



Department of Public Utilities

Electric, Gas, Water, and Wastewater Services

# **Monthly Status Report**

## **Electric Reliability**

Dennis Astley

Deputy Utility Manager -  
Electric Distribution

|                                     |             |  |
|-------------------------------------|-------------|--|
| Total # Accounts                    | 9045        |  |
| Total Interruptions                 | <b>35</b>   |  |
| Sum Customer Interruption Durations | 25398:45:00 |  |
| #Customers Interrupted              | 13506.0     |  |
| SAIFI                               | 1.49        |  |
| SAIDI                               | 2:48        |  |
| CAIFI                               | 0.259%      |  |
| CAIDI                               | 1:52        |  |
| ASAI                                | 98.8305%    |  |

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

| Electric Distribution Reliability Study<br>Twelve Month Outage History |           |           |                     | Prepared by Dennis G Astley<br>Deputy Utility Manager |          |          |         |                                   |                                             |                       |                                   |                  |
|------------------------------------------------------------------------|-----------|-----------|---------------------|-------------------------------------------------------|----------|----------|---------|-----------------------------------|---------------------------------------------|-----------------------|-----------------------------------|------------------|
|                                                                        |           |           |                     |                                                       |          |          |         |                                   |                                             |                       |                                   |                  |
| Date                                                                   | Call Rcd. | Circuit   | Cause               | Start Time                                            | End Time | Duration | Minutes | Customers<br>Affected<br>(Meters) | Combined<br>Customer<br>Outage<br>Durations | Total Outage<br>H:M:S | Running<br>Consumer Pain<br>Index | Running<br>SAIDI |
| 7/16/2025                                                              | Utilities | 16        | Weather             | 9:25                                                  | 10:15    | 0:50     | 50      | 10                                | 8:20:00                                     | 8:20:00               | 0:00:03                           | 0:00:03          |
| 7/22/2025                                                              | Utilities | 13        | OH Failure          | 12:25                                                 | 13:20    | 0:55     | 55      | 1675                              | 1535:25:00                                  | 1543:45:00            | 0:10:14                           | 0:10:14          |
| 7/22/2025                                                              | Utilities | 13        | Transformer Failure | 17:30                                                 | 18:45    | 1:15     | 75      | 10                                | 12:30:00                                    | 1556:15:00            | 0:10:19                           | 0:10:19          |
| 7/28/2025                                                              | Utilities | 15        | Weather             | 16:05                                                 | 18:00    | 1:55     | 115     | 1                                 | 1:55:00                                     | 1558:10:00            | 0:10:20                           | 0:10:20          |
| 8/8/2025                                                               | Utilities | WR1       | Transformer Failure | 3:20                                                  | 6:00     | 2:40     | 160     | 2612                              | 6965:20:00                                  | 8523:30:00            | 0:56:32                           | 0:56:32          |
| 8/12/2025                                                              | Utilities | WR2       | Vehicle             | 10:00                                                 | 11:00    | 1:00     | 60      | 961                               | 961:00:00                                   | 9484:30:00            | 1:02:55                           | 1:02:55          |
| 8/25/2025                                                              | Utilities | WR1       | weather             | 19:22                                                 | 20:10    | 0:48     | 48      | 949                               | 759:12:00                                   | 10243:42:00           | 1:07:57                           | 1:07:57          |
| 11/4/2025                                                              | Utilities | 13        | Contractor          | 15:30                                                 | 16:30    | 1:00     | 60      | 21                                | 0:00:00                                     | 10243:42:00           | 1:08:05                           | 1:07:57          |
| 11/4/2025                                                              | Utilities | 16        | URD Failure         | 22:30                                                 | 3:30     | 5:00     | 300     | 35                                | 175:00:00                                   | 10418:42:00           | 1:09:15                           | 1:09:07          |
| 12/11/2025                                                             | Utilities | ELK RIDGE | Unknown             | 7:29                                                  | 9:20     | 1:51     | 111     | 175                               | 323:45:00                                   | 10742:27:00           | 1:11:24                           | 1:11:16          |
| 12/12/2025                                                             | Utilities | WR1       | URD Failure         | 4:30                                                  | 7:30     | 3:00     | 180     | 50                                | 150:00:00                                   | 10892:27:00           | 1:12:24                           | 1:12:15          |
| 12/16/2025                                                             | Utilities | 14        | Contractor          | 0:30                                                  | 2:30     | 2:00     | 120     | 14                                | 0:00:00                                     | 10892:27:00           | 1:12:35                           | 1:12:15          |
| 12/18/2025                                                             | Utilities | ELK RIDGE | weather             | 3:45                                                  | 5:45     | 2:00     | 120     | 20                                | 40:00:00                                    | 10932:27:00           | 1:12:51                           | 1:12:31          |
| 12/18/2025                                                             | Utilities | 13        | TREE                | 5:45                                                  | 9:30     | 3:45     | 225     | 20                                | 75:00:00                                    | 11007:27:00           | 1:13:21                           | 1:13:01          |
| 12/22/2025                                                             | Utilities | 17        | Contractor          | 10:30                                                 | 11:00    | 0:30     | 30      | 15                                | 0:00:00                                     | 11007:27:00           | 1:13:24                           | 1:13:01          |
| 1/1/2026                                                               | Utilities | 16        | Unknown             | 15:00                                                 | 16:15    | 1:15     | 75      | 6                                 | 7:30:00                                     | 11014:57:00           | 1:13:27                           | 1:13:04          |
| 1/28/2026                                                              | Utilities | WR2       | URD Failure         | 9:00                                                  | 10:00    | 1:00     | 60      | 14                                | 14:00:00                                    | 11028:57:00           | 1:13:32                           | 1:13:10          |
| 2/6/2026                                                               | Utilities | ELK RIDGE | OH Failure          | 9:30                                                  | 10:00:00 | 0:30:00  | 30      | 20                                | 10:00:00                                    | 11038:57:00           | 1:13:36                           | 1:13:14          |
| 2/17/2026                                                              | Utilities | 16        | weather             | 10:30                                                 | 12:00    | 1:30     | 90      | 7                                 | 10:30:00                                    | 11049:27:00           | 1:13:40                           | 1:13:18          |
| 3/6/2026                                                               | Utilities | 16        | LANL Error          | 13:30                                                 | 13:50    | 0:20     | 20      | 231                               | 77:00:00                                    | 11126:27:00           | 1:14:11                           | 1:13:18          |
| 3/11/2026                                                              | Utilities | 16        | WEATHER             | 13:44                                                 | 14:24    | 0:40     | 40      | 40                                | 26:40:00                                    | 11153:07:00           | 1:14:22                           | 1:13:48          |
| 3/18/2026                                                              | Utilities | WR1       | URD Failure         | 16:00                                                 | 3:30     | 11:30    | 690     | 6                                 | 69:00:00                                    | 11222:07:00           | 1:14:49                           | 1:13:59          |
| 3/31/2026                                                              | Utilities | Bandelier | URD Failure         | 10:05                                                 | 16:00    | 5:55     | 355     | 4                                 | 23:40:00                                    | 11245:47:00           | 1:14:58                           | 1:14:27          |
| 4/17/2026                                                              | Utilities | WR2       | URD Failure         | 10:00                                                 | 11:00    | 1:00     | 60      | 10                                | 10:00:00                                    | 11247:27:00           | 1:15:02                           | 1:14:37          |
| 4/22/2026                                                              | Utilities | ELK RIDGE | LANL Error          | 15:00                                                 | 16:30:00 | 1:30:00  | 90      | 20                                | 0:00:00                                     | 11247:27:00           | 1:15:14                           | 1:14:37          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 22:36:00 | 1:04:00  | 64      | 4373                              | 4664:32:00                                  | 15920:19:00           | 1:46:11                           | 1:14:37          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 23:48:00 | 2:16:00  | 136     | 945                               | 2142:00:00                                  | 18062:19:00           | 2:00:23                           | 1:45:36          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 0:20:00  | 2:48:00  | 168     | 17                                | 47:36:00                                    | 18109:55:00           | 2:00:42                           | 1:59:49          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 1:02:00  | 4:30:00  | 270     | 305                               | 1372:30:00                                  | 19482:25:00           | 2:09:49                           | 2:00:08          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 2:38:00  | 6:00:00  | 360     | 102                               | 612:00:00                                   | 20094:25:00           | 2:13:52                           | 2:09:14          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 4:35:00  | 8:00:00  | 480     | 134                               | 1072:00:00                                  | 21166:25:00           | 2:20:59                           | 2:13:18          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 5:26:00  | 9:00:00  | 540     | 376                               | 3384:00:00                                  | 24550:25:00           | 2:43:26                           | 2:20:24          |
| 5/8/2026                                                               | Utilities | 13        | URD Failure         | 21:32                                                 | 7:42:00  | 11:10:00 | 670     | 26                                | 290:20:00                                   | 24840:45:00           | 2:45:21                           | 2:42:51          |
| 5/25/2026                                                              | Utilities | EA4       | Pole Fire           | 21:30                                                 | 1:00:00  | 4:00:00  | 240     | 2                                 | 8:00:00                                     | 24848:45:00           | 2:45:24                           | 2:44:47          |
| 6/20/2026                                                              | Utilities | 14        | URD Failure         | 11:30                                                 | 17:30:00 | 6:00     | 360     | 50                                | 300:00:00                                   | 25148:45:00           | 2:47:24                           | 2:44:50          |
| 6/23/2026                                                              | Utilities | WR2       | Bird                | 6:00                                                  | 7:00:00  | 1:00     | 60      | 250                               | 250:00:00                                   | 25398:45:00           | 2:49:03                           | 2:46:49          |

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

| <u>Running SAIDI</u><br><u>Circuit 13</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>14</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>15</u> | <u>Running SAIDI</u><br><u>Circuit 16</u><br><u>16</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>17</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>18</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>EA4 &amp; ELK</u><br><u>RIDGE</u> | <u>Running</u><br><u>SAIDI Circuit</u><br><u>WR1</u> | <u>Running SAIDI</u><br><u>Circuit WR2</u> | <u>Monthly SAIDI</u> |              |
|-------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|----------------------|--------------|
|                                           |                                                     |                                                     | 0:00:16                                                |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:55:40                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:00:27                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
|                                           |                                                     | 0:00:04                                             |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            | JULY                 | 0:10:20      |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                | 7:14:53                                              |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      | 1:00:00                                    |                      |              |
| 0:00:00                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                | 0:47:24                                              |                                            | AUGUST               | 0:11:25      |
|                                           |                                                     |                                                     | 0:05:42                                                |                                                     |                                                     |                                                                                |                                                      |                                            | NOVEMBER             | 0:01:10      |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     | 1:57:44                                                                        |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:02:43                                   |                                                     |                                                     |                                                        |                                                     |                                                     | 0:14:33                                                                        |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            | DECEMBER             | 0:03:54      |
|                                           |                                                     |                                                     | 0:00:15                                                |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     | 0:03:38                                                                        |                                                      | 0:00:52                                    | JANUARY              | 0:00:35      |
|                                           |                                                     |                                                     | 0:00:21                                                |                                                     |                                                     |                                                                                |                                                      |                                            | FEBRUARY             | 0:00:08      |
|                                           |                                                     |                                                     | 0:00:52                                                |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                | 0:04:18                                              |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     | 0:08:36                                                                        |                                                      |                                            | MARCH                | 0:00:47      |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      | 0:00:37                                    | April                | 0:00:04      |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     | 0:00:00                                                                        |                                                      |                                            |                      |              |
| 2:49:06                                   | 8:39:15                                             | 2:29:16                                             | 2:31:56                                                | 22:19:06                                            | 21:53:57                                            |                                                                                |                                                      |                                            | May                  | 1:30:10      |
| 1:17:39                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:01:44                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:49:45                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:22:11                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:38:52                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 2:02:41                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
| 0:10:32                                   |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     | 0:02:55                                                                        |                                                      |                                            |                      |              |
|                                           | 0:33:24                                             |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |
|                                           |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      | 0:15:37                                    |                      |              |
| <b>9:11:21</b>                            | <b>8:39:15</b>                                      | <b>2:29:20</b>                                      | <b>2:39:22</b>                                         | <b>22:19:06</b>                                     | <b>21:53:57</b>                                     | <b>2:27:25</b>                                                                 | <b>8:06:35</b>                                       | <b>1:01:30</b>                             | <b>Total</b>         | <b>#REF!</b> |
| <b>1655</b>                               | <b>539</b>                                          | <b>1875</b>                                         | <b>1842</b>                                            | <b>209</b>                                          | <b>213</b>                                          | <b>165</b>                                                                     | <b>1586</b>                                          | <b>961</b>                                 | <b>9045</b>          |              |
| NUMBER OF CONSUMERS BY CIRCUIT            |                                                     |                                                     |                                                        |                                                     |                                                     |                                                                                |                                                      |                                            |                      |              |

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

SAIDI = STANDARD AVERAGE INTERRUPTION DURATION

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

