



# Circuit Reliability Review

## Montebello

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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 Montebello District

Alhambra

East Los Angeles

El Monte

Los Angeles

**Montebello**

Monterey Park

North El Monte

Pico Rivera

Rosemead

South El Monte

South San Gabriel

# 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
<b>SCE SystemWide</b>	<b>108.13</b>		<b>0.89</b>		<b>102.61</b>		<b>0.91</b>		<b>112.00</b>		<b>0.96</b>		<b>114.83</b>		<b>0.92</b>		<b>134.48</b>		<b>1.10</b>	

\*\*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 Montebello

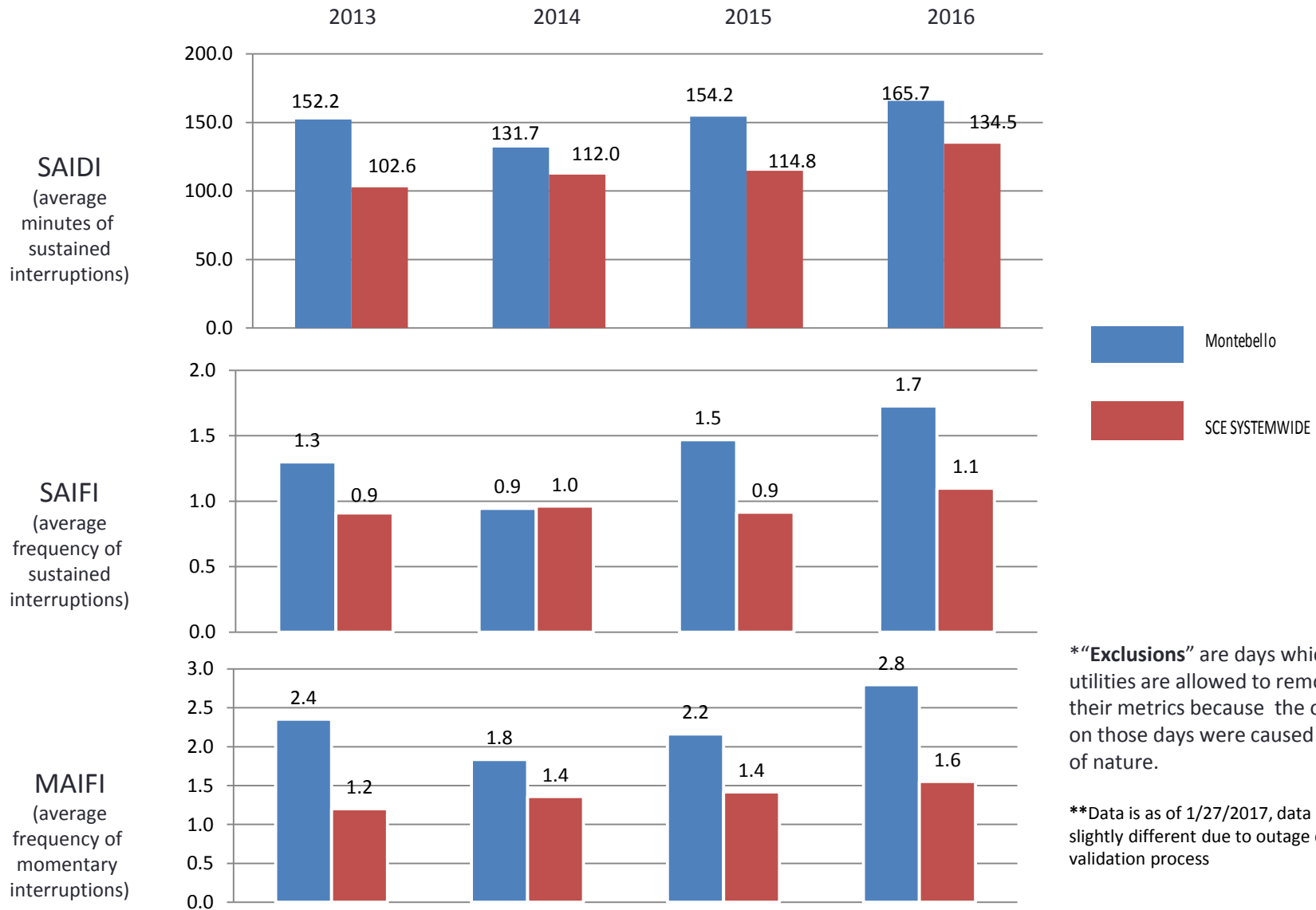
## There are 23 circuits that serve Montebello

Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
ARBOLES(16KV)	2,668						
BALLARD(12KV)	2,000						
BLANCHARD(16KV)	2,462						
CAL STRIP(16KV)	1,231						
CAPITOL(4.16KV)	652						
CERVEZA(16KV)	3,335						
CONCOURSE(16KV)	2,038						
CORONADO(16KV)	581						
DAVIE(16KV)	217						
DODGE(16KV)	2,074						
FINDLEY(16KV)	2,653						
FLOTILLA(16KV)	1,491						
HIGHCLIFF(16KV)	1,914						
HILLVIEW(4.16KV)	1,112						
LEONARD(4.16KV)	431						
LOMAS(16KV)	2,658						
MALDEN(16KV)	6,116						
PECK(16KV)	710						
PICADOR(16KV)	4,418						
RELIEF(16KV)	829						
TUBE(16KV)	259						
YATES(16KV)	2,175						

Drag

**Grand Total** 42,024

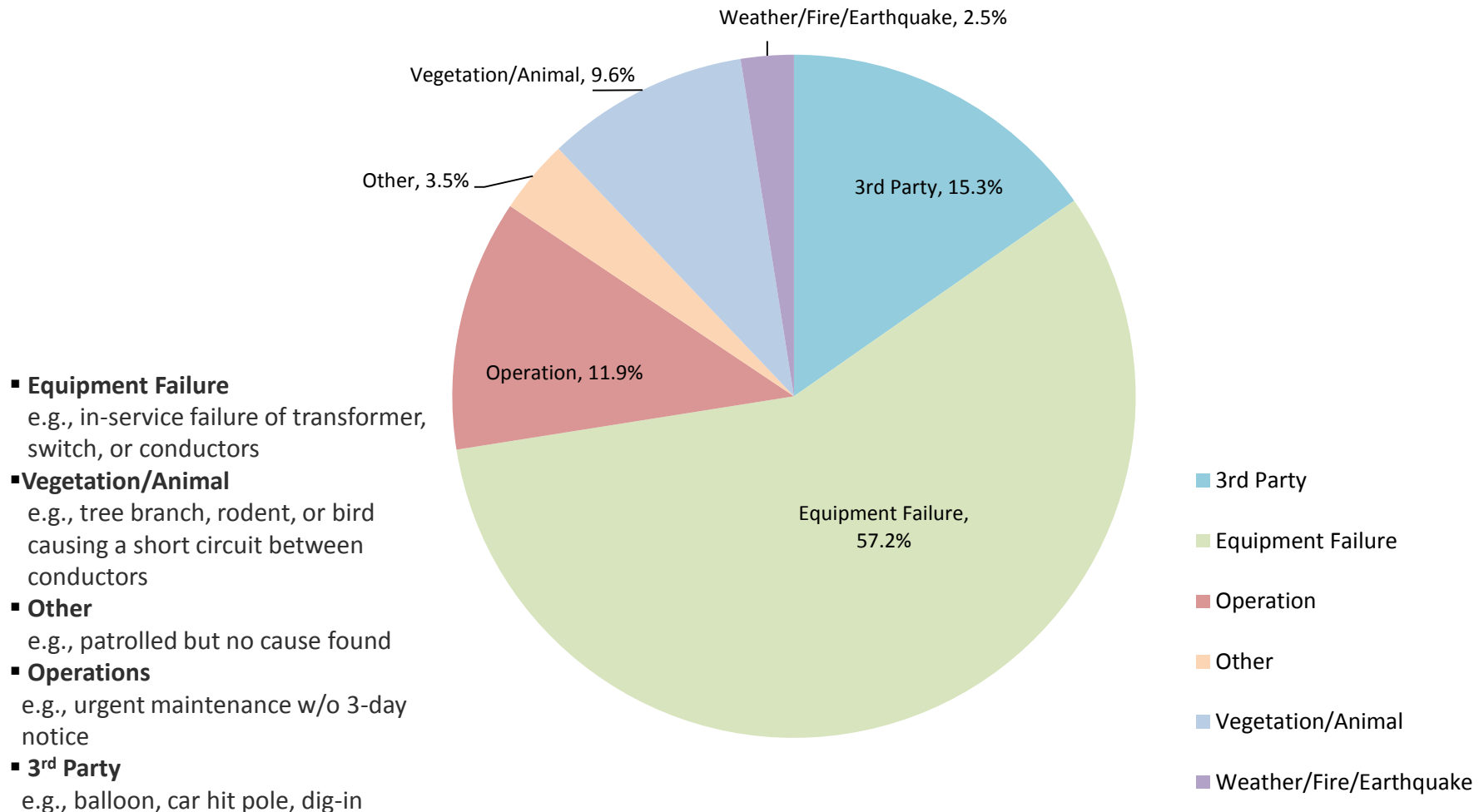
# Reliability History of Circuits Serving Montebello (No Exclusions)





# Causes of Repair Outages in Montebello Circuits 2016 YTD

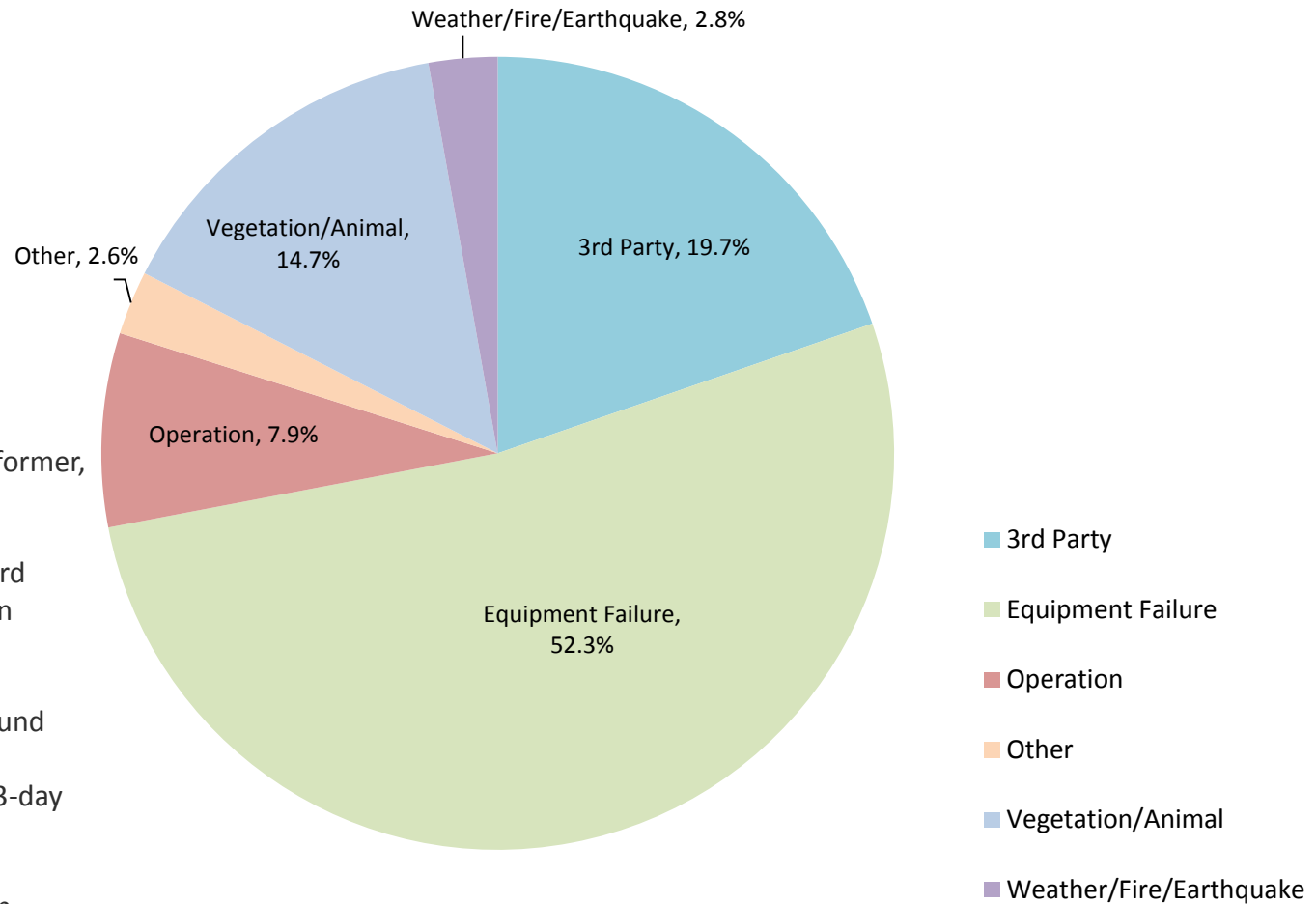
## Contributions to SAIDI by Outage Cause



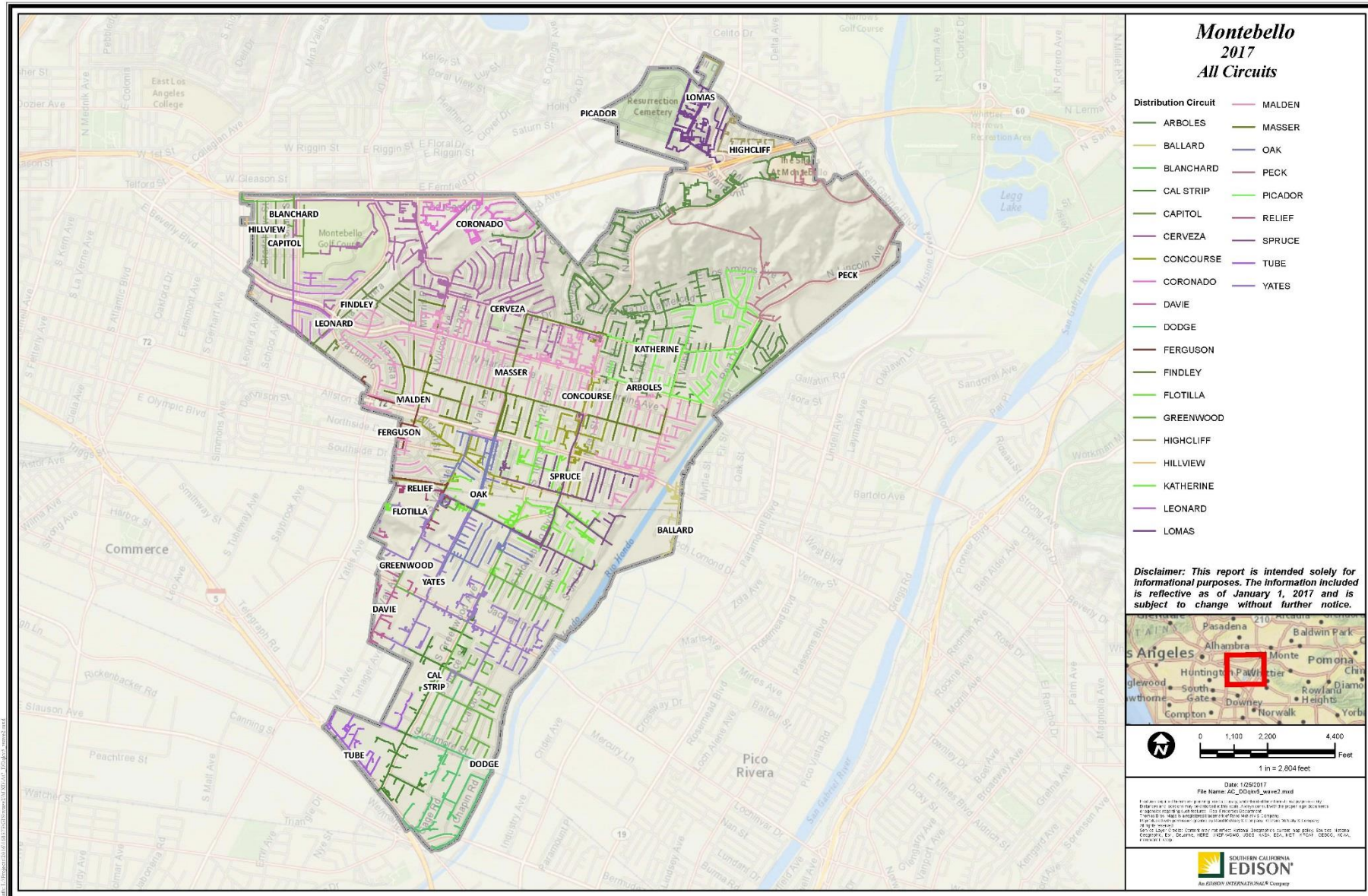
**SAIDI** = the cumulative amount of time the average customer is interrupted by “sustained” outages each year.

# Causes of Repair Outages in Montebello 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 Montebello**

**Updated through Year-End 2016**

# Average Reliability of 23 Circuits Serving Montebello

	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
<b>Montebello</b>	<b>152.2</b>	<b>1.3</b>	<b>2.4</b>	<b>131.7</b>	<b>0.9</b>	<b>1.8</b>	<b>154.2</b>	<b>1.5</b>	<b>2.2</b>	<b>41.6</b>	<b>0.2</b>	<b>0.7</b>	<b>49.9</b>	<b>0.6</b>	<b>0.4</b>	<b>27.3</b>	<b>0.3</b>	<b>1.0</b>	<b>46.8</b>	<b>0.6</b>	<b>0.8</b>	<b>165.7</b>	<b>1.7</b>	<b>2.8</b>
3rd Party	13%	16%	29%	17%	35%	26%	30%	39%	32%	33%	60%	38%	1%	0%	28%	1%	1%	25%	23%	36%	8%	15%	20%	24%
Equipment Failure	68%	53%	35%	32%	34%	14%	42%	33%	24%	59%	28%	0%	73%	80%	42%	74%	66%	30%	29%	25%	47%	57%	52%	29%
Operation	4%	4%	4%	4%	8%	15%	10%	17%	26%	4%	6%	0%	17%	8%	0%	9%	6%	5%	15%	9%	0%	12%	8%	2%
Other	2%	4%	16%	32%	9%	21%	1%	1%	6%	3%	6%	25%	0%	0%	5%	1%	1%	25%	9%	5%	9%	3%	3%	18%
Vegetation/Animal	1%	10%	6%	5%	5%	12%	2%	2%	12%	1%	0%	25%	0%	4%	15%	15%	26%	16%	24%	24%	37%	10%	15%	24%
Weather/Fire/Earthquake	13%	13%	10%	11%	9%	12%	15%	8%	0%	0%	0%	12%	8%	8%	10%	0%	0%	0%	0%	0%	0%	3%	3%	4%
<b>SCE Systemwide</b>	<b>102.6</b>	<b>0.9</b>	<b>1.2</b>	<b>112.0</b>	<b>1.0</b>	<b>1.4</b>	<b>114.8</b>	<b>0.9</b>	<b>1.4</b>	<b>40.5</b>	<b>0.3</b>	<b>0.4</b>	<b>34.8</b>	<b>0.3</b>	<b>0.4</b>	<b>29.4</b>	<b>0.2</b>	<b>0.3</b>	<b>29.8</b>	<b>0.3</b>	<b>0.4</b>	<b>134.5</b>	<b>1.1</b>	<b>1.6</b>

## 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

3<sup>rd</sup> 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 Montebello

	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
<b>ARBOLES(16KV) - Customers: 2,668</b>	<b>429.2</b>	<b>4.1</b>	<b>1.0</b>	<b>265.9</b>	<b>2.0</b>	<b>6.0</b>	<b>327.8</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.7</b>	<b>32.0</b>	<b>0.1</b>	<b>0.0</b>	<b>44.4</b>	<b>0.1</b>	<b>1.1</b>	<b>55.0</b>	<b>1.1</b>	<b>0.0</b>	<b>131.3</b>	<b>1.3</b>	<b>2.8</b>
3rd Party	28%	25%	0%	1%	0%	17%	51%	86%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	99%	100%	0%	42%	87%	39%
Equipment Failure	69%	75%	100%	12%	50%	0%	46%	10%	0%	0%	0%	0%	97%	83%	0%	91%	50%	0%	0%	0%	0%	54%	9%	0%
Operation	0%	0%	0%	0%	0%	0%	4%	3%	100%	0%	0%	0%	3%	17%	0%	9%	50%	0%	1%	0%	0%	4%	4%	0%
Other	3%	1%	0%	0%	0%	33%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	61%
Vegetation/Animal	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	87%	50%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>BALLARD(12KV) - Customers: 2,000</b>	<b>163.8</b>	<b>1.6</b>	<b>2.5</b>	<b>673.6</b>	<b>2.4</b>	<b>1.6</b>	<b>66.7</b>	<b>0.4</b>	<b>2.3</b>	<b>145.4</b>	<b>1.0</b>	<b>0.0</b>	<b>1.2</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>25.4</b>	<b>0.3</b>	<b>0.7</b>	<b>172.0</b>	<b>1.4</b>	<b>0.7</b>
3rd Party	36%	47%	30%	15%	42%	39%	0%	0%	0%	99%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	84%	70%	0%
Equipment Failure	63%	51%	70%	0%	0%	0%	66%	11%	60%	1%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	15%	21%	100%
Operation	0%	1%	0%	2%	15%	0%	34%	89%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	1%	10%	0%
Other	0%	0%	0%	83%	43%	61%	0%	0%	40%	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%
<b>BLANCHARD(16KV) - Customers: 2,462</b>	<b>523.8</b>	<b>0.6</b>	<b>1.3</b>	<b>3.9</b>	<b>0.0</b>	<b>3.0</b>	<b>0.1</b>	<b>0.0</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.4</b>	<b>0.0</b>	<b>0.0</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.5</b>	<b>0.1</b>	<b>0.0</b>	<b>7.9</b>	<b>0.1</b>	<b>0.0</b>
3rd Party	0%	0%	73%	0%	0%	67%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	100%	27%	8%	2%	33%	100%	100%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	43%	7%	0%
Operation	0%	0%	0%	92%	98%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%	57%	93%	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%	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%
<b>CAL STRIP(16KV) - Customers: 1,231</b>	<b>33.3</b>	<b>0.1</b>	<b>1.0</b>	<b>99.7</b>	<b>1.0</b>	<b>1.0</b>	<b>38.1</b>	<b>0.1</b>	<b>0.9</b>	<b>114.3</b>	<b>1.2</b>	<b>0.8</b>	<b>65.1</b>	<b>1.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>193.8</b>	<b>2.0</b>	<b>0.1</b>	<b>373.2</b>	<b>4.2</b>	<b>2.0</b>
3rd Party	0%	0%	0%	1%	0%	100%	98%	98%	100%	82%	76%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	22%	4%
Equipment Failure	38%	51%	0%	98%	100%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	28%	48%	100%	15%	22%	4%
Operation	62%	49%	0%	0%	0%	0%	0%	0%	0%	17%	24%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	7%	0%
Other	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	71%	52%	0%	37%	24%	51%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	90%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	36%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	2%	2%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	17%	24%	4%

# Reliability Histories for Individual Circuits Serving Montebello

	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
<b>CAPITOL(4.16KV) - Customers: 652</b>	<b>15.7</b>	<b>0.1</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>30.1</b>	<b>0.1</b>	<b>1.0</b>	<b>30.1</b>	<b>0.1</b>	<b>2.0</b>
3rd Party	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%
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	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	100%	100%	0%
Other	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	50%
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%
<b>CERVEZA(16KV) - Customers: 3,335</b>	<b>99.6</b>	<b>0.8</b>	<b>4.4</b>	<b>70.3</b>	<b>0.8</b>	<b>1.7</b>	<b>219.4</b>	<b>2.9</b>	<b>1.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>48.3</b>	<b>0.4</b>	<b>1.0</b>	<b>1.4</b>	<b>0.0</b>	<b>0.0</b>	<b>104.2</b>	<b>2.8</b>	<b>1.7</b>	<b>153.9</b>	<b>3.3</b>	<b>2.7</b>
3rd Party	0%	0%	0%	40%	43%	40%	20%	30%	35%	0%	0%	0%	5%	1%	100%	0%	0%	0%	87%	64%	40%	61%	55%	62%
Equipment Failure	25%	3%	0%	23%	2%	0%	69%	39%	65%	0%	0%	0%	0%	0%	0%	100%	100%	0%	2%	0%	0%	2%	0%	0%
Operation	0%	0%	0%	37%	55%	0%	11%	31%	0%	0%	0%	0%	95%	99%	0%	0%	0%	0%	2%	0%	0%	31%	14%	0%
Other	6%	58%	61%	0%	0%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	9%	36%	60%	6%	31%	38%
Weather/Fire/Earthquake	69%	40%	16%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>CONCOURSE(16KV) - Customers: 2,038</b>	<b>0.0</b>	<b>0.0</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>416.6</b>	<b>2.6</b>	<b>2.0</b>	<b>9.2</b>	<b>0.0</b>	<b>0.0</b>	<b>136.4</b>	<b>1.6</b>	<b>0.0</b>	<b>59.6</b>	<b>1.1</b>	<b>2.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>205.3</b>	<b>2.6</b>	<b>2.6</b>
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%	100%	0%	0%	0%	95%	96%	49%	100%	100%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	71%	60%	0%
Operation	0%	0%	0%	0%	0%	0%	5%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	42%	0%	0%	0%	0%	0%	42%
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%	51%	0%	0%	0%	0%	0%	0%	100%	100%	58%	0%	0%	0%	29%	40%	58%
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%
<b>CORONADO(16KV) - Customers: 581</b>	<b>55.8</b>	<b>1.0</b>	<b>1.0</b>	<b>327.0</b>	<b>1.5</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.2</b>	<b>0.0</b>	<b>0.0</b>
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	5%	3%	3%	97%	95%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	3%	5%	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%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	95%	97%	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 Montebello

	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
<b>DAVIE(16KV) - Customers: 217</b>	<b>58.7</b>	<b>1.0</b>	<b>2.0</b>	<b>32.9</b>	<b>0.1</b>	<b>4.0</b>	<b>17.0</b>	<b>0.0</b>	<b>0.0</b>	<b>233.2</b>	<b>1.0</b>	<b>1.0</b>	<b>4.5</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>237.7</b>	<b>1.0</b>	<b>3.0</b>
3rd Party	0%	0%	0%	16%	7%	25%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	98%	100%	0%
Equipment Failure	100%	100%	100%	0%	0%	0%	98%	75%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	84%	93%	25%	2%	25%	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%	50%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	100%	0%	0%	0%	2%	0%	67%
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%	33%
<b>DODGE(16KV) - Customers: 2,074</b>	<b>157.6</b>	<b>1.2</b>	<b>3.0</b>	<b>133.5</b>	<b>1.2</b>	<b>0.8</b>	<b>400.4</b>	<b>2.1</b>	<b>5.0</b>	<b>13.0</b>	<b>0.0</b>	<b>0.0</b>	<b>84.3</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>42.3</b>	<b>0.1</b>	<b>3.0</b>	<b>139.6</b>	<b>0.2</b>	<b>4.0</b>
3rd Party	11%	3%	33%	24%	80%	0%	17%	49%	60%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	79%	90%	34%	53%	8%	0%	3%	1%	40%	0%	0%	0%	10%	37%	0%	0%	0%	0%	99%	94%	100%	36%	49%	75%
Operation	7%	2%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	90%	63%	0%	0%	0%	0%	0%	0%	0%	64%	49%	0%
Other	2%	4%	34%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	25%
Vegetation/Animal	1%	1%	0%	23%	12%	100%	4%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	6%	0%	0%	2%	0%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	76%	48%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>FINDLEY(16KV) - Customers: 2,653</b>	<b>159.1</b>	<b>2.0</b>	<b>2.2</b>	<b>1.1</b>	<b>0.0</b>	<b>0.0</b>	<b>4.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>5.2</b>	<b>0.1</b>	<b>1.1</b>	<b>59.5</b>	<b>1.2</b>	<b>0.0</b>	<b>64.7</b>	<b>1.3</b>	<b>2.1</b>
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	100%	100%	0%	0%	0%	8%	6%	100%
Equipment Failure	52%	50%	13%	100%	100%	0%	6%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	99%	100%	0%	91%	94%	0%
Operation	48%	50%	87%	0%	0%	0%	94%	96%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	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%
<b>FLOTILLA(16KV) - Customers: 1,491</b>	<b>259.4</b>	<b>0.3</b>	<b>0.0</b>	<b>449.9</b>	<b>3.0</b>	<b>1.1</b>	<b>296.8</b>	<b>2.8</b>	<b>3.3</b>	<b>28.4</b>	<b>0.1</b>	<b>2.8</b>	<b>4.0</b>	<b>0.0</b>	<b>0.0</b>	<b>215.8</b>	<b>1.0</b>	<b>1.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>248.3</b>	<b>1.1</b>	<b>3.9</b>
3rd Party	0%	0%	0%	0%	0%	0%	83%	59%	40%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	100%	99%	0%	82%	66%	5%	8%	37%	31%	87%	50%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	97%	95%	27%
Operation	0%	1%	0%	0%	0%	0%	6%	2%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%
Other	0%	0%	0%	0%	0%	95%	1%	1%	0%	13%	50%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	22%
Vegetation/Animal	0%	0%	0%	18%	34%	0%	3%	2%	29%	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%	69%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%

# Reliability Histories for Individual Circuits Serving Montebello

	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
HIGHCLIFF(16KV) - Customers: 1,914	3.5	0.0	1.0	87.8	1.5	3.5	51.4	0.5	2.5	35.4	0.1	0.0	5.1	0.5	1.0	70.4	0.1	0.0	0.0	0.0	0.0	110.9	0.7	1.0
3rd Party	0%	0%	0%	36%	66%	28%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	71%	77%	0%	45%	31%	43%	43%	3%	0%	100%	100%	0%	0%	0%	0%	100%	99%	0%	0%	0%	0%	95%	27%	0%
Operation	29%	23%	0%	0%	0%	0%	9%	1%	0%	0%	0%	0%	7%	1%	0%	0%	1%	0%	0%	0%	0%	0%	1%	0%
Other	0%	0%	100%	5%	2%	0%	0%	0%	41%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Vegetation/Animal	0%	0%	0%	13%	1%	28%	48%	96%	59%	0%	0%	0%	93%	99%	100%	0%	0%	0%	0%	0%	0%	4%	72%	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%
HILLVIEW(4.16KV) - Customers: 1,112	198.0	3.0	1.9	213.0	3.0	2.0	153.7	2.0	2.0	624.1	2.6	2.0	0.0	0.0	1.0	4.4	0.1	0.0	0.0	0.0	2.0	628.5	2.7	5.0
3rd Party	66%	64%	0%	86%	65%	50%	62%	51%	50%	15%	61%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	15%	58%	19%
Equipment Failure	33%	33%	0%	0%	0%	0%	38%	49%	0%	85%	39%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	84%	38%	20%
Operation	1%	3%	0%	9%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	1%	4%	0%
Other	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	51%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	60%
Vegetation/Animal	0%	0%	50%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	0%	0%	0%	5%	33%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
LEONARD(4.16KV) - Customers: 431	283.3	2.0	6.0	46.1	0.1	7.8	14.8	0.2	3.0	0.0	0.0	0.0	134.8	1.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	134.8	1.2	3.5
3rd Party	0%	0%	83%	0%	0%	26%	0%	0%	67%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	80%	49%	0%	0%	0%	13%	100%	100%	0%	0%	0%	0%	5%	4%	0%	0%	0%	0%	0%	0%	0%	5%	4%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	33%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	20%	51%	17%	100%	100%	62%	0%	0%	0%	0%	0%	0%	95%	96%	67%	0%	0%	0%	0%	0%	0%	95%	96%	67%
LOMAS(16KV) - Customers: 2,658	236.1	2.5	2.0	24.5	0.0	1.0	178.5	2.0	1.0	0.0	0.0	0.0	116.3	1.0	1.6	2.6	0.0	0.0	0.8	0.0	0.0	119.7	1.0	1.6
3rd Party	0%	0%	0%	0%	0%	0%	38%	49%	100%	0%	0%	0%	6%	2%	0%	0%	0%	0%	0%	0%	0%	5%	2%	0%
Equipment Failure	44%	49%	74%	78%	40%	0%	14%	2%	0%	0%	0%	0%	91%	98%	100%	0%	0%	0%	0%	0%	0%	89%	97%	100%
Operation	0%	0%	0%	7%	29%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%	100%	0%	100%	100%	0%	6%	2%	0%
Other	7%	2%	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%	16%	31%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Weather/Fire/Earthquake	49%	50%	26%	0%	0%	0%	47%	49%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

# Reliability Histories for Individual Circuits Serving Montebello

	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
<b>MALDEN(16KV) - Customers: 6,116</b>	<b>61.7</b>	<b>1.0</b>	<b>3.2</b>	<b>38.0</b>	<b>0.3</b>	<b>1.7</b>	<b>133.8</b>	<b>3.3</b>	<b>5.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.9</b>	<b>80.1</b>	<b>2.1</b>	<b>0.0</b>	<b>52.2</b>	<b>1.5</b>	<b>4.1</b>	<b>35.5</b>	<b>0.3</b>	<b>1.2</b>	<b>167.8</b>	<b>3.8</b>	<b>6.2</b>
3rd Party	0%	0%	31%	0%	0%	0%	26%	30%	16%	0%	0%	100%	0%	0%	0%	0%	0%	19%	0%	0%	0%	0%	0%	27%
Equipment Failure	86%	97%	69%	78%	91%	42%	49%	39%	17%	0%	0%	0%	98%	100%	0%	81%	82%	42%	100%	100%	100%	93%	93%	48%
Operation	4%	2%	0%	0%	0%	58%	25%	31%	67%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
Other	10%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	26%	0%	0%	0%	0%	0%	17%
Vegetation/Animal	0%	0%	0%	21%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19%	18%	13%	0%	0%	0%	6%	7%	8%
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%
<b>PECK(16KV) - Customers: 710</b>	<b>190.2</b>	<b>2.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>230.4</b>	<b>1.2</b>	<b>2.0</b>	<b>86.9</b>	<b>1.0</b>	<b>1.3</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>86.9</b>	<b>1.0</b>	<b>2.3</b>
3rd Party	0%	0%	0%	0%	0%	0%	23%	85%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	23%	49%	100%	0%	0%	0%	0%	0%	0%	94%	99%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	94%	99%	43%
Operation	0%	0%	0%	0%	0%	0%	77%	15%	50%	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	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	1%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6%	1%	57%
Weather/Fire/Earthquake	77%	51%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>PICADOR(16KV) - Customers: 4,418</b>	<b>41.2</b>	<b>1.0</b>	<b>3.0</b>	<b>34.1</b>	<b>0.1</b>	<b>1.0</b>	<b>60.7</b>	<b>0.5</b>	<b>0.5</b>	<b>13.1</b>	<b>0.0</b>	<b>1.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.3</b>	<b>0.1</b>	<b>0.0</b>	<b>142.6</b>	<b>0.9</b>	<b>1.4</b>	<b>160.1</b>	<b>1.0</b>	<b>2.5</b>
3rd Party	13%	1%	67%	0%	0%	0%	79%	92%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Equipment Failure	68%	3%	0%	99%	91%	0%	6%	3%	0%	85%	85%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	3%	0%
Operation	2%	0%	0%	1%	9%	100%	15%	5%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	36%	42%	0%	35%	45%	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	17%	96%	0%	0%	0%	0%	0%	0%	0%	15%	15%	100%	0%	0%	0%	0%	0%	0%	64%	58%	100%	58%	52%	100%
Weather/Fire/Earthquake	0%	0%	33%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>RELIEF(16KV) - Customers: 829</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>145.7</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>5.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>5.6</b>	<b>0.0</b>	<b>0.9</b>
3rd Party	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Equipment Failure	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	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%	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 Montebello

	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
<b>TUBE(16KV) - Customers: 259</b>	<b>57.7</b>	<b>1.1</b>	<b>3.0</b>	<b>393.4</b>	<b>3.6</b>	<b>5.0</b>	<b>38.7</b>	<b>0.5</b>	<b>2.5</b>	<b>89.4</b>	<b>0.7</b>	<b>1.5</b>	<b>67.7</b>	<b>0.0</b>	<b>0.0</b>	<b>64.9</b>	<b>1.1</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>	<b>221.9</b>	<b>1.8</b>	<b>3.4</b>
3rd Party	0%	0%	0%	54%	8%	20%	0%	0%	41%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	29%
Equipment Failure	53%	50%	84%	17%	28%	0%	26%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Operation	0%	0%	0%	13%	28%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	16%	36%	80%	74%	98%	19%	100%	100%	32%	0%	0%	0%	85%	50%	50%	0%	0%	0%	65%	69%	28%
Vegetation/Animal	47%	50%	16%	0%	0%	0%	0%	0%	40%	0%	0%	68%	0%	0%	0%	15%	50%	50%	0%	0%	0%	4%	29%	43%
Weather/Fire/Earthquake	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	30%	1%	0%
<b>YATES(16KV) - Customers: 2,175</b>	<b>84.4</b>	<b>0.9</b>	<b>1.1</b>	<b>174.0</b>	<b>3.7</b>	<b>1.3</b>	<b>318.7</b>	<b>1.0</b>	<b>0.1</b>	<b>109.9</b>	<b>0.2</b>	<b>0.8</b>	<b>199.5</b>	<b>0.8</b>	<b>0.0</b>	<b>25.5</b>	<b>0.1</b>	<b>0.0</b>	<b>12.4</b>	<b>0.0</b>	<b>1.1</b>	<b>347.3</b>	<b>1.1</b>	<b>1.9</b>
3rd Party	90%	97%	12%	45%	50%	89%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	40%
Equipment Failure	0%	0%	88%	52%	50%	11%	83%	88%	100%	83%	35%	0%	100%	98%	0%	0%	0%	0%	0%	0%	0%	83%	75%	0%
Operation	0%	0%	0%	3%	1%	0%	0%	0%	0%	7%	9%	0%	0%	2%	0%	93%	89%	0%	100%	100%	0%	13%	12%	0%
Other	10%	3%	0%	0%	0%	0%	17%	12%	0%	10%	56%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	12%	0%
Vegetation/Animal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	11%	0%	0%	0%	100%	0%	1%	60%
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%