

Los Alamos County
Department of Public Utilities

Electric Distribution
Reliability

June 25, 2025

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Deputy Utility Manager
Electric Distribution

Twelve Month History	MAY 25	
Total # Accounts	9045	
Total # Interruptions	32	
Sum Customer Interruption Durations	6941:39:00	hours:min
# Customers Interrupted	3258	
SAIFI (APPA AVG. = 1.0)	.36	int./cust.
SAIDI (APPA AVG. = 1:00)	00:46:03	hours:min
CAIDI	2.07	hours:min/INT
ASAI	99.9996%	% Available

- **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**

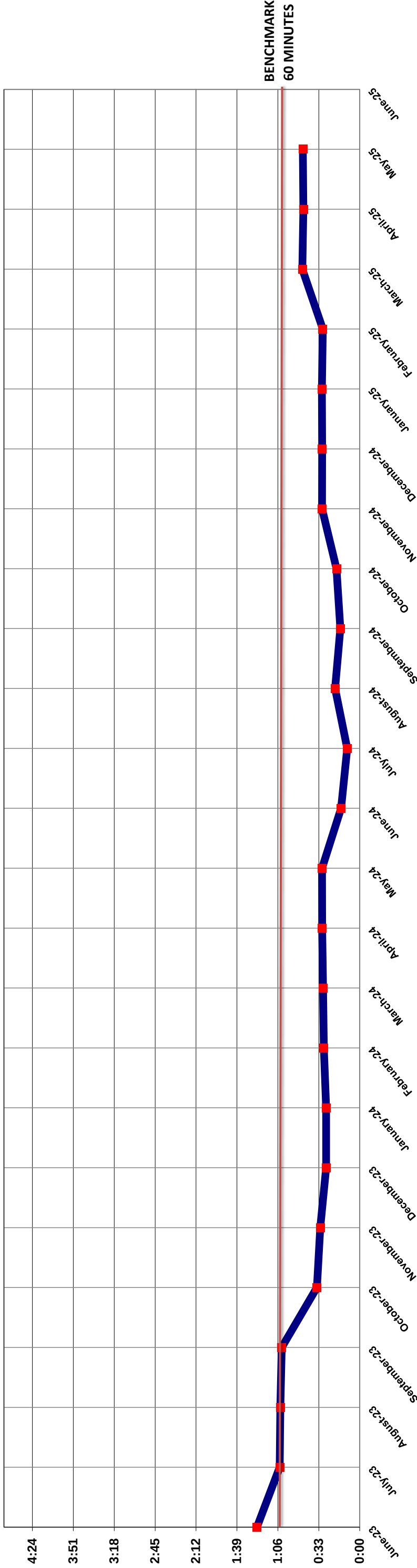
A measure of the average service availability (Per unit)

$$\text{ASAI} = \frac{(\text{Service hours available})}{(\text{Customer demand hours})} = \frac{8760 - \text{SAIDI}}{8760}$$

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

SAIDI = STANDARD AVERAGE INTERRUPTION DURATION

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



SAIDI NOW AT
46 MINUTES