



Department of Public Utilities

Electric, Gas, Water, and Wastewater Services

Monthly Status Report

Electric Reliability

Dennis Astley

Acting Deputy Utility Manager -
Electric Distribution

<u>Total # Accounts</u>	9045	-
Total Interruptions	24	-
<u>Sum Customer Interruption Durations</u>	13471:56:00	hours:min:sec
<u>#Customers Interrupted</u>	7223.0	
SAIFI	0.80	int./cust.
SAIDI	1:29	hours:min
CAIFI	0.332%	
CAIDI	1:51	hours:min
ASAI	99.3487%	

- **SAIFI - System Average Interruption Frequency Index**
A measure of interruptions per customer (Per Year)

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

- **SAIDI – System Average Interruption Duration Index**
A measure of outage time per customer if all customers were out at the same time (hours per year)

$$\text{SAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customers served)}}$$

- **CAIDI – Customer Average Interruption Duration Index**
A measure of the average outage duration per customer (hours per interruption)

$$\text{CAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customer interruptions)}} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- **ASAI – Average System Availability Index**
A measure of the average service availability (Per unit)
$$\text{ASAI} = \frac{\text{(Service hours available)}}{\text{(Customer demand hours)}} = \frac{8760 - \text{SAIDI}}{8760}$$

SAIDI= (Sum of all customer outage durations)
(Total number of customers served)

SAIDI = STANDARD AVERAGE INTERRUPTION DURATION

EACH POINT IS A MONTHLY SAIDI HISTORY
60 MINUTES = LACDPU SAIDI BENCHMARK

