ELECTRIC SYSTEM RELIABILITY ANNUAL REPORT

2019

LIBERTY UTILITIES (CALPECO ELECTRIC) LLC (U 933 E)

-- PUBLIC VERSION --

Prepared for

California Public Utilities Commission

October 20TH, 2020

EXECUTIVE SUMMARY

The Electric System Reliability Annual Report for 2019 has been prepared in response to CPUC Decision 16-01-008, which was approved January 20, 2016. Decision 16-01-008 established reliability recording, calculation, and reporting requirements for Liberty Utilities (CalPeco Electric) LLC.

CalPeco Electric does not provide transmission services. CalPeco Electric does not have an Open Access Transmission Tariff (OATT). Therefore data is presented for the distribution services only. All statistics and calculations include forced distribution outages. Forced outages are those that are not prearranged. For the purposes of this report, sustained outages are outages that lasted more than five minutes in duration, while momentary outages are outages that lasted five minutes or less in duration.

The reliability indicators that are tracked are as follows:

1. SAIDI (System Average Interruption Duration Index) - minutes of sustained outages per customer per year.
2. SAIFI (System Average Interruption Frequency Index) - number of sustained outages per customer per year.
3. MAIFI (Momentary Average Interruption Frequency Index) - number of momentary outages per customer per year.
4. CAIDI (Customer Average Interruption Duration Index) – is the average time required to restore service to a utility customer.

CalPeco Electric presents nine years (2011 through 2019) of data, which represents the period in which Liberty Utilities purchased CalPeco Electric from NV Energy.

Beginning in 2013, the measurement of each reliability performance indicator excludes IEEE Major Event Days (MED) instead of CPUC Major Events. An IEEE Major Event Day is defined in IEEE-1366, Section 4.5 as a day in which the daily system SAIDI exceeds a threshold value. These threshold major event days are referred to as “TMED”. Thus, any day in which the total system SAIDI exceeds TMED is excluded from CalPeco Electric’s reliability results. The applicable TMED value is calculated at the end of each year using CalPeco Electric’s daily SAIDI values for the prior five years. CalPeco Electric’s TMED value for 2019 was 171.00 minutes of daily system SAIDI. Other reliability indices in this report are not calculated using methodologies or formulas exactly as described in the IEEE guide for electric power Distribution Reliability indices (IEEE-1366).

Table of Contents

1) System Indices for the Last 9 Years (Years CalPeco Electric in business)

a. Separate tables with SAIDI, SAIFI, MAIFI and CAIDI (Major Event Day (MED)) included and excluded.

I. Distribution System Indices (Major Event included and excluded)

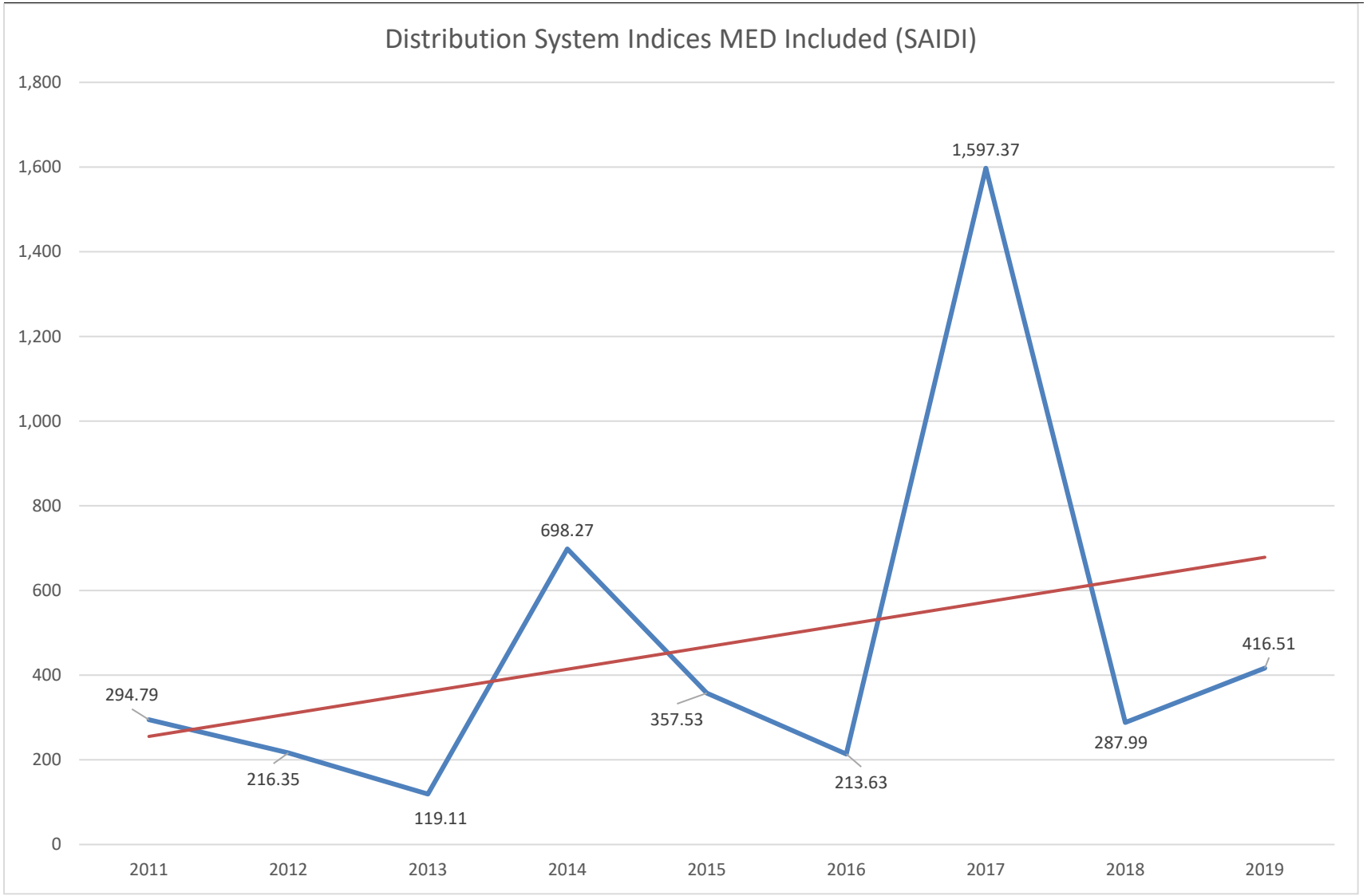
Liberty Utilities (CalPeco Electric), LLC
Distribution Historical System Reliability Data 9 Years (Years in Business)

	Major Event Included				Major Event Excluded			
Year	SAIDI	SAIFI	CAIDI	MAIFI	SAIDI	SAIFI	CAIDI	MAIFI
2019	416.51	2.96	140.73	0.31	416.51	2.96	140.73	0.31
2018	287.99	2.18	131.82	0.52	287.99	2.18	131.82	0.52
2017	1597.37	3.97	402.06	1.37	772.83	2.86	270.23	1.37
2016	213.63	1.47	144.98	1.08	213.63	1.47	144.98	1.08
2015	357.53	2.01	177.68	1.15	357.53	2.01	177.68	1.15
2014	698.27	3.63	192.44	2.15	352.37	2.40	146.58	2.15
2013	119.11	1.23	96.75	2.08	119.11	1.23	96.79	2.08
2012	216.35	1.55	139.31	2.75	216.35	1.55	139.31	2.75
2011	294.79	1.81	162.60	1.88	192.22	1.25	154.27	1.88

II. Transmission System Indices (MED Included and Excluded)

Liberty Utilities (CalPeco Electric), LLC does not own Transmission.

b. Separate charts showing a line graph of distribution system SAIDI, SAIFI, MAIFI, and CAIDI for the past 9 years (years in business) with linear trend line (TMED included and excluded).


Distribution System Indices MED Included (SAIDI)
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
294.79
216.35
119.11
698.27
357.53
213.63
1,597.37
287.99
416.51
2011
2012
2013
2014
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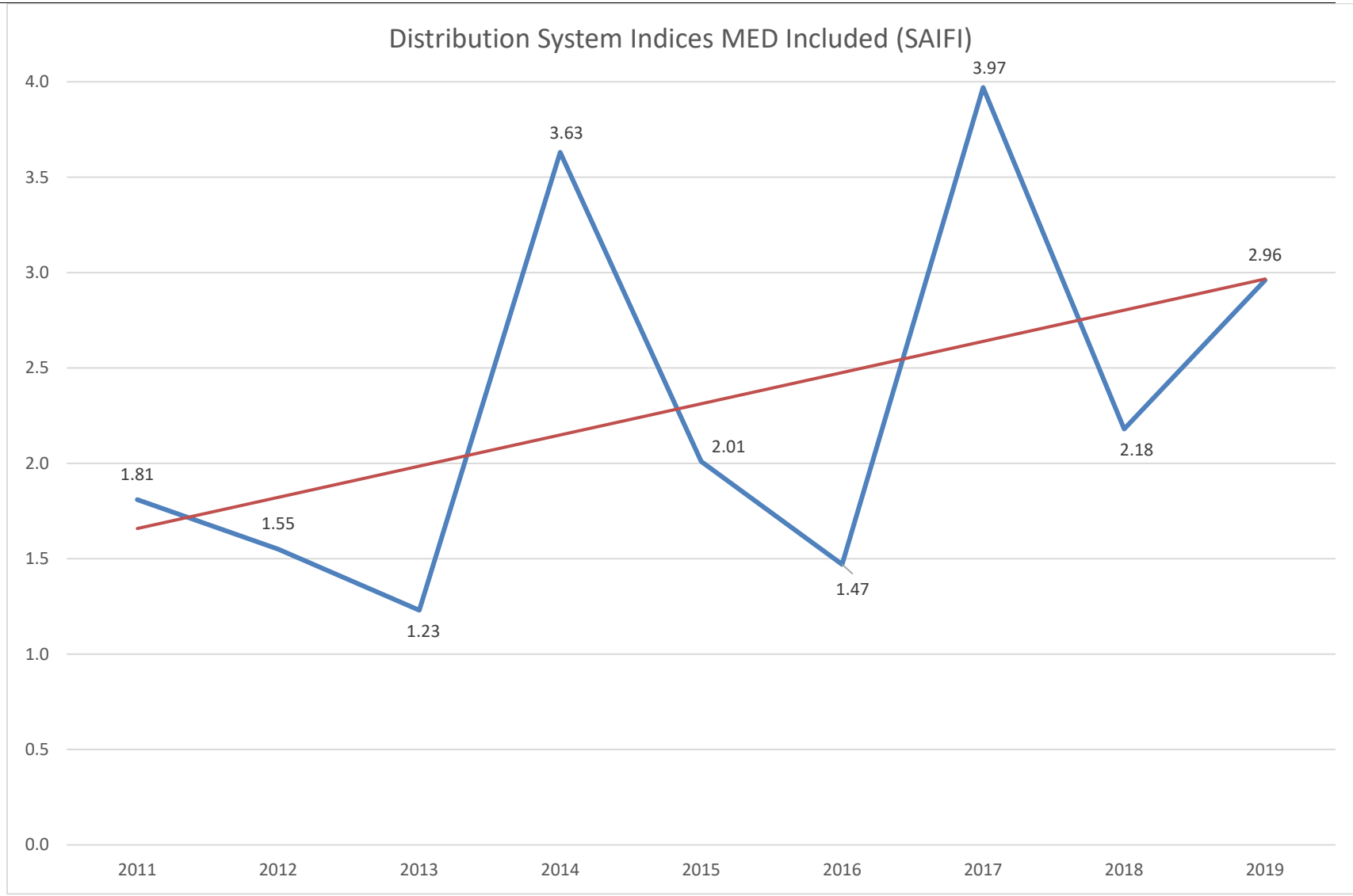
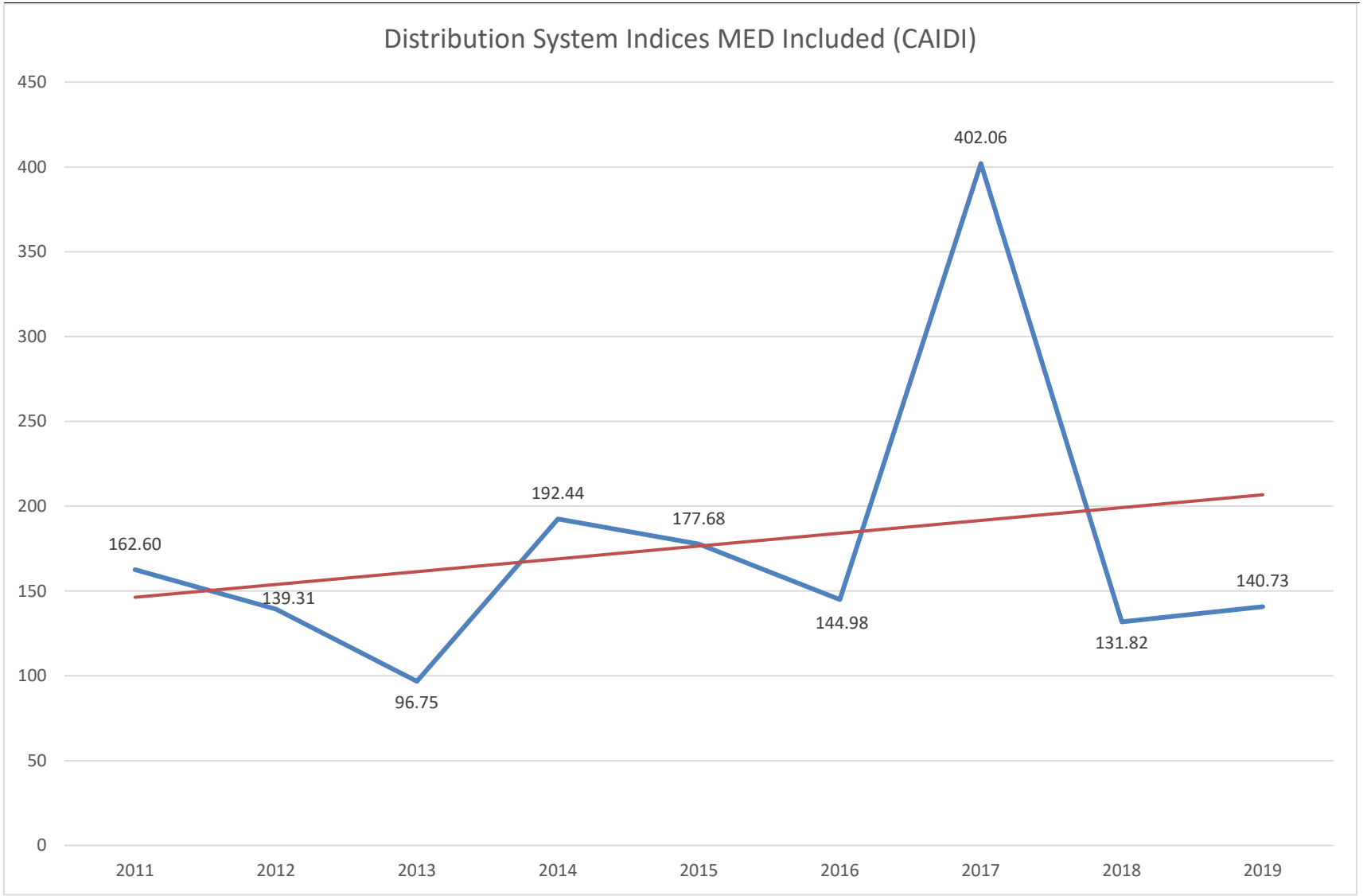
2016
2017
2018
2019


Distribution System Indices MED Included (SAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.81
1.55
1.23
3.63
2.01
1.47
3.97
2.18
2.96
2011
2012
2013
2014
2015
2016
2017
2018
2019


Distribution System Indices MED Included (CAIDI)
450
400
350
300
250
200
150
100
50
0
162.60
139.31
96.75
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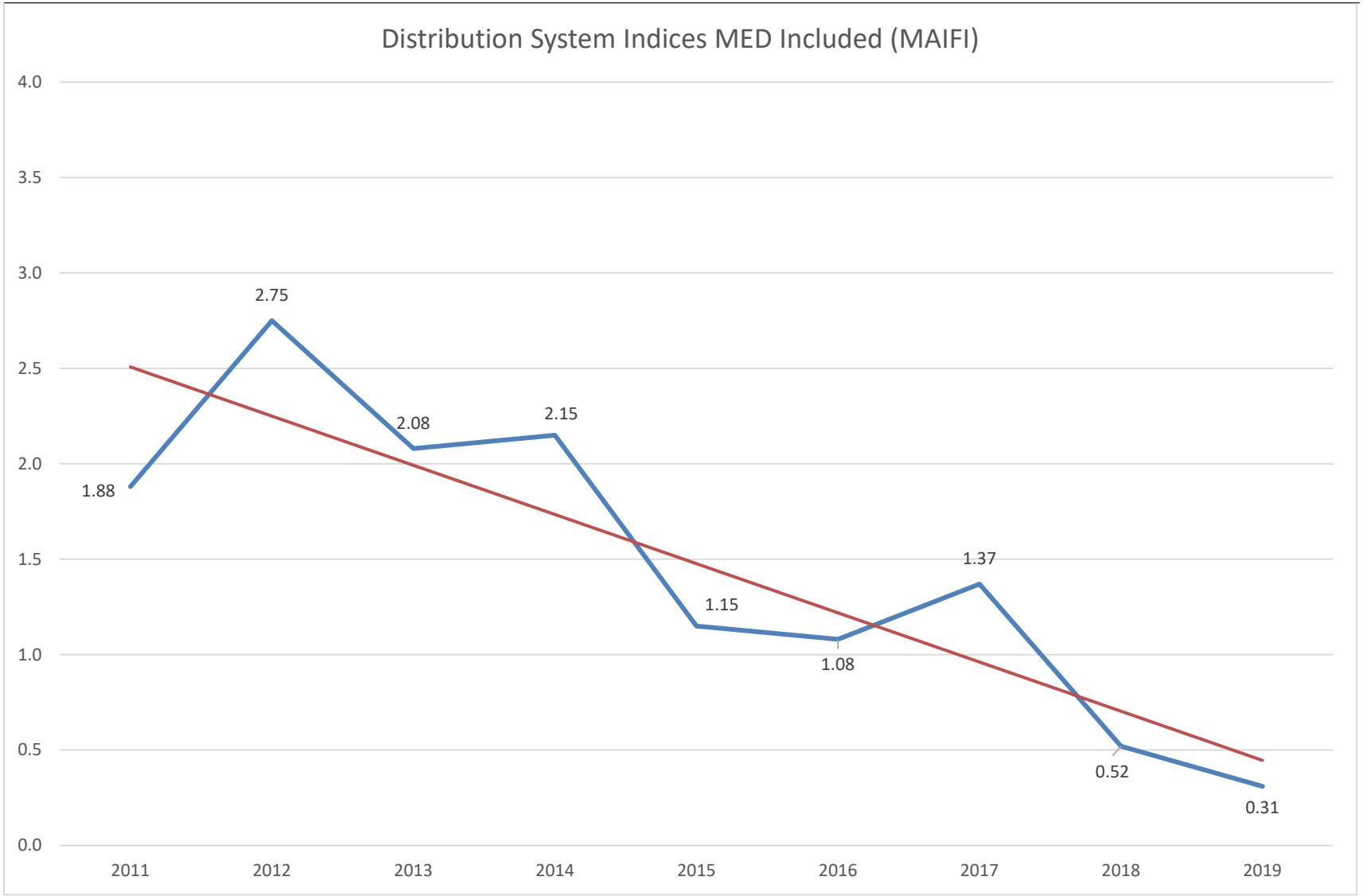
177.68
144.98
402.06
131.82
140.73
2011
2012
2013
2014
2015
2016
2017
2018
2019


Distribution System Indices MED Included (MAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.75
2.08
2.15
1.88
1.37
1.15
1.08
0.52
0.31
2011
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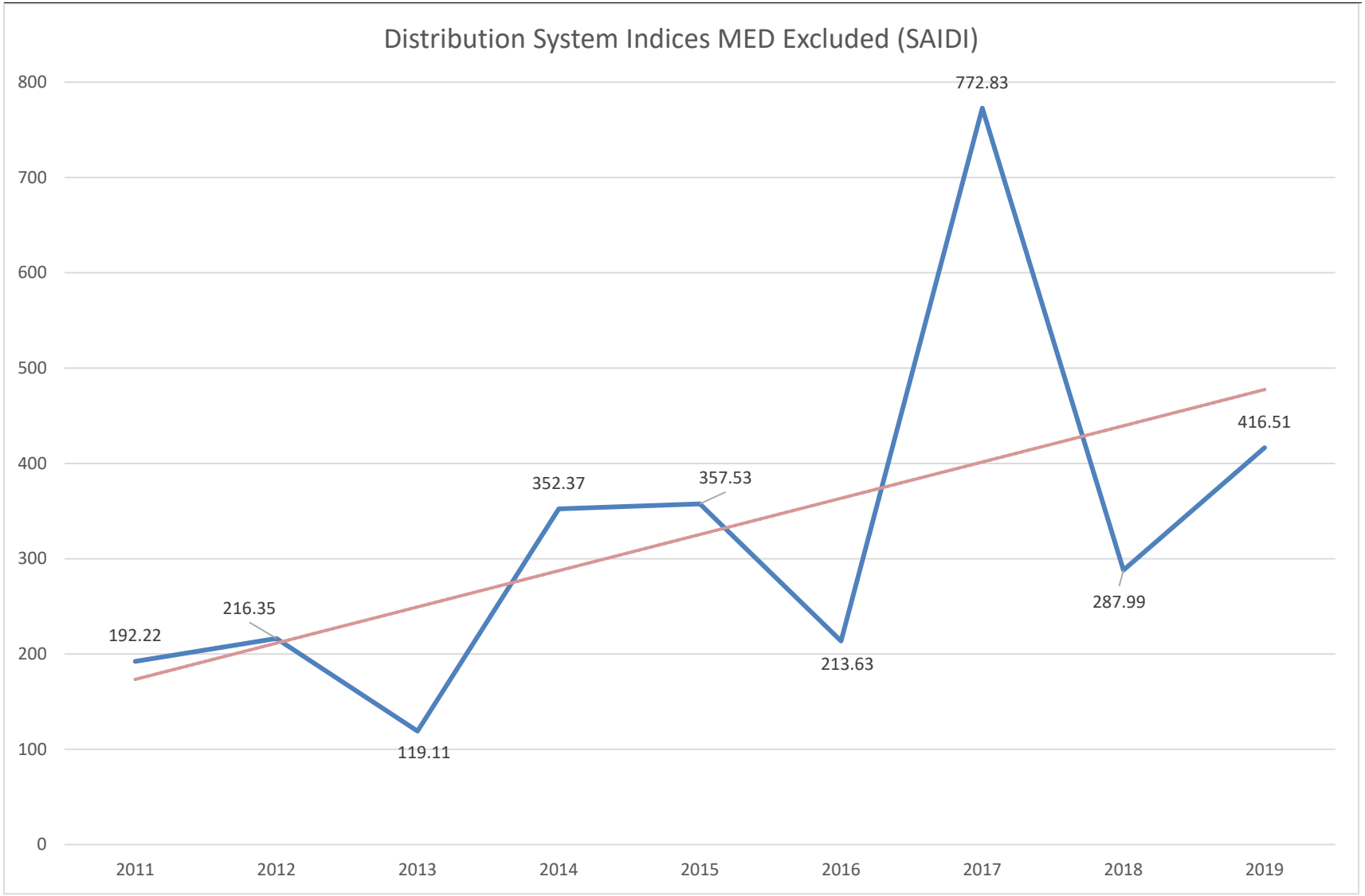
2019


Distribution System Indices MED Excluded (SAIDI)
800
700
600
500
400
300
200
100
0
2011
2012
2013
2014
2015
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2019
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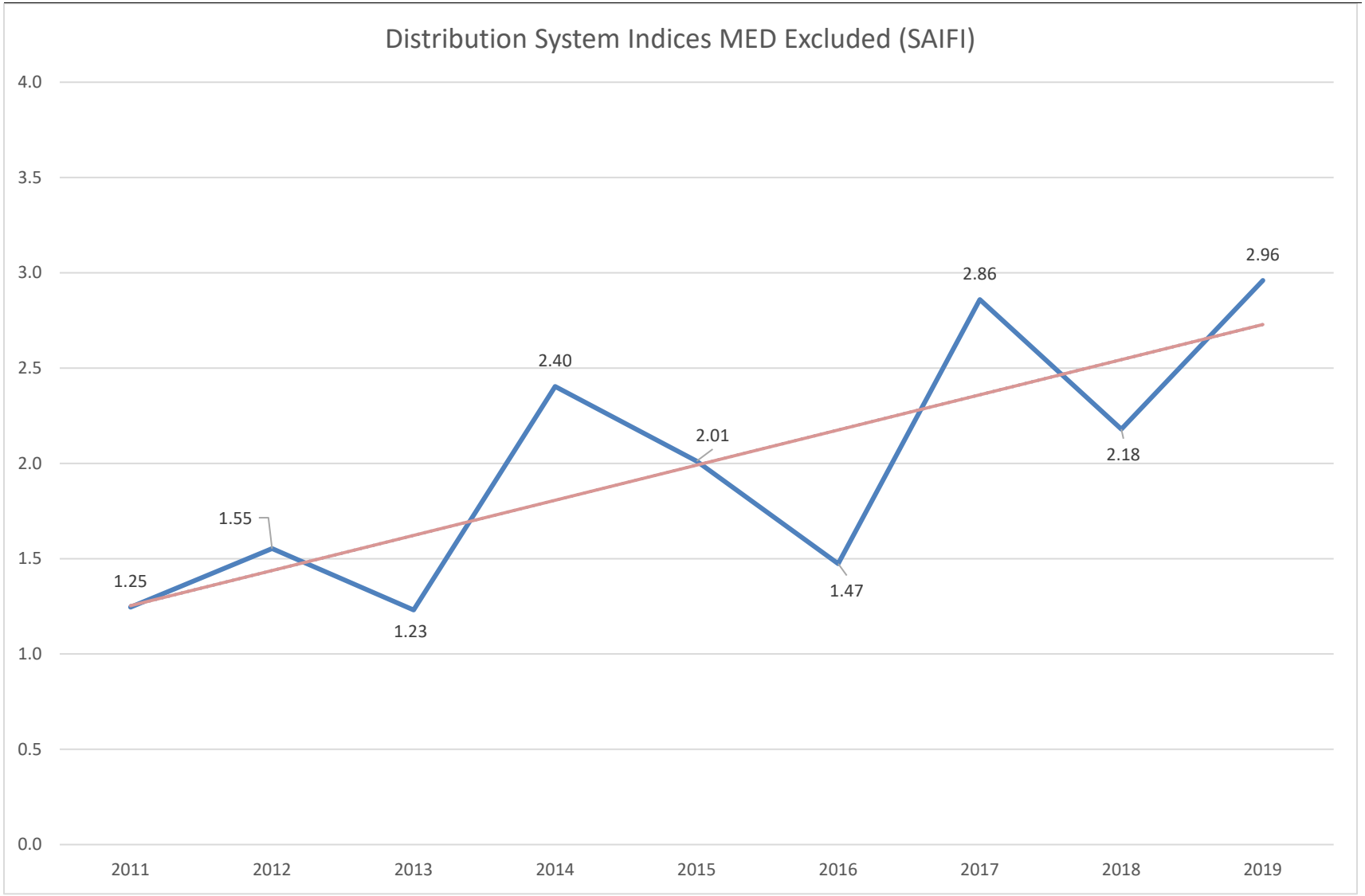
352.37
357.53
213.63
772.83
287.99
416.51


Distribution System Indices MED Excluded (SAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.25
1.55
1.23
2.40
2.01
1.47
2.86
2.18
2.96
2011
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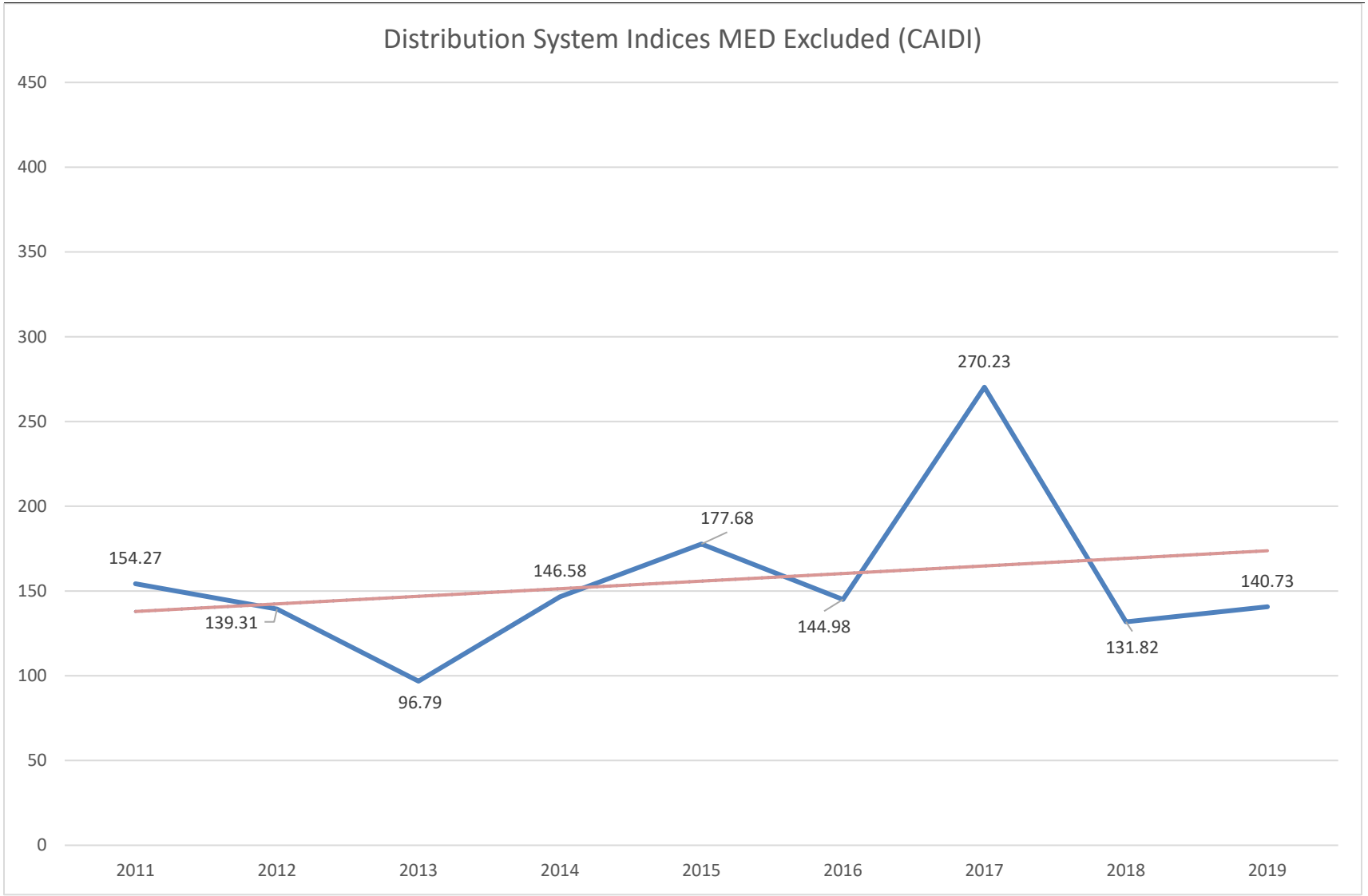
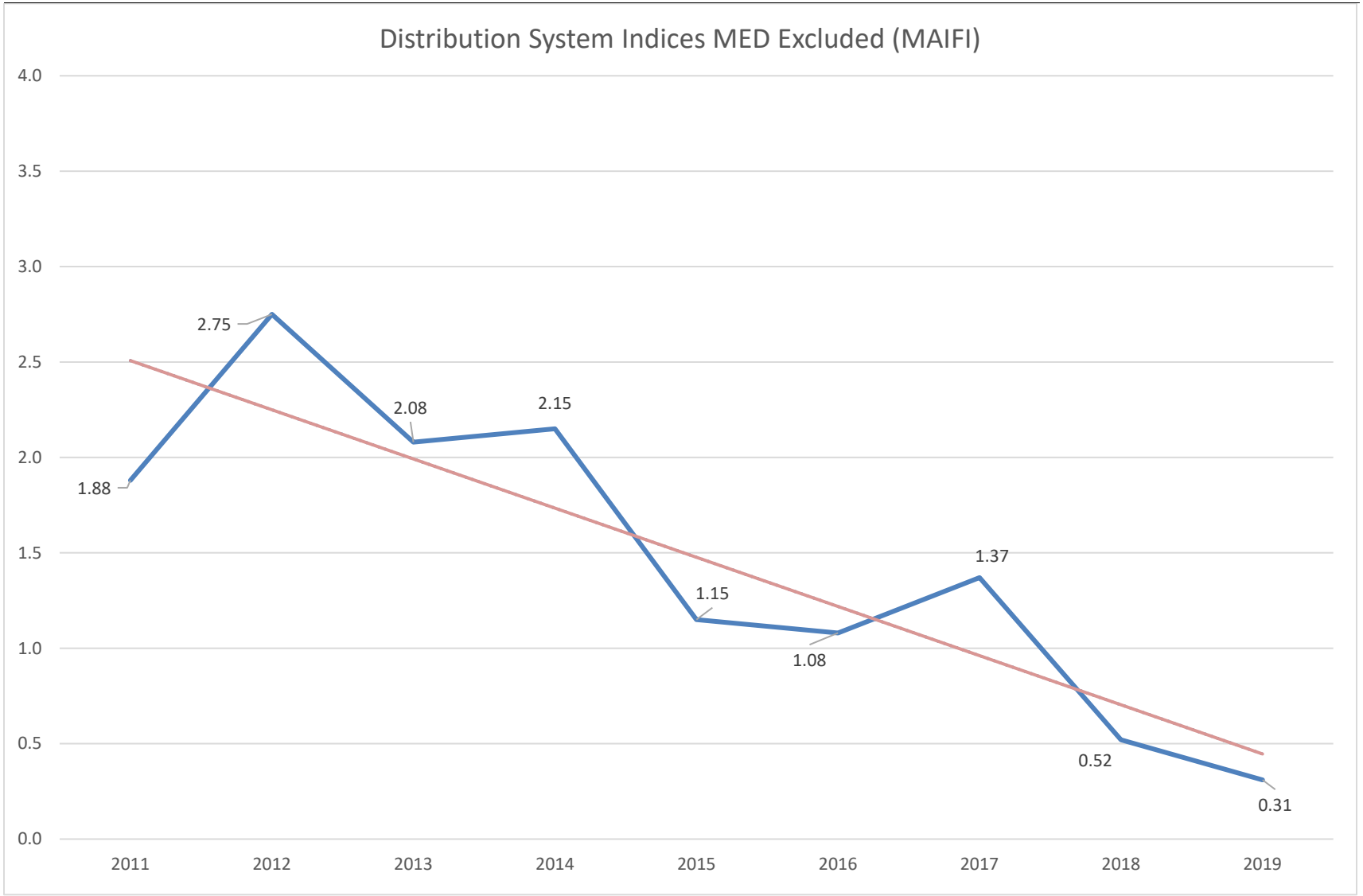
2016
2017
2018
2019


Distribution System Indices MED Excluded (CAIDI)
450
400
350
300
250
200
150
100
50
0
154.27
139.31
96.79
146.58
177.68
144.98
270.23
131.82
140.73
2011
2012
2013
2014
2015
2016
2017
2018
2019


Distribution System Indices MED Excluded (MAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.75
2.08
2.15
1.88
1.37
1.15
1.08
0.52
0.31
2011
2012
2013
2014
2015
2016
2017
2018
2019

2) Division (or District) Reliability Indices for the past 9 years

Liberty Utilities (CalPeco Electric), LLC has one division, Lake Tahoe. See section 1 for indices.

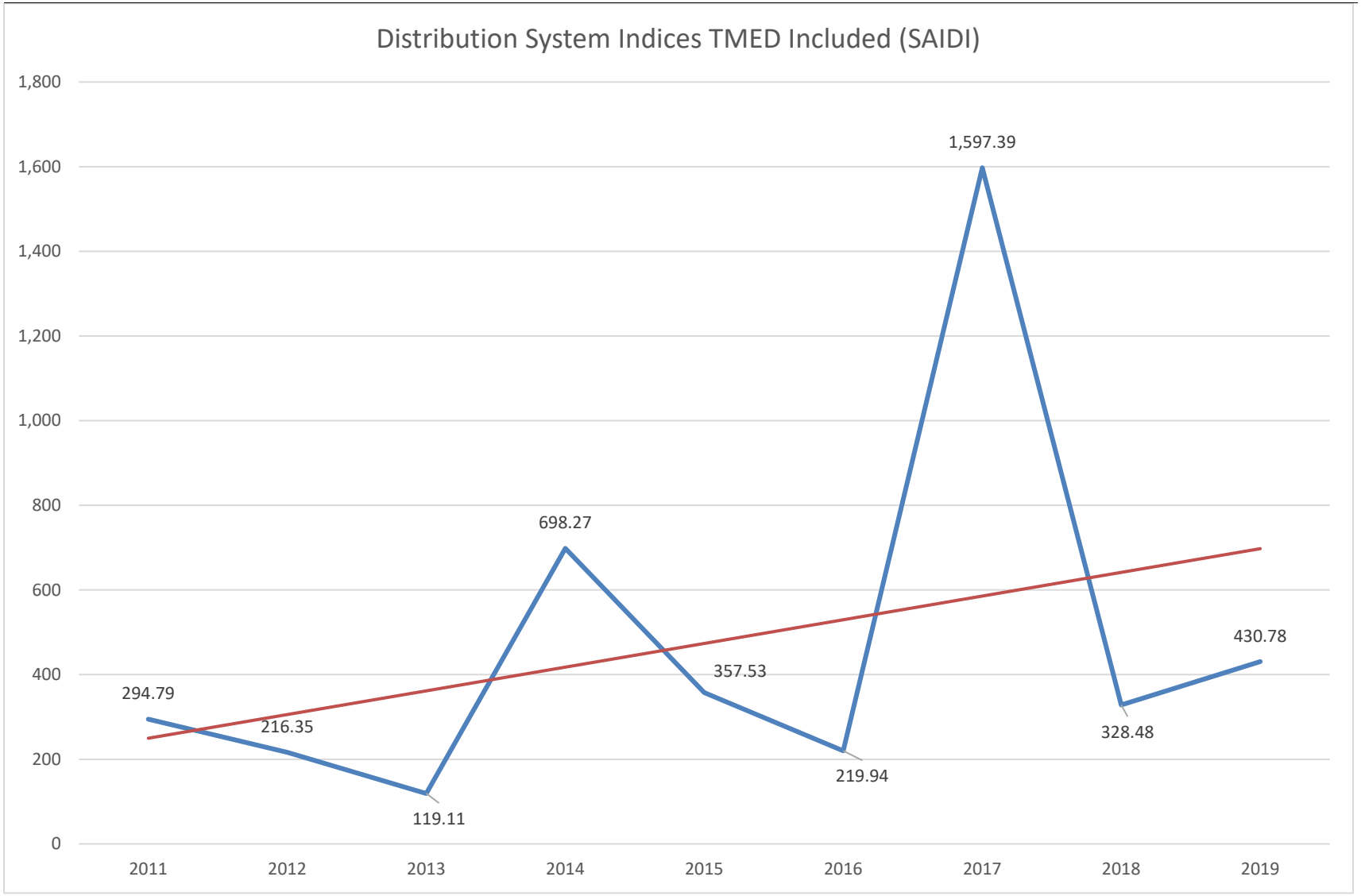
3) System and Division indices based on IEEE 1366 for the past 9 years including planned outages and including and excluding TMED

a. SAIDI, SAIFI, MAIFI, and CAIDI Data

Liberty Utilities (CalPeco Electric), LLC
Distribution Historical System Reliability Data 9 Years (Years in Business)

	TMED Included				TMED Excluded			
Year	SAIDI	SAIFI	CAIDI	MAIFI	SAIDI	SAIFI	CAIDI	MAIFI
2019	430.78	3.01	143.12	0.31	430.78	3.01	143.12	0.31
2018	328.48	2.27	144.70	0.52	328.48	2.27	144.70	0.52
2017	1597.39	4.01	398.65	1.37	772.84	2.89	267.42	1.37
2016	219.94	1.48	148.86	1.08	219.94	1.48	148.86	1.08
2015	357.53	2.01	177.68	1.15	357.53	2.01	177.68	1.15
2014	698.27	3.63	192.44	2.15	352.37	2.40	146.58	2.15
2013	119.11	1.23	96.75	2.08	119.11	1.23	96.79	2.08
2012	216.35	1.55	139.31	2.75	216.35	1.55	139.31	2.75
2011	294.79	1.81	162.60	1.88	192.22	1.25	154.27	1.88

CalPeco Electric has been in business for 9 years and therefore does not have 10 years of data.


Distribution System Indices TMED Included (SAIDI)
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
294.79
216.35
119.11
698.27
357.53
219.94
1,597.39
328.48
430.78
2011
2012
2013
2014
2015
2016
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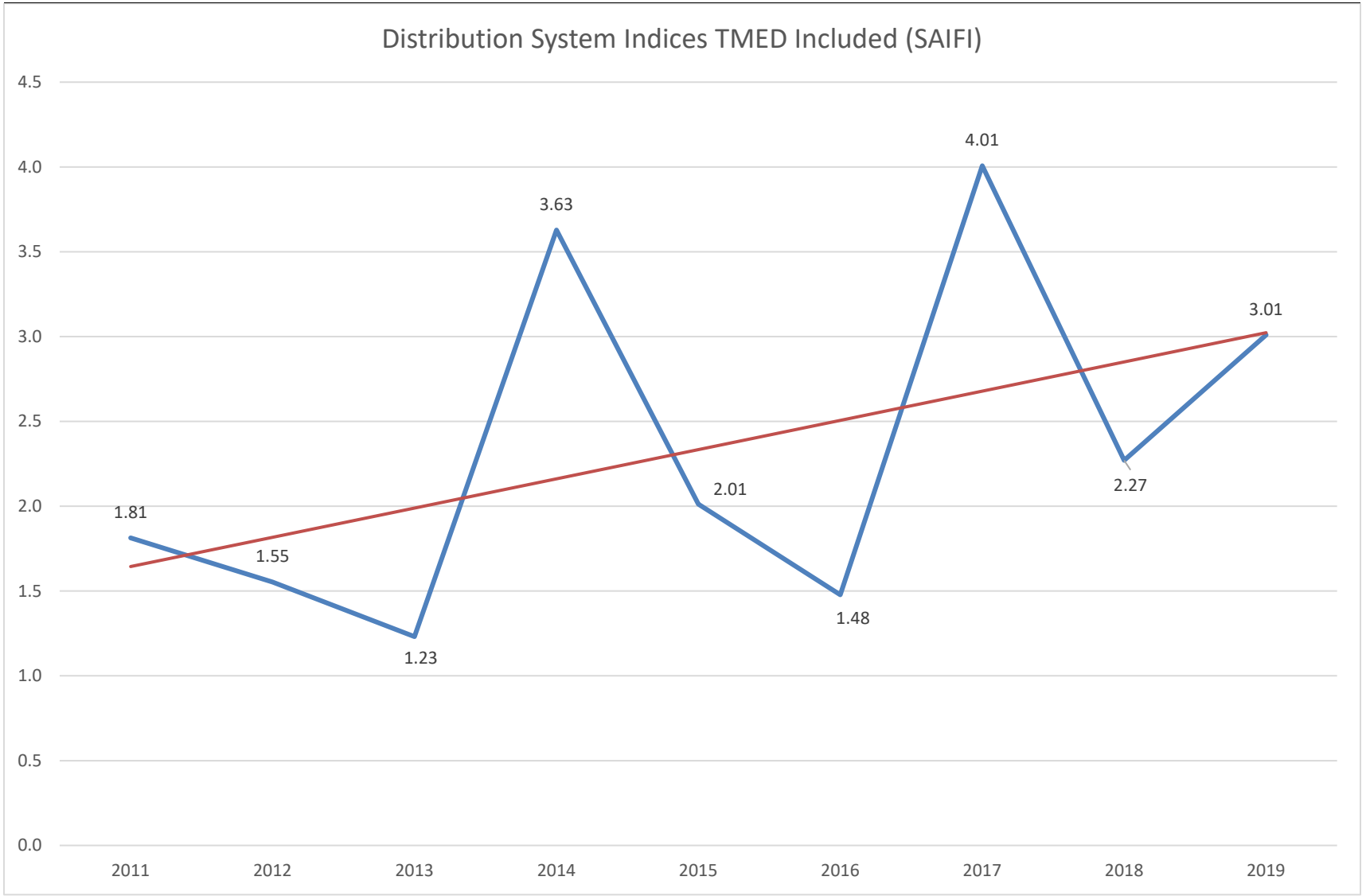
2018
2019


Distribution System Indices TMED Included (SAIFI)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.81
1.55
1.23
3.63
2.01
1.48
4.01
2.27
3.01
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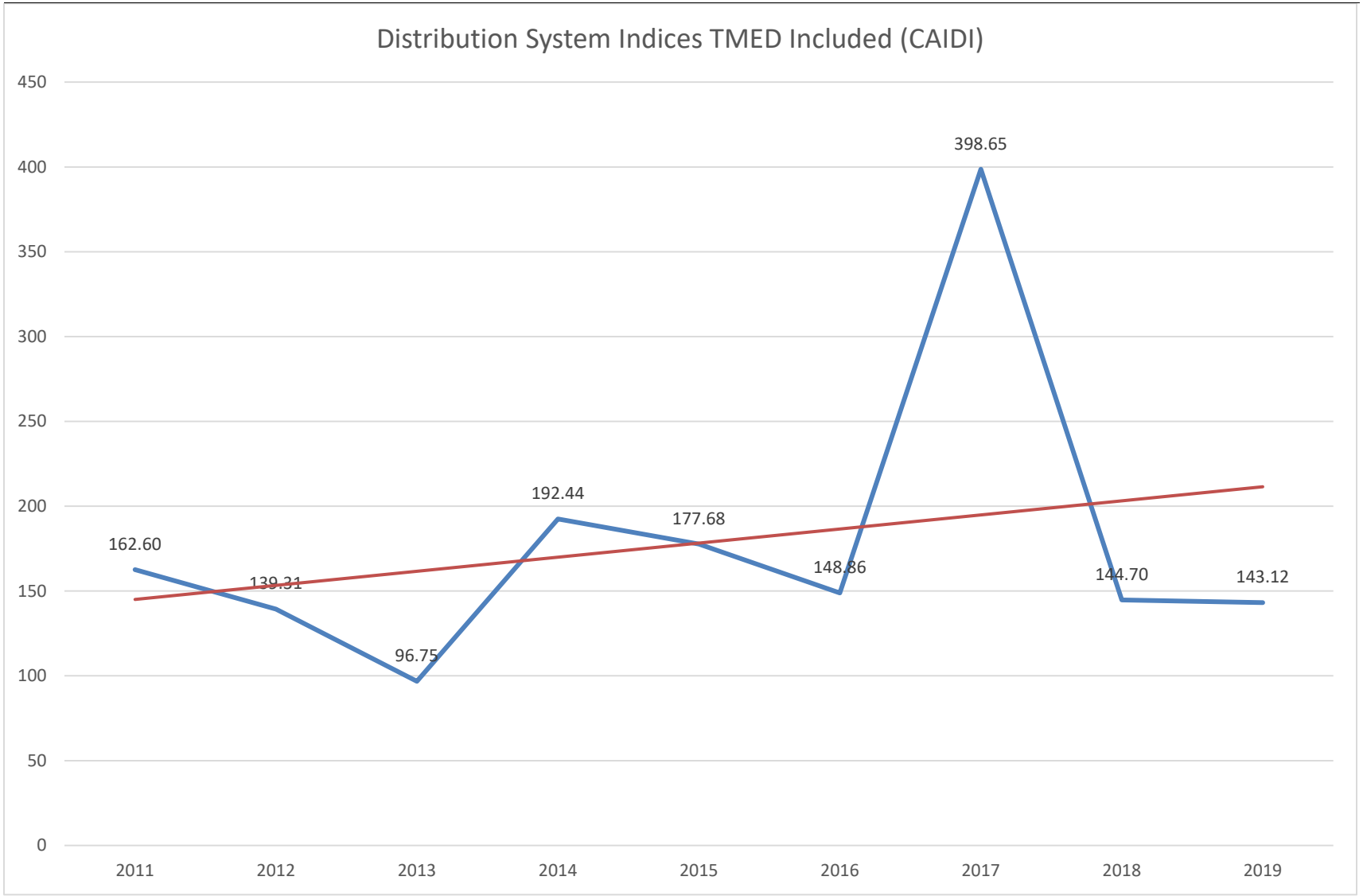
Distribution System Indices TMED Included (CAIDI)
450
400
350
300
250
200
150
100
50
0
162.60
139.31
96.75
192.44
177.68
148.86
398.65
144.70
143.12
2011
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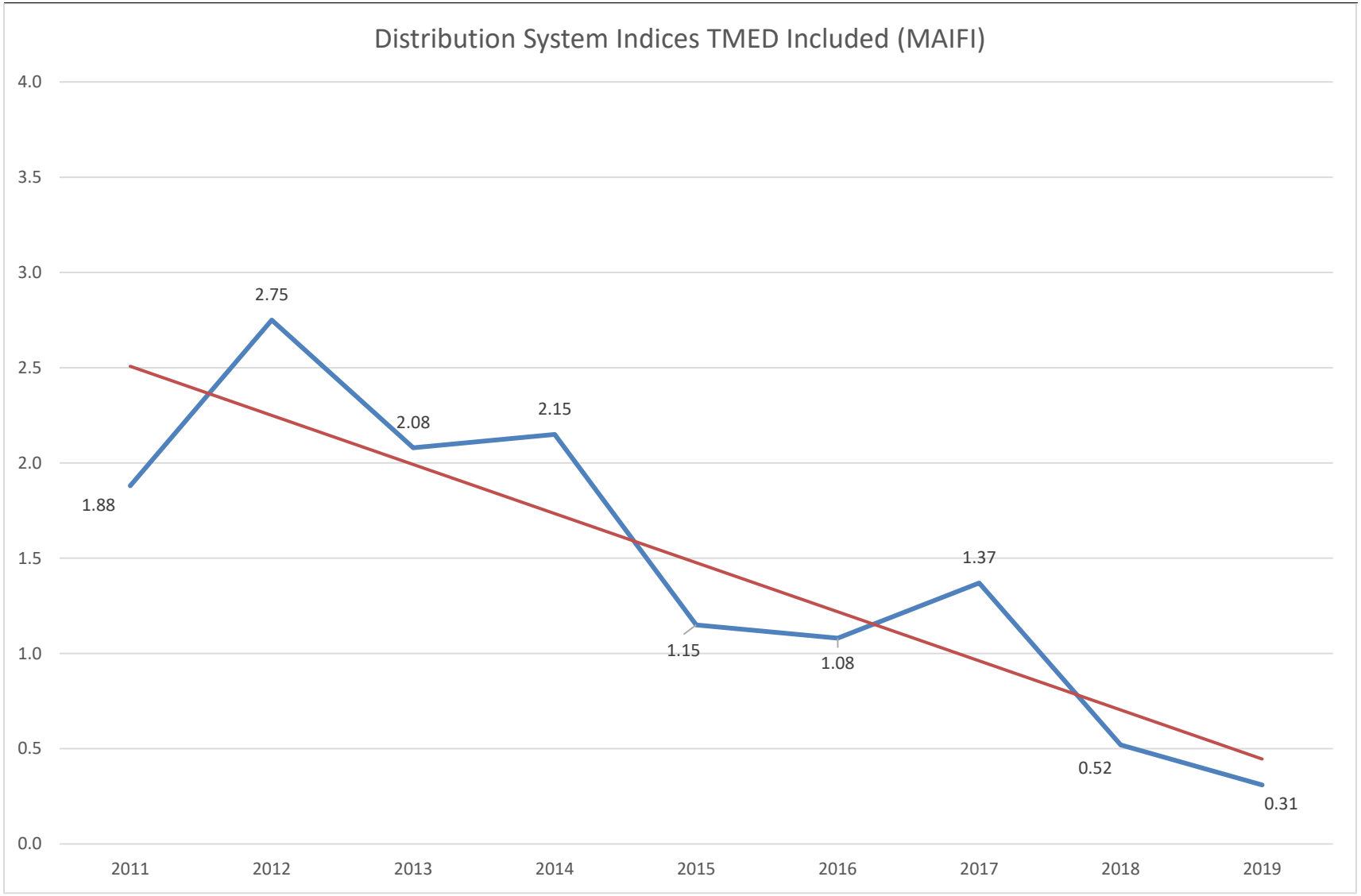
2019


Distribution System Indices TMED Included (MAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.75
2.08
2.15
1.88
1.37
1.15
1.08
0.52
0.31
2011
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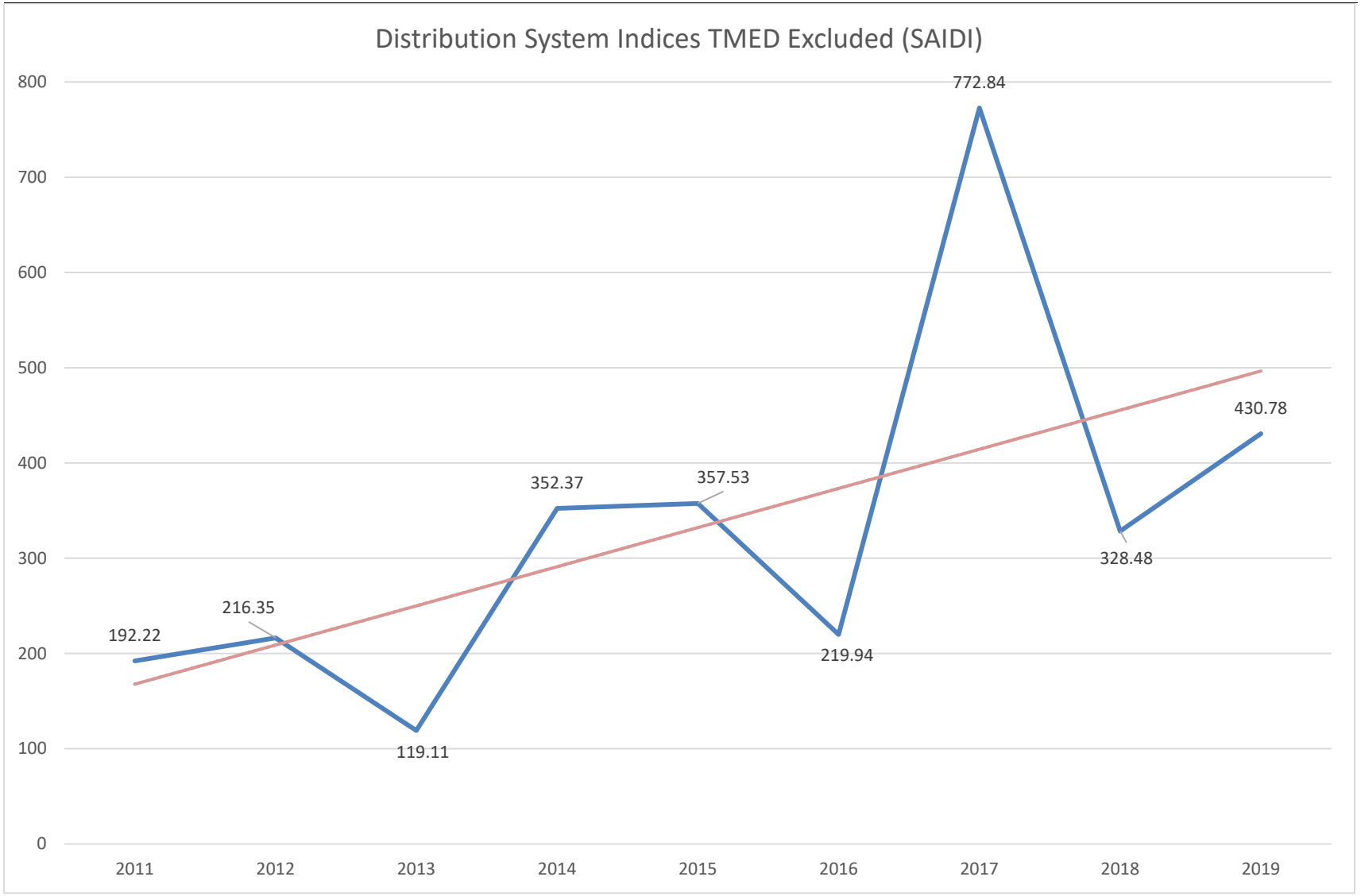
Distribution System Indices TMED Excluded (SAIDI)
800
700
600
500
400
300
200
100
0
2011
2012
2013
2014
2015
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2019
192.22
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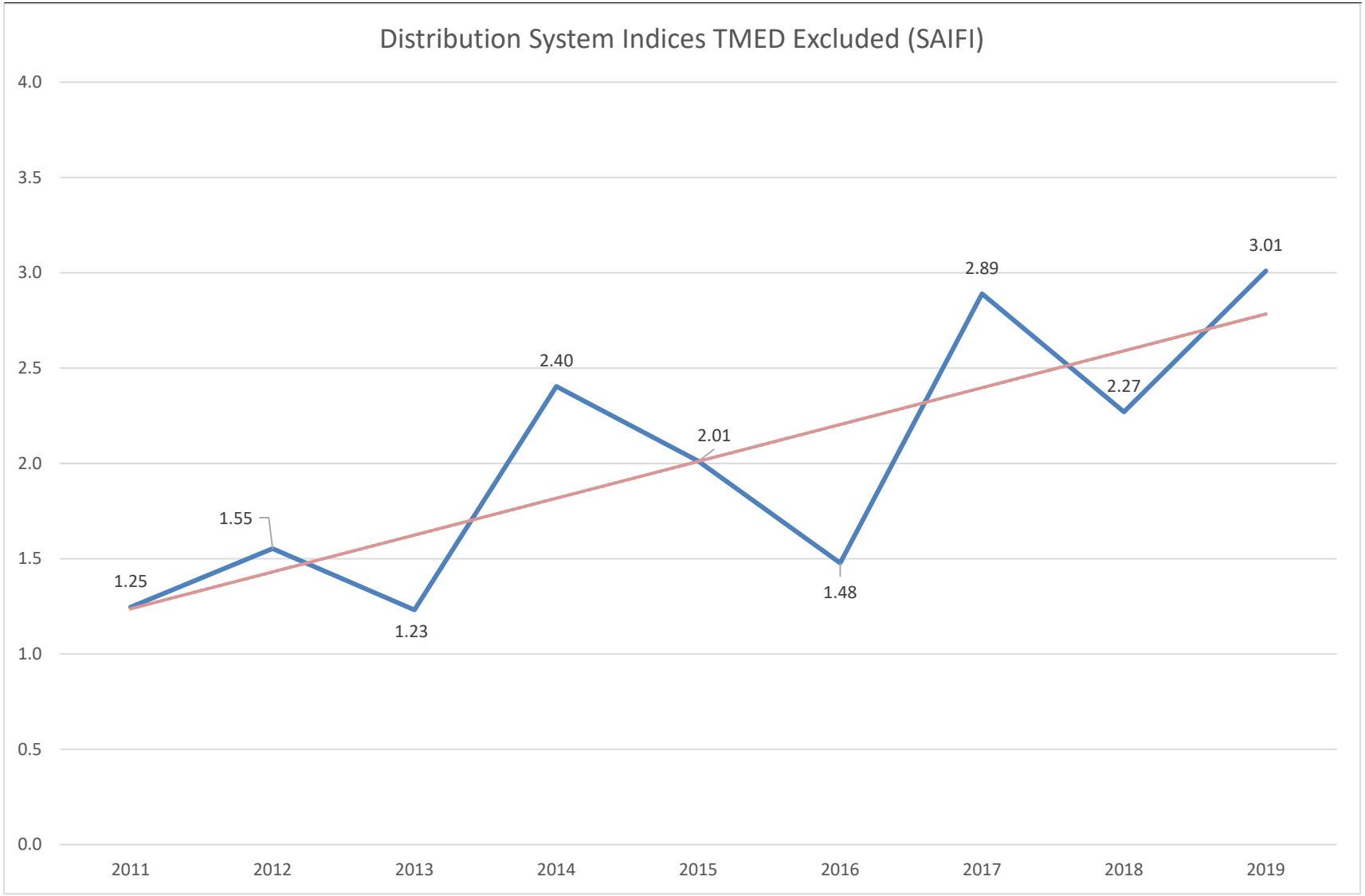
119.11
352.37
357.53
219.94
772.84
328.48
430.78


Distribution System Indices TMED Excluded (SAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.25
1.55
1.23
2.40
2.01
1.48
2.89
2.27
3.01
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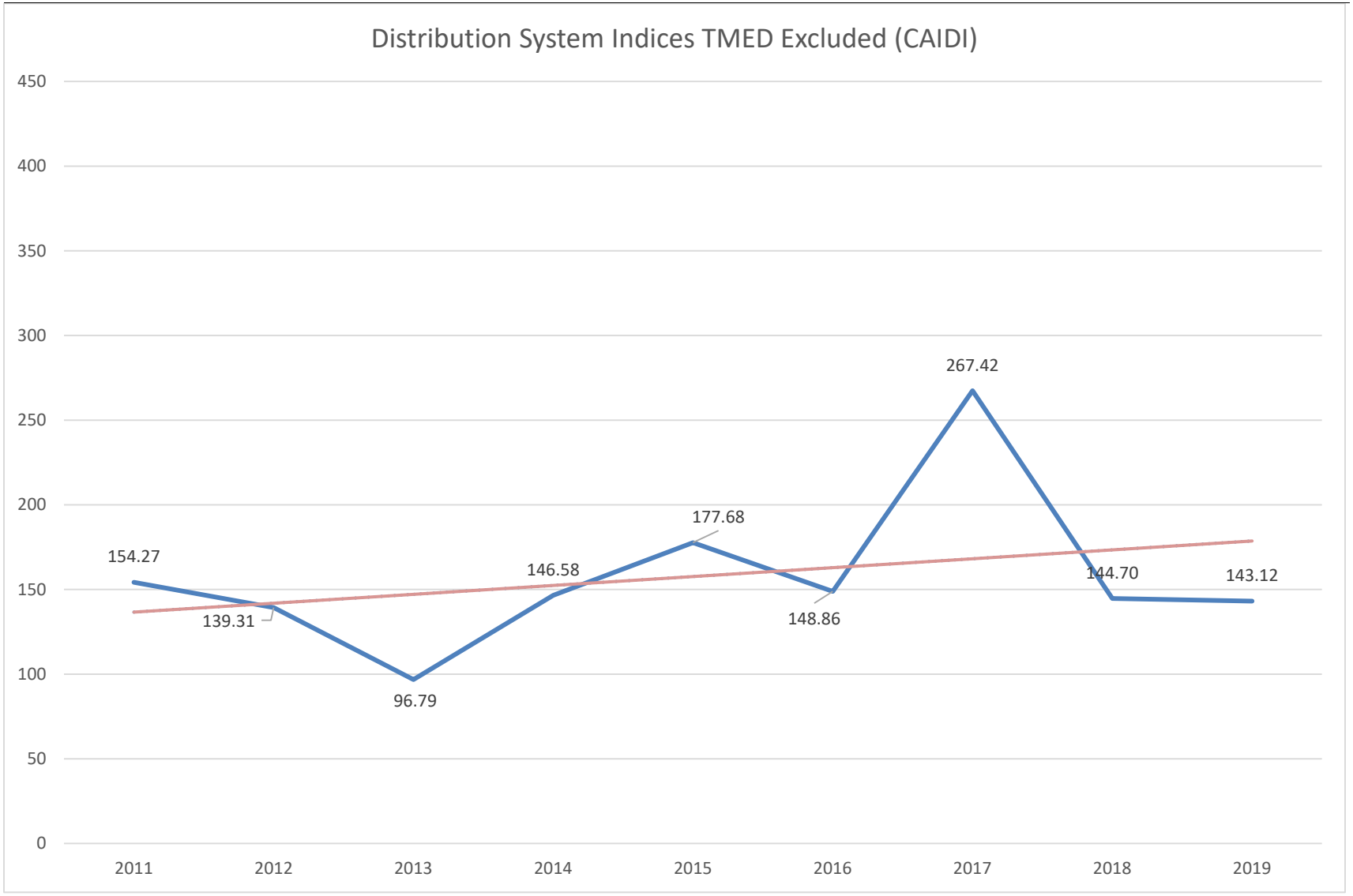
2018
2019


Distribution System Indices TMED Excluded (CAIDI)
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400
350
300
250
200
150
100
50
0
154.27
139.31
96.79
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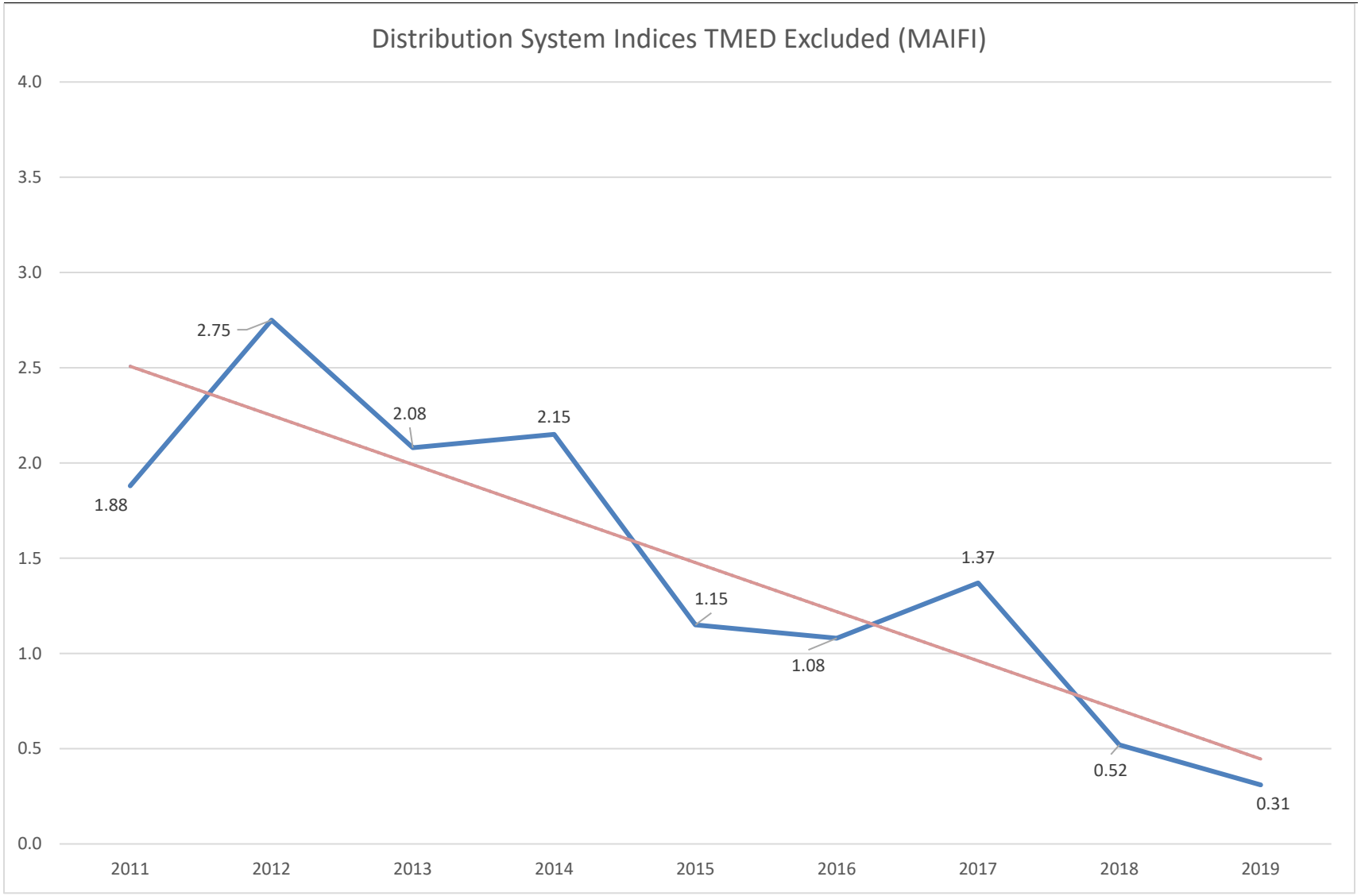
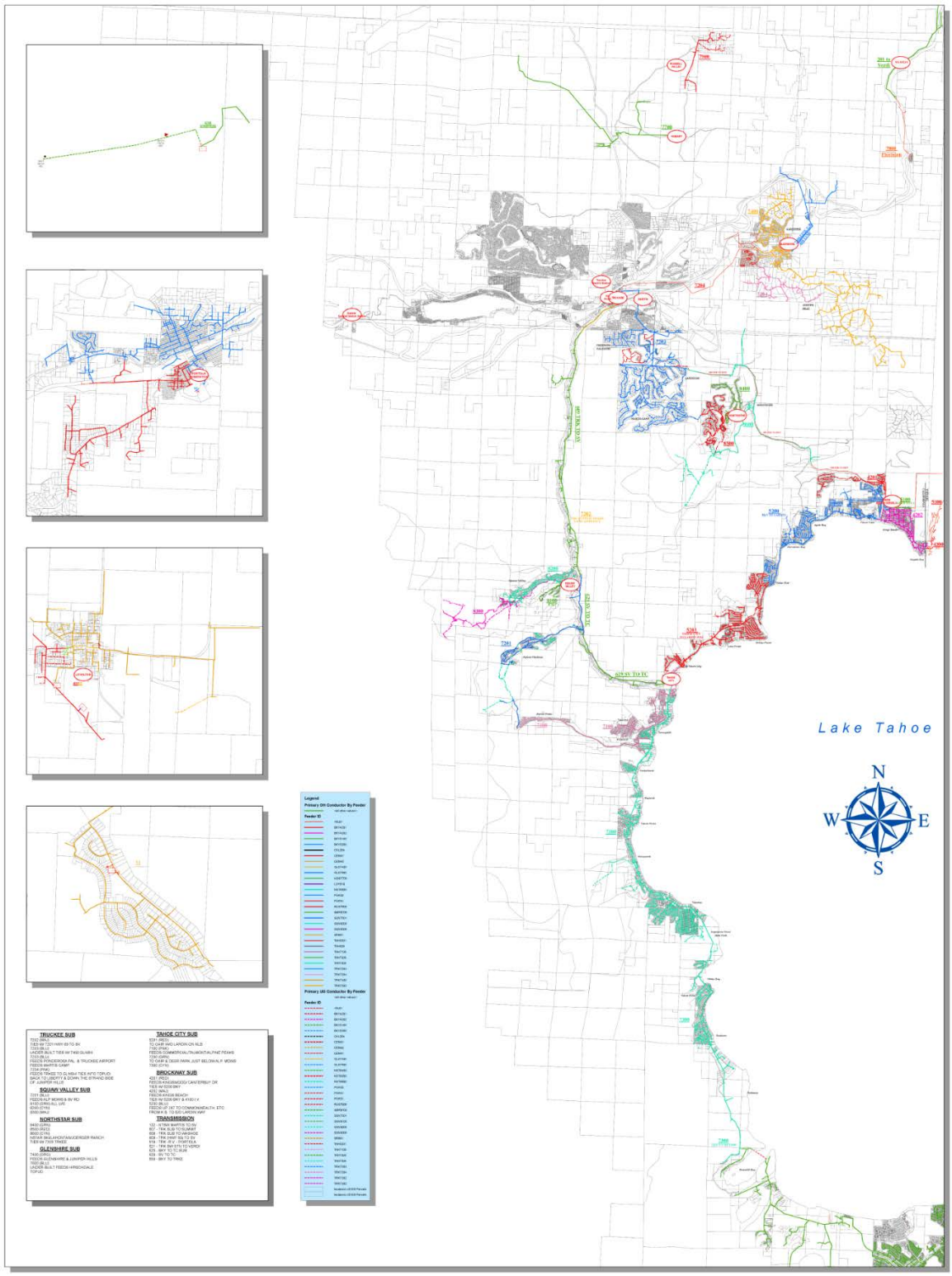
143.12
2011
2012
2013
2014
2015
2016
2017
2018
2019


Distribution System Indices TMED Excluded (MAIFI)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.75
2.08
2.15
1.88
1.37
1.15
1.08
0.52
0.31
2011
2012
2013
2014
2015
2016
2017
2018
2019

b. The number, date, and location of planned outages

Circuit	Number of Planned Outages By Year								
	2019	2018	2017	2016	2015	2014	2013	2012	2011
31		1			1				
32	1		2	1					
41				1					
201		7					1		
204	2			1					
619								1	
650					1			1	
1261	1	1							
1296		1	2		5	1			
2200	1				1	1			
2300	1	1			1	2		1	
3100	8	5	1					1	1
3101	3					2	2		
3200	3	5			1			1	
3300	8	10	2		3			2	
3400	2	4	3		5		2	4	
3500	15		6		1				
3501	3	3			2	2	4	1	1
4201	1	1		1					
4202	5	3	4				2	5	1
5100							1	1	
5200	5	4	1		4	1	1	3	
5201	8	1	5	5	4	1		1	
7100	1	2	1			1	1	4	
7200	1	1			1	1	1	2	
7201	1		4	1	2	1			
7202	3	1	1		2	3	1		
7203	3	2			2	2	4		
7300	20	14	5	6	4	16	4	5	2
7400	4	8	2	1	1				1
7600	1	1			1				1
7700						1			
7800						2			
7900	1								
8200	1	2	7	3	2	4			1
8300	1	1	2		6			2	
8400		7							
8500				1			1	2	
8600					4			2	

4) Service territory map including divisions of districts



5) Top two worst performing circuits (WPC) excluding TMED

I. For each of these circuits each utility shall include the following information in its annual report: 1) Circuit Name; 2) District/Division; 3) Customer Count; 4) Substation name; 5) Circuit-miles; 6) Percentage underground, or "% UG"; 7) Percentage overhead or "% OH"; 8) Number of mainline/feeder/backbone outages resulting in the operation of either a circuit breaker ("CB") or automatic re-closer ("AR"); and, 9) its preferred reliability metric.

Circuit	District	Customer Count	Substation Name	Circuit Miles	Facilities		Number of Mainline/ Feeder/Backbone Outages Per Year	*Circuit SAIDI	Circuit SAIFI
					OH	UG			
1261*	Tahoe	749	Topaz	70.9	76.2%	23.8%	7	3040	7.12
201*	Tahoe	64	Washoe	8.7	99.8%	0.20%	4	2931	7.83

Note: Preferred Metric is the average of circuit SAIDI over a 3 year period.

* A circuit that has been identified as deficient in the previous year's report.

II. Any circuit appearing on this list of “deficient” WPC circuits that also appeared on the previous year's list would be marked by an asterisk. For each asterisked circuit, each utility shall provide the following information:

I. An explanation of why it was ranked as a "deficient" circuit, i.e., the value of the metric used to indicate its performance;

II. A historical record of the metric;

III. An explanation of why it was on the deficiency list again;

IV. An explanation of what is being done to improve the circuit's future performance and the anticipated timeline for completing those activities (or an explanation why remediation is not being planned); and

V. A quantitative description of the utility's expectation for that circuit's future performance.

The Topaz 1261 circuit was noted as a deficient circuit in 2018 as well as 2019. The 3 year average circuit SAIDI score remains high due to significant outages in 2017 from wildfire and severe winter storms and an outage on March 22, 2019 which lasted approx. 58hrs. If the March 22nd, 2019 outage is excluded from the data, the Topaz 1261 circuit would not have been considered a deficient circuit in 2019.

There were 25 unplanned outages in 2019 for the 1261 circuit, 3 were due to a loss of source from a third party owned substation, 6 were due to equipment/hardware failure, 3 were weather related, 1 was due to trees,1 was due to an operations error and the rest were unknown.

The historical metric for Topaz 1261:

- 2019 – 3,040.6
- 2018 – 2,393.8
- 2017 – 3,004.5
- 2016 – 1930.4

There are currently no plans in place that would remedy loss of source outages, which account for majority of the outages experienced by customers on this circuit. The circuit is a radial line, sourced by an NV Energy substation in Nevada. Approximately 10,000ft of this line will be will be rebuilt in 2020.

The circuit performance in 2019 was higher than historical records, excluding 2017. The 2017 performance is an outlier and does not accurately reflect the condition of this circuit. Liberty expects this circuit will no longer be a deficient

circuit no later than 2021 when the 2017 data is removed from the average and the planned rebuild is complete in 2020.

The Washoe 201 circuit was noted as a deficient circuit in 2017, 2018 as well as 2019. The 3 year average circuit SAIDI score remains high due to significant outages in 2017 from wildfire and severe winter storms.

There were only 5 unplanned outages in 2019 for the 201 circuit, 4 were due to a loss of source from a third party owned substation and the 5th time the substation was de-energized due to a brush.

The historical metric for Washoe 201:

- 2019 – 2931.6
- 2018 – 2,722.9
- 2017 – 2,698.9
- 2016 – 269.2

There are currently no plans in place that would remedy loss of source outages, which account for majority of the outages experienced by customers on this circuit. The circuit is a radial line in difficult terrain, sourced by an NV Energy substation in Nevada. The line has been rebuilt in 2014 and Liberty completed a voltage conversion in 2018 so that the entire circuit is now 24.9kV.

The circuit performance in 2019 was similar to historical records, excluding 2017. The 2017 performance is an outlier and does not accurately reflect the condition of this circuit. Liberty expects this circuit will no longer be a deficient circuit no later than 2020 when the 2017 data is removed from the average.

III. Language to explain how the IOUs' include a cost effectiveness review as part of their respective internal review processes for circuit remediation projects.

I. Definitions of terms, acronyms, limitations, and assumptions;

<u>Definitions</u>

WPC- Worst Performing Circuits

<u>Assumptions</u>

Our analysis excludes planned outages and TMED outages.

II. A clear explanation of the utility's process to determine the worst performing circuits:

The top 2 Worst Performing Circuits (WPC) are determined based upon the calculated average of circuit SAIDI over a 3 year period. This index is calculated on sustained outages by taking the total customer minutes of interruption and dividing by the number of customers on the circuit. Three years' worth of data is included and averaged in order to account for anomalies and tracking the impact of phased improvement projects.

III. A clear explanation of the utility's process to determine cost-effective remediation projects. This shall include why the utility may decide to implement a project to address one worst performing circuit issue while deciding to not implement a project to address a different worst performing circuit.

The Regional Engineer presents proposals for reliability improvement projects along with a circuit analysis, cost-benefit analysis, and details on customer impact to the Business Manager, Engineering Manager, and Vice President of Operations. Collectively, the group determines which projects to approve or suggest alternatives and further analysis.

6) Top 10 major unplanned power outage events within a reporting year

a. The cause of each outage event; and

b. The location of each outage event.

Rank	Outage Date	Cause	Location	Customer Impact	SAIDI	SAIFI
1	10/1/2019	Third Party - Contractor Dig In	Lake Tahoe	10490	51.79	0.22223
2	2/22/2019	Equipment Failure	Lake Tahoe	8560	35.36	0.1814
3	10/3/2019	Third Party - Contractor Dig In	Lake Tahoe	7841	1.83	0.1661
4	2/26/2019	Hardware Failure	Lake Tahoe	4485	19.96	0.0950
5	1/18/2019	Tree	Lake Tahoe	4448	8.93	0.0942
6	3/6/2019	Hardware Failure	Lake Tahoe	4448	4.62	0.0942
7	11/11/2019	Animal	Lake Tahoe	4245	3.24	0.0899
8	9/21/2019	Third Party – Line Contact	Lake Tahoe	3712	2.05	0.0786
9	6/7/2019	Animal	Lake Tahoe	3529	2.09	0.0748
10	6/7/2019	Tree	Lake Tahoe	3507	6.76	0.0743

*Based on customer impact

7) Summary list of 2019 TMED per IEEE 1366

a. The number of customers without service at periodic intervals for each TMED;

b. The cause of each Major Event (ME); and

c. The location of each ME.

TMED as of 2018 = 171.00

CalPeco Electric did not experience an event in 2019 where the daily SAIDI was higher than the calculated TMED.

8) Historical 10 largest unplanned outage events for the past 8 years*

*Based on Customers Affected

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Third Party - Contractor Dig In	10/1/2019	10,490	3.88	40701.2	No
2	Equipment Failure	2/22/2019	8,560	4.42	37835.2	No
3	Third Party - Contractor Dig In	10/3/2019	7,841	0.18	1411.38	No
4	Hardware Failure	2/26/2019	4,485	3.5	15697.5	No
5	Tree	1/18/2019	4,448	1.76	7828.48	No
6	Hardware Failure	3/6/2019	4,448	0.82	3647.36	No
7	Animal	11/11/2019	4,245	0.6	2547	No
8	Third Party – Line Contact	9/21/2019	3,712	0.43	1596.16	No
9	Animal	6/7/2019	3,529	0.47	1658.63	No
10	Tree	6/7/2019	3,507	1.51	5295.57	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Third Party - Switching	5/17/2018	17,315	2.51	91301.9	No
2	Loss of Source – External System	12/12/2018	7,552	0.1	755.2	No
3	Trees	10/17/2018	7,398	6.32	14218.8	No
4	Loss of Source – External System	12/12/2018	7,089	0.1	708.9	No
5	Hardware Failure	10/3/2018	4,678	3.61	6958.1	No
6	Trees - Major Storm	6/9/2018	4,485	9.38	6420.1	No
7	Unknown	11/12/2018	4,154	1.76	7338.7	No
8	Unknown	1/4/2018	3,529	0.2	705.8	No
9	Loss of Source – External System	12/12/2018	3,434	0.1	343.4	No
10	Loss of Source – External System	8/4/2018	2,721	2.96	8072.3	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Loss of Source – External System	1/10/17	22,000	26.12	5,745,66.7	No
2	Loss of Source – External System	8/28/2017	8,643	1.15	9,939.5	No
3	Major Storm	1/8/2017	4,497	9.75	43,845.8	No
4	Major Storm	2/8/2017	4,497	2.58	11,617.3	No
5	Trees	4/7/2017	4,497	1.91	8,619.3	No
6	Trees/Major Storm	2/22/2017	4,105	1.68	6,910.1	No
7	Major Storm	1/5/2017	3,517	8.72	30,656.5	No
8	Major Storm	2/21/2017	3,517	0.4	1,406.8	No
9	Underground Fault	5/30/2017	3,486	2.82	9,818.9	No
10	Carp/Pole	6/6/2017	3,486	1.97	6,855.8	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Loss of Source – External System	3/13/2016	6,882	0.75	5,046.80	No
2	Wind/Trees	10/16/2016	4,125	1.75	7,150.00	No
3	Underground Fault	10/4/2016	4,125	4.31	17,793.30	No
4	Downed Wire	3/22/2016	4,125	1.70	6,294.80	No
5	Car/Pole	3/13/2016	3,517	1.00	3,957.90	No
6	Failed Overhead Hardware/Material	1/1/2016	3,500	5.50	7,250.00	No
7	Trees	3/1/2016	3,258	0.50	1,683.30	No
8	Underground Fault	6/29/2016	2,859	8.42	3,975.10	No
9	Primary Contact – 3rd Party	8/23/2016	2,772	5.15	2,693.25	No
10	Trees	6/15/2016	2,732	8.15	3,822.70	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Storm	4/25/2015	4,120	6.50	12,380.00	No
2	Underground Fault	2/14/2015	3,587	0.50	2,511.00	No
3	Downed Wire	12/11/2015	3,587	10.00	17,251.00	No
4	Trees	2/6/2015	3,548	0.50	1,360.00	No
5	Bird/Animal	5/24/2015	3,000	6.50	12,340.00	No
6	Fire	2/20/2015	3,000	0.50	1,650.00	No
7	Weather/Lightning	7/4/2015	3,000	2.00	5,600.00	No
8	Weather/Lightning	7/7/2015	3,000	0.25	1,000.00	No
9	Operations	8/11/2015	3,000	0.25	750.00	No
10	Weather/Lightning	8/7/2015	3,000	1.75	5,400.00	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	NV Energy Outage	9/27/2014	27,046	4.27	115,396.27	Yes
2	Flashing	7/20/2014	26,000	5.12	2,690.45	Yes
3	Tree-Green	12/11/2014	15,853	4.03	63,940.43	No
4	Relay Failure	9/23/2014	8,900	0.22	1,928.33	No
5	Trees	3/11/2014	3,587	1.83	6,521.17	No
6	Weather/Lightning	7/20/2014	3,587	0.75	2,690.25	No
7	Trees	8/30/2014	3,587	0.30	1,195.67	No
8	Trees	1/30/2014	3,548	4.25	2,109.00	No
9	Bird/Animal	8/31/2014	3,548	0.50	1,774.00	No
10	Trees	7/20/2014	3,500	5.00	17,266.67	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1	Wire Down Transformer	7/4/2013	5,650	9.82	10,816.02	No
2	Tree Trimming	8/14/2013	4,800	2.35	4,334.50	No
3	Car/Pole	10/25/2013	3,548	0.40	1,419.20	No
4	Cable Failure	8/7/2013	3,475	8.50	4,412.50	No
5	Trees	3/14/2013	3,315	0.30	1,049.75	No
6	Hardware Failure	3/6/2013	3,000	8.13	14,740.00	No
7	Weather/Lightning	7/2/2013	3,000	2.10	6,300.00	No
8	Weather/Lightning	7/25/2013	2,042	3.46	911.83	No
9	Bird/Animal	10/5/2013	2,000	4.00	2,108.00	No
10	Unknown Cause	6/30/2013	2,000	0.76	1,533.33	No

Rank	Description	Date	Customers Affected	Longest Interruption (hours)	Customers-hours affected	CPUC Major Event?
1		8/19/2012	8,677	1.08	9,400.08	No
2	Overhead Hardware/Material	11/29/2012	4,200	.067	3,488.33	No
3	Trees	4/1/2012	4,120	12.70	37,471.67	No
4	Hardware Failure	4/13/2012	4,120	2.95	12,154.00	No
5	Trees	5/24/2012	4,120	0.73	3,021.33	No
6	Bird/Animal	6/28/2012	3,587	0.47	1,673.93	No
7	Weather/Lightning	7/23/2012	3,548	1.16	909.50	No
8	Car/Pole	7/16/2012	3,315	8.83	2,724.17	No
9	Bird/Animal	5/11/2012	3,201	2.48	7,949.15	No
10	Bird/Animal	6/25/2012	1,967	5.60	11,015.20	No

9) Number of customer inquiries on reliability data and the number of days per response

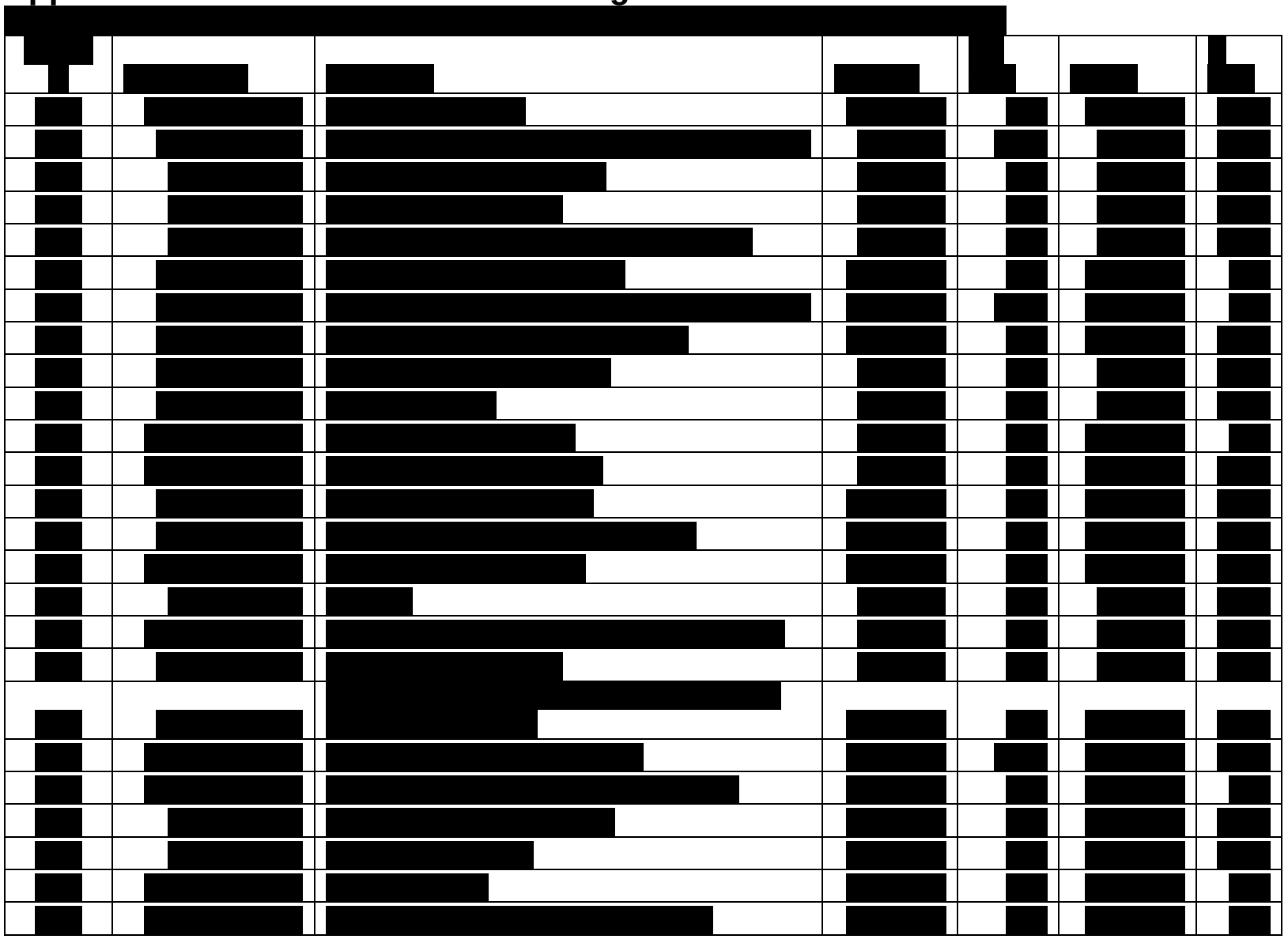
CalPeco Electric did not receive any reliability inquiries in 2019.

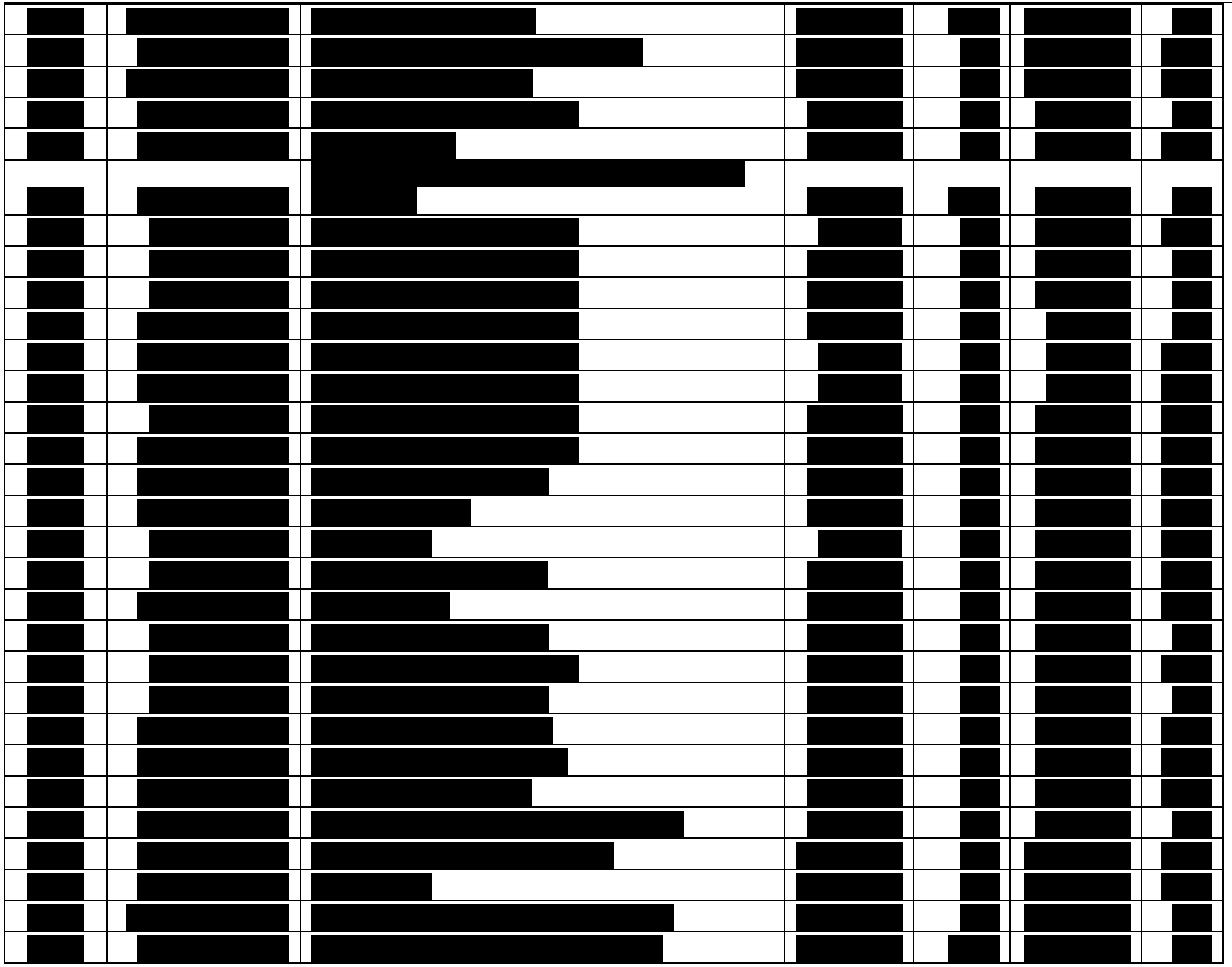
Date Received	Date Responded	Description of Inquiry

10) List of PSPS's in 2019

CalPeco Electric did not have any PSPS events in 2019.

Appendix A: 8 Years of Planned Outage Data





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