![Los Alamos Department of Public Utilities — Electric, Gas, Water, and Wastewater Services](logo)

Monthly Status Report
Electric Reliability

Dennis Astley

Acting Deputy Utility Manager -

Electric Distribution

Total # Accounts	9045	
Total Interruptions	24	
Sum Customer Interruption Durations	13471:56:00	
#Customers Interrupted	7223.0	
SAIFI	0.80	
SAIDI	1:29	
CAIFI	0.332%	
CAIDI	1:51	
ASAI	99.3487%	

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

  SAIFI= (Total number of customer interruptions)
       (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)

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

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

  CAIDI= (Sum of all customer outage durations   ) = SAIDI
       (Total number of customer interruptions) SAIFI

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

Electric Distribution Reliability Study
Twelve Month Outage History

Prepared by Dennis G Astley
Deputy Utility Manager

Date	Call Rcd.	Circuit	Cause	Start Time	End Time	Duration	Minutes	Customers Affected (Meters)	Combined Customer Outage Durations	Total Outage H:M:S	Running Consumer Pain Index	Running SAIDI
3/1/2025	Utilities	13	Unknown	12:45	15:00	2:15	135	25	56:15:00	56:15:00	0:00:22	0:00:22
3/14/2025	Utilities	ELK RIDGE	WEATHER	10:30	11:08	0:38	38	20	12:40:00	68:55:00	0:00:27	0:00:27
3/18/2025	Utilities	13	TREE	15:30	16:30	1:00	60	25	25:00:00	93:55:00	0:00:37	0:00:37
3/19/2025	Utilities	WR2	URD Failure	21:30	4:20	6:50	410	22	150:20:00	244:15:00	0:01:37	0:01:37
3/25/2025	Utilities	WR2	URD Failure	20:00	1:45	5:45	345	79	454:15:00	698:30:00	0:04:38	0:04:38
3/31/2025	Utilities	16	URD Failure	18:00	21:00	3:00	180	692	2076:00:00	2774:30:00	0:18:24	0:18:24
5/5/2025	Utilities	15	WEATHER	3:26	7:15	3:49	229	16	61:04:00	2835:34:00	0:18:49	0:18:49
5/8/2025	Utilities	14	URD Failure	9:07	10:00	0:53	53	20	17:40:00	2853:14:00	0:18:56	0:18:56
6/8/2025	Utilities	WR2	URD Failure	5:00	8:00	3:00	180	15	45:00:00	2898:14:00	0:19:14	0:19:14
6/8/2025	Utilities	WR2	URD Failure	5:00	10:00	5:00	300	20	100:00:00	2998:14:00	0:19:53	0:19:53
6/8/2025	Utilities	WR2	URD Failure	5:00	13:00	8:00	480	5	40:00:00	3038:14:00	0:20:09	0:20:09
6/19/2025	Utilities	WR1	OH Failure	16:00	17:30	1:30	90	10	15:00:00	3053:14:00	0:20:15	0:20:15
7/16/2025	Utilities	16	Weather	9:25	10:15	0:50	50	10	8:20:00	3061:34:00	0:20:19	0:20:19
7/22/2025	Utilities	13	OH Failure	12:25	13:20	0:55	55	1675	1535:25:00	4596:59:00	0:30:30	0:30:30
7/22/2025	Utilities	13	Transformer Failure	17:30	18:45	1:15	75	10	12:30:00	4609:29:00	0:30:35	0:30:35
7/28/2025	Utilities	15	Weather	16:05	18:00	1:55	115	1	1:55:00	4611:24:00	0:30:35	0:30:35
8/8/2025	Utilities	WR1	Transformer Failure	3:20	6:00	2:40	160	2612	6965:20:00	11576:44:00	1:16:48	1:16:48
8/12/2025	Utilities	WR2	Vehicle	10:00	11:00	1:00	60	961	961:00:00	12537:44:00	1:23:10	1:23:10
8/25/2025	Utilities	WR1	weather	19:22	20:10	0:48	48	949	759:12:00	13296:56:00	1:28:12	1:28:12
11/4/2025	Utilities	13	Contractor	15:30	16:30	1:00	60	21	0:00:00	13296:56:00	1:28:21	1:28:12
11/4/2025	Utilities	16	URD Failure	22:30	3:30	5:00	300	35	175:00:00	13471:56:00	1:29:30	1:29:22
12/11/2025	Utilities	ELK RIDGE	Unknown	7:29	9:20	1:51	111	175	323:45:00	13795:41:00	1:31:39	1:31:31
12/12/2025	Utilities	WR1	URD Failure	4:30	7:30	3:00	180	50	150:00:00	13945:41:00	1:32:39	1:32:31
12/16/2025	Utilities	14	Contractor	0:30	2:30	2:00	120	14	0:00:00	13945:41:00	1:32:50	1:32:31
12/18/2025	Utilities	ELK RIDGE	weather	3:45	5:45	2:00	120	20	40:00:00	13985:41:00	1:33:06	1:32:46
12/18/2025	Utilities	13	TREE	5:45	9:30	3:45	225	20	75:00:00	14060:41:00	1:33:36	1:33:16
12/22/2025	Utilities	17	Contractor	10:30	11:00	0:30	30	15	0:00:00	14060:41:00	1:33:39	1:33:16
1/1/2026	Utilities	16	Unknown	15:00	16:15	1:15	75	6	7:30:00	14068:11:00	1:33:42	1:33:19
1/28/2026	Utilities	WR2	URD Failure	9:00	10:00	1:00	60	14	14:00:00	14082:11:00	1:33:47	1:33:25
2/6/2026	Utilities	ELK RIDGE	OH Failure	9:30	10:00:00	0:30:00	30	20	10:00:00	14092:11:00	1:33:51	1:33:29
2/17/2026	Utilities	16	weather	10:30	12:00	1:30	90	7	10:30:00	14102:41:00	1:33:55	1:33:33

CIRCUIT SAIDI IS CALCULATED ACCORDING TO THE NUMBER OF CUSTOMERS IN EACH CIRCUIT RESPECTIVELY

Running SAIDI Circuit 13	Running SAIDI Circuit 14	Running SAIDI Circuit 15	Running SAIDI Circuit 16	Running SAIDI Circuit 17	Running SAIDI Circuit 18	Running SAIDI Circuit EA4 &ELK RIDGE	Running SAIDI Circuit WR1	Running SAIDI Circuit WR2	Monthly SAIDI	
0:02:02						0:04:36				
0:00:54										
								0:09:23		
								0:28:22		
			1:07:37						MARCH	0:18:02
		0:01:57								
	0:01:58								MAY	0:00:31
								0:02:49		
								0:06:15		
								0:02:30		
							0:00:56		JUNE	0:01:20
			0:00:16							
0:55:40										
0:00:27										
		0:00:04							JULY	0:10:20
							7:14:53			
								1:00:00		
							0:47:24		AUGUST	0:11:25
0:00:00										
			0:05:42						NOVEMBER	0:01:10
						1:57:44				
						0:14:33				
0:02:43										
									DECEMBER	0:03:54
			0:00:15							
								0:00:52	JANUARY	0:00:35
					0:03:38					
			0:00:21						FEBRUARY	0:00:08
0:02:57	**0:01:58**	**0:00:00**	**1:07:37**	**#REF!**	**#REF!**	**0:04:36**	**8:03:13**	**1:50:10**	**Total**	**0:19:53**
1655	539	1875	1842	209	213	165	1586	961	9045	

NUMBER OF CUSTOMERS BY CIRCUIT

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

SAIDI = STANDARD AVERAGE INTERUPTION DURATION

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

BENCHMARK
60 MINUTES

SAIDI NOW AT
89 MINUTES