

Circuit Reliability Review Orange District 3

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

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.

Orange County District 3 – Fullerton, Santa Ana, and Saddleback Districts

Irvine

City of Orange

Orange County

Tustin

Villa Park

Yorba Linda

Reliability by SCE District (No Exclusions)

		20	12			20:	13			20	14			20	15			20	16	
	District	SAIDI	District	SAIFI																
District Name	SAIDI	RANKING	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	

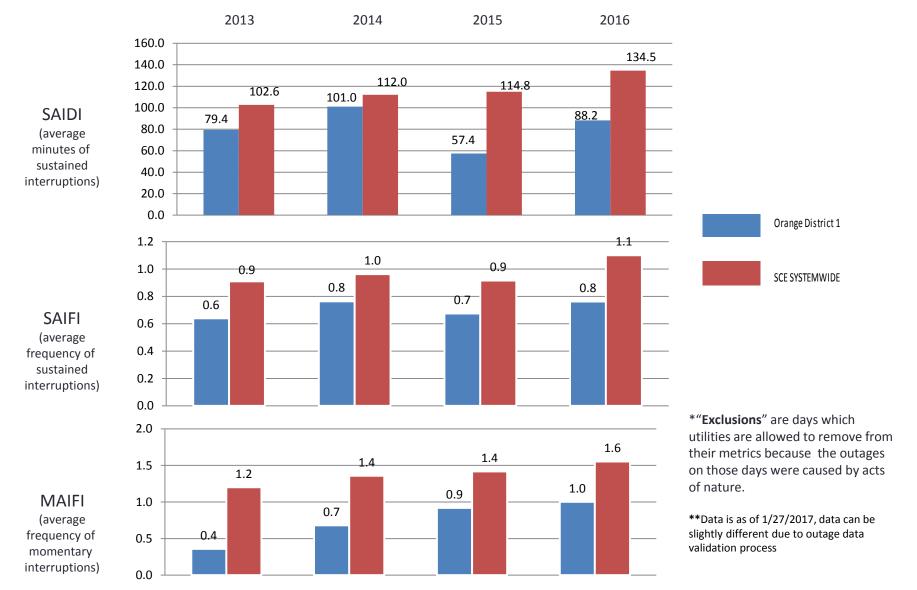
^{*&}quot;Exclusions" are days which utilities are allowed to remove from their metrics because the outages on those days were caused by a severe acts of nature.

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

Overview of Orange District 3 There are 17 circuits that serve Orange District 1

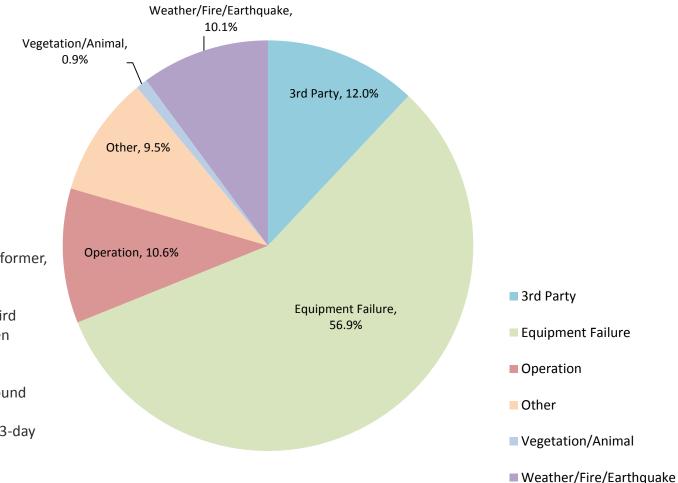
Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers	Circuit Type	Sum of Customers
ARABIA(12KV)	2,307	IRVINE PARK(2.4KV)	3				
ARSENIC(12KV)	540	ISRAEL(12KV)	2,223				
ATENTO(12KV)	2,226	JOAQUIN(12KV)	346				
ATLANTA(12KV)	904	KOREA(12KV)	1,632				
BAHAMA(12KV)	1,238	LISA ANNE(12KV)	1,466				
BARBADOS(12KV)	2,483	MELISSA(12KV)	1,582				
BEIJING(12KV)	1,678	MONSOON(12KV)	1,328				
BERMUDA(12KV)	1,154	MUIRLANDS(12KV)	2,917				
BERTEA(12KV)	655	MYFORD(12KV)	2,436				
BLIZZARD(12KV)	1,852	NEPAL(12KV)	1,043				
BORNEO(12KV)	1,557	ONBORD(12KV)	1,346				
BRAZIL(12KV)	1,392	QATAR(12KV)	1,873				
CATHY(12KV)	2,499	REDHILL(12KV)	134				
CAYMEN(12KV)	3,256	RUSTIC(12KV)	3,100				
CHINA(12KV)	2,593	SIAM(12KV)	2,117				
CHRISTINE(12KV)	1,882	SIDNEY(12KV)	1,499				
COCAMO(12KV)	946	SKYPARK(12KV)	61				
COOLER(12KV)	1,566	SLATE(12KV)	176				
CROMWELL(12KV)	3,251	SOLITAIRE(12KV)	25				
CYCLONE(12KV)	1,497	ST. THOMAS(12KV)	1,805				
DIXIE(12KV)	2,234	SUDAN(12KV)	1,195				
DREYER(12KV)	1,384	TAIWAN(12KV)	1,439				
EL TORO(12KV)	2,741	TORNADO(12KV)	1,357				
ELPAC(12KV)	32	TYPHOON(12KV)	1,817				
GREEN RIVER(12KV)	2,004	VORTEX(12KV)	739				
HALLSWORTH(12KV)	1,672						
HINES(12KV)	1,465						
HURRICANE(12KV)	2,087						
IRAN(12KV)	1,620						
IRON(12KV)	240						
Grand Total	84,614						

Reliability History of Circuits Serving Orange District 3 (No Exclusions



Causes of Repair Outages in Orange District 3 Circuits 2016 YTD

Contributions to SAIDI 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

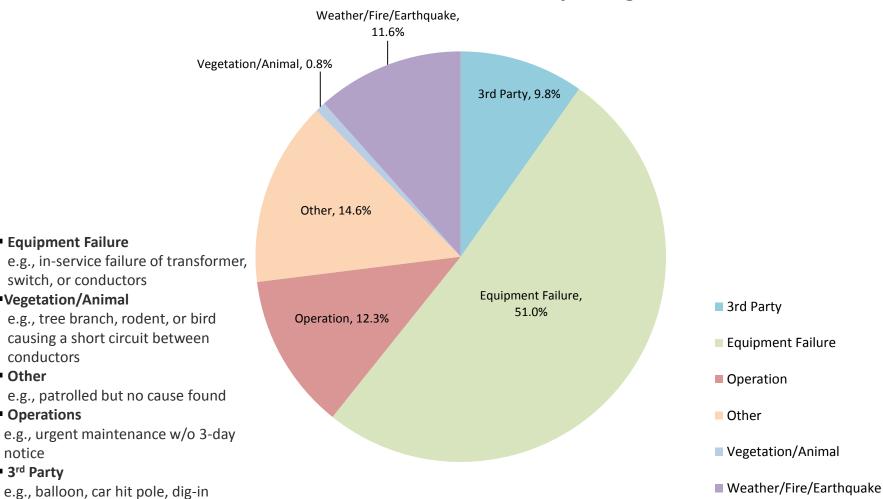
■ 3rd Party

e.g., balloon, car hit pole, dig-in

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

Causes of Repair Outages in Orange District 3 Circuits **2016 YTD**

Contributions to SAIFI by Outage Cause



SAIFI = the number of times the average customer is interrupted by "sustained" outages each year.

Equipment Failure

■Vegetation/Animal

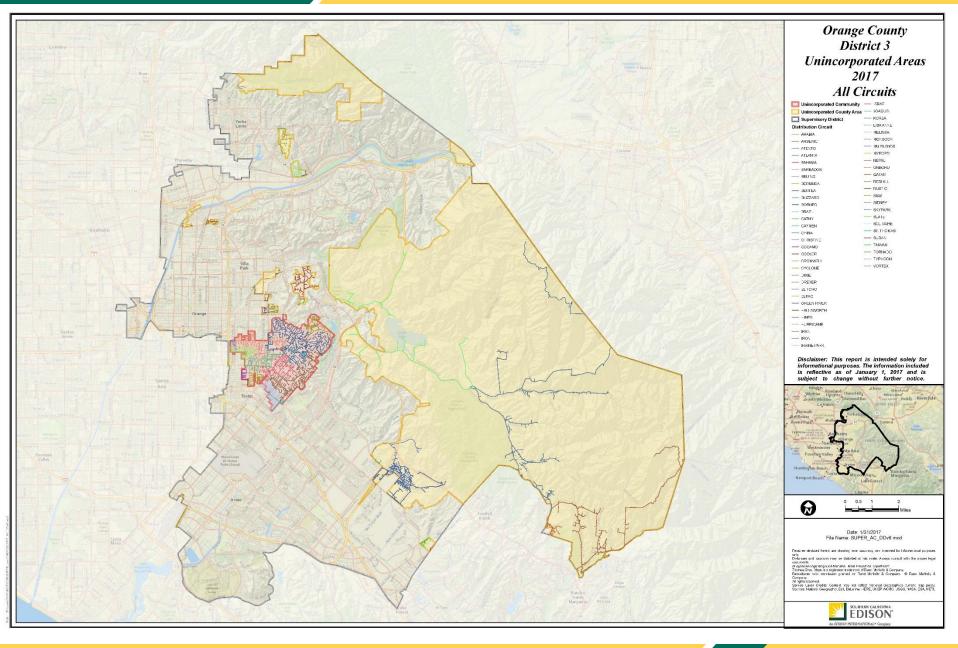
conductors

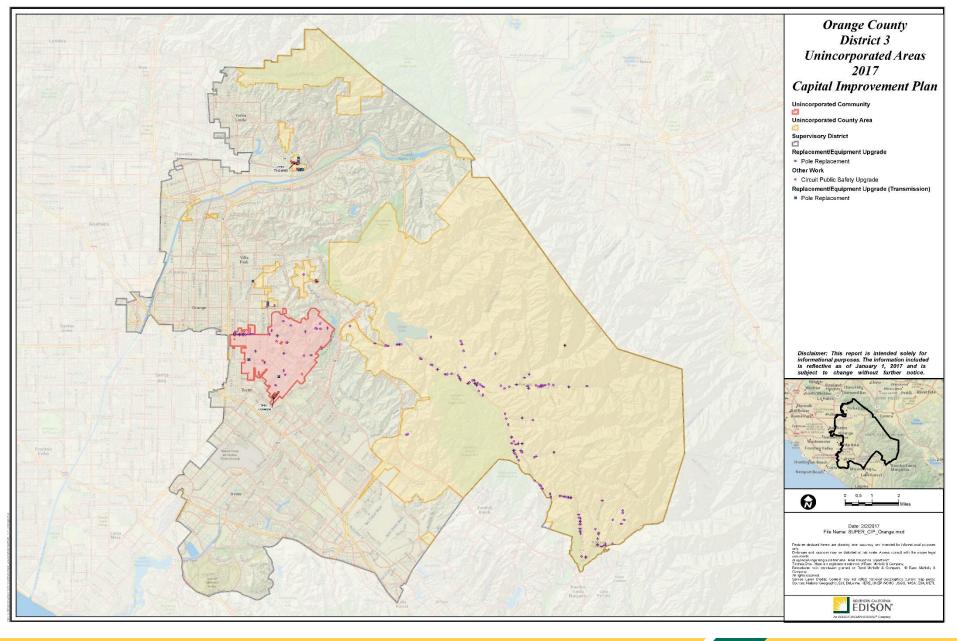
Operations

Other

notice ■ 3rd Party

switch, or conductors





Back-up Slides

Reliability Histories of Circuits Serving Orange District 3

Updated through Year-End 2016

Average Reliability of 55 Circuits Serving Orange District 3

		2013			2014		<i>*</i>	2015	-	1st	Qtr 20	16	2nd	Qtr 2	016	3rd	Qtr 20	016	4th	Qtr 2)16		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
Orange District 3	79.4	0.6	0.4	101.0	0.8	0.7	57.4	0.7	0.9	16.4	0.1	0.3	28.2	0.3	0.3	21.9	0.2	0.1	21.7	0.2	0.3	88.2	0.8	1.0
3rd Party	10%	14%	22%	9%	14%	16%	3%	7%	49%	5%	7%	0%	34%	23%	55%	0%	0%	0%	1%	0%	41%	12%	10%	32%
Equipment Failure	62%	49%	39%	42%	35%	11%	56%	52%	8%	85%	75%	50%	41%	45%	21%	69%	61%	71%	44%	30%	3%	57%	51%	26%
Operation	9%	12%	13%	32%	18%	9%	26%	21%	8%	7%	16%	7%	6%	7%	5%	25%	27%	1%	4%	3%	0%	11%	12%	4%
Other	7%	8%	15%	11%	21%	25%	4%	6%	20%	2%	1%	25%	17%	25%	5%	5%	11%	5%	9%	13%	1%	10%	15%	9%
Vegetation/Animal	2%	2%	11%	4%	7%	29%	9%	12%	16%	1%	1%	0%	1%	1%	12%	0%	0%	24%	1%	1%	29%	1%	1%	16%
Weather/Fire/Earthquake	8%	15%	0%	3%	6%	11%	2%	2%	0%	0%	1%	18%	0%	0%	3%	0%	0%	0%	41%	53%	27%	10%	12%	14%
			•	•	•	•	•		•	•		•		•	•		,	•						
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.

		2013			2014			2015		1st	Qtr 20:	16	2nd	l Qtr 20.	16	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 MA	IFI SAID	SAIF	MAIF
ARABIA(12KV) - Customers: 2,307	69.72	1.57	0.47	52.53	1.15	-	10.26	0.11	1.00	15.42	0.09	1.00	104.76	2.37	-	24.91	0.02 -	-	-	- 145.0	9 2.48	1.00
3rd Party	58%	33%	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-		-	-	-		
Equipment Failure	7%	3%	-	43%	8%	-	65%	21%	-	-	-	-	95%	98%	-	100%	100% -	-	-	- 869	6 95%	
Operation	3%	0%	-	57%	92%	-	35%	79%	-	90%	72%	-	5%	2%	-	-		-	-	- 139	4%	
Other	32%	64%	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	10%	28%	100%	-	-	-	-		-	-	- 19	6 1%	100%
ARSENIC(12KV) - Customers: 540	49.62	0.27	-	-	-	0.63	76.76	0.92	0.00	-	-	-	-	-	-	149.40	1.86 -	18.50	0.14	- 167.9	1 2.00	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Equipment Failure	100%	100%	-	-	-	-	100%	100%	100%	-	-	-	-	-	-	-		100%	100%	- 119	6 7%	
Operation	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	100%	100% -	-	-	- 899	6 93%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
ATENTO(12KV) - Customers: 2,226	122.97	0.86	0.39	305.14	0.88	0.20	70.88	1.21	1.37	29.27	0.37	-	0.82	0.00	0.39	-		26.22	0.20 1	.00 56.3	1 0.57	1.39
3rd Party	-	-	-	-	-	-	-	-	-	98%	100%	-	-	-	-	-		-	- 10	0% 519	64%	72%
Equipment Failure	54%	57%	-	60%	75%	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Operation	-	-	-	40%	25%	-	7%	16%	-	-	-	-	-	-	-	-		1%	2%	- 09	6 1%	
Other	-	-	100%	-	-	-	3%	1%	27%	-	-	-	-	-	-	-		99%	98%	- 469	6 34%	
Vegetation/Animal	-	-	-	-	-	100%	90%	83%	73%	-	-	-	-	-	-	-		-	-	-		
Weather/Fire/Earthquake	46%	43%	-	-	-	-	-	-	-	2%	0%	-	100%	100%	100%	-		-	-	- 29	6 0%	28%
ATLANTA(12KV) - Customers: 904	47.43	0.11	-	-	-	-	38.02	0.07	-	-	-	-	-	-	-	-		-	-	-		
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Equipment Failure	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Operation	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-		-	-	-		
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	-		

		2013			2014			2015		1st Qtr	2016	2nc	Qtr 20	16	3ra	Qtr 2016	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI SAI	FI MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAIF	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
BAHAMA(12KV) - Customers: 1,238	323.14	3.23	-	161.47	2.03	1.51	31.13	0.46	0.56	-			-	-	5.06	0.03	- 3.64	0.02	0.99	8.70	0.05	0.99
3rd Party	-	-	-	55%	50%	33%	-	-	-	-			-	-	-			-	-	-	-	
Equipment Failure	60%	68%	-	43%	49%	-	-	-	-	-		-	-	-	100%	100%		-	-	58%	51%	
Operation	0%	0%	-	-	-	-	86%	4%	-	-		-	-	-	-		- 36%	29%	-	15%	14%	
Other	-	-	-	-	-	67%	14%	96%	100%	-		-	-	-	-	-	- 64%	71%	-	27%	35%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	100%	-	-	100%
Weather/Fire/Earthquake	39%	31%	-	2%	1%	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
BARBADOS(12KV) - Customers: 2,483	-	-	-	44.99	1.00	-	4.94	0.03	1.00	-		. -	-	-	-		- 199.53	1.00	-	199.53	1.00	
3rd Party	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	
Equipment Failure	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	- 100%	100%	-	100%	100%	-
Operation	-	-	-	-	-	-	100%	100%	-	-		-	-	-	-	-		-	-	-	-	-
Other	-	-	-	100%	100%	-	-	-	100%	-		-	-	-	-	-		-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	
BEIJING(12KV) - Customers: 1,678	0.31	0.00	-	9.29	0.03	0.03	9.03	0.08	0.02	-			-	0.03	-	-	- 91.67	1.02	0.99	91.67	1.02	1.02
3rd Party	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	
Equipment Failure	100%	100%	-	-	-	-	6%	1%	100%	-		-	-	-	-	-		-	-	-	-	
Operation	-	-	-	100%	100%	-	94%	99%	-	-		-	-	-	-	-		-	-	-	-	
Other	-	-	-	-	-	100%	-	-	-	-		-	-	100%	-	-		-	-	-	-	3%
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	- 100%	100%	100%	100%	100%	97%
BERMUDA(12KV) - Customers: 1,154	438.15	2.25	2.01	44.89	1.00	-	115.14	1.91	1.93	-		45.55	0.86	2.17	-	-		-	-	45.55	0.86	2.17
3rd Party	51%	45%	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	
Equipment Failure	28%	49%	-	-	-	-	94%	97%	-	-		4%	2%	46%	-	-		-	-	4%	2%	46%
Operation	21%	6%	-	-	-	-	6%	3%	-	-		96%	98%	54%	-	-		-	-	96%	98%	54%
Other	-	-	100%	100%	100%	-	-	-	100%	-		-	-	-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-			-	-	-	-		-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-	-	-	

		2013			2014			2015		1st (Qtr 201	16	2nd	l Qtr 2016		3rd	Qtr 20	16	4th	Qtr 2016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MA	AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAIFI	SAIDI	SAIFI	MAIF
BERTEA(12KV) - Customers: 655	72.21	0.76	1.00	135.63	3.05	0.98	-	-	1.00	-	-	-	6.97	1.00	-	-	-	-	-		6.97	1.00	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Equipment Failure	100%	100%	-	100%	100%	100%	-	-	-	-	-	-	100%	100%	-	-	-	-	-		100%	100%	
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Vegetation/Animal	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-		-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
BLIZZARD(12KV) - Customers: 1,852	30.08	0.09	-	119.86	0.31	-	0.12	0.00	0.98	-	-	-	-	-	-	-	-	-	13.20	0.08 -	13.20	0.08	
3rd Party	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-		-	-	
Equipment Failure	59%	49%	-	86%	71%	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100% -	100%	100%	
Operation	-	-	-	1%	15%	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-		-	-	
Other	41%	51%	-	12%	14%	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
BORNEO(12KV) - Customers: 1,557	166.81	1.03	-	132.10	1.73	0.50	39.37	0.10	1.45	26.73	0.30	2.67	2.29	0.02	-	12.49	0.01	0.99	2.31	0.01 -	43.82	0.34	3.66
3rd Party	-	-	-	-	-	-	-	-	69%	-	-	-	-	-	-	-	-	-	-		-	-	
Equipment Failure	11%	3%	-	94%	98%	100%	19%	27%	-	100%	100%	62%	-	-	-	100%	100%	100%	-		90%	90%	73%
Operation	-	-	-	1%	1%	-	81%	70%	31%	-	-	-	-	-	-	-	-	-	-		-	-	-
Other	89%	97%	-	5%	1%	-	-	-	-	-	-	38%	-	-	-	-	-	-	100%	100% -	5%	3%	27%
Vegetation/Animal	-	-	-	-	-	-	1%	3%	-	-	-	-	100%	100%	-	-	-	-	-		5%	7%	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
BRAZIL(12KV) - Customers: 1,392	69.44	0.75	0.34	72.60	2.00	1.00	45.32	1.74	1.23	-	-	-	-	-	-	-	-	-	-		-	-	
3rd Party	-	-	-	-	-	-	83%	58%	78%	-	-	-	-	-	-	-	-	-	-		-	-	
Equipment Failure	17%	7%	-	38%	50%	100%	3%	0%	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Operation	13%	2%	-	-	-	-	0%	0%	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Other	-	-	-	62%	50%	-	14%	42%	22%	-	-	-	-	-	-	-	-	-	-		-	-	
Vegetation/Animal	70%	90%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

		2013			2014	-		2015		1st Qt	r 2016	2n	d Qtr 20	16	3rd	Qtr 2016	4	th Qtr 2	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI SA	IFI MAIF	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MA	IFI SAID	I SAIF	MAIFI	SAIDI	SAIFI	MAIFI
CATHY(12KV) - Customers: 2,499	75.41	1.13	0.33	98.82	2.11	0.00	8.33	0.04	2.00	-	-	- 67.14	1.00	-	2.22	0.03	-		1.00	69.36	1.03	1.00
3rd Party	-	-	-	-	-	-	-	-	100%	-	_		-	-	-	-	-		100%	-	-	100%
Equipment Failure	74%	89%	100%	88%	50%	100%	28%	19%	-	-	-			-	-	-	-			-	-	-
Operation	24%	8%	-	12%	50%	-	72%	81%	-	-	-	- 0%	0%	-	100%	100%	-		-	3%	3%	-
Other	-	-	-	-	-	-	-	-	-	-	-	- 100%	100%	-	-	-	-		-	97%	97%	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-			-	-	-
Weather/Fire/Earthquake	2%	3%	-	-	-	-	-	-	-	-	-			-	-	-	-			-	-	-
CAYMEN(12KV) - Customers: 3,256	0.22	0.00	-	86.17	1.02	2.00	-	-	1.00	-	-		. <u>-</u>	-	0.85	0.01	-	-	1.00	0.85	0.01	1.00
3rd Party	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-			-	-	-
Equipment Failure	-	-	-	100%	100%	-	-	-	-	-	-			-	-	-	-			-	-	-
Operation	100%	100%	-	-	-	50%	-	-	-	-	-			-	100%	100%	-			100%	100%	-
Other	-	-	-	-	-	50%	-	-	100%	-	-			-	-	-	-			-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-		100%	-	-	100%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-			-	-	-
CHINA(12KV) - Customers: 2,593	5.73	0.05	-	249.39	3.16	0.05	179.50	1.62	-	-	-	- 64.65	0.37	0.82	-	-	- 116.5	0 0.99	-	181.15	1.37	0.82
3rd Party	-	-	-	78%	68%	100%	-	-	-	-	_	- 90%	95%	100%	-	-	-		-	32%	26%	100%
Equipment Failure	-	-	-	-	-	-	96%	62%	-	-	-	- 9%	2%	-	-	-	-			3%	1%	-
Operation	100%	100%	-	0%	0%	-	4%	38%	-	-	-	- 1%	3%	-	-	-	-			0%	1%	-
Other	-	-	-	22%	32%	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-			-	-	-	- 1009	% 100%	-	64%	73%	-
CHRISTINE(12KV) - Customers: 1,882	5.75	0.04	-	28.60	0.06	-	48.20	1.03	1.96	-	-	- 72.80	1.00	-	0.03	0.00	- 9.6	6 0.02	1.00	82.48	1.02	1.00
3rd Party	46%	49%	-	-	-	-	-	-	51%	-	_		-	-	-	-	- 89	6 11%	100%	1%	0%	100%
Equipment Failure	-	-	-	98%	87%	-	-	-	-	-	-		-	-	-	-	- 929	% 89%	-	11%	2%	-
Operation	54%	51%	-	2%	13%	-	32%	3%	-	-	-		-	-	100%	100%	-		-	0%	0%	-
Other	-	-	-	-	-	-	-	-	-	-	-	- 100%	100%	-	-	-	-			88%	98%	-
Vegetation/Animal	-	-	-	-	-	-	68%	97%	49%	-	-			-	-	-	-			-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	_			-	-	-	-			-	_	-

		2013			2014			2015		1st Q	tr 2016	2n	d Qtr 2	016	3rd	Qtr 2016	4th	Qtr 20	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI SA	AIFI MAIF	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAIF	I SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
COCAMO(12KV) - Customers: 946	108.22	1.05	0.82	-	-	1.01	54.93	1.00	1.00	-	-	- 27.7	9 0.27	1.02	-	-		-	0.99	27.79	0.27	2.02
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Equipment Failure	97%	97%	100%	-	-	-	100%	100%	-	-	-	- 100%	6 100%	100%	-	-		-	-	100%	100%	51%
Operation	3%	3%	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Other	-	-	-	-	-	100%	-	-	100%	-	-	-		-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	100%	-	-	49%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
COOLER(12KV) - Customers: 1,566	116.19	0.45	; -	-	-	-	95.34	1.19	-	-	-	-		-	12.62	0.06	- 1.30	0.01	-	13.92	0.06	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	
Equipment Failure	100%	100%	-	-	-	-	89%	94%	-	-	-	-		-	100%	100%		-	-	91%	86%	
Operation	-	-	-	-	-	-	11%	6%	-	-	-	-		-	-	-	- 100%	100%	-	9%	14%	
Other	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
CROMWELL(12KV) - Customers: 3,251	. -	-	-	-	-	-	-	-	-	-	-	-		1.00	-	-	-	-	-	-	-	1.00
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-		100%	-	-		-	-	-	-	100%
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	
CYCLONE(12KV) - Customers: 1,497	205.95	0.62	! -	88.17	0.30	1.00	4.45	0.05	0.99	-	-	- 77.40	6 0.32	-	7.89	0.09	- 9.50	0.06	-	94.85	0.48	
3rd Party	-	-	-	-	-	-	-	-	100%	-	-	-		-	-	-		-	-	-	-	-
Equipment Failure	75%	58%	-	5%	6%	-	-	-	-	-	-	- 68%	6 30%	-	-	-		-	-	55%	20%	-
Operation	6%	18%	-	95%	94%	-	100%	100%	-	-	-	- 32%	6 70%	-	100%	100%	- 100%	100%	-	45%	80%	
Other	18%	24%	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-	-	100%	-	-	-	-	-	-		-	-	-		-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	_	

		2013			2014			2015		1st	Qtr 201	6	2nd	Qtr 20	16	3rd	Qtr 20	16	4th	Qtr 20:	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	/AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI
DIXIE(12KV) - Customers: 2,234	1.32	0.01	-	16.18	0.10	1.00	207.69	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	100%	100%	100%	56%	13%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	100%	100%	-	0%	0%	-	2%	5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	42%	82%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DREYER(12KV) - Customers: 1,384	33.69	1.37	-	88.02	1.56	4.01	136.99	0.79	0.57	-	-	-	12.78	0.16	-	-	-	-	6.60	0.02	0.97	19.38	0.18	0.97
3rd Party	-	-	-	4%	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	37%	5%	-	62%	32%	-	-	-	-	89%	80%	-	-	-	-	62%	42%	-	80%	75%	-
Operation	24%	1%	-	19%	2%	25%	35%	14%	-	-	-	-	8%	17%	-	-	-	-	-	-	-	6%	15%	-
Other	-	-	-	-	-	25%	2%	54%	100%	-	-	-	3%	4%	-	-	-	-	-	-	-	2%	3%	-
Vegetation/Animal	-	-	-	17%	27%	25%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	100%
Weather/Fire/Earthquake	76%	99%	-	24%	64%	25%	-	-	-	-	-	-	-	-	-	-	-	-	38%	58%	-	13%	7%	-
EL TORO(12KV) - Customers: 2,741	233.34	1.40	0.75	104.30	0.54	-	13.90	0.21	-	-	-	-	6.74	0.02	1.00	24.93	0.06	0.02	-	-	-	31.67	0.08	1.02
3rd Party	29%	72%	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	98%
Equipment Failure	71%	26%	100%	97%	66%	-	-	-	-	-	-	-	100%	100%	-	98%	79%	-	-	-	-	99%	85%	-
Operation	1%	2%	-	3%	34%	-	100%	100%	-	-	-	-	-	-	-	2%	21%	100%	-	-	-	1%	15%	2%
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELPAC(12KV) - Customers: 32	-	-	-	86.51	1.01	0.03	-	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	-	-	-	100%	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		2013			2014			2015		1st	Qtr 20	16	2nd	Qtr 20	016	3rd	Qtr 2016	4th	Qtr 20.	16		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAI	FI SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
GREEN RIVER(12KV) - Customers: 2,00	17.05	0.03	-	177.44	0.95	-	84.37	0.29	2.00	38.84	0.09	-	-	-	-	35.92	0.03	- 0.33	0.01	-	75.09	0.13	
3rd Party	-	-	-	-	-	-	-	-	50%	-	-	-	-	-	-	-	-		-	-	-	-	
Equipment Failure	-	-	-	88%	49%	-	19%	10%	-	100%	100%	-	-	-	-	100%	100%		-	-	100%	95%	
Operation	100%	100%	-	12%	51%	-	81%	90%	50%	-	-	-	-	-	-	-	-	- 100%	100%	-	0%	5%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
HALLSWORTH(12KV) - Customers: 1,6	119.65	1.05	1.97	69.74	0.19	1.00	-	-	-	41.60	1.00	0.95	6.90	0.01	1.99	-	-	- 129.45	0.52	0.56	177.95	1.53	3.49
3rd Party	9%	2%	49%	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Equipment Failure	91%	98%	-	92%	61%	100%	-	-	-	54%	90%	-	36%	36%	-	-	-	- 0%	0%	-	14%	59%	
Operation	0%	0%	-	1%	15%	-	-	-	-	21%	5%	100%	-	-	-	-	-		-	-	5%	4%	27%
Other	-	-	51%	-	-	-	-	-	-	25%	5%	-	-	-	-	-	-		-	-	6%	3%	
Vegetation/Animal	-	-	-	7%	24%	-	-	-	-	-	-	-	64%	64%	100%	-	-	- 7%	13%	-	7%	5%	57%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 93%	87%	100%	68%	29%	16%
HINES(12KV) - Customers: 1,465	34.96	1.00	-	0.43	0.01	-	0.80	0.01	-	248.82	1.92	5.07	-	-	0.64	-	-		-	-	248.82	1.92	5.71
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-		-	-	-	-	11%
Equipment Failure	-	-	-	17%	19%	-	-	-	-	98%	99%	65%	-	-	-	-	-		-	-	98%	99%	58%
Operation	100%	100%	-	83%	81%	-	100%	100%	-	2%	1%	-	-	-	-	-	-		-	-	2%	1%	
Other	-	-	-	-	-	-	-	-	-	-	-	35%	-	-	-	-	-		-	-	-	-	31%
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
HURRICANE(12KV) - Customers: 2,087	87.68	0.23	0.99	102.01	1.21	1.00	78.74	2.19	1.52	9.36	0.10	-	-	-	-	72.42	0.11		-	-	81.78	0.21	
3rd Party	-	-	100%	-	-	-	-	-	62%	-	-	-	-	-	-	-	-		-	-	-	-	
Equipment Failure	76%	47%	-	33%	11%	-	82%	51%	38%	-	-	-	-	-	-	-	-		-	-	-	-	
Operation	19%	43%	-	17%	6%	-	13%	46%	-	41%	43%	-	-	-	-	100%	100%		-	-	93%	72%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Vegetation/Animal	5%	10%	-	50%	83%	100%	5%	3%	-	59%	57%	-	-	-	-	-	-		-	-	7%	28%	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	

		2013			2014			2015		1st	Qtr 20	16	2nc	d Qtr 20.	16	3rd	Qtr 20	016	4th	Qtr 201	6		2016	
	SAIDI	SAIFI N	/AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI N	//AIFI	SAIDI	SAIFI	MAIF
IRAN(12KV) - Customers: 1,620	27.31	0.12	-	215.45	1.38	0.99	55.77	1.35	1.04	25.29	1.26	0.77	-	-	-	84.33	1.03	0.99	-	-	-	109.61	2.29	1.7
3rd Party	-	-	-	3%	1%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	73%	60%	-	27%	21%	-	14%	1%	-	100%	100%	100%	-	-	-	29%	3%	-	-	-	-	45%	56%	44%
Operation	27%	40%	-	4%	6%	-	86%	99%	100%	-	-	-	-	-	-	0%	0%	-	-	-	-	0%	0%	
Other	-	-	-	66%	72%	-	-	-	-	-	-	-	-	-	-	71%	97%	-	-	-	-	55%	43%	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	56%
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IRON(12KV) - Customers: 240	-	-	-	570.53	1.18	-	110.49	1.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	-	-	90%	65%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Operation	-	-	-	10%	35%	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IRVINE PARK(2.4KV) - Customers: 3	-	-	-	-	-	-	730.00	1.00	1.00	-	-	-	#####	2.00	-	-	-	-	-	-	-	#####	2.00	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Equipment Failure	-	-	-	-	-	-	100%	100%	100%	-	-	-	100%	100%	-	-	-	-	-	-	-	100%	100%	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISRAEL(12KV) - Customers: 2,223	80.46	1.31	-	104.22	0.14	2.99	50.17	0.49	2.68	-	-	-	3.03	0.01	-	76.62	1.00	-	2.95	0.03	1.00	82.60	1.04	1.00
3rd Party	6%	9%	-	-	-	-	8%	12%	37%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	8%	4%	-	4%	17%	-	42%	8%	-	-	-	-	44%	53%	-	-	-	-	-	-	-	2%	0%	-
Operation	15%	6%	-	91%	77%	-	39%	59%	29%	-	-	-	56%	47%	-	100%	100%	-	89%	93%	-	98%	99%	•
Other	15%	5%	-	-	-	34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vegetation/Animal	-	-	-	2%	2%	-	11%	22%	33%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weather/Fire/Earthquake	55%	77%	-	4%	5%	66%	-	-	-	-	-	-	-	-	-	-	-	-	11%	7%	100%	0%	0%	100%

		2013			2014			2015		1st	Qtr 20 2	16	2na	l Qtr 20	16	3rd	Qtr 20	16	4th	Qtr 20:	16		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
JOAQUIN(12KV) - Customers: 346	28.16	1.01	-	-	-	1.00	22.68	1.03	0.98	248.63	1.17	3.50	175.11	1.63	4.28	284.94	1.10	1.35	-	-	-	708.68	3.89	9.13
3rd Party	-	-	-	-	-	100%	44%	98%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	100%	100%	-	-	-	-	56%	2%	100%	100%	100%	67%	100%	100%	33%	88%	72%	52%	-	-	-	95%	92%	49%
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12%	23%	-	-	-	-	5%	6%	-
Other	-	-	-	-	-	-	-	-	-	-	-	33%	-	-	67%	0%	6%	48%	-	-	-	0%	2%	51%
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KOREA(12KV) - Customers: 1,632	32.55	0.05	-	171.12	1.18	5.40	31.77	0.22	2.00	2.10	0.05	-	5.72	0.05	-	122.90	0.57	0.90	159.48	0.94	0.45	290.20	1.62	1.35
3rd Party	-	-	-	-	-	-	-	-	50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment Failure	87%	84%	-	21%	5%	-	86%	82%	50%	-	-	-	-	-	-	100%	100%	100%	97%	99%	100%	96%	93%	100%
Operation	13%	16%	-	2%	1%	-	14%	18%	-	100%	100%	-	-	-	-	-	-	-	3%	1%	-	2%	4%	-
Other	-	-	-	39%	86%	19%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	38%	9%	81%	-	-	-	-	-	-	100%	100%	-	-	-	-	-	-	-	2%	3%	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LISA ANNE(12KV) - Customers: 1,466	18.63	0.33	0.74	11.61	0.03	1.01	408.68	2.37	1.30	-	-	-	-	-	-	5.46	0.01	-	18.81	0.34	1.66	24.26	0.35	1.66
3rd Party	-	-	-	-	-	100%	12%	42%	77%	-	-	-	-	-	-	-	-	-	-	-	60%	-	-	60%
Equipment Failure	69%	13%	-	100%	100%	-	13%	42%	-	-	-	-	-	-	-	100%	100%	-	-	-	-	22%	3%	-
Operation	31%	87%	100%	-	-	-	75%	16%	23%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	100%	40%	78%	97%	40%
MELISSA(12KV) - Customers: 1,582	-	-	-	155.58	3.11	-	166.98	3.05	2.86	-	-	-	248.46	2.08	0.63	-	-	-	6.52	0.02	2.00	254.98	2.11	2.63
3rd Party	-	-	-	-	-	-	-	-	35%	-	-	-	65%	48%	100%	-	-	-	100%	100%	100%	66%	49%	100%
Equipment Failure	-	-	-	71%	34%	-	98%	98%	30%	-	-	-	3%	3%	-	-	-	-	-	-	-	3%	3%	
Operation	-	-	-	4%	2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	-	29%	48%	-	-	-	-	-	-	-	28%	47%	-
Vegetation/Animal	-	-	-	5%	32%	-	2%	2%	35%	-	-	-	3%	2%	-	-	-	-	-	-	-	3%	2%	-
Weather/Fire/Earthquake	-	-	-	19%	32%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

		2013		2014				2015		1st	Qtr 2016		2nd Qtr 2016			3ra	Qtr 2016	4th	Qtr 2016		201	6
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MA	IFI SAI	DI	SAIFI N	MAIFI	SAIDI	SAIFI MAIFI	SAIDI	SAIFI MA	IFI SAID	SAI	FI MAIF
MONSOON(12KV) - Customers: 1,328	44.20	0.21	1.96	87.78		2.03	-	-	1.00	11.97	0.07	- 5.	67	0.07	-	110.59	1.00 -	· -	-	- 128.2	3 1.1	.5
3rd Party	-	-	-	71%	86%	-	-	-	100%	-	-	-	-	-	-	-		-	-	-	-	-
Equipment Failure	64%	85%	50%	16%	5%	-	-	-	-	-	-	-	-	-	-	100%	100% -	-	-	- 869	6 88 ×	%
Operation	3%	1%	-	2%	3%	-	-	-	-	100%	100%	- 100)%	100%	-	-		-	-	- 149	6 12	%
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Vegetation/Animal	33%	14%	50%	11%	7%	100%	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
MUIRLANDS(12KV) - Customers: 2,913	190.90	1.89	0.14	6.24	0.02	-	1.19	0.01	-	0.10	0.00	- 136.	59	1.00	1.00	-		· -	-	- 136.6	9 1.0	00 1.0
3rd Party	-	-	-	-	-	-	-	-	-	-	-	- 100)%	100%	100%	-		-	-	- 1009	6 100	% 100%
Equipment Failure	100%	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Operation	-	-	-	100%	100%	-	100%	100%	-	100%	100%	-	-	-	-	-		· -	-	- 09	6 0	%
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		· -	-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		· -	-	-	-	-
MYFORD(12KV) - Customers: 2,436	12.94	0.34		-	-	-	-	-	-	-	-	-	-	-	1.00	-		. -	-	-	-	- 1.0
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100%	-		· -	-	-	-	- 100%
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Operation	98%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Other	2%	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
NEPAL(12KV) - Customers: 1,043	300.83	1.06	1.95	125.09	0.91	5.64	140.51	2.06	-	-	-	- 1.	38	0.01	-	-		32.01	0.10 0	01 33.3	9 0.1	l1 0.0
3rd Party	-	-	-	38%	36%	39%	5%	1%	-	-	-	- 100)%	100%	-	-			-	- 49	6 10	%
Equipment Failure	94%	98%	100%	7%	1%	-	93%	99%	-	-	-	-	-	-	-	-		42%	22% 10	0% 409	6 20	% 100%
Operation	6%	2%	-	1%	1%	-	1%	0%	-	-	-	-	-	-	-	-		58%	78%	- 569	6 70	%
Other	-	-	-	-	-	53%	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
Weather/Fire/Earthquake	-	-	_	54%	62%	8%	2%	0%	-	-	-	-	_	-	-	_			-	-	-	-

		2013		2014				2015		1st	Qtr 20 .	16	2nd		<mark>rd Qtr</mark>	2016	4ti	Qtr 2016		2016		
	SAIDI	SAIFI N	//AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAII	I SAII	OI SAI	FI MAIF	SAIDI	SAIFI MAIF	SAIDI	SAIFI	MAIF
ONBORD(12KV) - Customers: 1,346	266.72	1.68	-	203.90	0.31	0.27	76.22	0.10	2.19	62.68	1.04	0.08	-	-	- 15.	75 0.0	1.0	1 80.57	0.99	- 159.01	2.07	1.0
3rd Party	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-					
Equipment Failure	96%	91%	-	62%	34%	10%	96%	56%	-	57%	2%	13%	-	-	- 28	% 22	% 1009	6 -		- 25%	1%	94%
Operation	4%	9%	-	15%	30%	-	4%	44%	-	25%	98%	-	-	-	- 72	.% 78	%			- 17%	50%	
Other	-	-	-	16%	3%	80%	-	-	-	18%	1%	75%	-	-	-	-	-	- 95%	99%	- 55%	48%	5%
Vegetation/Animal	-	-	-	6%	34%	11%	-	-	-	-	-	-	-	-	-	-	-				-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	13%	-	-	-	-	-	- 5%	1%	- 2%	0%	1%
QATAR(12KV) - Customers: 1,873	14.85	0.06	-	944.76	1.19	0.17	3.68	0.01	-	194.55	0.48	-	156.47	0.80	- 8.	44 0.0)3			- 359.46	1.31	
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	
Equipment Failure	-	-	-	-	-	-	-	-	-	100%	100%	-	100%	100%	-	-	-			- 98%	97%	
Operation	100%	100%	-	100%	100%	100%	100%	100%	-	-	-	-	-	-	- 100	% 100	%			- 2%	3%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				· -	
REDHILL(12KV) - Customers: 134	-	-	-	0.36	0.02	-	-	-	-	-	-	-	-	-	-	-	-		-			
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Operation	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	-	-					
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
RUSTIC(12KV) - Customers: 3,100	120.26	0.30	1.17	95.49	0.43	1.18	5.18	0.14	0.39	1.54	0.00	0.01	5.78	0.02	- 85.	04 0.9	8		- 0.2	l 92.35	1.00	0.23
3rd Party	-	-	-	15%	55%	87%	60%	91%	94%	-	-	-	100%	100%	-	-	-		- 56%	6%	2%	52%
Equipment Failure	22%	27%	5%	40%	9%	6%	0%	0%	-	100%	100%	-	-	-	- 100	% 100	%			- 94%	98%	
Operation	27%	30%	83%	8%	12%	-	7%	4%	-	-	-	-	-	-	-	-	-					
Other	34%	23%	7%	10%	5%	7%	32%	5%	6%	-	-	100%	-	-	-	-	-		- 44%	<u> </u>		48%
Vegetation/Animal	11%	14%	1%	3%	4%	-	-	-	-	-	-	-	-	-	-	-	-					
Weather/Fire/Earthquake	6%	6%	4%	24%	15%	-	-	-	-	-	-	-	-	-	-	-	-					

		2013			2014	2015			1st	Qtr 20:	16	2nd Qtr 2016			3rd	Qtr 2016	4th Qtr 2016			2016		
	SAIDI	SAIFI N	1AIFI	SAIDI	SAIFI MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI MAIF	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
SIAM(12KV) - Customers: 2,117	27.51	0.13	-	46.13	0.19 -	85.44	2.00	-	0.08	0.00	-	-	-	-	-	-		-	-	0.08	0.00	
3rd Party	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Equipment Failure	78%	75%	-	69%	63% -	100%	100%	-	-	-	-	-	-	-	-	-		-	-	-	-	
Operation	22%	25%	-	12%	22% -	-	-	-	100%	100%	-	-	-	-	-	-		-	-	100%	100%	
Other	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	19%	16% -	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	
SIDNEY(12KV) - Customers: 1,499	61.52	0.13	-	111.79	1.24 -	270.27	3.00	1.94	-	-	1.00	-	-	-	113.87	1.00		-	1.00	113.87	1.00	2.00
3rd Party	-	-	-	-		-	_	-	-	-	-	-	-	-	-	-		-	-	-	-	
Equipment Failure	100%	100%	-	56%	13% -	61%	67%	49%	-	-	-	-	-	-	100%	100%		-	-	100%	100%	
Operation	-	-	-	3%	7% -		_	-	-	-	-	-	-	-	-	-		-	-	-	-	
Other	-	-	-	40%	80% -	39%	33%	51%	-	-	-	-	-	-	-	-		-	-	-	-	
Vegetation/Animal	-	-	-	-			_	-	-	-	-	-	-	-	-	-		-	100%	-	-	50%
Weather/Fire/Earthquake	-	-	-	-			_	-	-	-	100%	-	-	-	-	-		-	-	-	-	50%
SKYPARK(12KV) - Customers: 61	-	-	-	-			-	-	-	-	-	170.49	1.03	1.72	-			. <u>-</u>	-	170.49	1.03	1.72
3rd Party	-	-	-	-		-	-	-	-	-	-	-	-	-	-			-	-	-	-	
Equipment Failure	-	-	-	-			_	-	-	-	-	100%	100%	40%	-	-		-	-	100%	100%	40%
Operation	-	-	-	-			_	-	-	-	-	-	-	60%	-			-	-	-	-	60%
Other	-	-	-	-			_	-	-	-	-	-	-	-	-			-	-	-	-	
Vegetation/Animal	-	-	-	-			_	-	-	-	-	-	-	-	-			-	-	-	-	
Weather/Fire/Earthquake	-	-	-	-			_	-	-	-	-	-	-	-	-			-	-	-	-	
SLATE(12KV) - Customers: 176	-	-	-	-			_	-	-	-	-	-	-	-	-	-		. <u>-</u>	-	-	-	
3rd Party	-	-	-	-			_	-	-	-	-	-	-	-	-				-	-	-	
Equipment Failure	-	-	-	-			_	-	-	-	-	-	-	-	-			-	-	-	-	
Operation	-	-	-	-			_	-	-	-	-	-	-	-	-				-	-	-	
Other	-	-	-	-			-	-	-	-	-	-	-	-	-			_	-	-	-	
Vegetation/Animal	-	_	-	_			_	_	-	_	_	_	_	_	_				_	-	_	
Weather/Fire/Earthquake	-	_	_	_			_	_	_	_	_	_	_	_	_				_	_	_	

	2013			2014				2015		1st	Qtr 201	6	2nd Qtr 2016			3rd Qtr 2016			4th C	2016			
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI I	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MA	AIFI	SAIDI S	AIFI MAIFI	SAIDI	SAIFI	MAIFI
SOLITAIRE(12KV) - Customers: 25	-	-	0.55	-	-	-	-	-	1.10	-	-	-	-	-	-	-	-	-	-		-	-	
3rd Party	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-		-	-	-
Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
ST. THOMAS(12KV) - Customers: 1,805	0.94	0.01	-	45.06	1.00	-	-	-	1.00	-	-	-	0.63	0.01	-	-	-	-	-		0.63	0.01	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Equipment Failure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Operation	100%	100%	-	-	-	-	-	-	-	-	-	-	100%	100%	-	-	-	-	-		100%	100%	-
Other	-	-	-	100%	100%	-	-	-	100%	-	-	-	-	-	-	-	-	-	-		-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
SUDAN(12KV) - Customers: 1,195	19.53	0.04	-	0.05	0.01	-	9.64	0.04	-	12.13	0.04	-	-	-	-	46.14	1.00	-	-		58.28	1.04	-
3rd Party	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Equipment Failure	100%	100%	-	-	-	-	40%	64%	-	100%	100%	-	-	-	-	100%	100%	-	-		100%	100%	-
Operation	-	-	-	100%	100%	-	60%	36%	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Vegetation/Animal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
TAIWAN(12KV) - Customers: 1,439	38.52	0.21	0.20	35.28	0.20	0.09	121.48	2.03	0.03	0.20	0.01	-	80.76	1.04	1.95	-	-	-	-		80.96	1.05	1.95
3rd Party	28%	50%	26%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Equipment Failure	63%	24%	19%	35%	27%	-	100%	100%	25%	-	-	-	100%	100%	100%	-	-	-	-		100%	99%	100%
Operation	9%	26%	-	47%	47%	45%	0%	0%	-	100%	100%	-	-	-	-	-	-	-	-		0%	1%	-
Other	-	-	-	18%	25%	55%	-	-	50%	-	-	-	-	-	-	-	-	-	-		-	-	-
Vegetation/Animal	-	-	55%	-	-	-	-	-	25%	-	-	-	-	-	-	-	-	-	-		-	-	-
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-

	2013				2014			2015		1st	Qtr 2016		2nd	Qtr 20	016	3rd	Qtr 2016	41	h Qtr 2	016		2016	
	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI M	AIFI	SAIDI	SAIFI	MAIFI	SAIDI	SAIFI MAIF	SAID	SAIFI	MAIFI	SAIDI	SAIFI	MAIF
TORNADO(12KV) - Customers: 1,357	218.63	3.19	3.91	70.76	1,22		132.97	1,22	2.00							5.67	0.01	- 0.0	6 0.00		5.73	0.01	
3rd Party	16%		26%	-		-	-		100%	-	-	-	-	_	-	-	-	-		-	-	-	
Equipment Failure	34%		74%	58%	87%	-	36%	16%	-	-	-	-	-	-	-	98%	88%	-		-	97%	75%	
Operation	-	-	-	41%	13%	-	1%	1%	-	-	-	-	-	-	-	2%	12%	- 1009	6 100%	-	3%	25%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	
Vegetation/Animal	0%	0%	-	1%	0%	-	1%	1%	-	-	-	-	-	-	-	-	-	-		-	-	-	
Weather/Fire/Earthquake	50%	55%	-	-	-	-	63%	82%	-	-	-	-	-	-	-	-	-	-		-	-	-	
TYPHOON(12KV) - Customers: 1,817	172.65	1.20	0.39	7.99	0.08	1.00	100.67	1.11	4.08	-	-	-	14.52	0.06	-	0.39	0.00	- 43.6	8 1.03	0.94	58.59	1.10	0.94
3rd Party	-	-	-	-	-	-	3%	1%	50%	-	-	-	-	-	-	-	-	-		-	-	-	
Equipment Failure	98%	92%	100%	-	-	-	46%	8%	-	-	-	-	-	-	-	100%	100%	-		-	1%	0%	
Operation	1%	8%	-	93%	88%	-	50%	91%	-	-	-	-	100%	100%	-	-	-	- 329	6%	-	49%	11%	
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	
Vegetation/Animal	2%	0%	-	7%	12%	100%	2%	0%	50%	-	-	-	-	-	-	-	-	-		-	-	-	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 689	6 94%	100%	51%	89%	100%
VORTEX(12KV) - Customers: 739	173.78	1.30	1.77	371.45	0.52	-	9.38	0.11	2.01	-	-	-	74.39	0.08	0.02	46.44	0.14	-		-	120.83	0.21	0.0
3rd Party	94%	97%	43%	-	-	-	-	-	50%	-	-	-	-	-	-	-	-	-		-	-	-	
Equipment Failure	-	-	-	98%	88%	-	15%	4%	-	-	-	-	100%	100%	100%	77%	29%	-		-	91%	54%	100%
Operation	-	-	-	-	-	-	21%	52%	-	-	-	-	-	-	-	-	-	-		-	-	-	
Other	-	-	-	-	-	-	-	-	50%	-	-	-	-	-	-	-	-	-		-	-	-	
Vegetation/Animal	6%	3%	57%	2%	12%	-	64%	44%	-	-	-	-	-	-	-	23%	71%	-		-	9%	46%	
Weather/Fire/Earthquake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	