSTAINED OUTAGES:

OUTAGES LASTING LONGER THAN 5 MINUTES

SAIFI:

- The number of times the average customer is interrupted by Sustained outages each year.

SAIDI:

- The cumulative amount of time the average customer is interrupted by Sustained outages each year.

Cities in the Covina District

Avocado Heights

Azusa

Baldwin Park

Brea

Charter Oak

Chino

Chino Hills

Citrus

Claremont

Covina

Diamond Bar

Duarte

Glendora

Hacienda Heights

Industry

Irwindale

La Habra

La Habra Heights

La Puente

La Verne

Montclair

Pomona

Rowland Heights

San Dimas

South San Jose Hills

Upland

Valinda

Vincent

Walnut

West Covina

West Puente Valley

Whittier

Overview of Diamond Bar

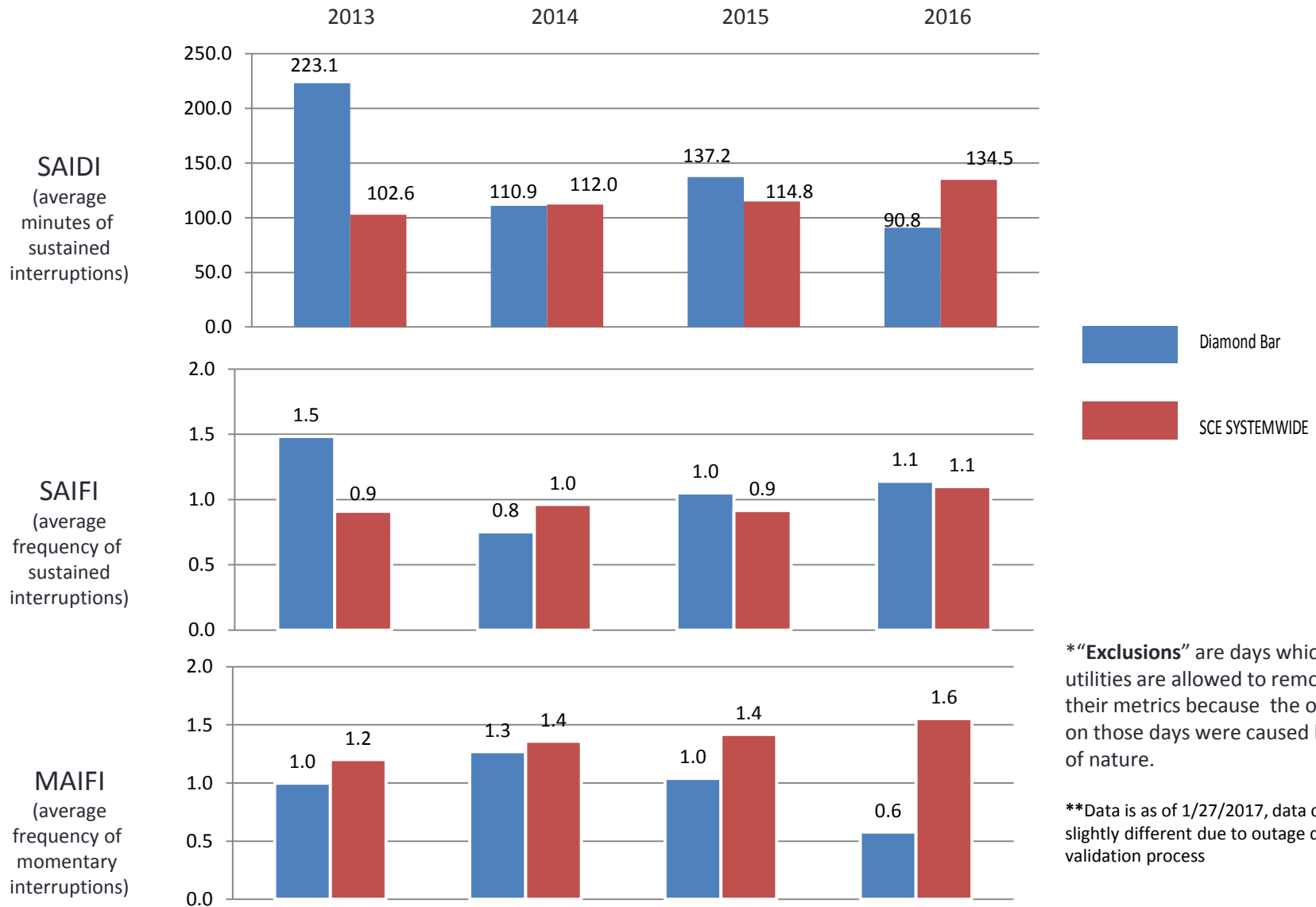
There are 19 circuits that serve Diamond Bar

| Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers | Circuit Type | Sum of Customers |
|------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
| AMBUSHERS(12KV) | 1,847 | | | | | | |
| ANTLER(12KV) | 1,516 | | | | | | |
| BANDIT(12KV) | 2,087 | | | | | | |
| BOOTHILL(12KV) | 676 | | | | | | |
| BRAKEMAN(12KV) | 1,704 | | | | | | |
| CHIME(12KV) | 2,132 | | | | | | |
| FINISHLINE(12KV) | 2,229 | | | | | | |
| GONDOLA(12KV) | 810 | | | | | | |
| HEISMAN(12KV) | 2,222 | | | | | | |
| HIGHNOON(12KV) | 2,291 | | | | | | |
| LAWMAN(12KV) | 2,105 | | | | | | |
| PANHANDLE(12KV) | 1,067 | | | | | | |
| PLACE(12KV) | 779 | | | | | | |
| SUBWAY(12KV) | 31 | | | | | | |
| TRAIN(12KV) | 1,754 | | | | | | |
| TRIDENT(12KV) | 1,167 | | | | | | |
| UTOPIA(12KV) | 591 | | | | | | |
| WAHOO(12KV) | 2,127 | | | | | | |
| WOODVIEW(12KV) | 1,327 | | | | | | |

Grand Total

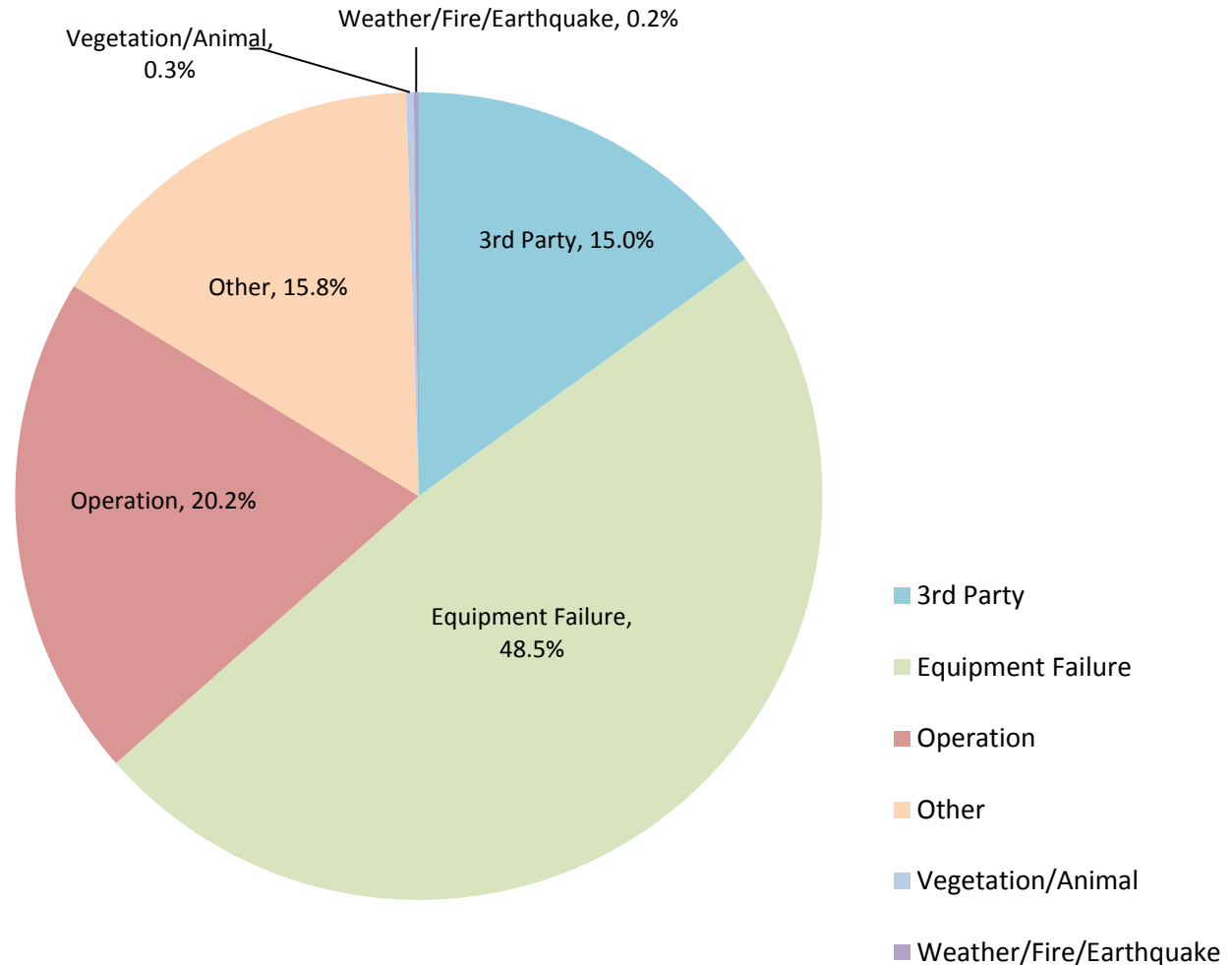
28,462

Reliability History of Circuits Serving Diamond Bar (No Exclusions)



Causes of Repair Outages in Diamond Bar Circuits 2016 YTD

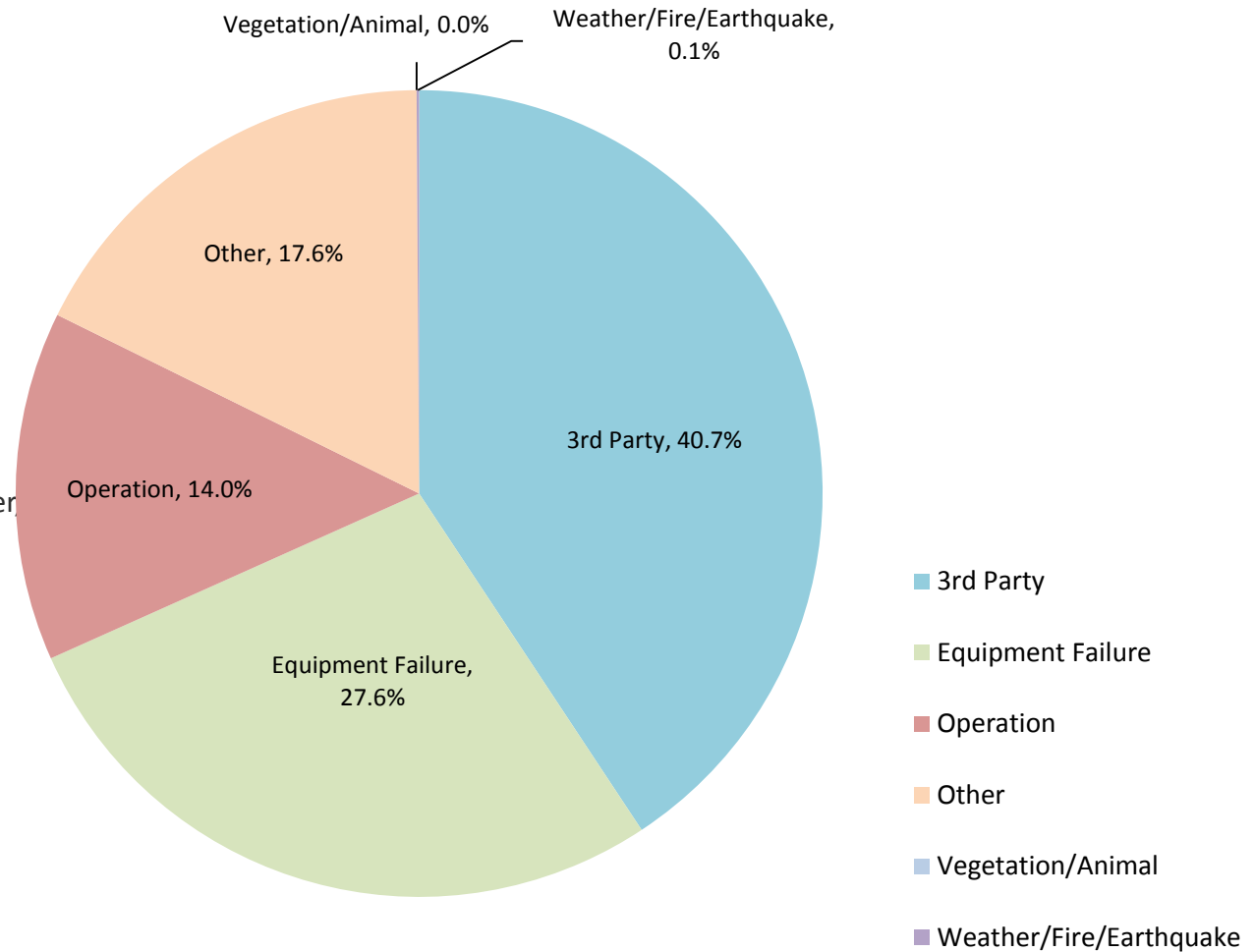
Contributions to SAIDI by Outage Cause



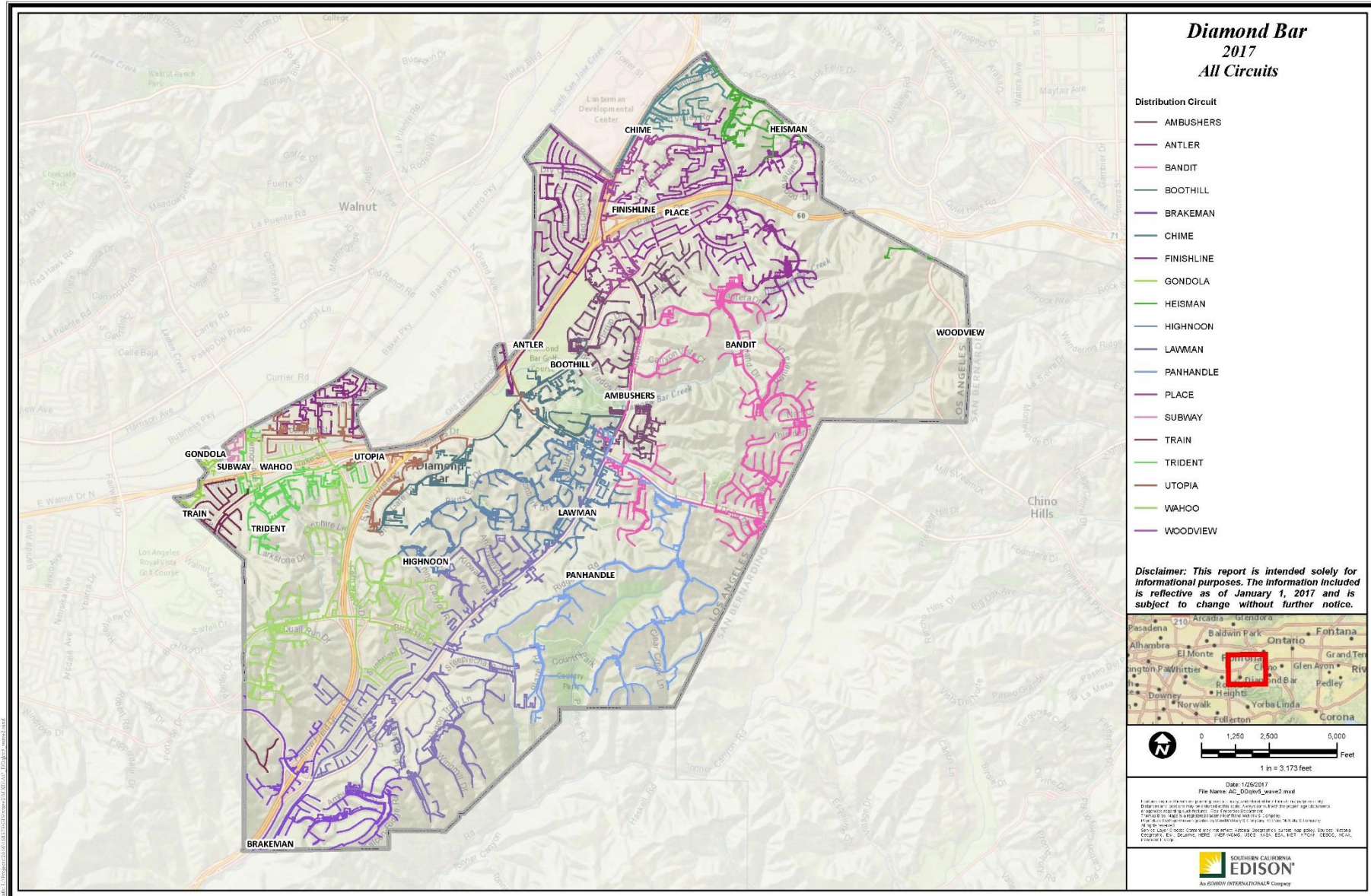
SAIDI = the cumulative amount of time the average customer is interrupted by “sustained” outages each year.

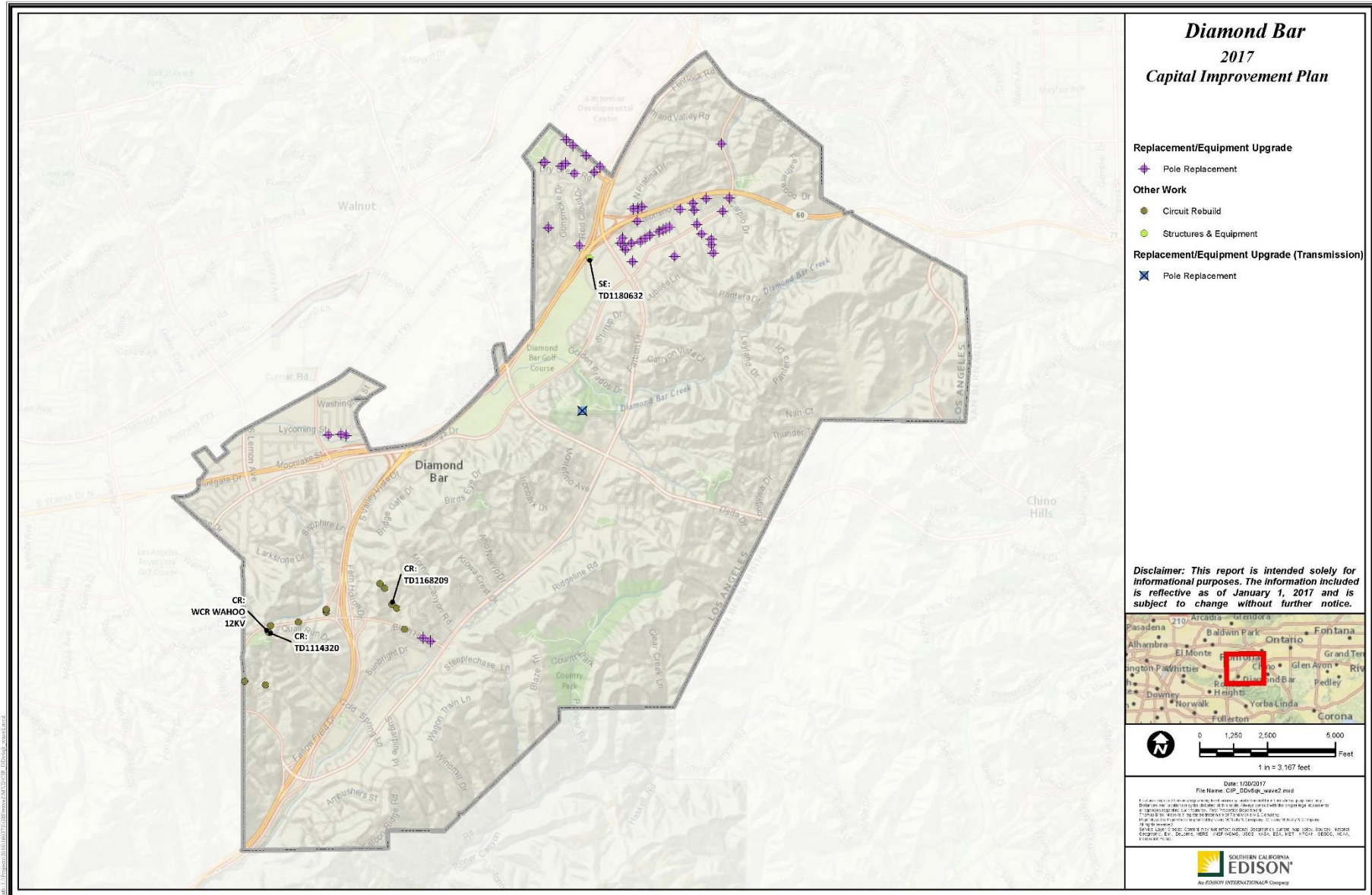
Causes of Repair Outages in Diamond Bar Circuits 2016 YTD

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 Diamond Bar

Updated through Year-End 2016

Average Reliability of 19 Circuits Serving Diamond Bar

| | 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 |
| Diamond Bar | 223.1 | 1.5 | 1.0 | 110.9 | 0.8 | 1.3 | 137.2 | 1.0 | 1.0 | 24.3 | 0.6 | 0.2 | 11.2 | 0.0 | 0.1 | 30.2 | 0.3 | 0.1 | 25.1 | 0.2 | 0.2 | 90.8 | 1.1 | 0.6 |
| 3rd Party | 7% | 15% | 13% | 3% | 11% | 7% | 20% | 14% | 25% | 46% | 81% | 49% | 15% | 24% | 0% | 2% | 0% | 0% | 0% | 0% | 0% | 15% | 41% | 13% |
| Equipment Failure | 71% | 57% | 11% | 63% | 37% | 13% | 74% | 75% | 17% | 36% | 15% | 0% | 72% | 35% | 0% | 87% | 72% | 6% | 4% | 3% | 51% | 48% | 28% | 23% |
| Operation | 7% | 10% | 11% | 9% | 14% | 7% | 4% | 5% | 2% | 17% | 5% | 0% | 13% | 41% | 0% | 2% | 10% | 0% | 50% | 37% | 0% | 20% | 14% | 0% |
| Other | 1% | 0% | 32% | 7% | 17% | 41% | 1% | 6% | 5% | 0% | 0% | 51% | 0% | 0% | 100% | 10% | 18% | 94% | 46% | 61% | 19% | 16% | 18% | 51% |
| Vegetation/Animal | 2% | 5% | 19% | 3% | 1% | 14% | 0% | 0% | 51% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 12% | 14% | 14% | 15% | 20% | 17% | 0% | 0% | 0% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 30% | 0% | 0% | 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 Diamond Bar

| | 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 |
| AMBUSHERS(12KV) - Customers: 1,847 | 33.5 | 0.3 | 0.0 | 167.0 | 1.0 | 0.0 | 335.2 | 1.1 | 0.0 | 11.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 17.7 | 0.1 | 0.0 | 10.2 | 0.0 | 2.1 | 39.5 | 0.9 | 2.1 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 29% | 89% | 0% |
| Equipment Failure | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 98% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 100% | 71% | 11% | 100% |
| Operation | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 2% | 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% |
| ANTLER(12KV) - Customers: 1,516 | 125.3 | 0.6 | 0.5 | 74.5 | 0.2 | 1.0 | 47.8 | 0.6 | 4.6 | 0.0 | 0.0 | 0.0 | 7.1 | 0.1 | 0.0 | 52.1 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 59.2 | 1.1 | 1.0 |
| 3rd Party | 26% | 81% | 100% | 0% | 0% | 0% | 11% | 87% | 34% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 74% | 19% | 0% | 0% | 0% | 0% | 89% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 0% | 7% | 33% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 12% | 10% | 0% |
| Other | 0% | 0% | 0% | 14% | 33% | 100% | 0% | 0% | 23% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 88% | 90% | 100% |
| Vegetation/Animal | 0% | 0% | 0% | 79% | 34% | 0% | 0% | 0% | 43% | 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% |
| BANDIT(12KV) - Customers: 2,087 | 336.5 | 1.2 | 0.0 | 357.5 | 1.3 | 1.9 | 1.3 | 0.1 | 0.1 | 14.0 | 1.0 | 0.0 | 7.0 | 0.0 | 0.0 | 27.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 48.1 | 1.1 | 0.0 |
| 3rd Party | 2% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 29% | 89% | 0% |
| Equipment Failure | 20% | 14% | 0% | 100% | 97% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 56% | 8% | 0% |
| Operation | 2% | 2% | 0% | 0% | 3% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 15% | 3% | 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 | 76% | 81% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| BOOTHILL(12KV) - Customers: 676 | 407.1 | 4.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 18.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.4 | 1.3 | 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% | 100% | 100% | 0% |
| Equipment Failure | 99% | 98% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 1% | 2% | 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% | 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% |

Reliability Histories for Individual Circuits Serving Diamond Bar

| | 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 |
| BRAKEMAN(12KV) - Customers: 1,704 | 459.5 | 4.1 | 1.0 | 100.0 | 1.7 | 0.6 | 95.1 | 1.2 | 1.0 | 55.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 71.0 | 0.9 | 1.0 |
| 3rd Party | 43% | 58% | 0% | 0% | 0% | 0% | 40% | 8% | 0% | 56% | 68% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 44% | 66% | 0% |
| Equipment Failure | 44% | 35% | 0% | 0% | 0% | 0% | 39% | 85% | 100% | 37% | 3% | 0% | 0% | 0% | 0% | 100% | 100% | 1% | 0% | 0% | 0% | 50% | 6% | 1% |
| Operation | 12% | 7% | 0% | 12% | 5% | 0% | 21% | 7% | 0% | 7% | 29% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 6% | 28% | 0% |
| Other | 0% | 0% | 100% | 7% | 34% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 99% | 0% | 0% | 0% | 0% | 0% | 99% |
| 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% | 81% | 61% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| CHIME(12KV) - Customers: 2,132 | 281.7 | 3.2 | 1.0 | 133.3 | 2.0 | 2.0 | 6.7 | 0.1 | 0.0 | 2.3 | 0.0 | 0.0 | 63.1 | 0.1 | 0.0 | 25.2 | 0.2 | 0.0 | 71.0 | 1.0 | 0.0 | 161.6 | 1.3 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 51% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 24% | 4% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 91% | 58% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 51% | 21% | 0% |
| Operation | 17% | 32% | 0% | 40% | 51% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 9% | 42% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 3% | 0% |
| Other | 0% | 0% | 0% | 60% | 49% | 49% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 44% | 76% | 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 | 59% | 64% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| FINISHLINE(12KV) - Customers: 2,229 | 21.9 | 0.1 | 0.0 | 27.2 | 0.1 | 1.0 | 3.3 | 0.1 | 2.0 | 0.0 | 0.0 | 0.0 | 11.2 | 0.1 | 0.0 | 23.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 34.6 | 0.1 | 0.0 |
| 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 | 0% | 0% | 0% | 83% | 41% | 0% | 18% | 4% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 87% | 62% | 0% | 0% | 0% | 0% | 91% | 82% | 0% |
| Operation | 6% | 6% | 0% | 0% | 0% | 0% | 82% | 96% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 13% | 38% | 0% | 0% | 0% | 0% | 9% | 18% | 0% |
| Other | 70% | 33% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 25% | 61% | 0% | 17% | 59% | 100% | 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% |
| GONDOLA(12KV) - Customers: 810 | 45.7 | 0.1 | 1.2 | 86.3 | 0.1 | 0.0 | 6.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 62.2 | 0.3 | 0.0 | 30.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 92.6 | 1.3 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 98% | 96% | 0% | 78% | 2% | 0% | 0% | 0% | 0% | 91% | 22% | 0% |
| Equipment Failure | 47% | 21% | 0% | 99% | 70% | 0% | 88% | 98% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 51% | 77% | 14% | 1% | 30% | 100% | 12% | 2% | 0% | 0% | 0% | 0% | 2% | 4% | 0% | 22% | 98% | 0% | 0% | 0% | 0% | 9% | 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 | 2% | 1% | 86% | 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 Diamond Bar

| | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| HEISMAN(12KV) - Customers: 2,222 | 186.3 | 1.7 | 1.0 | 198.7 | 1.1 | 1.0 | 339.3 | 2.9 | 1.0 | 45.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 79.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 125.2 | 0.2 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 93% | 96% | 0% | 100% | 100% | 0% | 100% | 99% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 63% | 51% | 0% |
| Operation | 7% | 4% | 100% | 0% | 0% | 0% | 0% | 1% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 37% | 49% | 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% | 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% |
| HIGHNOON(12KV) - Customers: 2,291 | 232.7 | 1.1 | 0.0 | 27.6 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 44.0 | 1.1 | 0.0 | 37.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 81.1 | 1.1 | 0.0 | |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 32% | 89% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 17% | 88% | 0% | |
| Equipment Failure | 93% | 93% | 0% | 100% | 100% | 100% | 0% | 0% | 0% | 66% | 8% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 82% | 10% | 0% | |
| Operation | 7% | 6% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 2% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 2% | 0% | |
| Other | 1% | 1% | 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% | |
| 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% | |
| LAWMAN(12KV) - Customers: 2,105 | 42.6 | 0.7 | 3.5 | 54.2 | 1.0 | 0.0 | 87.5 | 1.1 | 2.0 | 13.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 97.1 | 1.9 | 0.0 | 35.1 | 0.2 | 0.0 | 146.1 | 3.1 | 0.0 |
| 3rd Party | 79% | 83% | 13% | 75% | 96% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 32% | 0% | |
| Equipment Failure | 0% | 0% | 0% | 17% | 3% | 0% | 41% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 100% | 7% | 20% | 0% | 68% | 64% | 100% |
| Operation | 21% | 17% | 0% | 9% | 2% | 0% | 26% | 13% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 82% | 78% | 0% | 20% | 4% | 0% |
| Other | 0% | 0% | 29% | 0% | 0% | 0% | 33% | 83% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Vegetation/Animal | 0% | 0% | 58% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 11% | 2% | 0% | 3% | 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% |
| PANHANDLE(12KV) - Customers: 1,067 | 106.4 | 1.1 | 0.0 | 17.3 | 0.1 | 0.0 | 284.5 | 1.2 | 0.1 | 14.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 1.0 | 0.0 | |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 99% | 0% | |
| Equipment Failure | 98% | 98% | 0% | 0% | 0% | 0% | 96% | 95% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 2% | 2% | 0% | 100% | 100% | 0% | 4% | 5% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 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% |

Reliability Histories for Individual Circuits Serving Diamond Bar

| | 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 |
| PLACE(12KV) - Customers: 779 | 17.4 | 0.2 | 1.7 | 103.7 | 0.5 | 3.9 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 177.1 | 1.1 | 0.2 | 0.0 | 0.0 | 0.0 | 177.4 | 1.2 | 0.2 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 26% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 16% | 19% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 99% | 94% | 100% | 0% | 0% | 0% | 99% | 94% | 100% |
| Operation | 84% | 81% | 42% | 100% | 100% | 24% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 1% | 6% | 0% | 0% | 0% | 0% | 1% | 6% | 0% |
| Other | 0% | 0% | 58% | 0% | 0% | 25% | 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% | 26% | 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% |
| SUBWAY(12KV) - Customers: 31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 179.9 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 18.2 | 0.3 | 0.0 | 58.9 | 0.7 | 0.0 | 77.9 | 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% | 99% | 96% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 100% | 100% | 0% | 99% | 96% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 4% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 4% | 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% |
| TRAIN(12KV) - Customers: 1,754 | 319.0 | 1.7 | 2.5 | 188.6 | 1.2 | 4.6 | 301.2 | 2.7 | 1.4 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.9 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 | 0.0 | 2.1 |
| 3rd Party | 0% | 0% | 33% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 82% | 50% | 0% | 21% | 7% | 0% | 97% | 97% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Operation | 0% | 0% | 0% | 0% | 0% | 18% | 3% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Other | 0% | 0% | 67% | 0% | 0% | 40% | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% |
| Vegetation/Animal | 18% | 50% | 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% | 79% | 93% | 42% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| TRIDENT(12KV) - Customers: 1,167 | 0.0 | 0.0 | 0.0 | 388.2 | 1.7 | 1.9 | 247.8 | 2.3 | 1.1 | 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 |
| 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% | 99% | 95% | 46% | 100% | 100% | 11% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 0% | 0% | 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% | 54% | 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% | 89% | 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 Diamond Bar

| | 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 |
| UTOPIA(12KV) - Customers: 591 | 78.2 | 1.0 | 1.0 | 172.2 | 1.3 | 1.1 | 123.0 | 1.2 | 2.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 96% | 84% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Equipment Failure | 100% | 100% | 0% | 44% | 26% | 9% | 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% | 4% | 16% | 50% | 0% | 0% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% |
| Other | 0% | 0% | 100% | 56% | 74% | 91% | 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% |
| WAHOO(12KV) - Customers: 2,127 | 708.4 | 2.7 | 1.4 | 55.2 | 0.1 | 3.0 | 417.4 | 2.2 | 2.0 | 63.7 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 84.2 | 1.0 | 1.0 | 148.0 | 2.0 | 2.0 |
| 3rd Party | 0% | 0% | 0% | 0% | 0% | 0% | 74% | 55% | 50% | 97% | 99% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 42% | 50% | 50% |
| Equipment Failure | 99% | 99% | 18% | 76% | 48% | 0% | 26% | 45% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Operation | 1% | 1% | 9% | 24% | 52% | 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% | 67% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 57% | 50% | 0% |
| Vegetation/Animal | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 50% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Weather/Fire/Earthquake | 1% | 0% | 73% | 0% | 0% | 33% | 0% | 0% | 0% | 3% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 1% | 0% | 50% |
| WOODVIEW(12KV) - Customers: 1,327 | 181.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 80.4 | 1.0 | 0.0 | 95.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 188.7 | 1.5 | 0.8 | 284.6 | 2.8 | 0.8 |
| 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 | 90% | 91% | 0% | 0% | 0% | 0% | 86% | 95% | 0% | 100% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 34% | 48% | 0% |
| Operation | 10% | 9% | 0% | 0% | 0% | 0% | 14% | 5% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 100% | 0% | 66% | 52% | 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% | 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% |