LAKE WORTH BEACH Electric Utilities

CITIZEN OWNED ENERGY

Electric Reliability Presentation 1.28.2025 Jason C. Bailey Assistant Director – System Operations

CAIDI - Customer Average Interruption Duration Index

The average time to restore service to interrupted customers within a specified area of service over a given period of time.

SAIDI – System Average Interruption Duration Index

The average minutes of service interruption duration per customer served within a specified area of service over a given period of time.

SAIFI – System Average Interruption Frequency Index

The average number of Service Interruptions per customer within a specified area of service over a given period of time.

MAIFI – Momentary Average Interruption Event Frequency Index

The average number of Momentary Interruption Events recorded on primary circuits for a specified area of service over a given period of time.

L-Bar – Average Duration of Outage Events

The sum of each outage event duration for all outage events occurring during a given time period, divided by number of outage events over the same time period within a specific area of service.



SAIFI – Measures the average frequency of interruptions for the average customer.



Customers that experienced an outage Number of customers served

$$\frac{23,524}{27,842}$$
 = 0.845

Last year was 93,064 impacted. 2024 was a reduction of -74.8%



SAIDI – Measures the average duration of interruptions for the average customer.



Customer minutes of interruption (CMI) equals the number of customers out times the duration of the outage in minutes. 1 customer out of 100 minutes = 100 CMI 10 customers out for 10 minutes = 100 CMI

> Customer minutes of interruption Number of customers served

> > <u>1,361,842</u> 27,842 = 48.913

Last year our CMI was 3,763,592 2024 resulted in reduction of -64.0% or 2,401,750 less minutes of interruption



END OF THE YEAR RELIABILITY NUMBERS - CAIDI 2020 2023 2021 2022 2024 40.441 CAIDI 53.590 34.224 30.623 57.892 SAIDI = CAIDI % Change -36.1% -10.5% 32.1% 43.2% SAIFI END OF THE YEAR RELIABILITY NUMBERS - CAIDI 48.913 70.000 = 57.892 0.845 60.000 50.000 40.000 30.000 LAKE WORTH BEACH 20.000 Electric Utilitiessm 10.000 0.000 2020 2021 2022 2023 2024 **CITIZEN OWNED ENERGY** CAIDI

CAIDI – Measures the average repair time experienced by the average interrupted customer.

MAIFI – measures the average frequency of momentary interruption events for the average customer.



Customers that experienced a momentary Number of customers served

Last year was 200,677 customer momentary. 2024 saw a reduction of -64.5% or 129,079 less momentary interruptions.



END OF THE YEAR RELIABILITY NUMBERS - L-BAR 2020 2021 2022 2023 2024 L-BAR 129.319 107.202 116.680 156.189 128.633 % Change -17.1% 8.8% 33.9% -17.6% END OF THE YEAR RELIABILITY NUMBERS - L-BAR 180.000 160.000 140.000 120.000 100.000 80.000 60.000 40.000 20.000 0.000 2020 2021 2022 2023 2024 L-BAR

L-BAR – Measures the average length of a single outage.

Sum of each outage in minutes Number of outages



Projects underway that will continue to improve reliability.







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Thank you... Questions?



https://www.psc.state.fl.us/distribution-reliability-reports Website for 2023 FPL Distribution Reliability Report