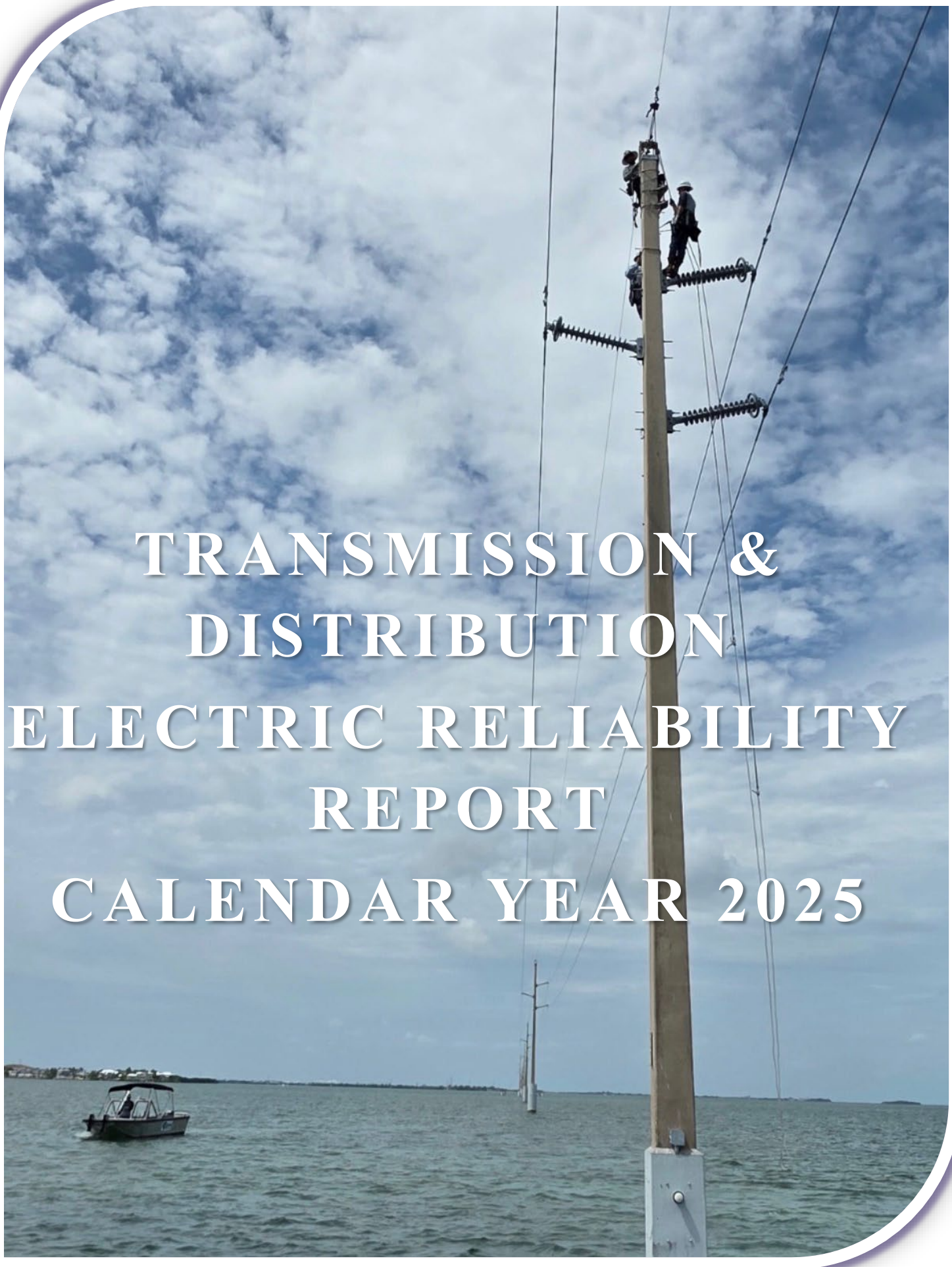


TRANSMISSION & DISTRIBUTION ELECTRIC RELIABILITY REPORT CALENDAR YEAR 2025

Contents

RELIABILITY PROGRAM OVERVIEW

Tracking and measuring the reliability of KEYS' Transmission & Distribution electric system is an important means for KEYS to gauge its performance, evaluate procedures and ensure a high level of service for customers.

KEYS monitors reliability by tracking the number, cause, and location of the outages, as well as the number of customers impacted and length of time.

KEYS uses data to identify potential areas for improvement, such as enhanced tree trimming and vegetation management; call out procedures and response of line crew and updated changes to field equipment/material. The tracked data is also useful for KEYS to determine 1) where funds should be spent and 2) when funds are needed to improve reliability related to the types of outages experienced.

This information is also used to calculate several reliability indices used in the electric utility industry to evaluate reliability performance. These indices help standardize data and allow KEYS to compare its reliability performance to other utilities.

In Florida, Investor Owned Utilities (IOUs) are required to submit an annual Distribution Service Reliability Report to the Florida Public Service Commission (FPSC) as required under Rule 25-6.0455. The PSC uses this information to track service levels and identify any trends or areas in need of attention.

FMPA has been collecting and compiling distribution reliability measurement data from participating municipal electric utitiles since 2003. KEYS along with other participating utilities submit distribution reliability data and receive a group report each month. Participants are able to compare performance with other municipals who participate. The FMPA data enables KEYS to compare and benchmark to other Florida utilities. KEYS collects outage data using our own outage tracking and management systems.

The data includes the following:

- Number of customer minutes interrupted
- Total number of customers served
- Total number of customer interruptions
- Sum of all customer momentary events
- Total minutes of interruption
- Total number of outages
- Cause of outages
- Type of outage- overhead, underground

From this data, the reliability indices are calculated – SAIDI, CAIDI, SAIFI, MAIFI, L- Bar.

RELIABILITY PROGRAM SUMMARY

In an effort to mirror the data from the Florida Investor Owned Utilities (IOUs) as closely as possible, the participating municipal utitiles, including KEYS, report their data using the same definitions and guidelines required by the Public Service Commission. Chapter 25-6.044 FAC includes the definitions used by the IOUs for the collection and submittal of the distribution reliability data.

Program guideline definitions:

Service Interruption (outage): The complete loss of voltage for at least one minute to a retail customer

Service Interruption Duration: The time interval, in minutes, beginning when a utility first becomes aware of a service interruption to a retail customer and ending at the time of restoration of service.

Planned Service Interruption: A service interruption initiated by the utility to perform necessary scheduled activities, such as maintenance, infrastructure improvements, and new construction due to customer growth. Customers are typically notified in advance of the event.

Momentary Interruption: Complete loss of voltage for less than one minute. This does not include short duration phenomena causing waveform distortion.

In addition to the definitions, KEYS and the other participating Florida Municipal Utilities have also adopted the exclusions provided in Chapter 25-6.0455 FAC. As provided in this section, IOU's may exclude from their Annual Distribution Service Reliability Report outage events directly caused by one or more of the following:

- ✓ *Planned interruptions*
- ✓ *A planned load management event*
- ✓ *An electric generation or transmission event*
- ✓ *A storm named by the National Weather Service*
- ✓ *An extreme weather or fire event causing activation of the county Emergency Operations Center*

RELIABILITY INDICES SUMMARY

In 2006 the Florida Public Service Commission (FPSC) revised the rules to require IOUs to submit an "actual" Annual Distribution Service Reliability Report which lists all outages experienced by the utility as well as an "adjusted" report, which excludes certain service interruptions (outages). For example, in 2025, there were three National Weather Center named storms, Tropical Storm Debby, Hurricane Helene and Hurricane Milton that affected KEYS service area that could have resulted in excluded distribution reliability data.

There are several indices used in the electric utility industry to track and monitor distribution reliability. The KEYS Distribution Reliability program includes the **SAIDI**, **CAIDI**, **SAIFI**, **MAIFI, L-Bar** and **ASAI%**. An overview of each of the indices is below:

SAIDI- **S**ystem **A**verage **I**nterruption **D**uration **I**ndex

SAIDI measures the average duration of interruptions for the average customer.

SAIDI is calculated by taking the sum of all customer interruption durations, in minutes, and dividing it by the total number of customers served.

$$\text{SAIDI} = \frac{\text{Sum of all Customer Minutes Interrupted (CMI)}}{\text{Total number of customers served (C)}}$$

The unit of SAIDI is time (minutes). SAIDI can be stated as: "On average for the year customers of the distribution system were out of service for ____ minutes."
For example, if Utility X has a CMI of 10,000 annual minutes and 1,000 customers served (C), then the SIADI for Utility X is 10 minutes per year.

CAIDI- Customer **A**verage **I**nterruption **D**uration Index

CAIDI is the average time required to restore service to the average customer per sustained interruption.

CAIDI is calculated by dividing the sum of all customer minutes interrupted by the total number of customer interruptions.

$$\text{CAIDI} = \frac{\text{Sum of all Customer Minutes Interrupted (CMI)}}{\text{Total number of customer interruptions (CI)}}$$

The unit of CAIDI is time (minutes). CAIDI can be stated as: "The average customer that experiences an outage on the distribution on the distribution system is out for ____ minutes."
For example, if Utility X has a CMI of 10 minutes and a CI of 2, then the CAIDI is 5 minutes.

SAIFI- System **A**verage **I**nterruption **F**requency **I**ndex

SAIFI measures the average frequency of interruptions for the average customer.

SAIFI is calculated by taking the total number of customer interruptions and dividing it by the total number of customers served.

$$\text{SAIFI} = \frac{\text{Total number of customer interruptions (CI)}}{\text{Total number of customers served (C)}}$$

The unit measurement of SAIFI is interruptions. SAIFI can be stated: "On average, customers on the distribution system experienced ____ service interruptions."
For example, if Utility X has an annual CI of 2,000 and 1,000 customers, then the SAIFI for Utility X is 2 interruptions per year for the average customer.

MAIFI- Momentary **A**verage **I**nterruption event **F**requency **I**ndex

MAIFI measures the average frequency of momentary interruptions for the average customer.

MAIFI is calculated by taking the total number of the customer momentary interruption events and dividing it by the number of customers served.

$$\text{MAIFI} = \frac{\text{Total number of customer momentary interruption events (CME)}}{\text{Total number of customers served (C)}}$$

The unit of MAIFI is "momentary interruptions." MAIFI can be stated: "On the average, customers on the distribution system experienced ____ momentary interruptions." For example, if Utility X has an annual CME of 5 and 1,000 customers, then the MAIFI is .005.

For FMPA participants a momentary event is defined as an interruption that lasts less than one minute. All momentary interruptions associated with the same event are considered to be ONE momentary interruption event. For example, events that result in multiple operations of a recloser (multiple momentary events) are considered one momentary event. This is true even if the resulting total time of the events is greater than one minute. MAIFI is like SAIFI, where SIAFI tracks the frequency of sustained interruptions and MAIFI tracks the frequency of momentary interruptions.

L-BAR

L-Bar is the average length of a single service interruption (outage).

L Bar is calculated by taking the sum of the length of each service interruption and dividing by the number of sustained interruptions. Momentary interruptions are not included in the L-Bar calculation.

$$\text{L Bar} = \frac{\text{Minutes of interruption}}{\text{Total number of interruptions greater than one minute}}$$

The unit of L Bar is time (minutes). L Bar can be stated as: "On average, sustained interruptions on the system have a duration of ___ minutes." For example, if Utility X has 1440 minutes of service interruption and 100 interruptions, then their L- Bar is 14.4 minutes.

ASAI- Average Service Availability Index

ASAI measures the percentage of time electric service is available to customers over a given period (1 year).

ASAI is calculated by taking the total number of the customer minutes of service availability divided by the total customer minutes requested.

$$\text{ASAI} = 1 - \frac{\text{SAIDI (minutes)}}{\text{Minutes in 1 year (525,600)}}$$

The unit of ASAI is a percentage." ASAI can be stated: "Customers on the distribution can expect ___% electric service availability." For example, if Utility X has an annual SAIDI of 50 minutes and there are 525,600 minutes in a year, then the ASAI is 99.9905%.

OUTAGE STATISTICS OVERVIEW

WHAT WE TRACK

- Number of customer minutes interrupted
- Total number of customers served
- Total number of customer interruptions
- Sum of all customer momentary events
- Total minutes of interruption
- Total number of outages
- Cause of outages
- Type of outage (overhead/underground)

WHY WE TRACK

- Meet KEYS goals to reduce outage minutes
- Identify and target problem areas/zones
- Identify faulty construction material and trends
- Assist in vegetation management
- Plan for capital improvement
- Identify weather prone areas
- Compare KEYS to other utilities

SYSTEM IMPROVEMENT RELIABILTY PLANS

Reliability Projects for 2025-2026

Transmission System

- 69kv loop insulator replacement
  - Underway
- Steel pole coating
  - Underway
- Line 4 static wire reconductor
  - Proposed
- Transmission breaker replacements
  - Underway
- US1 Auto Transformer 1 procurement and replacement
  - Underway
- Big Coppitt Substation Transformer procurement and replacement
  - Underway

Distribution System

- Replacement of “reject” poles from lower keys inspection
  - Underway
- KDS 9/TSS 5 feeder tie
  - Underway
- Phase 3 inaccessible easement project
  - Proposed
- BPS switchgear replacement
  - Underway
- Automated capacitor banks
  - Underway
- AMI
  - Underway

Recently Completed Reliability Projects

Transmission System

- Replacement of transmission pole 7-159
- Steel pole inspections
- In water transmission foundation cathodic protection
- Line 7 reclosing
- Summerland Airport (Line 6) insulator replacements

Distribution System

- Storm hardened poles to critical government facilities
- KDS 9/10 separation
- Lattice structure repair and coatings

KEYS INDICES ANALYSIS

SAIDI & MAIFI STATISTICAL OVERVIEW

DISTRIBUTION INDICES COMPARISON

	STATISTICAL DATA		% CHANGE	FL Muni		FPL		Duke		KEYS Goals
	2024	2025	2023-2024	2025		2025		2025		2025
QUANTITY	30	39	30%							
SAIDI	43.9	47.79	9%	53.9	-26%	42.5	1%	64.4	-9%	below 60
MAIFI	2.13	1.92	-11%	2	10%	2.0	0%	0.8	-25%	

Red= increase Blue= decrease (improvement)

KEYS TRANSMISSION SAIDI COMPARISON

	STATISTICAL	DATA	% CHANGE
	2024	2025	2023-2024
QUANTITY	7	4	-75%
SAIDI	24.2	95.7	296%

KEYS ASAI %

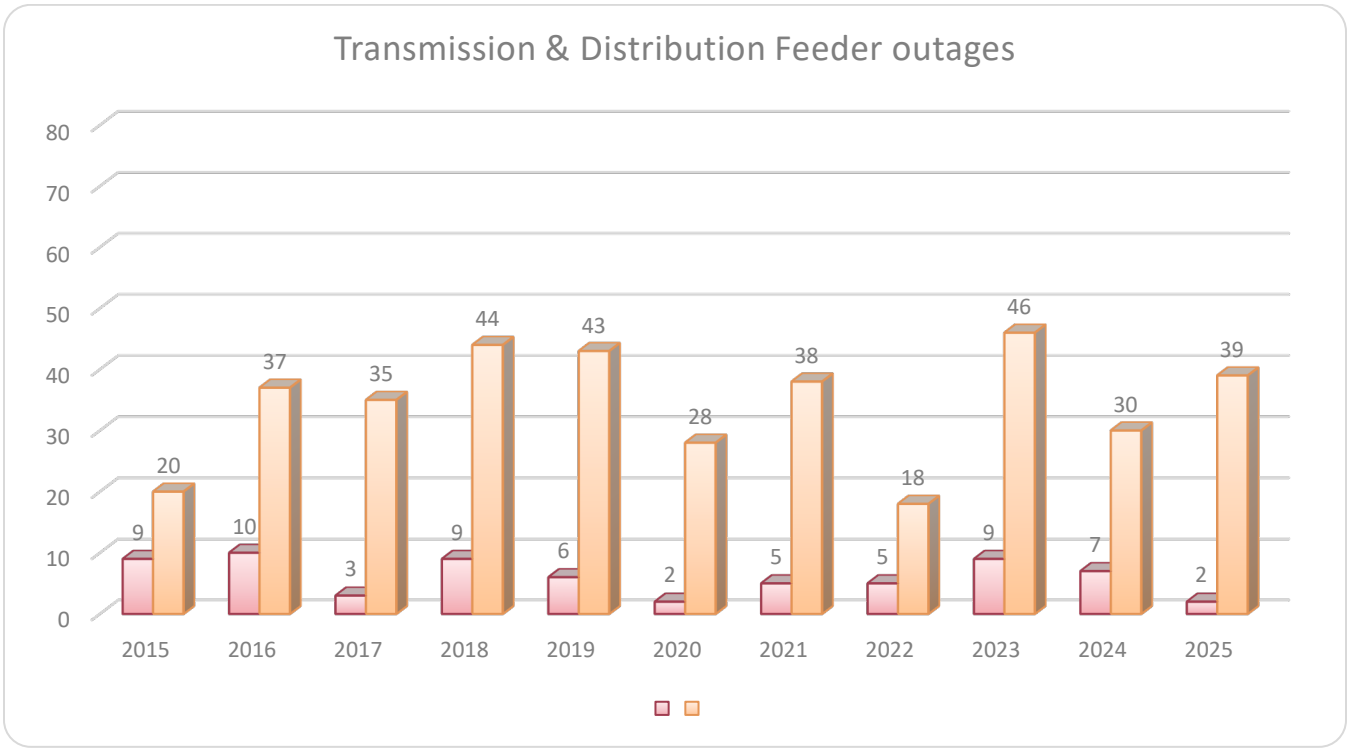
	Percentage
ASAI	**99.9908%**

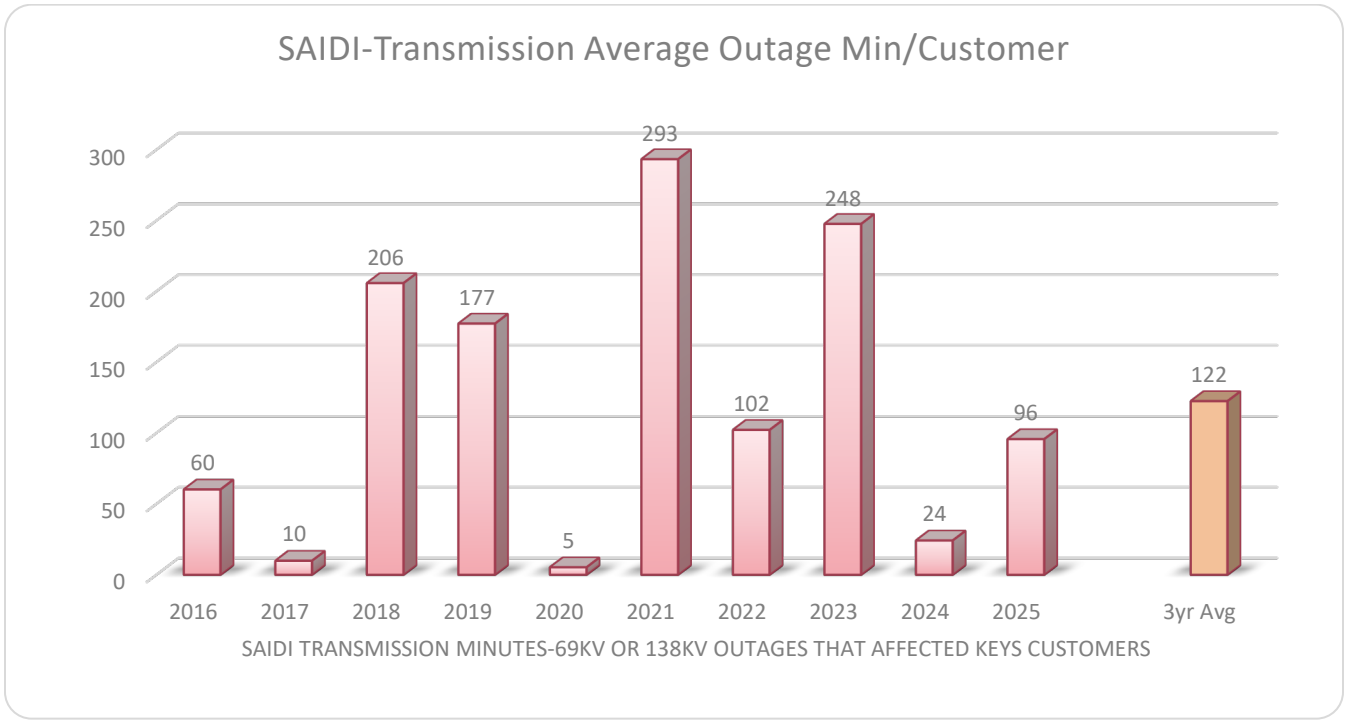
KEYS INDICES BY DISTRICT

		CITY	KEYS	AREAS COMBINED
SAIDI		20.79	27	47.79
MAIFI		1.09	.825	1.92
OUTAGE RESPONSE TIME	BUSINESS HOURS	20.8	37	AVG: 28.9
	AFTER HOURS	37	50.2	AVG: 62.1

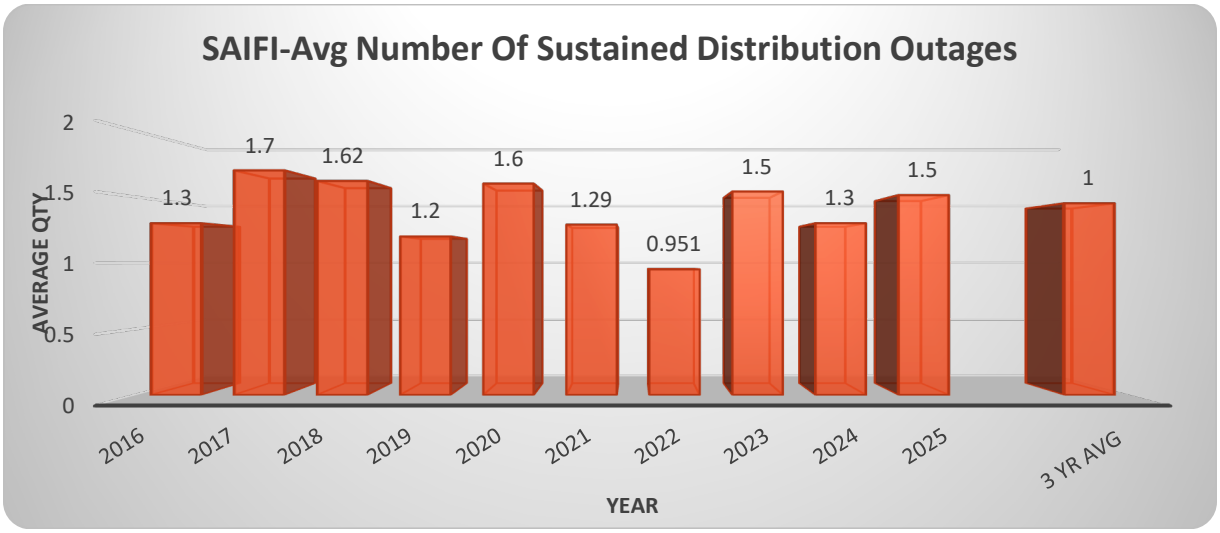
- ✓ Response time- time begins when crew is assigned to outage to when crew arrives on site.
- ✓ Districts
  Keys- Refers to all outages from Stock Island to Sunshine Key – approx. 15,200 customers (47.9%)
  City- Refers to all outages within the city limits of Key West – approx. 16,568 customer (52.2%)

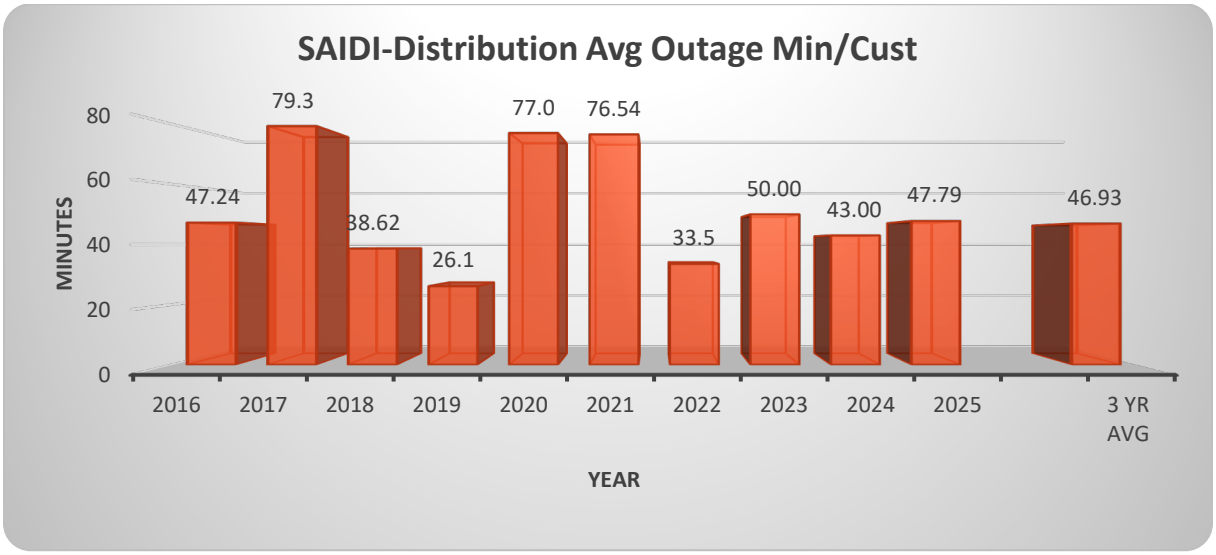
TRANSMISSION OUTAGE SAIDI STATISTIC

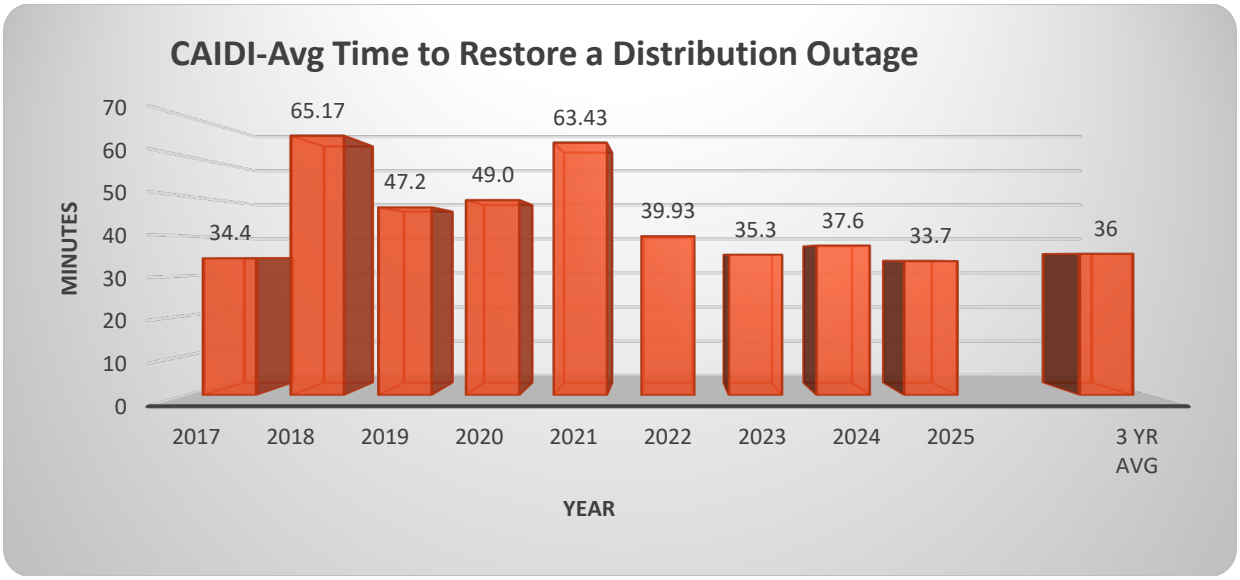


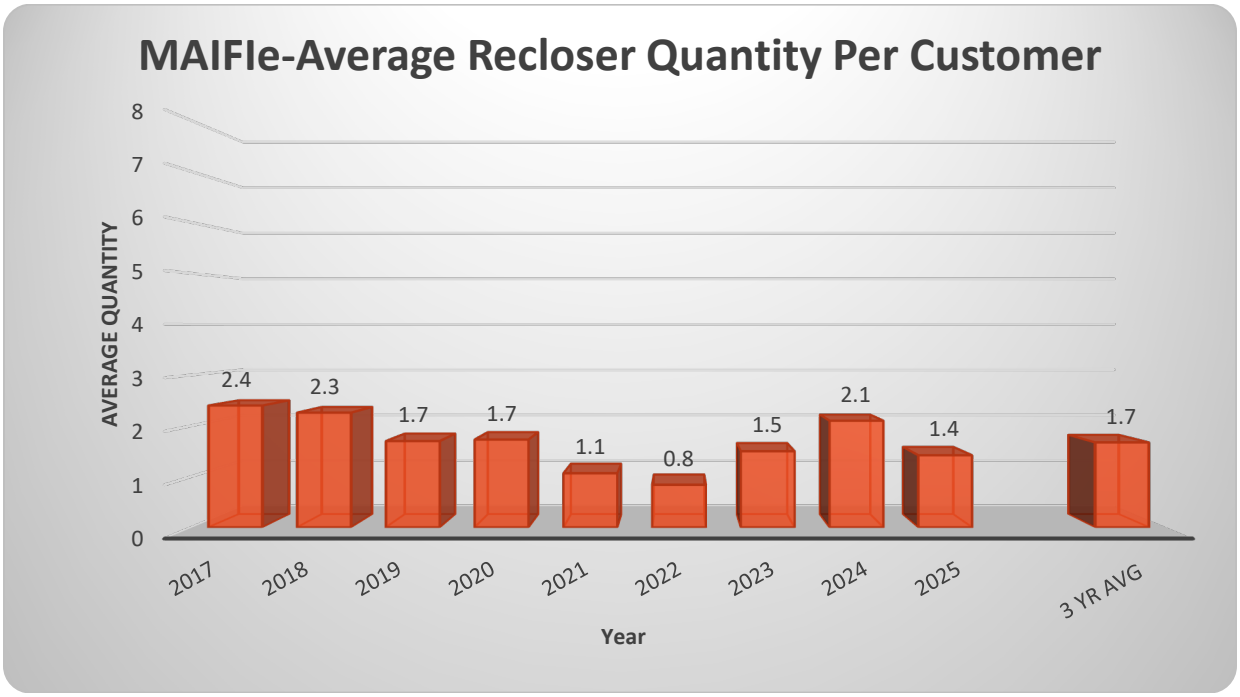


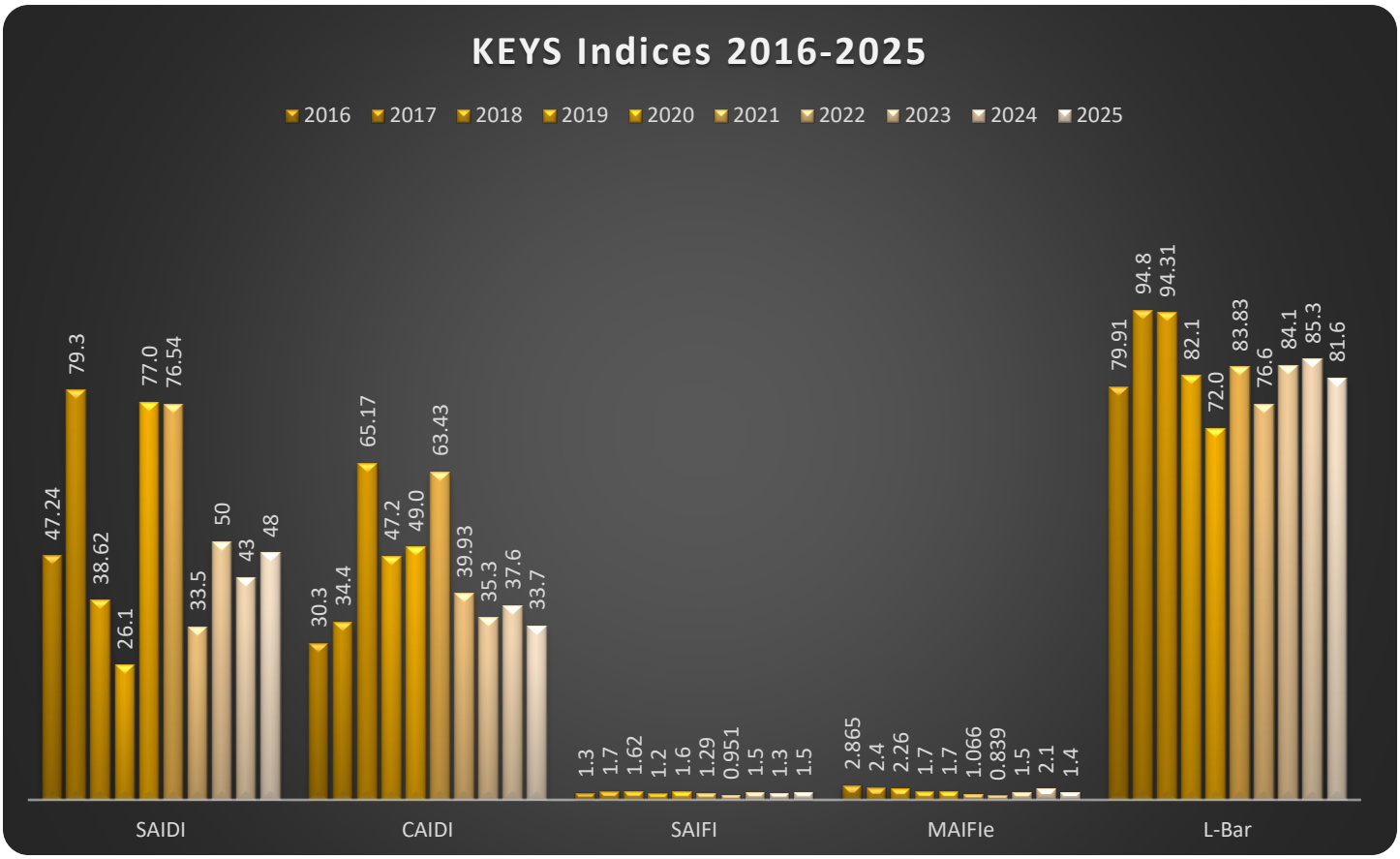
DISTRIBUTION OUTAGE INDICES





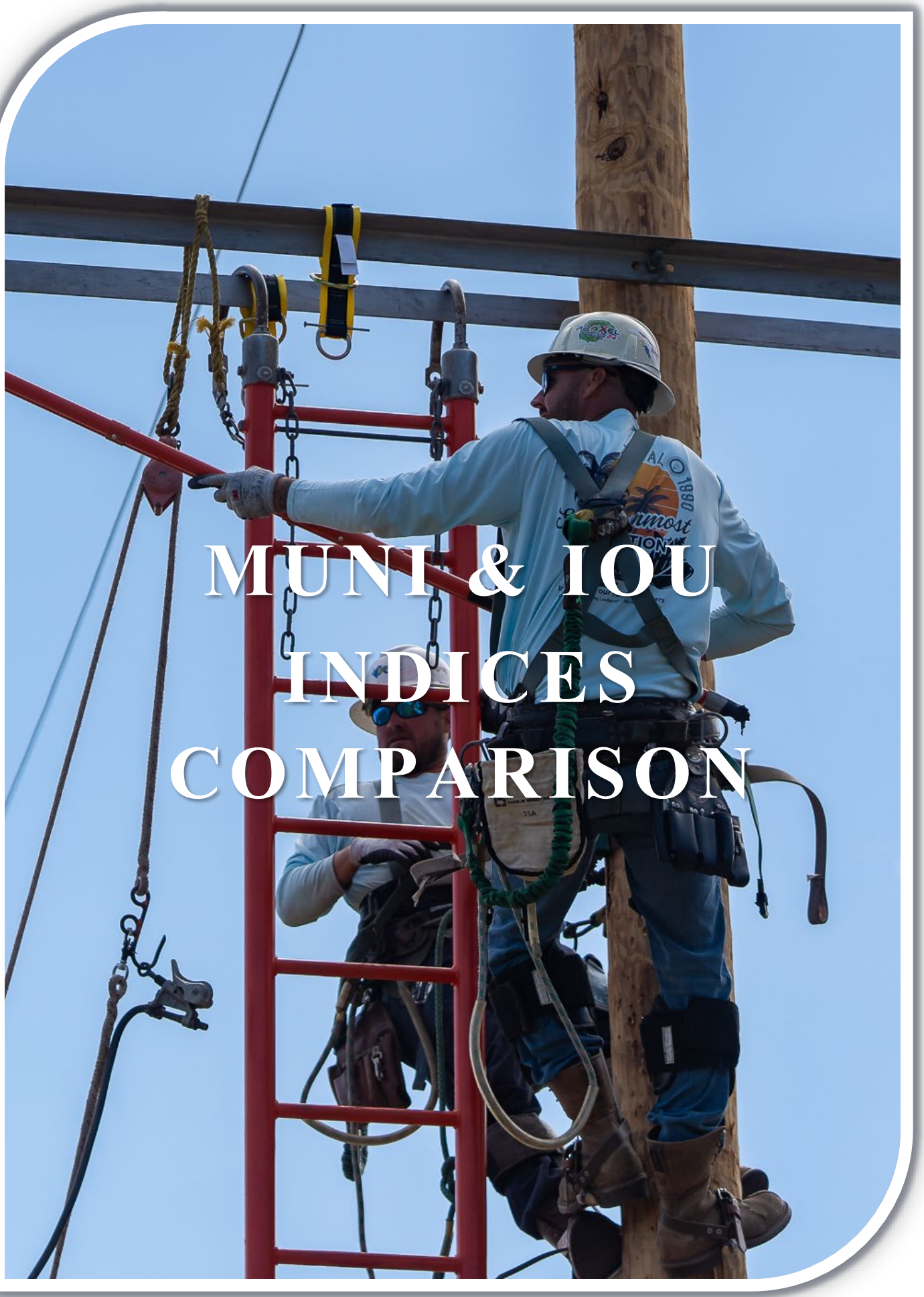



MAIFIe-Average Recloser Quantity Per Customer
AVERAGE QUANTITY
8
7
6
5
4
3
2
1
0
2.4
2.3
1.7
1.7
1.1
0.8
1.5
2.1
1.4
1.7
2017
2018
2019
2020
2021
2022
2023
2024
2025
3 YR AVG
Year


KEYS Indices 2016-2025
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
47.24
79.3
38.62
26.1
77.0
76.54
33.5
50
43
48
30.3
34.4
65.17
47.2
49.0
63.43
39.93
35.3
37.6
33.7
1.3
1.7
1.62
1.2
1.6
1.29
0.951
1.5
1.3
1.5
2.865
2.4
2.26
1.7
1.7
1.066
0.839
1.5
2.1
1.4
79.91
94.8
94.31
82.1
72.0
83.83
76.6
84.1
85.3
81.6
SAIDI
CAIDI
SAIFI
MAIFIe
L-Bar

DISTRIBUTION FEEDER INDICES

SUB	SAIDI	CAIDI	SAIFI	MAIFIe	L-BAR
BPS 2	1.66	19.71	0.08	0.06	84.3
BPS 3	5.21	39.56	0.13	0.12	80.2
BPS 4	0.55	24.07	0.02	0.06	87.6
BPS 5					
CKS 2	0.10	87.37	0.00	0.00	87.0
CKS 3	5.13	56.75	0.09	0.12	89.3
CKS 4	2.81	109.35	0.03	0.15	85.7
BCS 2	0.25	73.01	0.00	0.03	70.2
BCS 3	0.63	22.04	0.03	0.02	56.8
BCS 4	8.18	52.94	0.15	0.10	81.3
BCS 5	0.75	101.15	0.01	0.07	89.4
US1 2	0.00	0.00	0.00	0.01	0.0
US1 3	0.00	0.00	0.00	0.00	0.0
US1 5	0.13	5.00	0.03	0.05	5.0
US1 6	0.99	47.53	0.02	0.02	55.7
SSS 2	0.19	362.18	0.00	0.00	213.5
SSS 3	0.31	0.00	0.01	0.00	0.0
SSS 4	0.01	40.00	0.00	0.00	40.5
KDS 2	0.58	36.22	0.02	0.01	40.3
KDS 4	0.79	23.19	0.03	0.05	104.5
KDS 5	4.86	35.81	0.14	0.13	100.3
KDS 8	1.27	55.54	0.02	0.03	71.2
KDS 9	2.58	40.41	0.06	0.07	50.0
KDS 10	0.12	54.91	0.00	0.02	54.0
WSS 2	0.48	136.68	0.00	0.06	153.4
WSS 3	0.00	0.71	0.00	0.00	0.00
WSS 4	0.19	5.35	0.04	0.02	75.5
WSS 5	2.30	47.86	0.05	0.02	132.8
WSS 7	0.06	101.37	0.00	0.07	108.0
KWD 2	0.36	3.51	0.10	0.05	57.0
KWD 3	0.27	8.49	0.03	0.05	26.3
KWD 4	0.07	3.04	0.02	0.02	17.0
KWD 5	0.00	0.00	0.00	0.00	0.0
TSS 2	0.43	14.28	0.03	0.00	86.0
TSS 3	2.54	13.22	0.19	0.21	60.8
TSS 4	0.67	7.29	0.09	0.09	68.0
TSS 5	3.81	22.22	0.17	0.09	89.1
Total	48.29	30.00	1.61	1.80	80.0



MUNI & IOU INDICES COMPARISON

KEYS 2025 DISTRIBUTION RELIABILTY SUMMARY

This section provides data collected for the 2025 calendar year and includes comparisons between Florida Municipal Utilities (2025), and the Florida IOUs (2025).

In order to make a valid comparison, the data from the Florida Municipal was calculated as if participants were a part of one utility. For example, the data for the number of customers, customer minutes interrupted, total outages, etc. and the indices calculated from this data are based on the sum of all the participating Florida Municipal (vs. averaging). This allows for a more appropriate comparison to the FL IOU data.

When possible, we have tried to make valid comparisons and identify possible conclusions for the results. However, due to the nature of some of this data, there are many instances where no definite conclusion can be drawn from the data.

The data has been divided into the following groups:

KEYS 2025 Distribution Reliability Indices:

- Comparison of the Florida Municipals to the Investor Owned Utilities and Regional Utilities
- Minimum and maximum data points for each index for the Florida Municipals

Comparison of Historical Data Reliability Indices (KEYS 2025):

- Comparison of Florida Municipals, Investor Owned Utilities and SE Regional Utilities

Cause of Outages:

- Comparison of the Florida Municipals to the Investor Owned Utilities by total number of outages and by percentage
- Florida Municipals cause of outages by month
- Comparison of Florida Municipals cause of outages by percentage (KEYS 2025)
- Florida Municipals- cause of outages – overhead vs. underground

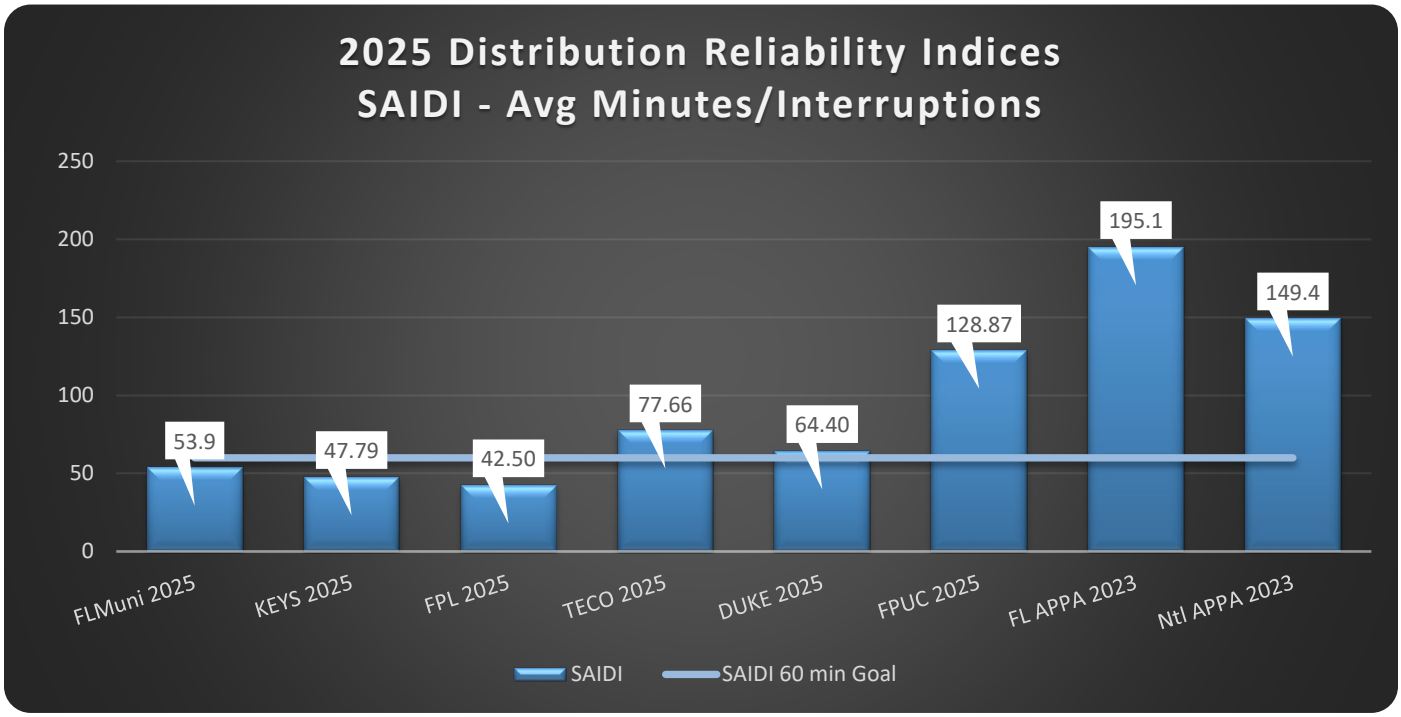
FLORIDA MUNI'S VS. INVESTOR OWNED

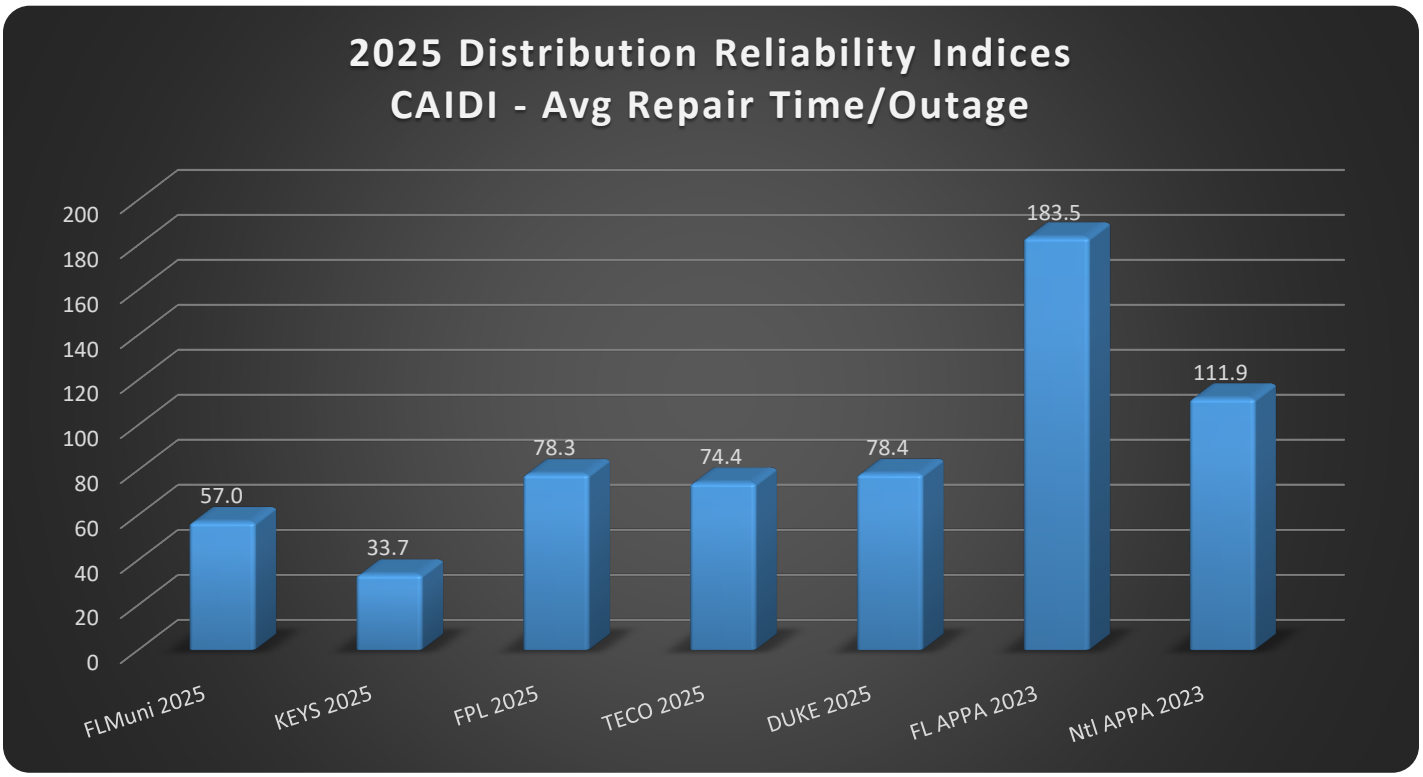
2025 DISTRIBUTION RELIABILITY INDICES

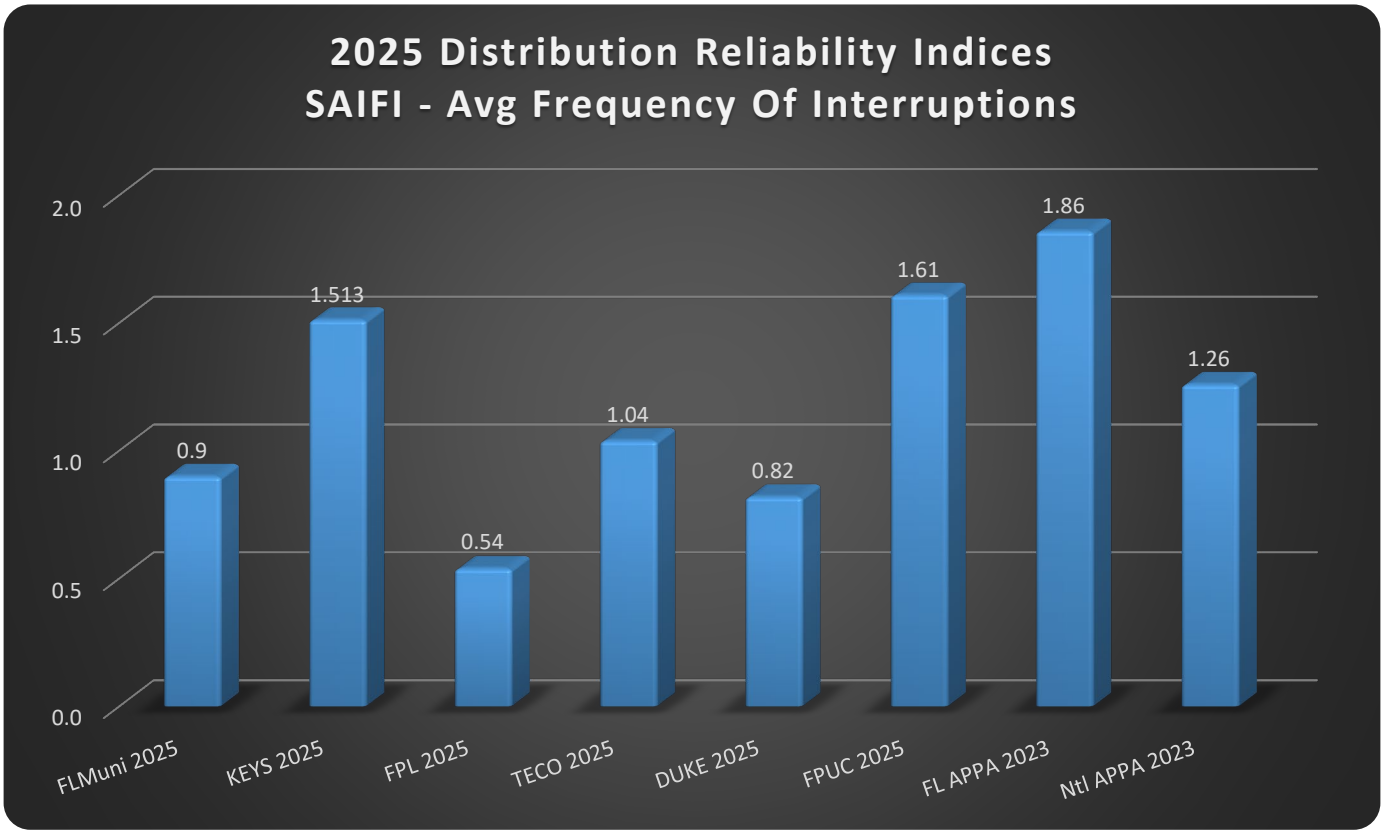
	Fl Muni 2025	KEYS 2025	FPL 2025	TECO 2025	DUKE 2025	FPUC 2025	FL APPA 2023	Ntnl APPA 2023
SAIDI	53.9	47.79	42.5	77.66	64.40	128.87	195.10	149.41
CAIDI	57	33.67	78.3	74.43	78.40	79.90	183.50	111.92
SAIFI	0.9	1.513	.54	1.04	.82	1.61	1.86	1.26
MAIFI	2	1.92	2	5.09	.80	N/A	N/A	N/A
L- BAR	108	81.41	219	136.54	154.90	107.95	N/A	N/A

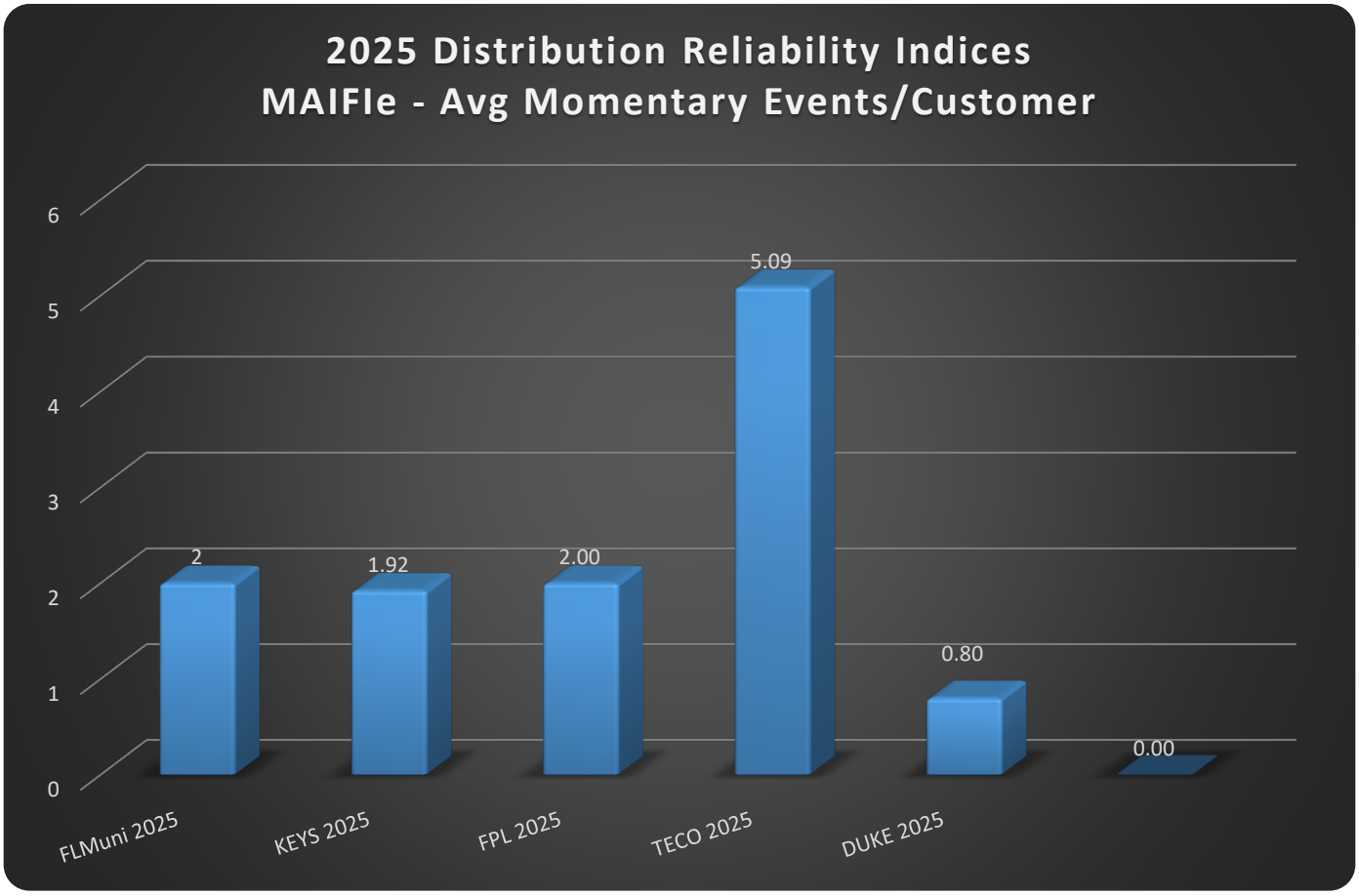
Best performance is shown in blue and the second best is shown in orange.
**Averages do not include MEDs (Major Event Days)*
*** **SAIDI goal is less than 60min avg***

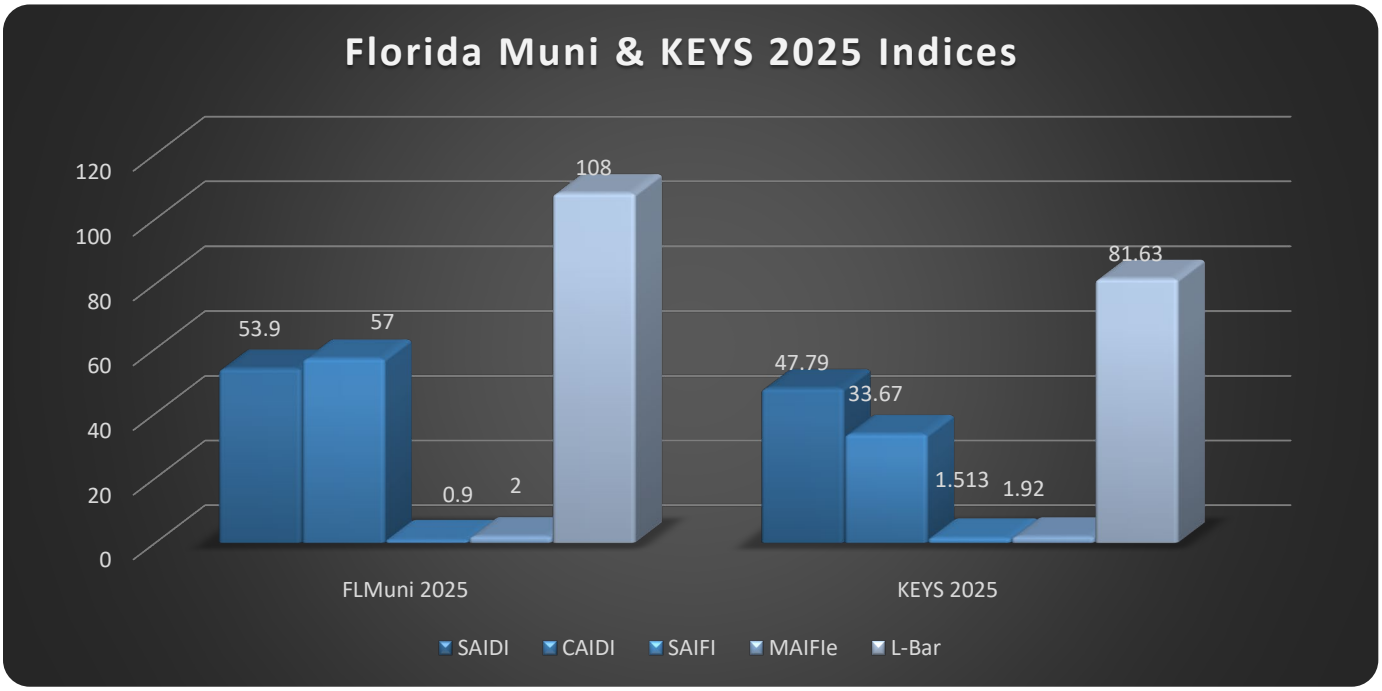
INDUSTRY INDICES COMPARISON

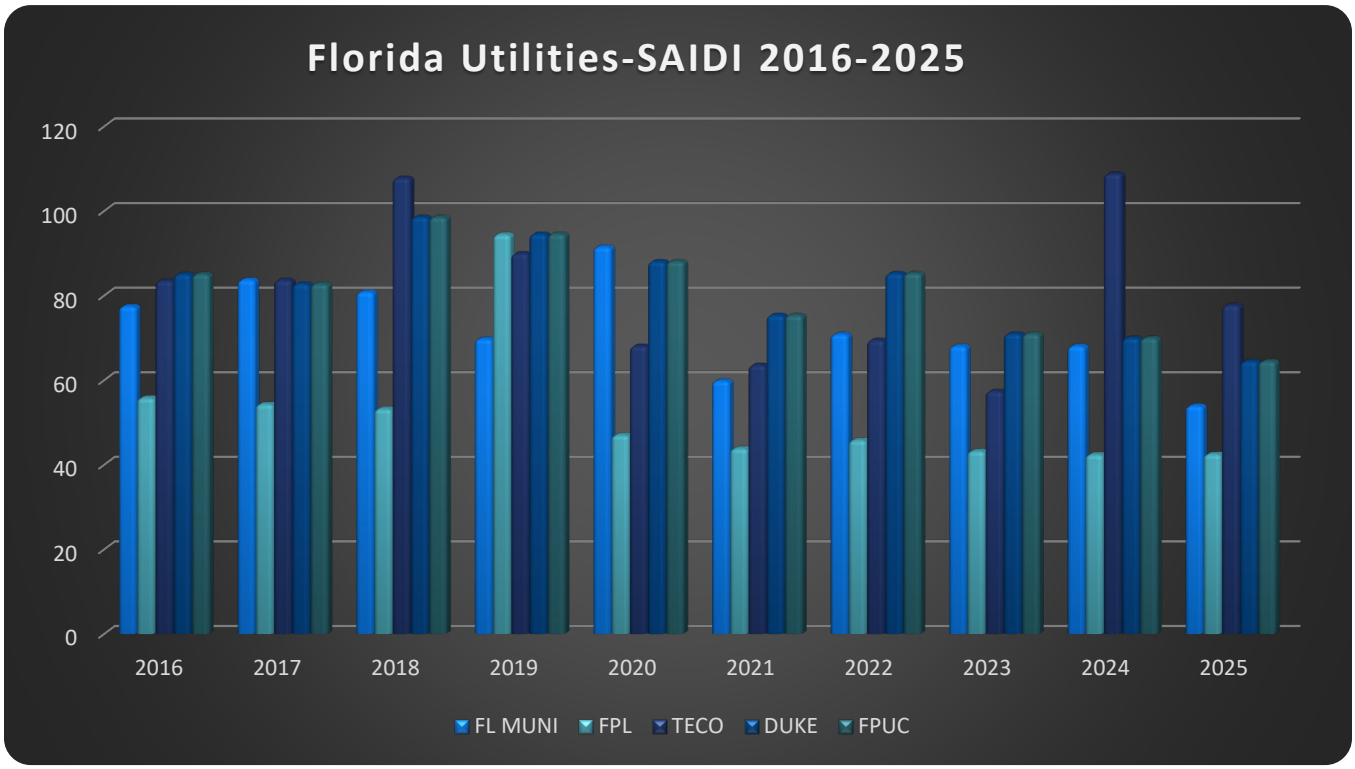


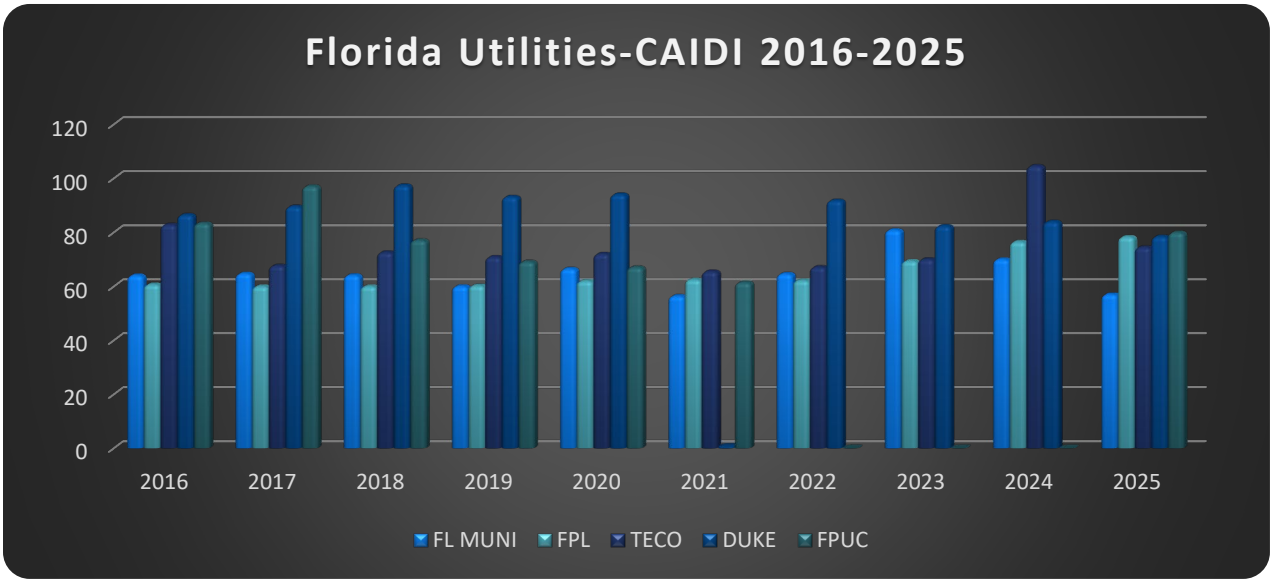


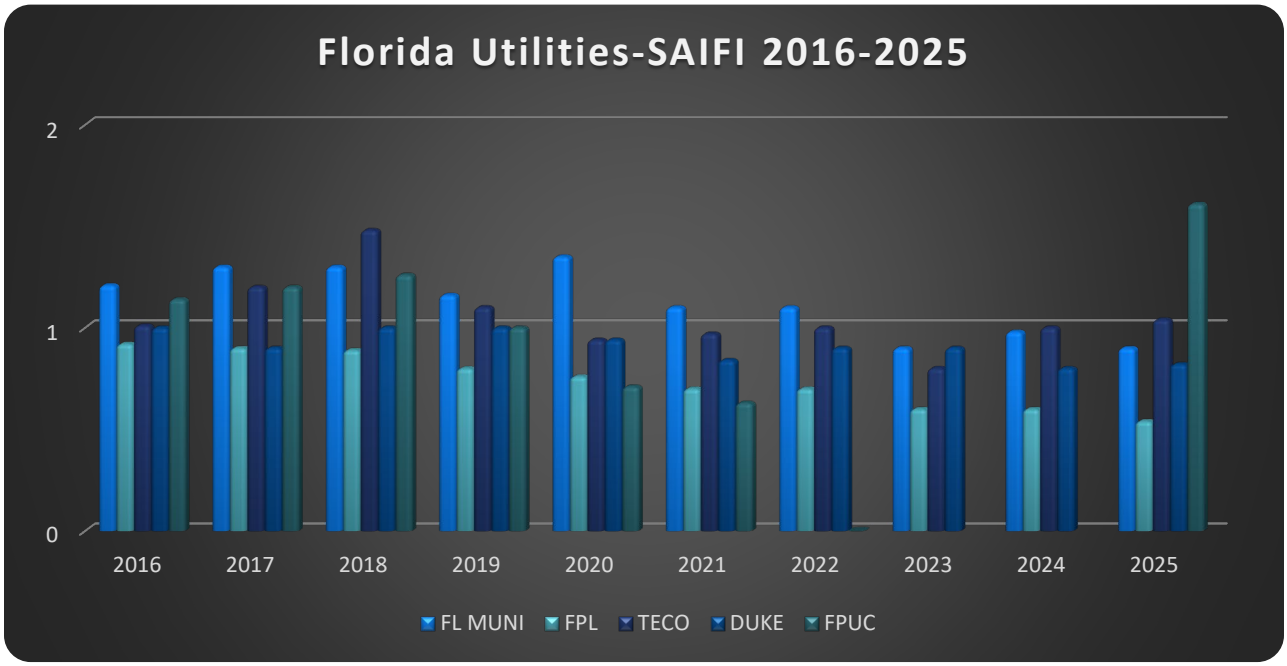

2025 Distribution Reliability Indices
SAIFI - Avg Frequency Of Interruptions
2.0
1.5
1.0
0.5
0.0
0.9
1.513
0.54
1.04
0.82
1.61
1.86
1.26
FLMuni 2025
KEYS 2025
FPL 2025
TECO 2025
DUKE 2025
FPUC 2025
FL APPA 2023
Ntl APPA 2023

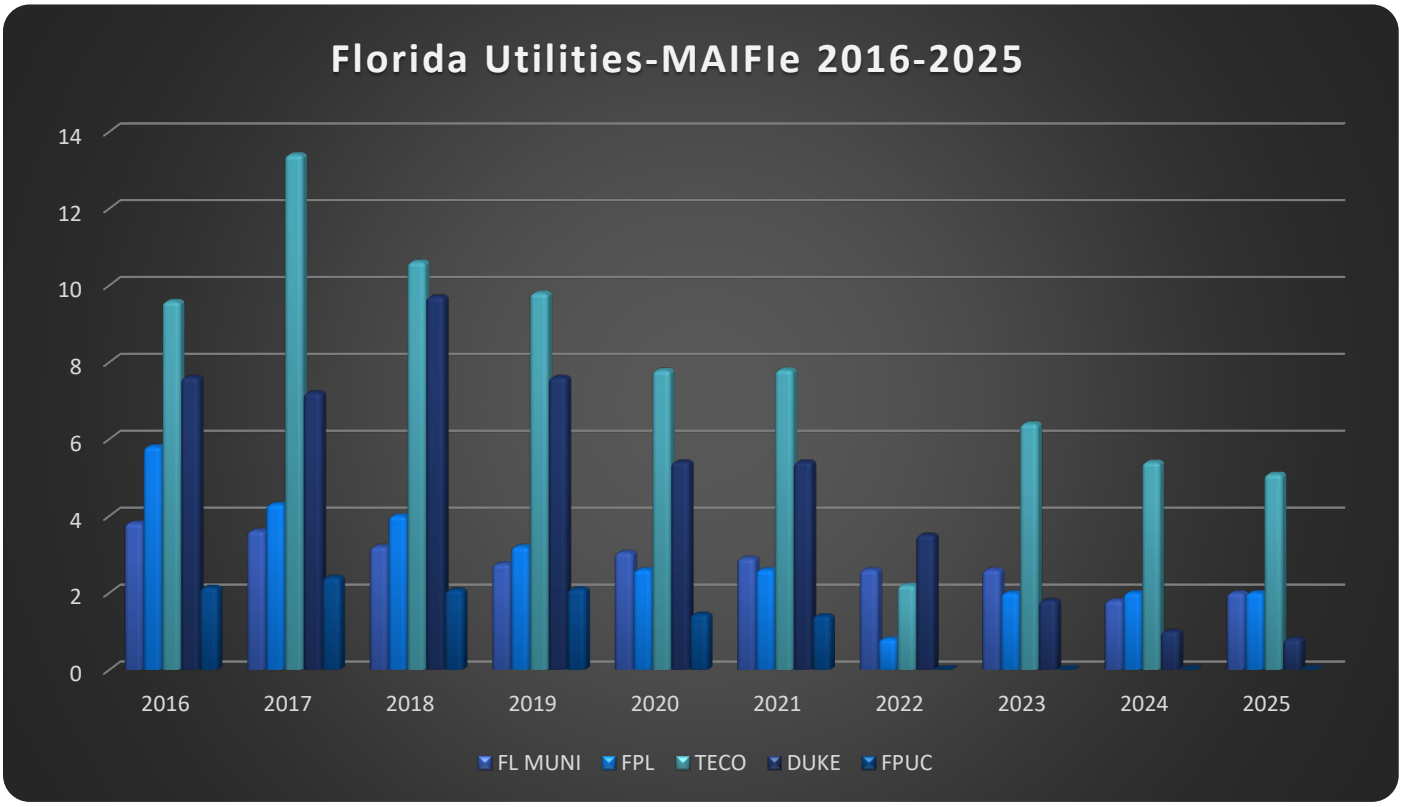

2025 Distribution Reliability Indices
MAIFIe - Avg Momentary Events/Customer
6
5
4
3
2
1
0
2
1.92
2.00
5.09
0.80
0.00
FLMuni 2025
KEYS 2025
FPL 2025
TECO 2025
DUKE 2025

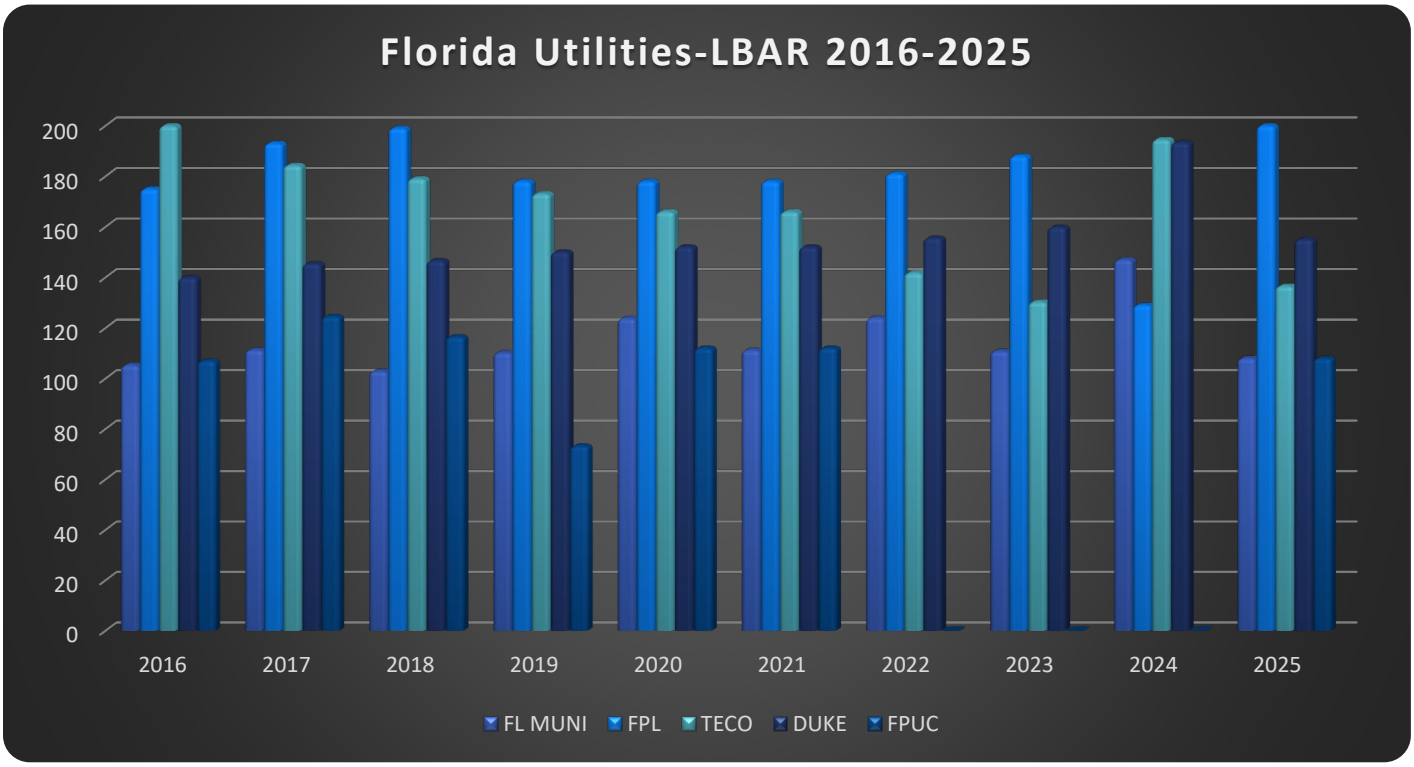

Florida Muni & KEYS 2025 Indices
120
100
80
60
40
20
0
53.9
57
0.9
2
108
47.79
33.67
1.513
1.92
81.63
FLMuni 2025
KEYS 2025
SAIDI
CAIDI
SAIFI
MAIFIe
L-Bar


Florida Utilities-SAIDI 2016-2025
120
100
80
60
40
20
0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
FL MUNI
FPL
TECO
DUKE
FPUC


Florida Utilities-CAIDI 2016-2025
120
100
80
60
40
20
0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
FL MUNI
FPL
TECO
DUKE
FPUC

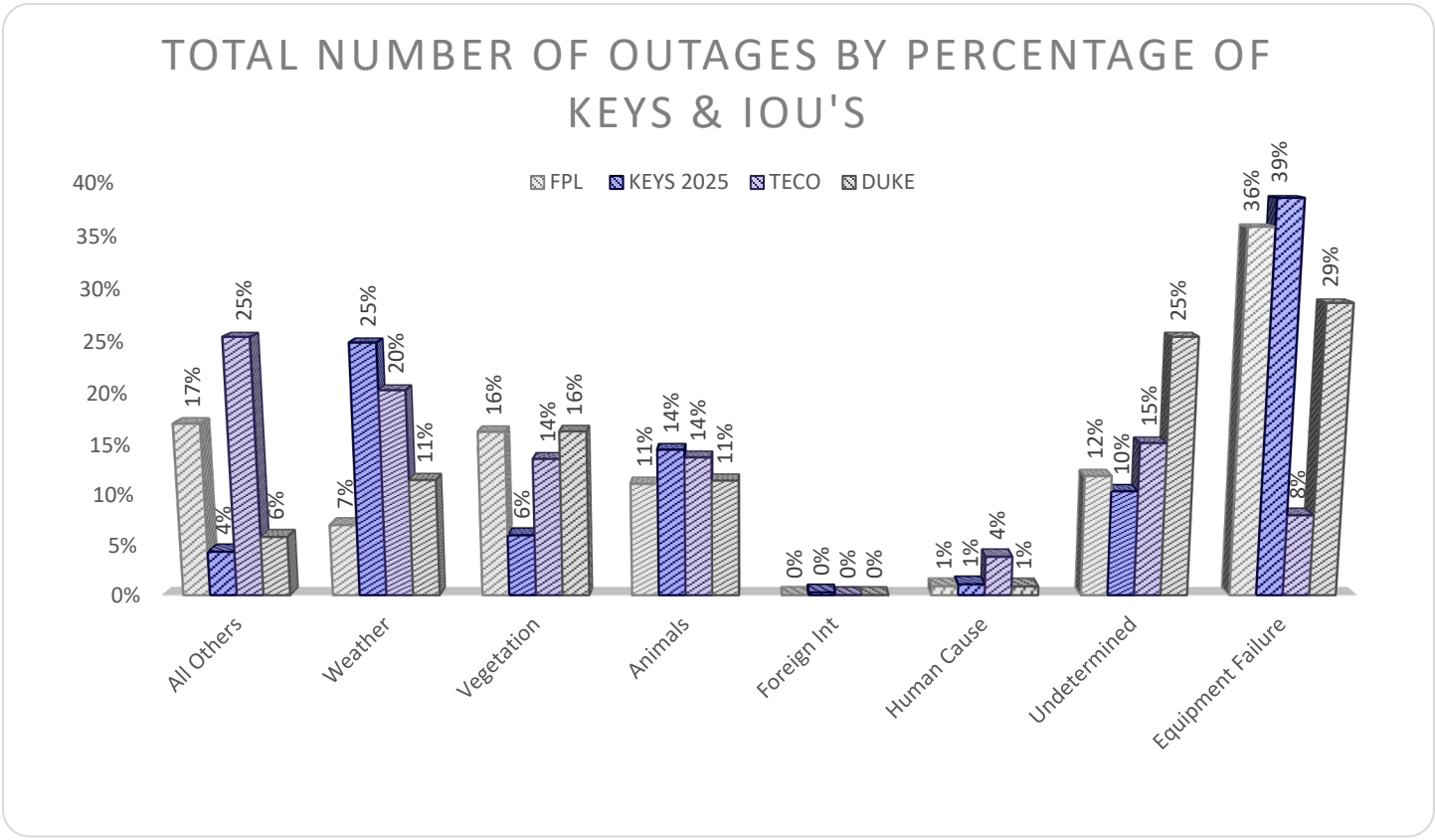

Florida Utilities-SAIFI 2016-2025
2
1
0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
FL MUNI
FPL
TECO
DUKE
FPUC

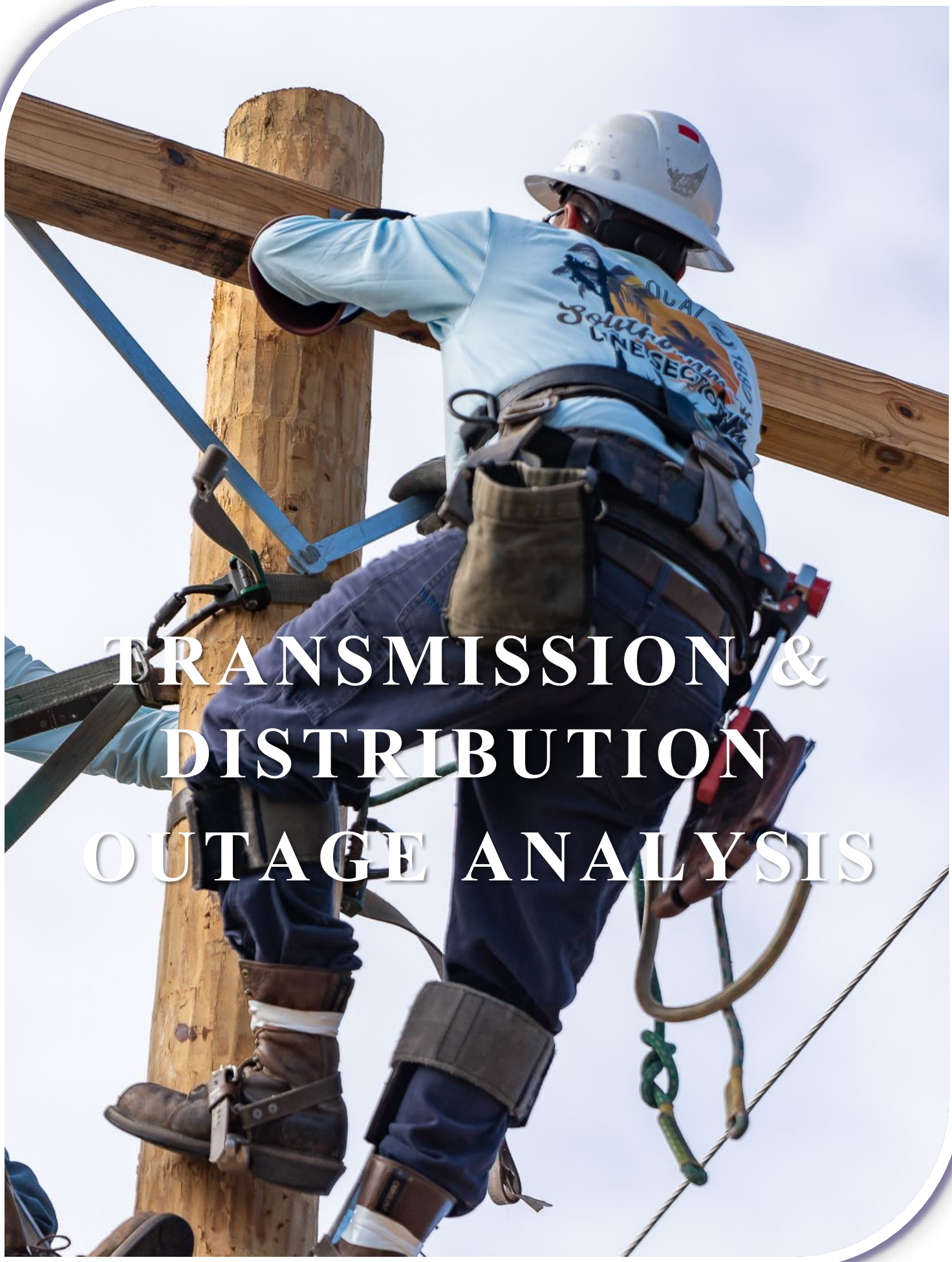

Florida Utilities-MAIFIe 2016-2025
14
12
10
8
6
4
2
0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
FL MUNI
FPL
TECO
DUKE
FPUC


Florida Utilities-LBAR 2016-2025
200
180
160
140
120
100
80
60
40
20
0
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
FL MUNI
FPL
TECO
DUKE
FPUC

TOTAL NUMBER OF OUTAGES BY PERCENTAGE OF FLORIDA UTILITIES

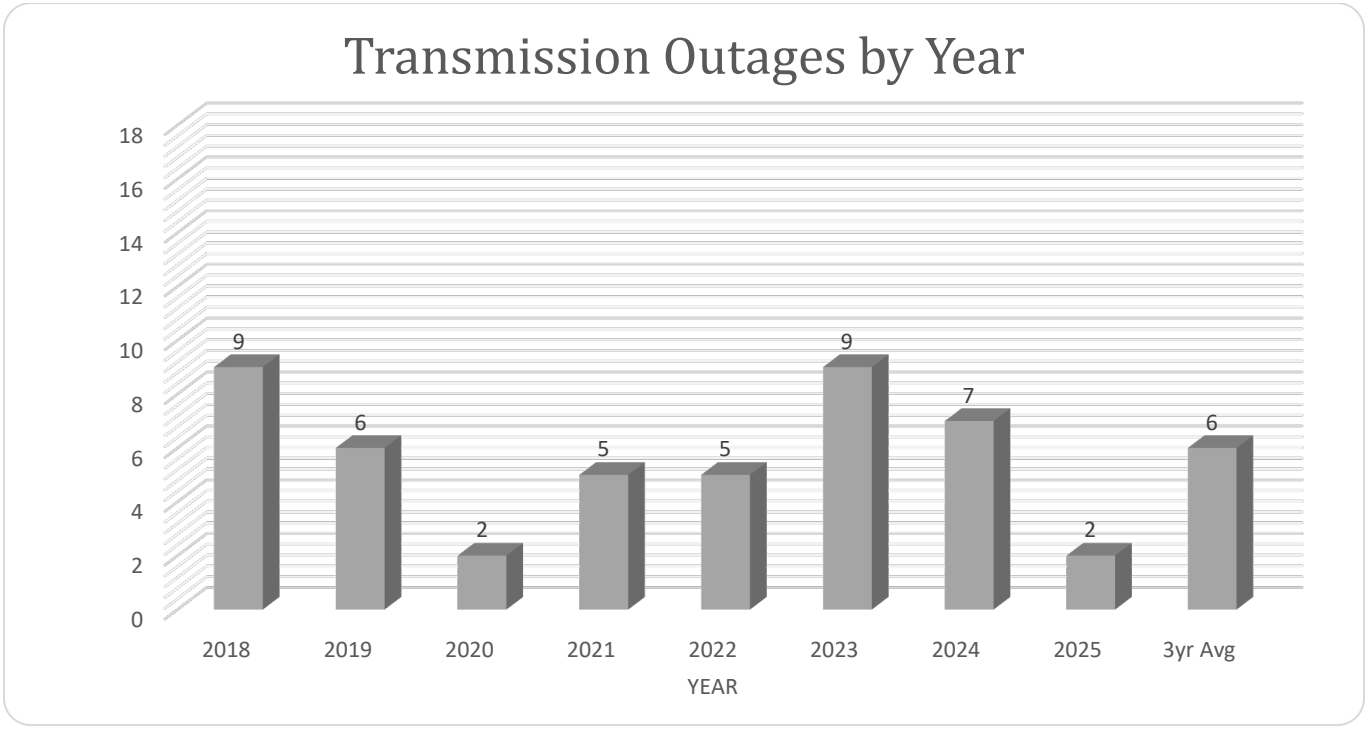
CAUSE OF OUTAGE	FPL	TECO	DUKE	FPUC	KEYS 2025
WEATHER	7%	20%	11%	7%	25%
VEGETATION	16%	14%	16%	13%	6%
ANIMALS	11%	14%	11%	20%	14%
FOREIGN	0%	0%	0%	0%	0%
HUMAN CAUSE	1%	4%	1%	2%	1%
UNDETERMINED	12%	15%	25%	35%	10%
EQUIPMENT FAILURE	36%	8%	29%	19%	39%
ALL OTHERS	17%	25%	6%	4%	4%

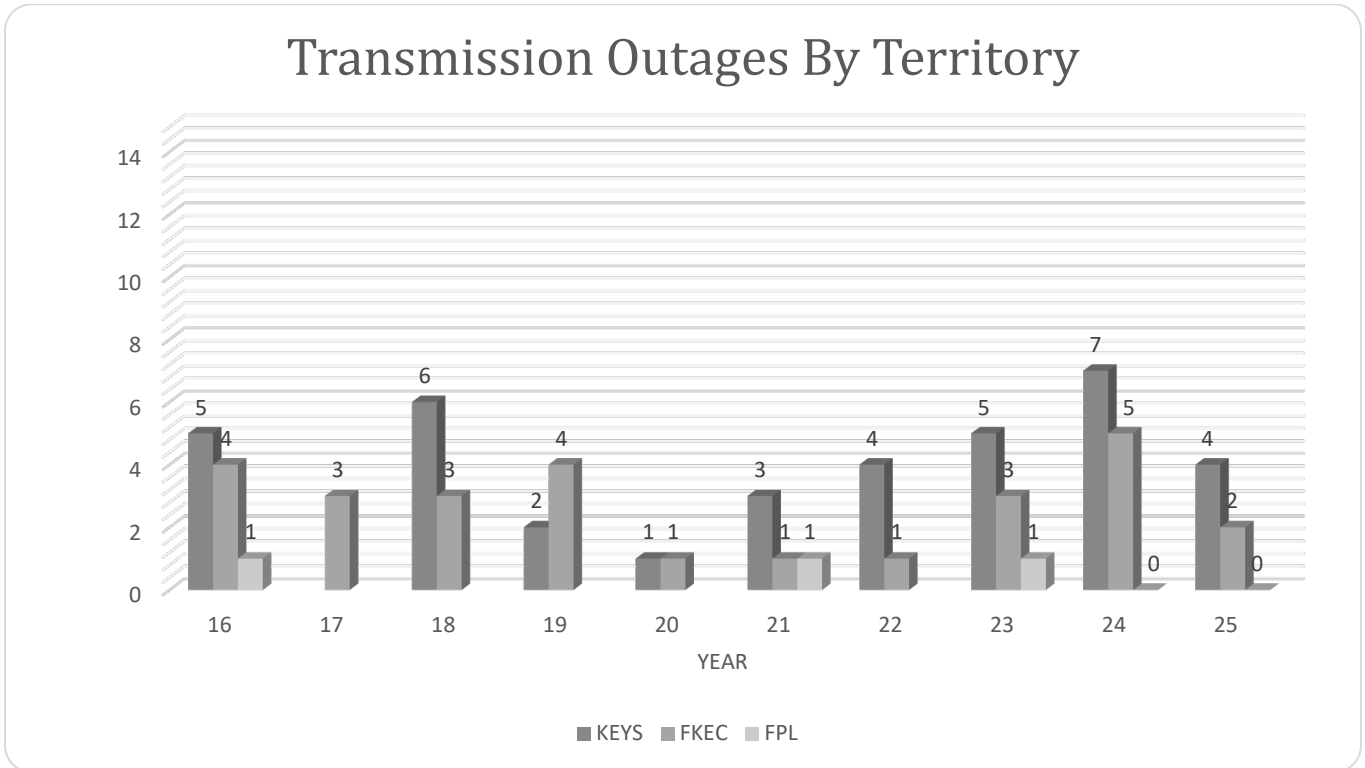


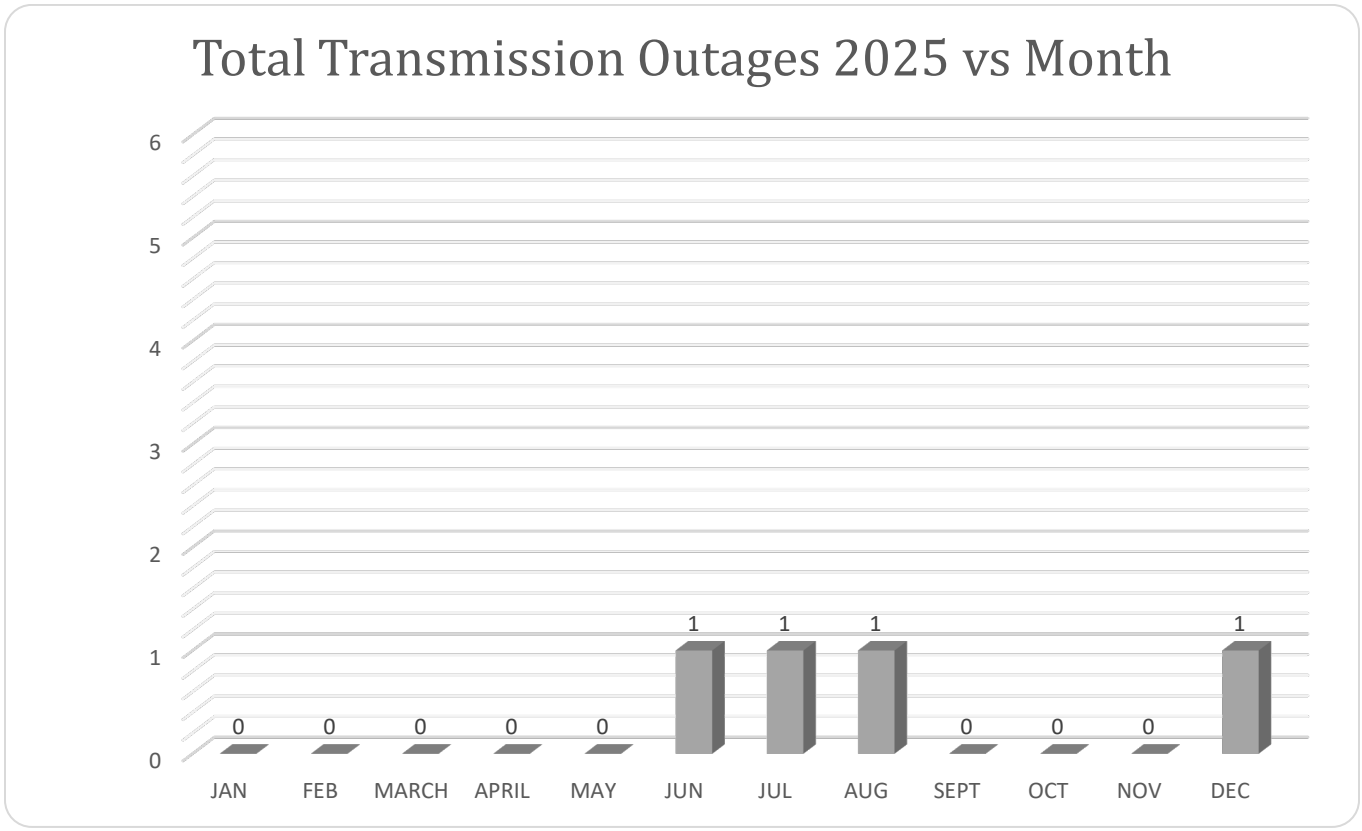


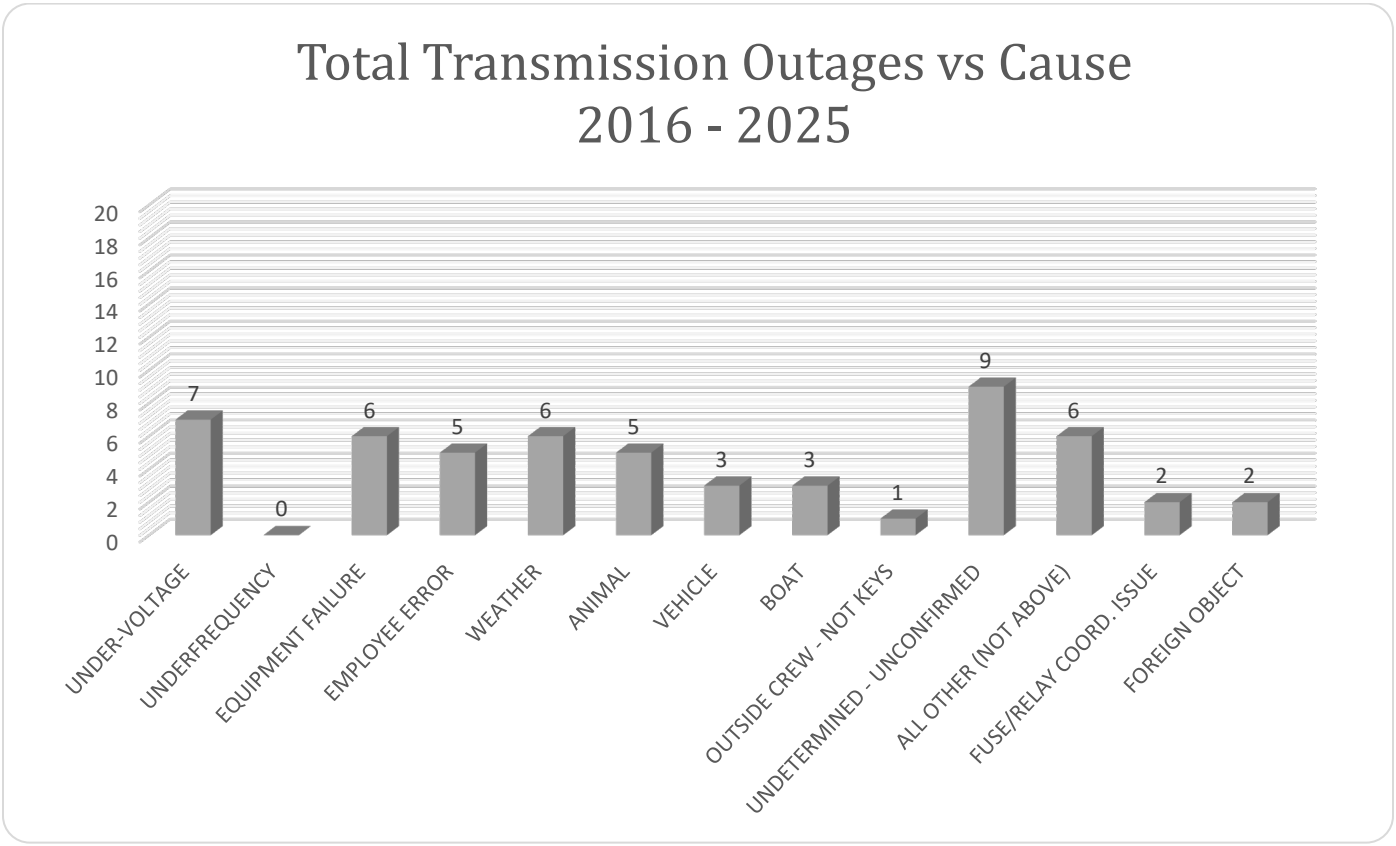
TRANSMISSION & DISTRIBUTION OUTAGE ANALYSIS

TRANSMISSION OUTAGES






Total Transmission Outages 2025 vs Month
6
5
4
3
2
1
0
0
0
0
0
0
1
1
1
0
0
0
1
JAN
FEB
MARCH
APRIL
MAY
JUN
JUL
AUG
SEPT
OCT
NOV
DEC


Total Transmission Outages vs Cause
2016 - 2025
20
18
16
14
12
10
8
6
4
2
0
7
0
6
5
6
5
3
3
1
9
6
2
2
UNDER-VOLTAGE
UNDERFREQUENCY
EQUIPMENT FAILURE
EMPLOYEE ERROR
WEATHER
ANIMAL
VEHICLE
BOAT
OUTSIDE CREW - NOT KEYS
UNDETERMINED - UNCONFIRMED
ALL OTHER (NOT ABOVE)
FUSE/RELAY COORD. ISSUE
FOREIGN OBJECT

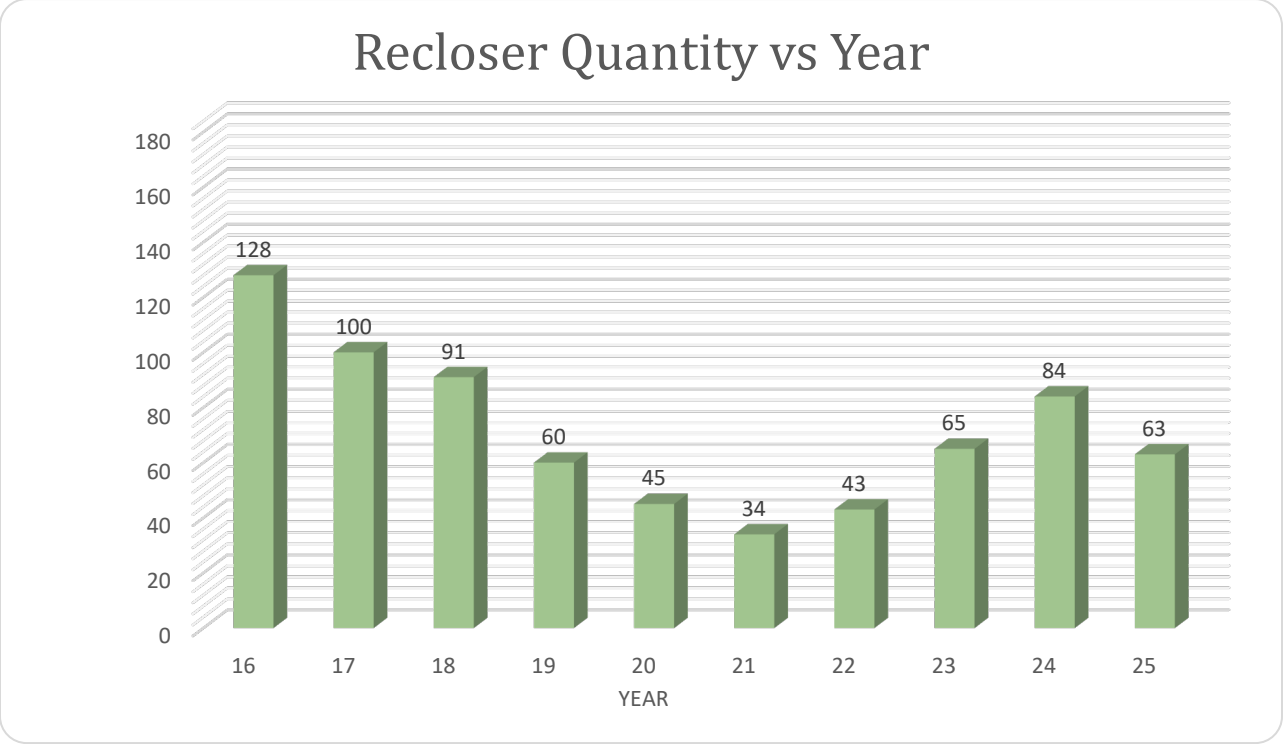
2025 TRANSMISSION OUTAGE DETAIL

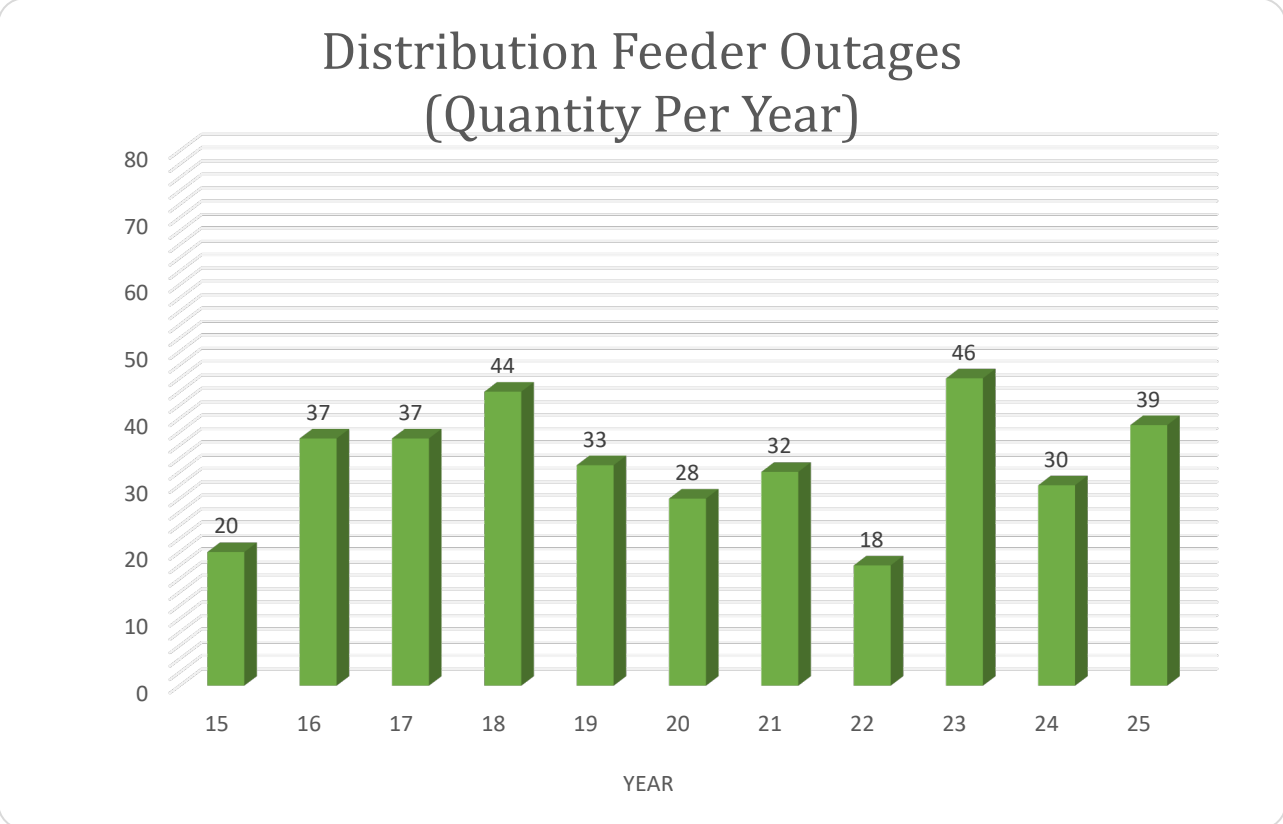
OUTAGES AFFECTING CUSTOMERS

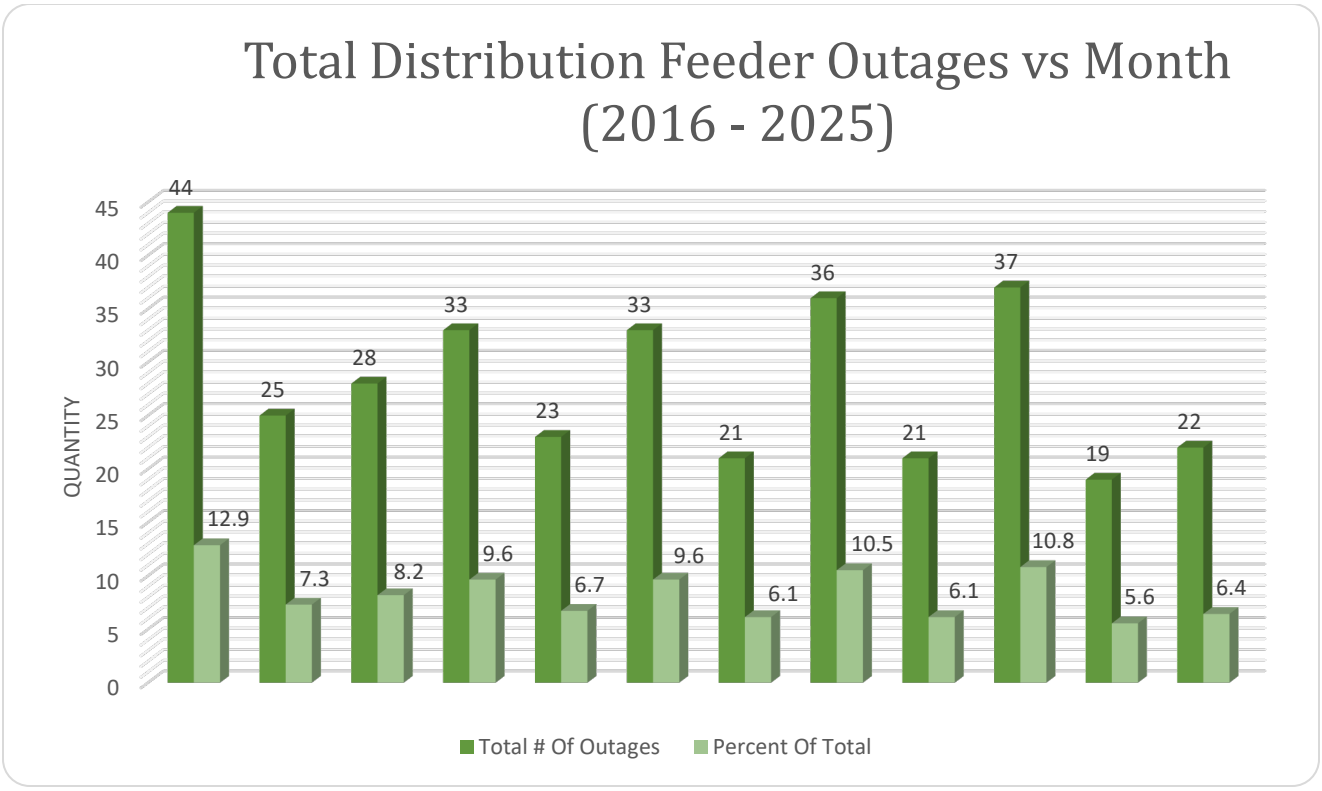
KEYS Area	Time	Duration Minutes	Location	KEYS Cust Affected	Cause	Explanation
08/27/2025	08:35	32	BPS	34,000	Employee Error	Employee disconnected Line 7 fiber connection
12/31/2025	18:28	6	SSS	1,588	Unknown	Fault on 69kV line 5

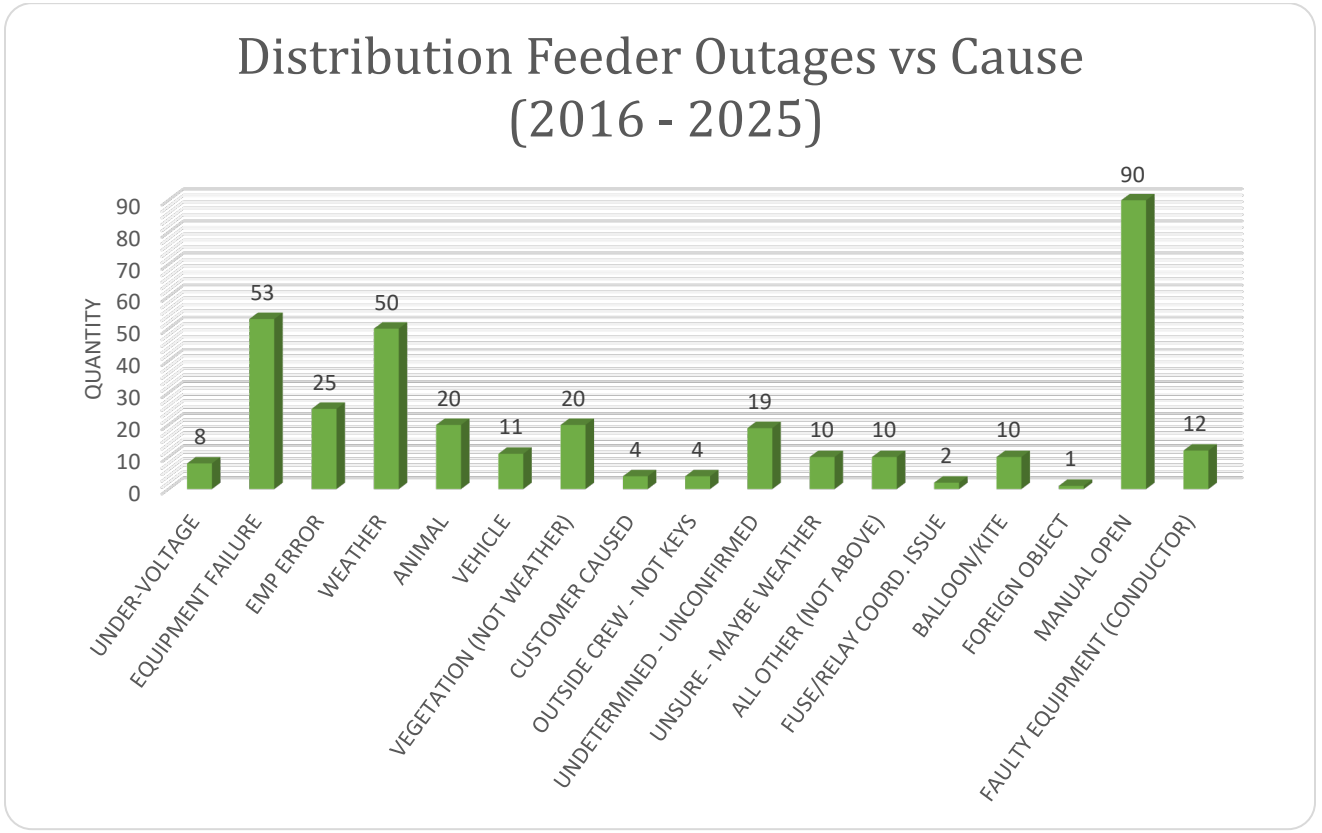
FKEC Area	Time	Duration Minutes	Location	KEYS Cust Affected	Cause	Explanation
06/10/2025	10:30	74	FKEC	34,000	Vehicle	Dump truck hit broke comm messenger then ended up in transmission line
07/17/2025	14:06	5	FKEC	8,476	UV	Line 5 reclosed and SPS activated shedding 9 feeders

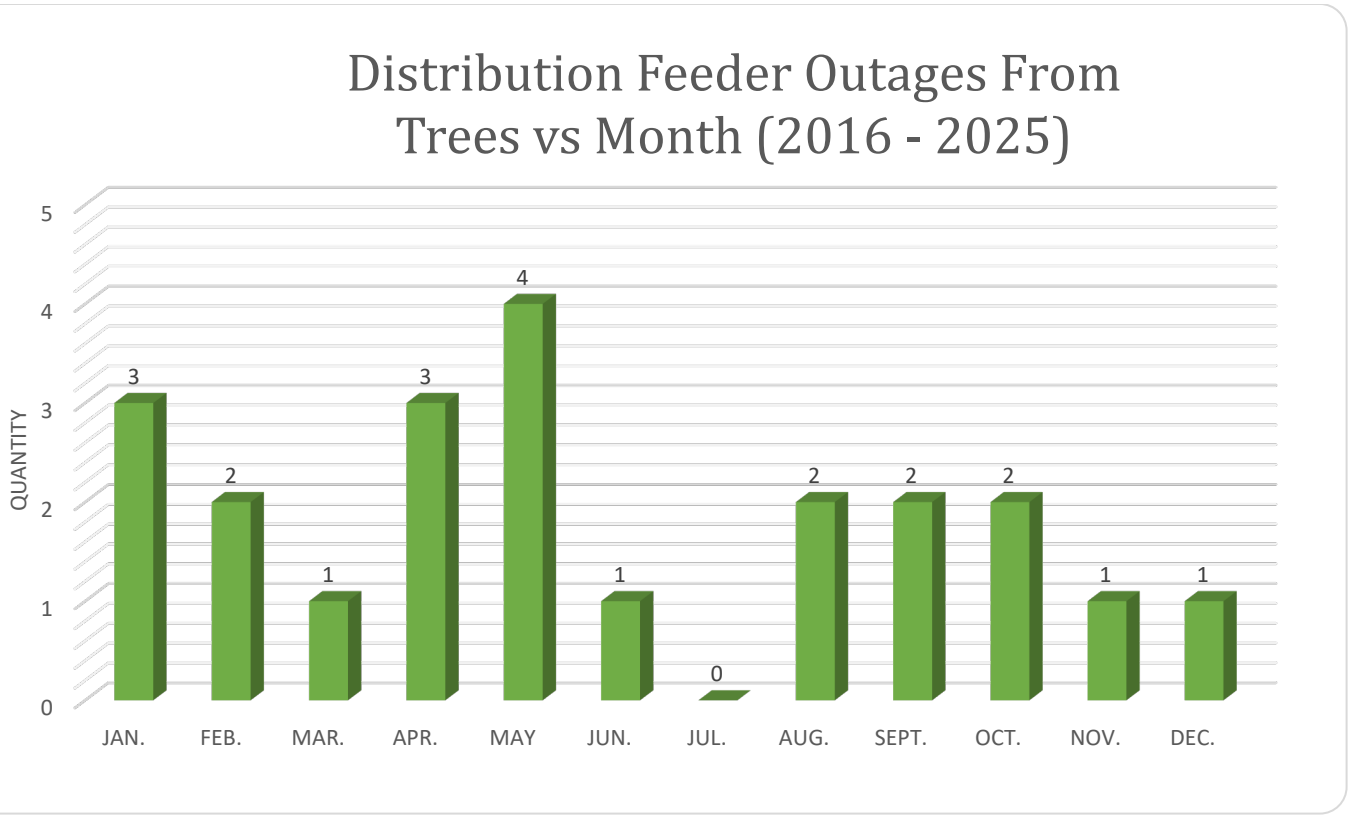
DISTRIBUTION OUTAGES

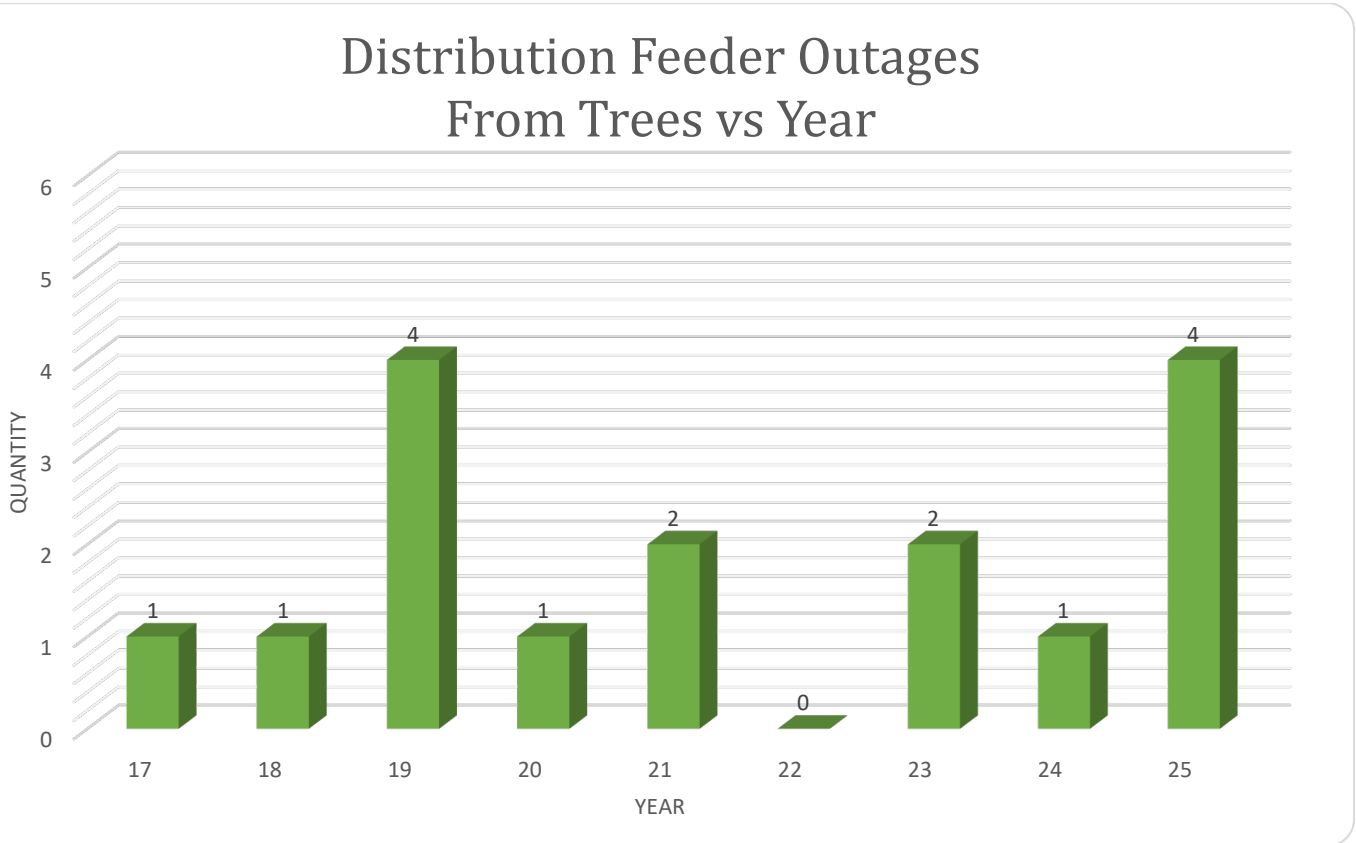


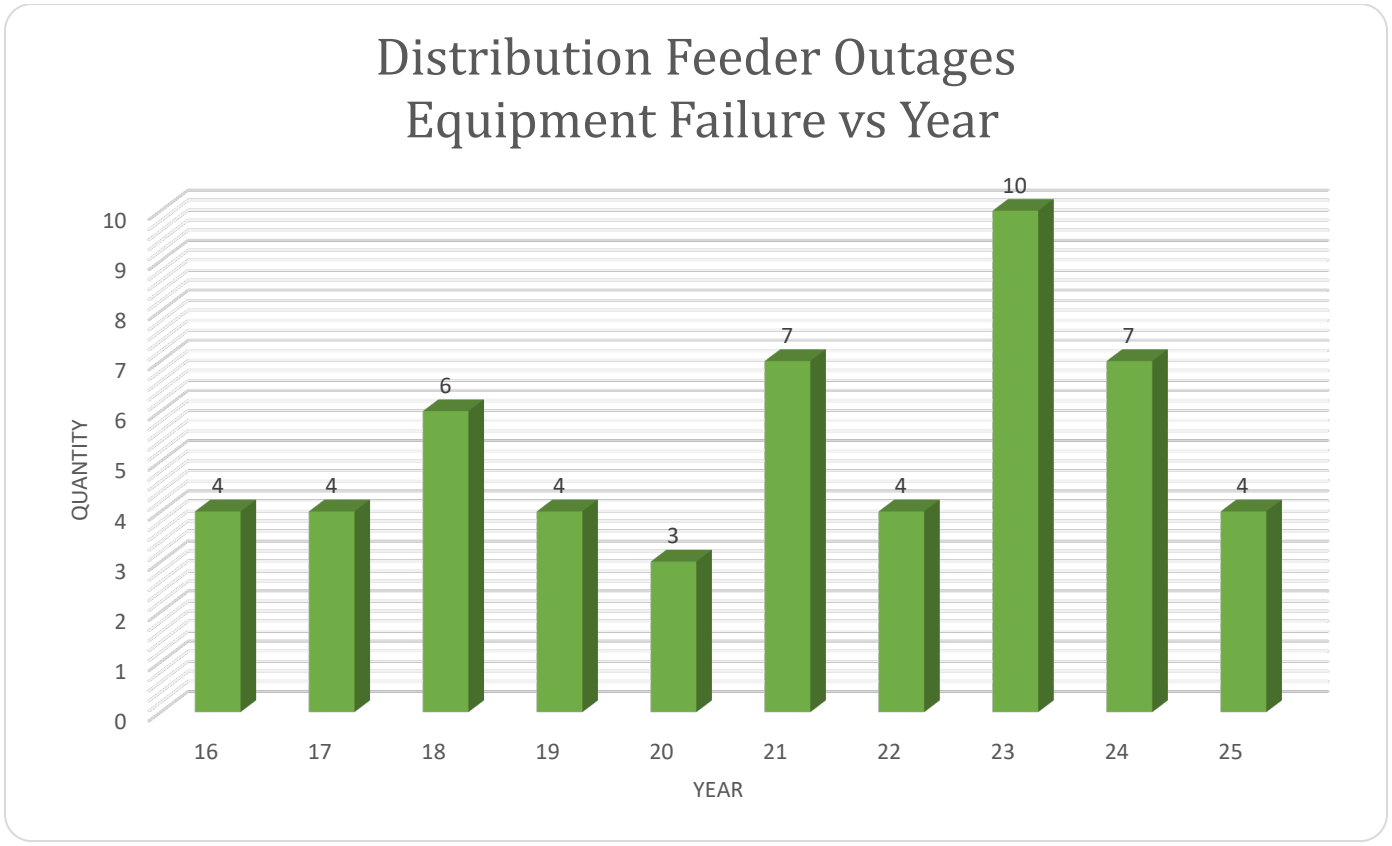


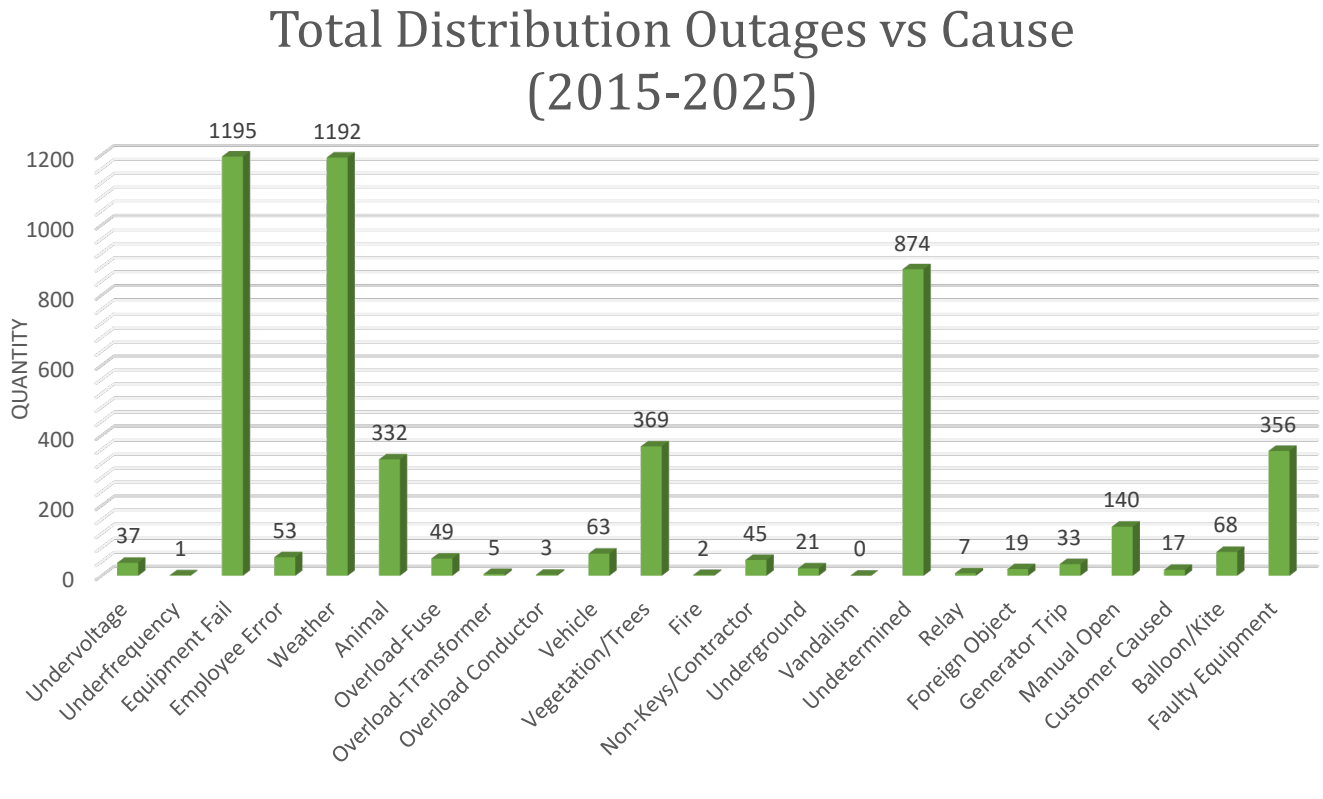

Total Distribution Feeder Outages vs Month
(2016 - 2025)
QUANTITY
0
5
10
15
20
25
30
35
40
45
44
12.9
25
7.3
28
8.2
33
9.6
23
6.7
33
9.6
21
6.1
36
10.5
21
6.1
37
10.8
19
5.6
22
6.4
Total # Of Outages
Percent Of Total

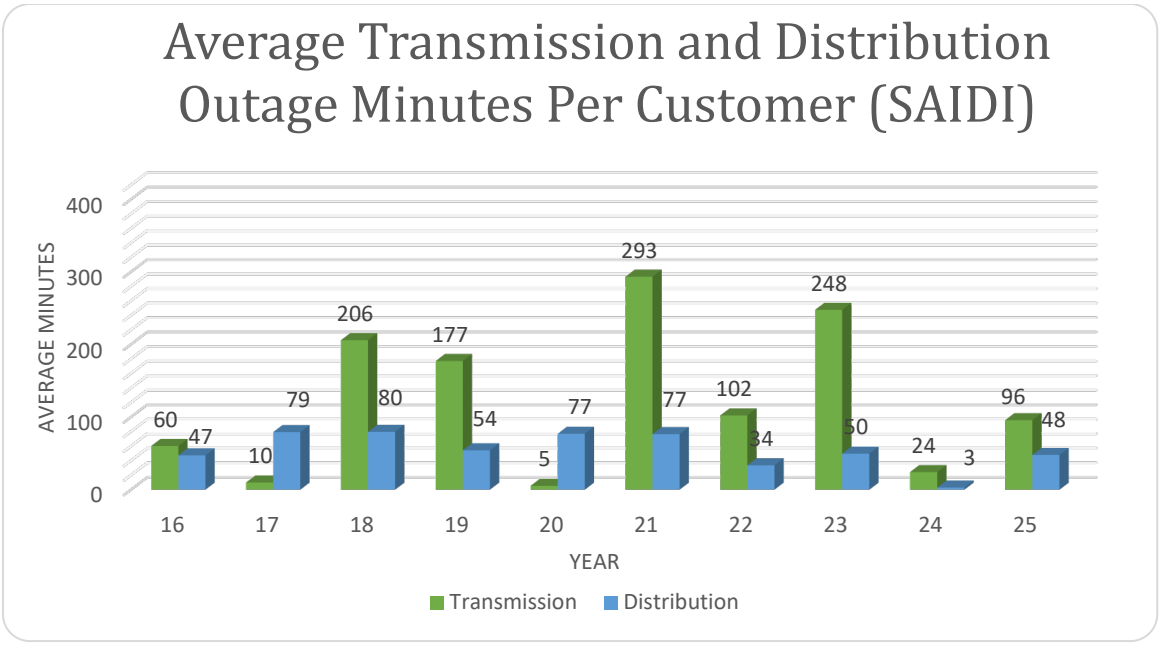

Distribution Feeder Outages vs Cause
(2016 - 2025)
QUANTITY
0
10
20
30
40
50
60
70
80
90
8
53
25
50
20
11
20
4
4
19
10
10
2
10
1
90
12
UNDER-VOLTAGE
EQUIPMENT FAILURE
EMP ERROR
WEATHER
ANIMAL
VEHICLE
VEGETATION (NOT WEATHER)
CUSTOMER CAUSED
OUTSIDE CREW - NOT KEYS
UNDETERMINED - UNCONFIRMED
UNSURE - MAYBE WEATHER
ALL OTHER (NOT ABOVE)
FUSE/RELAY COORD. ISSUE
BALLOON/KITE
FOREIGN OBJECT
MANUAL OPEN
FAULTY EQUIPMENT (CONDUCTOR)

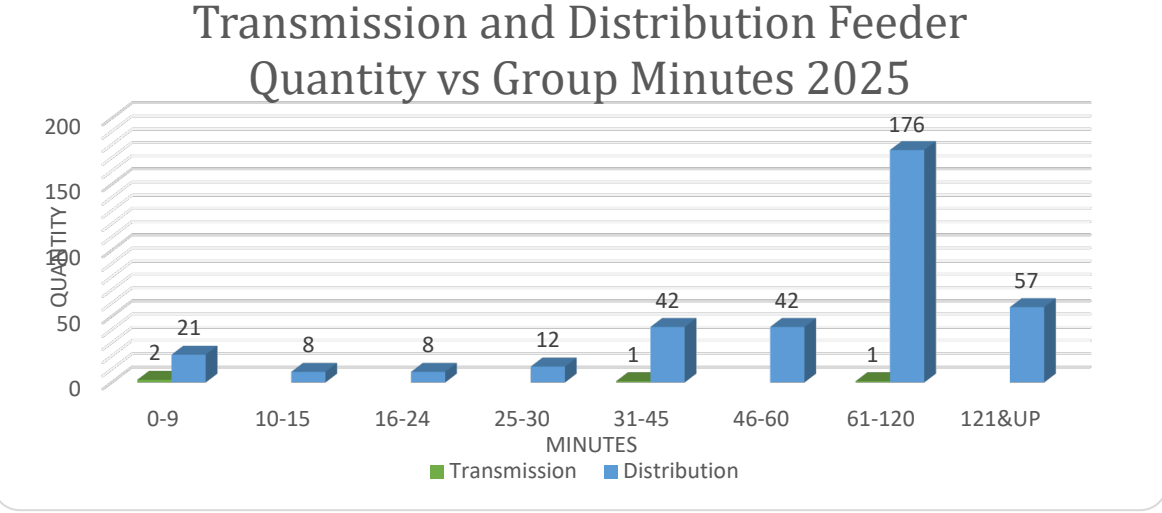

Distribution Feeder Outages From Trees vs Month (2016 - 2025)
QUANTITY
0
1
2
3
4
5
3
2
1
3
4
1
0
2
2
2
1
1
JAN.
FEB.
MAR.
APR.
MAY
JUN.
JUL.
AUG.
SEPT.
OCT.
NOV.
DEC.

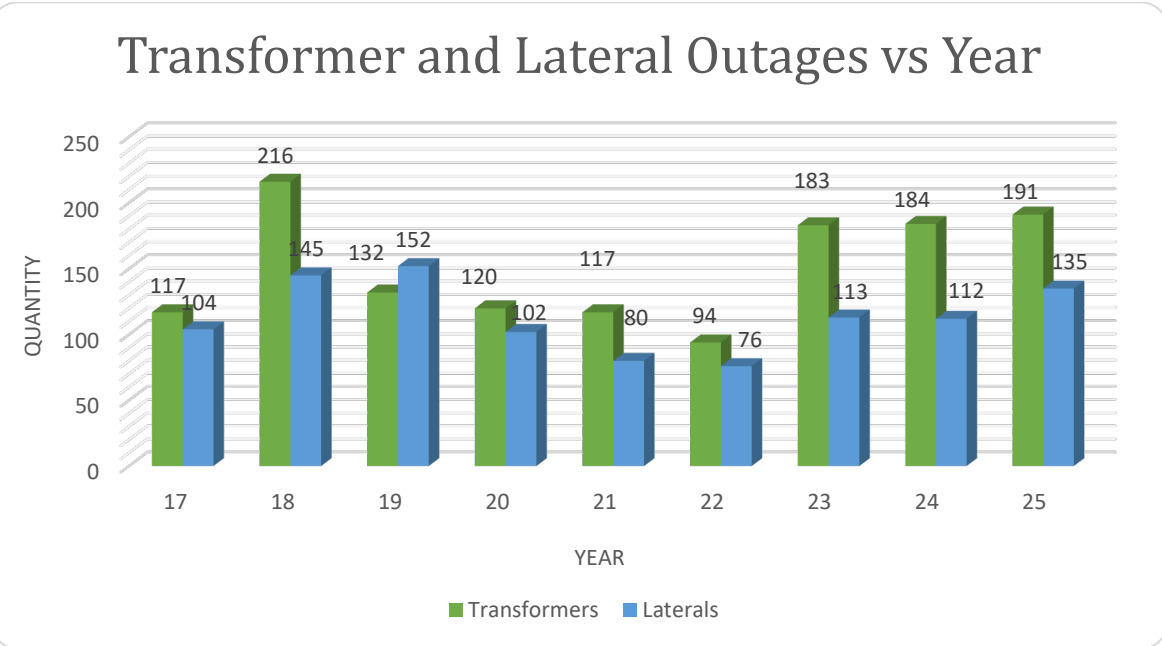

Distribution Feeder Outages From Trees vs Year
QUANTITY
0
1
2
3
4
5
6
1
1
4
1
2
0
2
1
4
17
18
19
20
21
22
23
24
25
YEAR

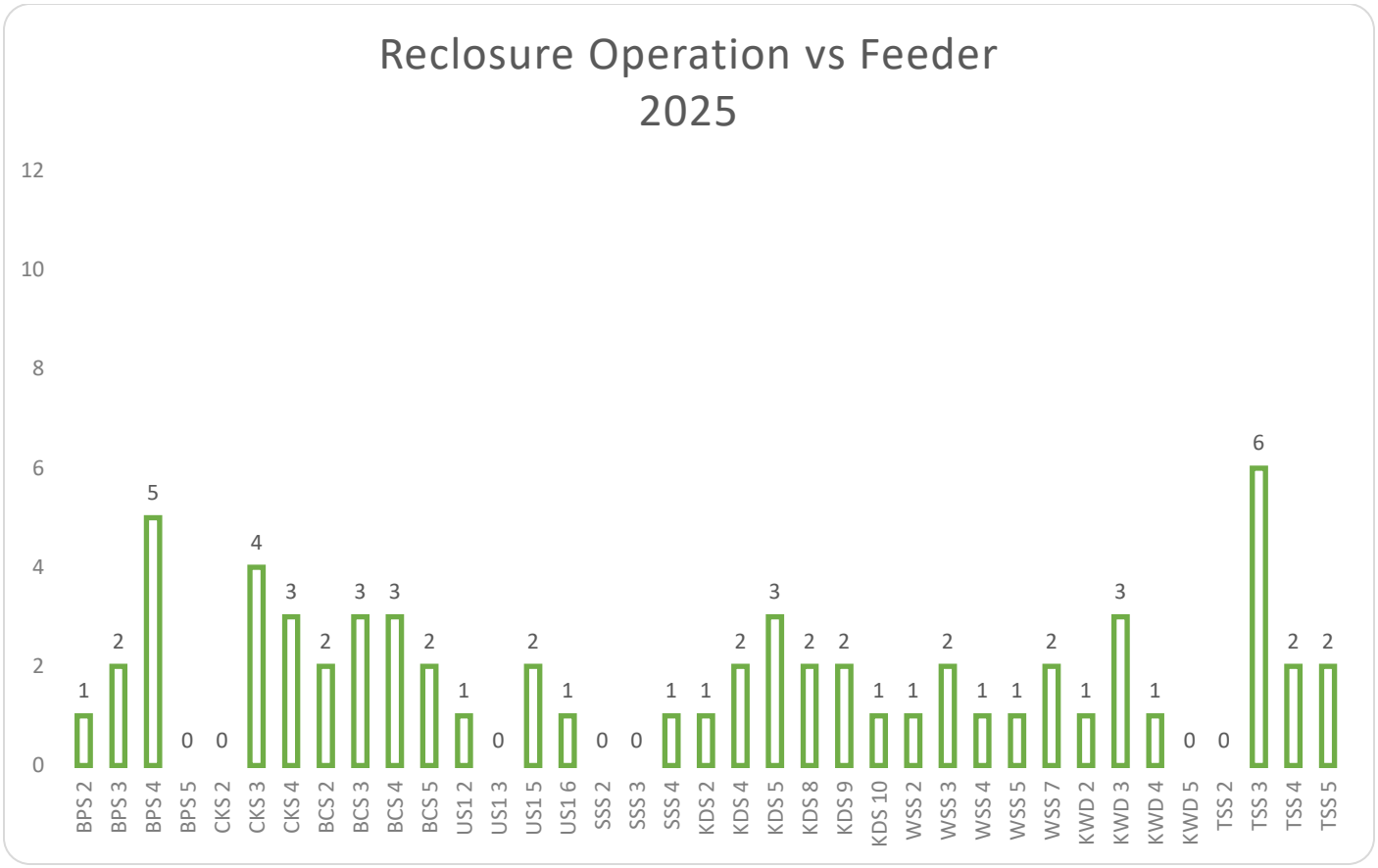

Distribution Feeder Outages
Equipment Failure vs Year
QUANTITY
YEAR
0
1
2
3
4
5
6
7
8
9
10
16
17
18
19
20
21
22
23
24
25
4
4
6
4
3
7
4
10
7
4

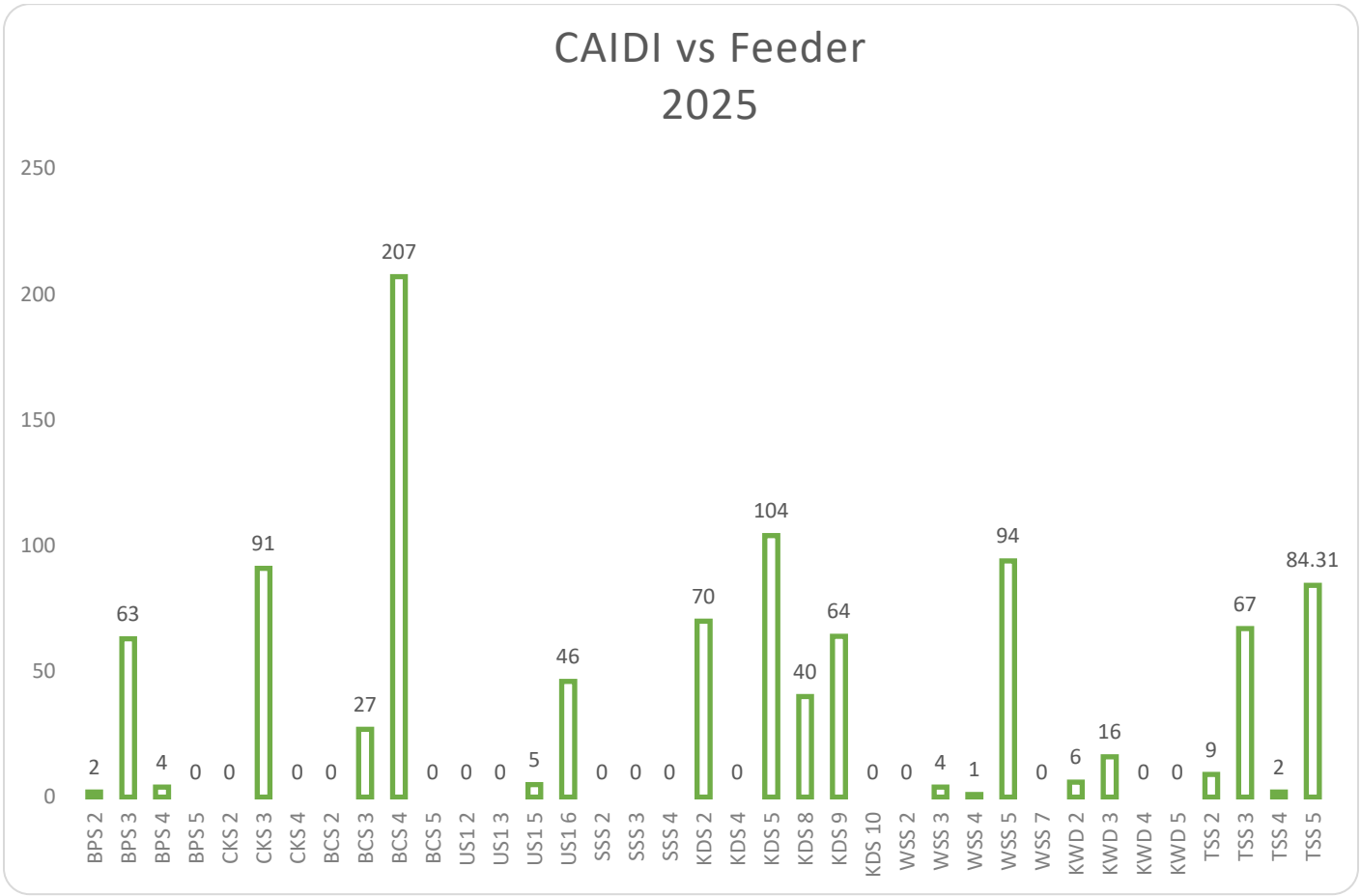

Total Distribution Outages vs Cause
(2015-2025)
QUANTITY
0
200
400
600
800
1000
1200
37
1
1195
53
1192
332
49
5
3
63
369
2
45
21
0
874
7
19
33
140
17
68
356
Undervoltage
Underfrequency
Equipment Fail
Employee Error
Weather
Animal
Overload-Fuse
Overload-Transformer
Overload Conductor
Vehicle
Vegetation/Trees
Fire
Non-Keys/Contractor
Underground
Vandalism
Undetermined
Relay
Foreign Object
Generator Trip
Manual Open
Customer Caused
Balloon/Kite
Faulty Equipment


Average Transmission and Distribution Outage Minutes Per Customer (SAIDI)
AVERAGE MINUTES
400
300
200
100
0
60
47
10
79
206
80
177
54
5
77
293
77
102
34
248
50
24
3
96
48
16
17
18
19
20
21
22
23
24
25
YEAR
Transmission
Distribution

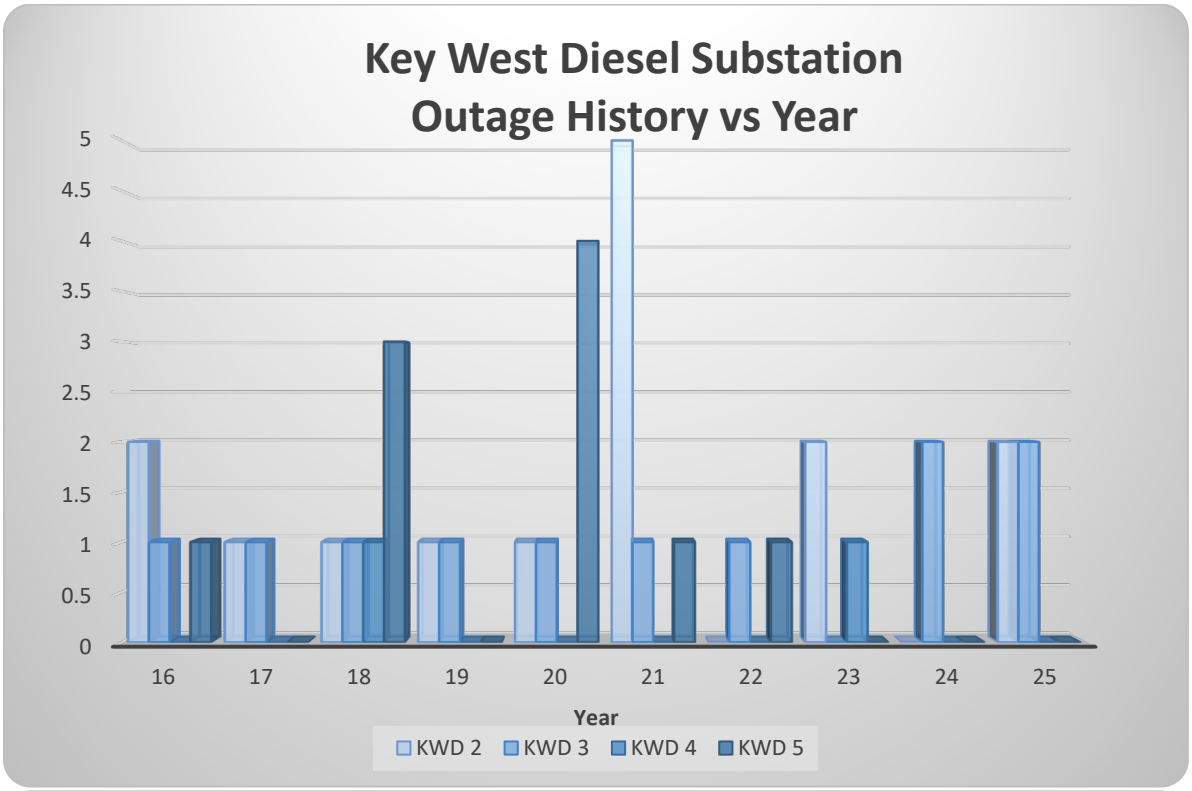

Transmission and Distribution Feeder Quantity vs Group Minutes 2025
QUANTITY
200
150
100
50
0
2
21
8
8
12
1
42
42
1
176
57
0-9
10-15
16-24
25-30
31-45
46-60
61-120
121&UP
MINUTES
Transmission
Distribution

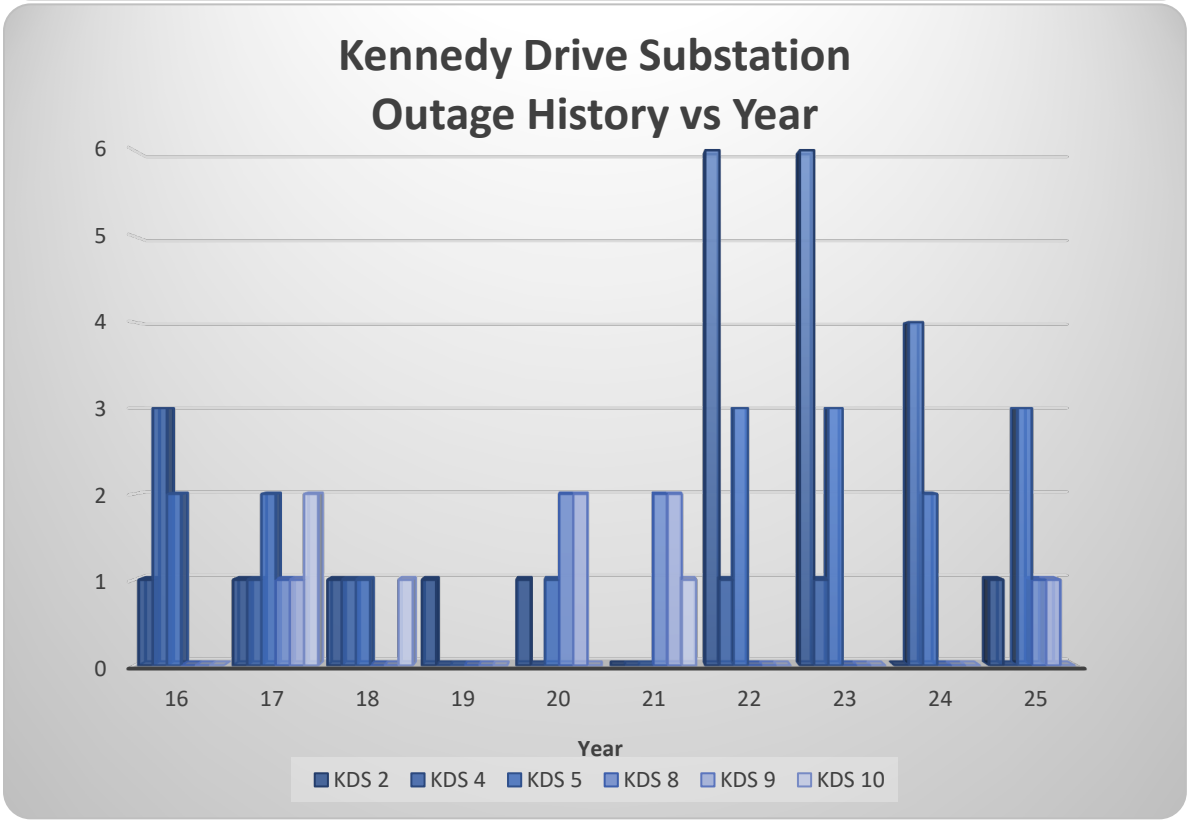

Transformer and Lateral Outages vs Year
QUANTITY
250
200
150
100
50
0
117
104
216
145
132
152
120
102
117
80
94
76
183
113
184
112
191
135
17
18
19
20
21
22
23
24
25
YEAR
Transformers
Laterals

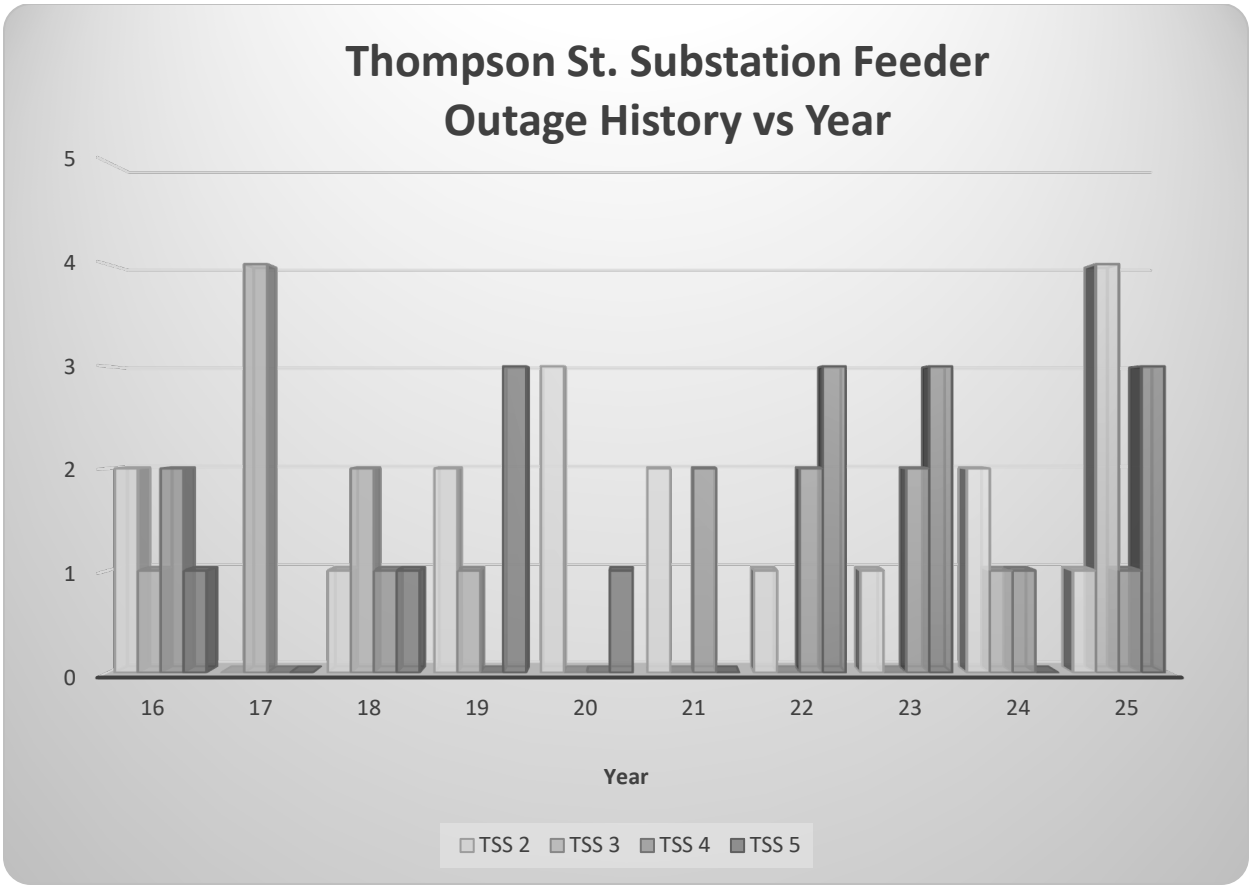

Reclosure Operation vs Feeder
2025
12
10
8
6
4
2
0
1 2 5 0 0 4 3 2 3 3 2 1 0 2 1 0 0 1 1 2 3 2 2 1 1 2 1 1 2 1 1 2 1 3 1 0 0 6 0 2 2
BPS 2 BPS 3 BPS 4 BPS 5 CKS 2 CKS 3 CKS 4 BCS 2 BCS 3 BCS 4 BCS 5 US1 2 US1 3 US1 5 US1 6 SSS 2 SSS 3 SSS 4 KDS 2 KDS 4 KDS 5 KDS 8 KDS 9 KDS 10 WSS 2 WSS 3 WSS 4 WSS 5 WSS 7 KWD 2 KWD 3 KWD 4 KWD 5 TSS 2 TSS 3 TSS 4 TSS 5

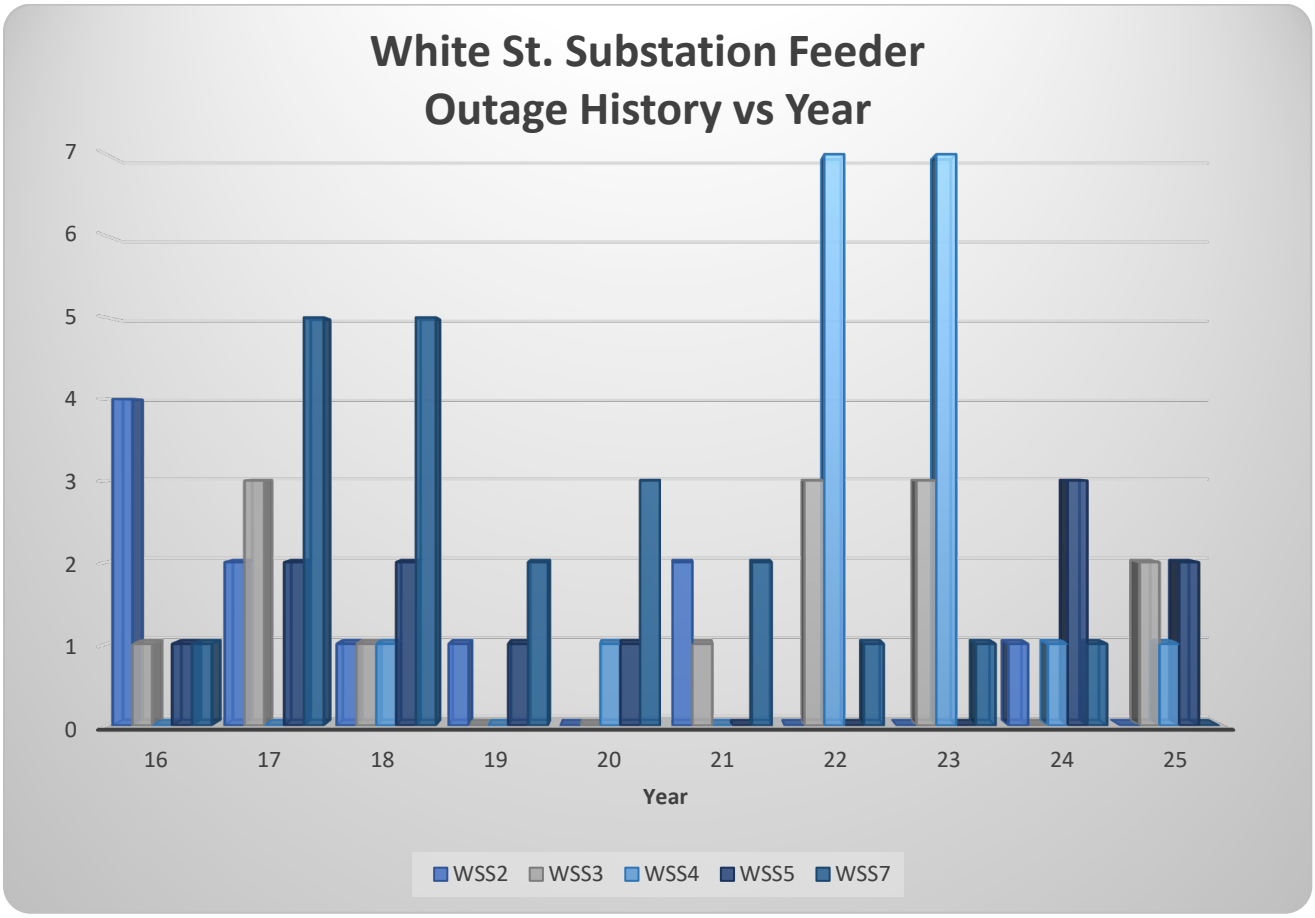

CAIDI vs Feeder
2025
250
200
150
100
50
0
2 63 4 0 0 91 0 0 27 207 0 0 0 5 46 0 0 0 70 0 104 40 64 0 0 4 1 94 0 6 16 0 0 9 67 2 84.31
BPS 2 BPS 3 BPS 4 BPS 5 CKS 2 CKS 3 CKS 4 BCS 2 BCS 3 BCS 4 BCS 5 US1 2 US1 3 US1 5 US1 6 SSS 2 SSS 3 SSS 4 KDS 2 KDS 4 KDS 5 KDS 8 KDS 9 KDS 10 WSS 2 WSS 3 WSS 4 WSS 5 WSS 7 KWD 2 KWD 3 KWD 4 KWD 5 TSS 2 TSS 3 TSS 4 TSS 5

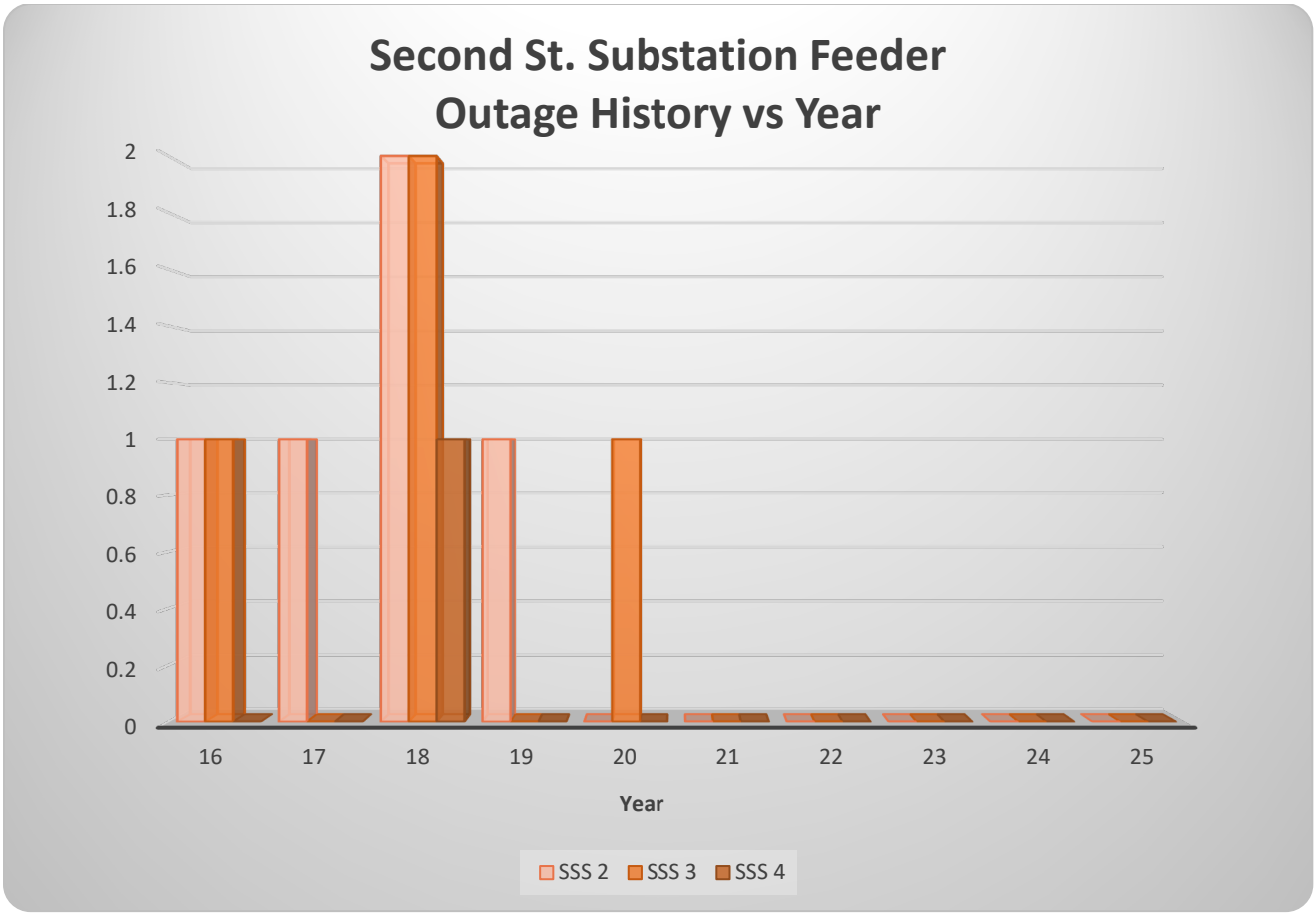
FEEDER OUTAGES BY SUBSTATION

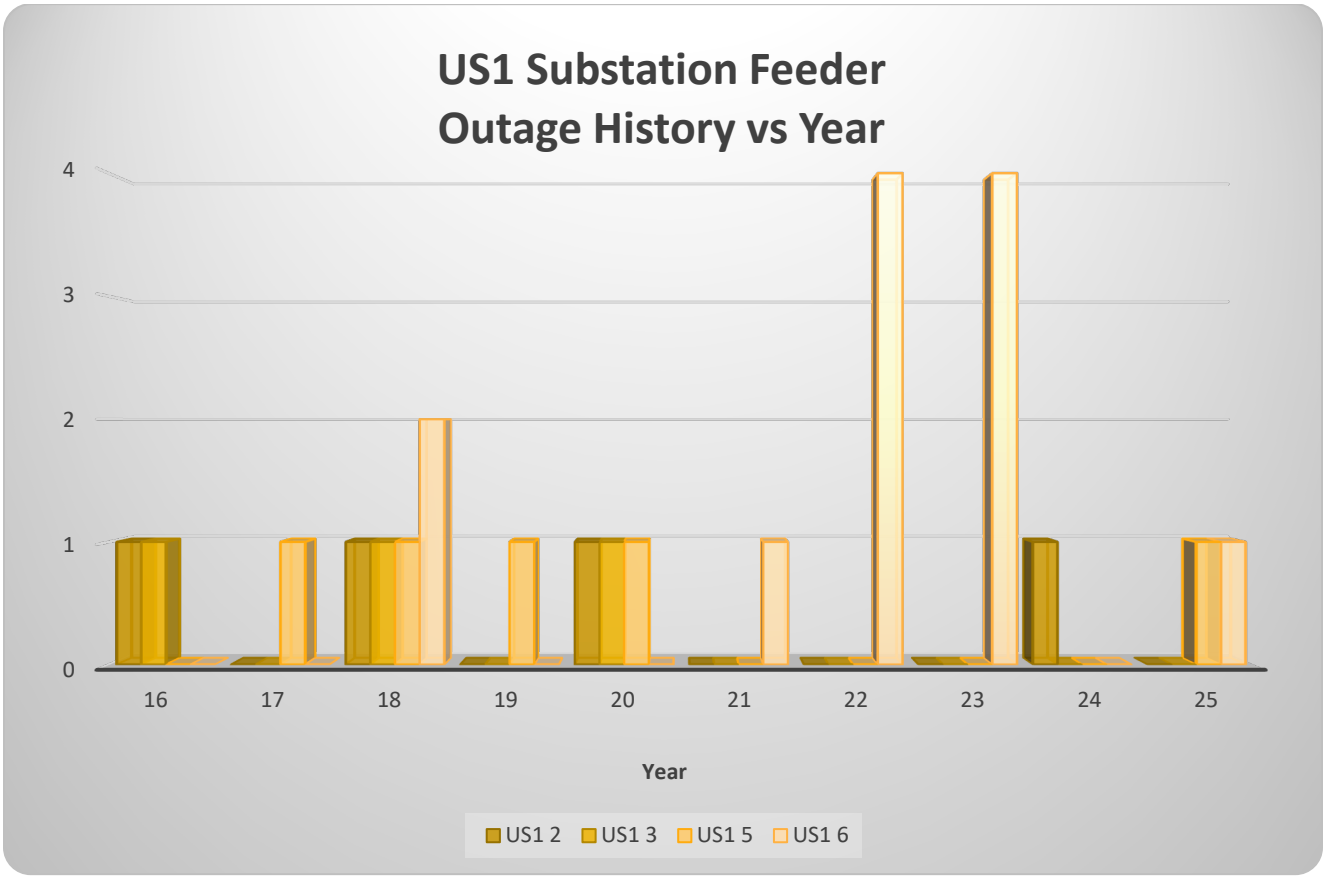


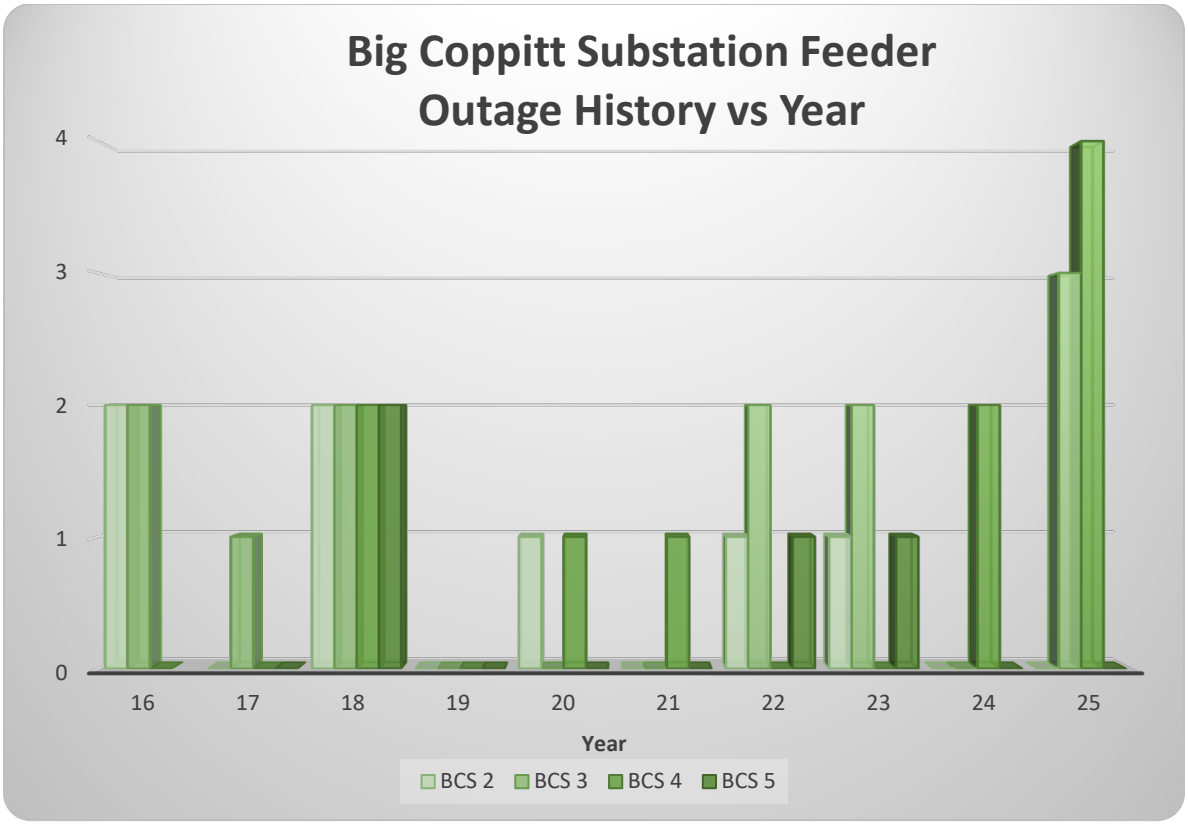


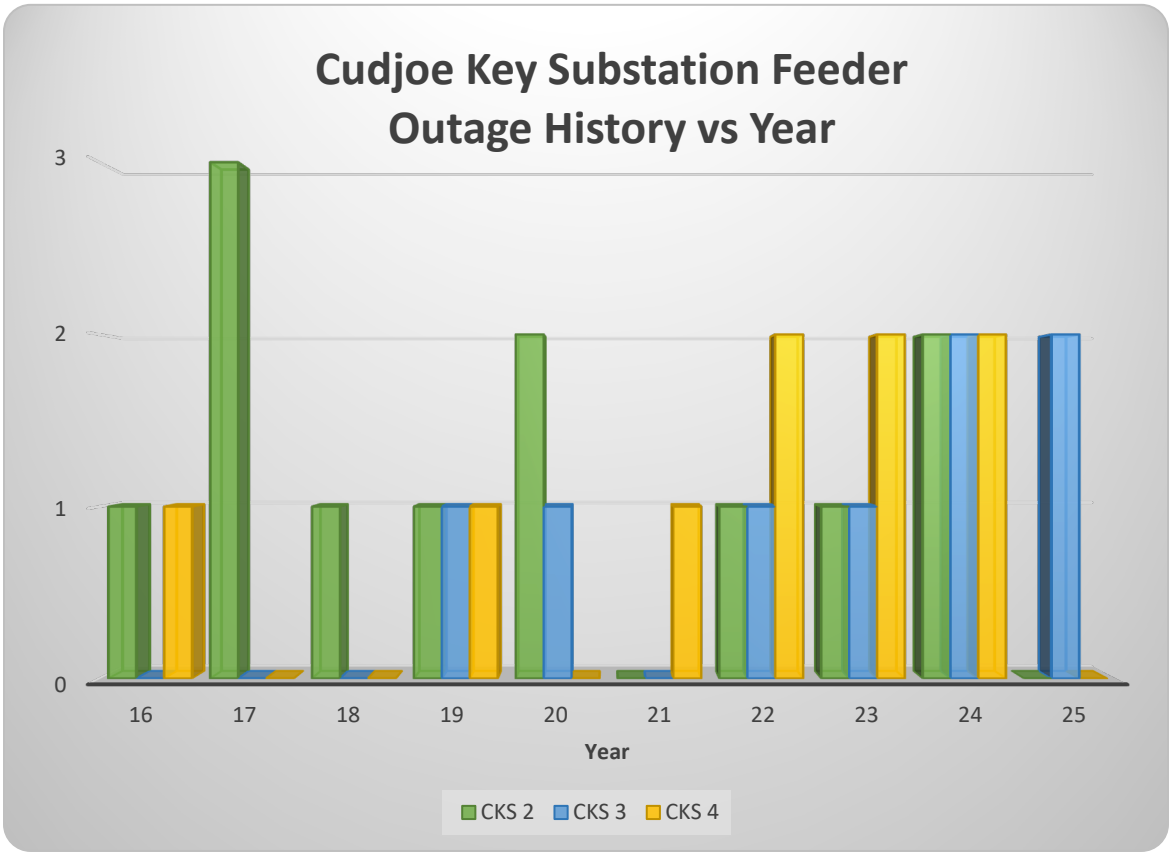

Thompson St. Substation Feeder
Outage History vs Year
5
4
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
TSS 2
TSS 3
TSS 4
TSS 5

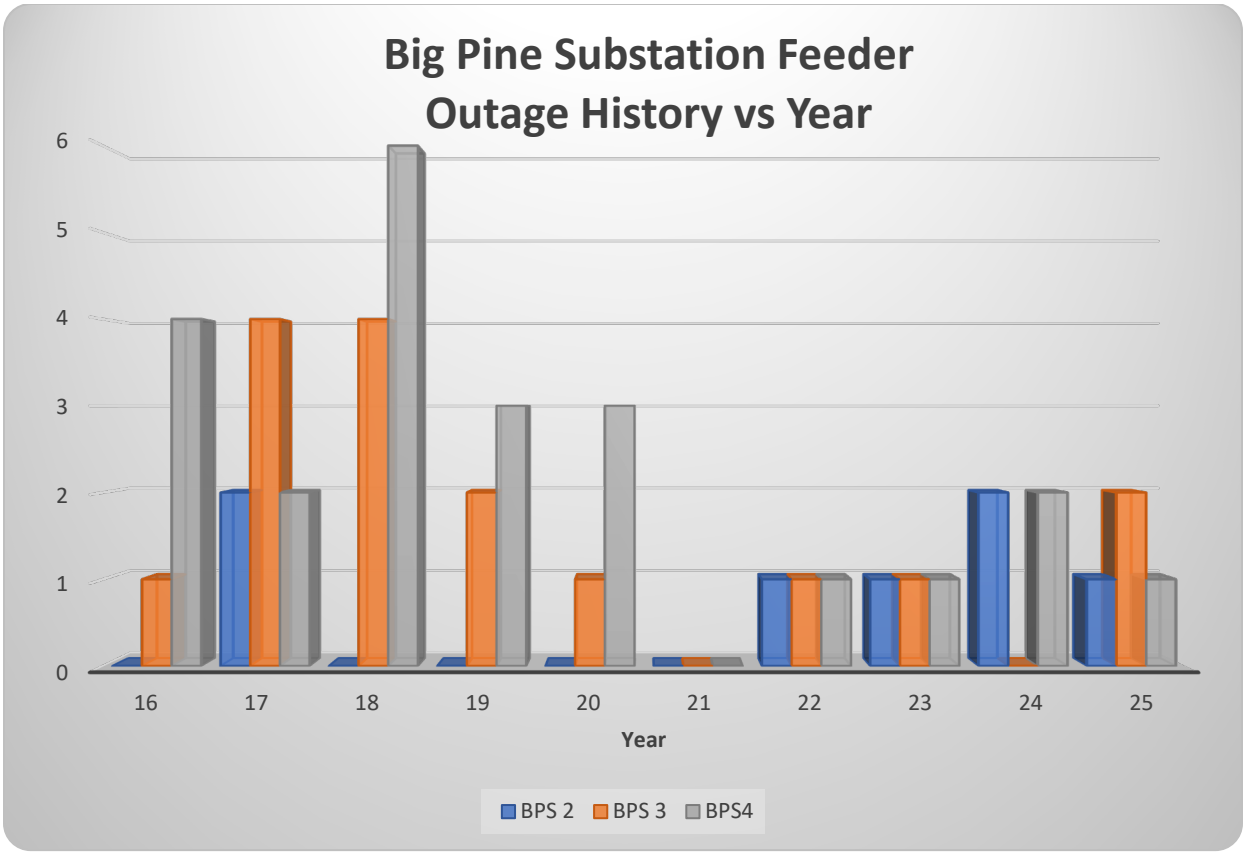

White St. Substation Feeder
Outage History vs Year
7
6
5
4
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
WSS2
WSS3
WSS4
WSS5
WSS7


Second St. Substation Feeder
Outage History vs Year
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
16
17
18
19
20
21
22
23
24
25
Year
SSS 2
SSS 3
SSS 4


US1 Substation Feeder
Outage History vs Year
4
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
US1 2
US1 3
US1 5
US1 6


Big Coppitt Substation Feeder
Outage History vs Year
4
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
BCS 2
BCS 3
BCS 4
BCS 5


Cudjoe Key Substation Feeder
Outage History vs Year
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
CKS 2
CKS 3
CKS 4


Big Pine Substation Feeder Outage History vs Year
6
5
4
3
2
1
0
16
17
18
19
20
21
22
23
24
25
Year
BPS 2
BPS 3
BPS4

Outage to Line Distance Ratio and Feeder SAIDI 2025

Substation	FDR	# Of Customers	Circuit Miles	Outage type-- QTY					Total Events Excluded Reclosers	Total Events	Outage to Line Length Ratio	SAIDI Total by Feeder
				REC	SERVICE WIRE	LAT	XFORMER	FDR				
BPS 2	2	2012	42.9	1	1	24	19	1	45	46	1.1	1.7
BPS 3	3	1870	12.6	2	0	15	14	2	31	33	2.6	5.2
BPS 4	4	594	20.1	5	0	7	3	1	11	16	0.8	0.6
CKS 2	2	1386	9.8	0	0	1	4	0	5	5	0.5	0.1
CKS 3	3	997	26.6	4	0	26	23	2	51	55	2.1	5.1
CKS 4	4	1591	44.2	3	0	16	20	0	36	39	0.9	2.8
BCS 2	2	525	6.6	2	0	2	4	0	6	8	1.2	0.2
BCS 3	3	262	8.0	3	0	3	3	3	9	12	1.5	0.6
BCS 4	4	1129	25.9	3	0	8	22	4	34	37	1.4	8.2
BCS 5	5	1170	7.3	2	0	6	7	0	13	15	2.1	0.8
US1 2	2	344	3.2	1	0	0	0	0	0	1	0.3	0.0
US1 3	3	515	1.8	0	0	0	0	0	0	0	0.0	0.0
US1 5	5	851	8.7	2	0	0	0	1	1	3	0.3	0.1
US1 6	6	519	6.2	1	0	3	3	1	7	8	1.3	1.0
SSS 2	2	168	4.1	0	0	0	2	0	2	2	0.5	0.2
SSS 3	3	1262	5.9	0	0	3	9	0	12	12	2.0	0.3
SSS 4	4	158	1.8	1	0	0	2	0	2	3	1.7	0.0
KDS 2	2	251	2.8	1	0	1	1	1	3	4	1.4	0.6
KDS 4	4	762	3.5	2	0	4	9	0	13	15	4.3	0.8
KDS 5	5	1433	7.7	3	0	0	6	3	9	12	1.6	4.9
KDS 8	8	567	7.0	2	0	2	2	1	5	7	1.0	1.3
KDS 9	9	1126	8.3	2	0	1	3	1	5	7	0.8	2.6
KDS 10	10	651	1.8	1	0	2	2	0	4	5	2.8	0.1
WSS 2	2	1817	8.0	1	0	3	2	0	5	6	0.8	0.5
WSS 3	3	4	1.3	2	0	0	0	2	2	4	3.1	0.0
WSS 4	4	555	3.0	1	0	1	2	1	4	5	1.7	0.2
WSS 5	5	761	2.6	1	0	0	2	2	4	5	1.9	2.3
WSS 7	7	1132	4.0	2	0	0	3	0	3	5	1.3	0.1
KWD 2	2	1643	4.9	1	0	0	2	2	4	5	1.0	0.4
KWD 3	3	504	2.7	3	0	0	1	2	3	6	2.2	0.3
KWD 4	4	645	4.6	1	0	1	0	0	1	2	0.4	0.1
KWD 5	5	149	1.0	0	0	0	0	0	0	0	0.0	0.0
TSS 2	2	907	5.7	0	0	2	8	1	11	11	1.9	0.4
TSS 3	3	1136	4.5	6	0	0	7	4	11	17	3.8	2.5
TSS 4	4	1391	7.1	2	0	3	3	1	7	9	1.3	0.7
TSS 5	5	1386	8.5	2	0	2	3	3	8	10	1.2	3.8
Totals		32173	324.7	63	1	136	191	39	367	430		48.29