

Liberty Utilities Reliability Reporting Workshop for 2025 Calendar Year

December 10, 2025



Agenda

- System Overview
- Key Utility Initiatives
- Reliability Performance
- Questions







Service Territory Overview

- Purchased NV Energy's (SPPCo)
 California service territory in 2011
- 1,476 square miles; 49,165 customers
- Two office locations: South Lake Tahoe and Tahoe Vista
- Pay \$2.8 million in annual property taxes and franchise fees in 7 counties
- Approximately 130 employees currently
- Regulated by the California Public Utilities Commission (CPUC)
- Winter Peaking Utility





Service Territory Overview

- 1,880 miles Distribution lines
 - 1,400 Overhead (O/H)
 - 480 Underground (U/G)
- 12 Substations
- 2 Solar Farms
 - Luning: 50 MW generation
 - Turquoise: 10 MW generation





97% Residential, 3% Commercial



Where Does The Power Come From

2024 POWER CONTENT LABEL Liberty Utilities (CalPeco Electric) LLC						
	General System Mix					
Greenhouse Gas Emissions Intensity (lbs of CO ₂ e emitted per megawatt hour)	602	359				
Electricity Sources Renewables and Zero-Carbon Resources Fossil Fuels and Unspecified Power						
RPS Eligible Renewables	36%	45% 2% 5%				
Biomass & Biogas	0%					
Geothermal	17%					
Eligible Hydroelectric	0%	2%				
Solar	19%	23%				
Wind	0%	14%				
Large Hydroelectric	0%	10%				
Nuclear	0%	11%				
Emerging Technologies	0%	0%				
Other	0%	0%				
Natural Gas	0%	10%				
Coal & Petroleum	0%	2%				
Unspecified Power (primarily fossil fuels)	64%	22%				
Total	100%	100%				
Retail sales covered by retired unbundled RECs	3%					

[■] This label does not reflect compliance with the Renewables Portfolio Standard (RPS), which measures the use of tracking instruments called Renewable Energy Credits (RECs) over the course of multi-year compliance periods. RECs that are purchased separately from the renewable energy ("Unbundled RECs") can be used for RPS compliance, but they do not factor into the power mixes or GHG emissions intensities above.

- GHG intensity figures exclude biogenic CO₂ and emissions from geothermal sources and grandfathered imports of firmed-and-shaped energy. For detailed information about all GHG emissions from California's retail electricity suppliers, visit the CEC webpage at the link below.
- Unspecified power is electricity purchased from a genericized pool on the open market.

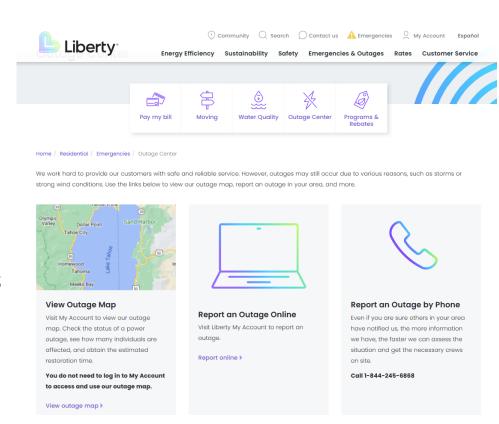
https://california.libertyutilities.com/

Want to learn more? Visit https://www.energy.ca.gov/progr ams-and-topics/programs/powersource-disclosure-program



Factors for Customer Satisfaction

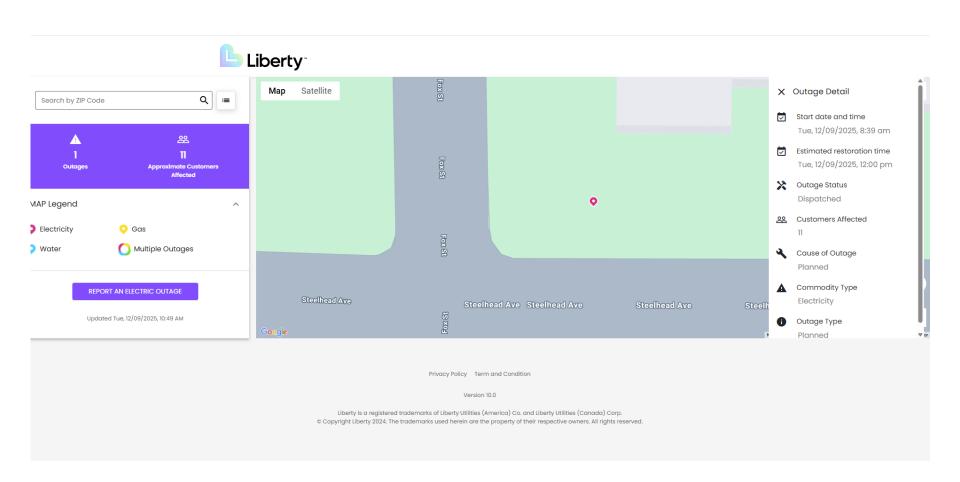
- Reliability
- > Safe Service
- Outage Notifications





Outage Reporting and Tracking

Please Call 1-800-782-2506





Customer Notifications

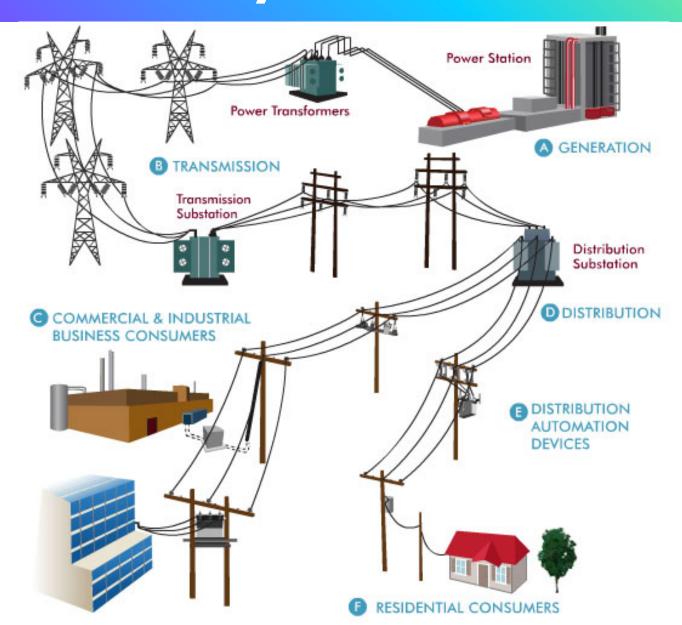








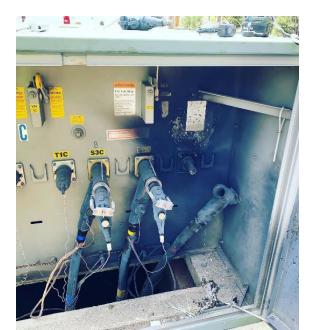
Power System Overview





Power Outage Causes

- Weather (wind, snow, ice build up, lightning)
- Animals (birds, squirrels, snakes)
- Third Party Damage (motor vehicle accident)
- Equipment Failure (cable faults, transformer)
- Vegetation (trees, wildfire)
- Loss of Source Power from transmission provider









Momentary vs. Sustained



Momentary

Outages that are less than or equal to 5 minutes in duration

Ex: Tree branches contact a power line, burns the branch clear, and the circuit recloses automatically

Sustained

Outages that are greater than 5 minutes in duration

Ex: Tree falls through the power line and must be removed before re-energizing the line



Planned vs Major Outages

<u>Planned Outage</u>

- Outages where a customer or public official has made a request, or Liberty has provided notification
- These are excluded from reliability metrics

Major Event

 Institute of Electrical and Electronic Engineers (IEEE) standard 1366– 2012, a set of outages that exceed the historically expected outage duration (SAIDI) for at least one day





Measuring Reliability

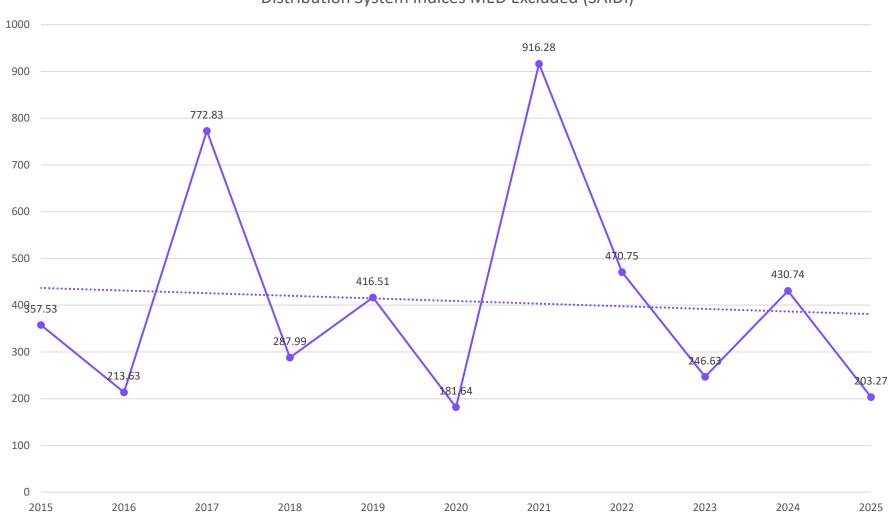
Every outage is analyzed to determine the following metrics:

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\textbf{SAIDI} = \frac{Total\ of\ Customer\ Interruption\ Durations}{Total\ number\ of\ customers\ served}
SAIFI = \frac{Total \ Number \ of \ Customers \ Interrupted}{Total \ number \ of \ customers \ served}
\textbf{CAIDI} = \frac{Total \ Customer \ Interruption \ Durations}{Total \ Number \ of \ Customer \ Interruptions}
                  Tot.No.of Customer Momentary Interruptions
                           Total number of customers served
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SAIDI System Performance

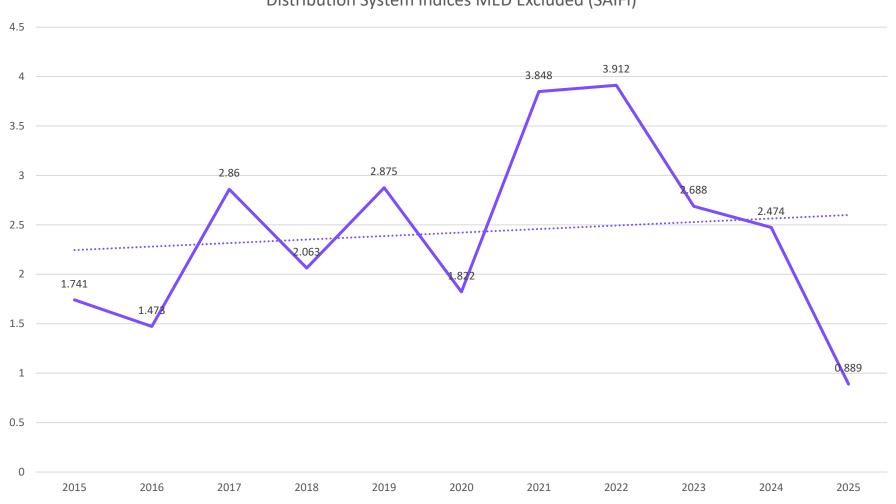
Distribution System Indices MED Excluded (SAIDI)





SAIFI System Performance

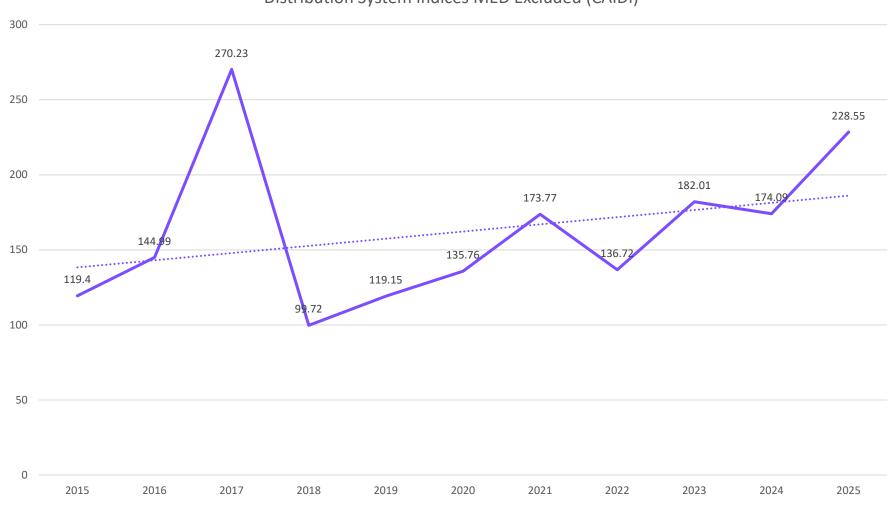






CAIDI System Performance

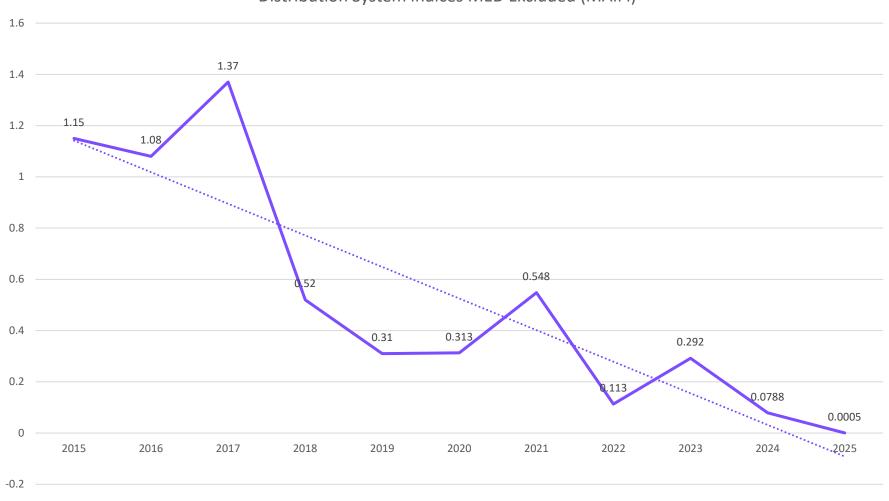






MAIFI System Performance







Worst Performing Circuits

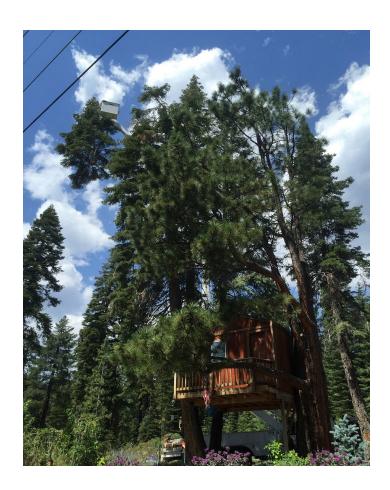
Circuit	Customers	Substation	Circuit Miles	ОН	UG	Circuit Outages	Circuit SAIDI	Circuit SAIFI
7201	743	Squaw Valley	18.1	66%	34%	7	914.7	1.67
7202	151	Truckee	13.04	93%	7%	6	639.8	1.15

Analysis of worst performing circuits excludes planned and Major Event outages.

The preferred metric for this analysis is the 3 year average circuit level SAIDI in order to account for population discrepancies between urban and rural circuits.



Reliability Improvements

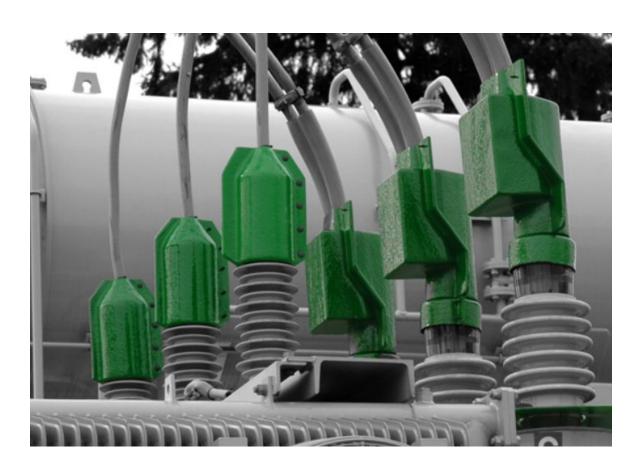




Vegetation Management program: ~\$10 million per year Pole replacements: ~1000 poles in 2025



Improved Animal Protection



Precision fit animal guards have been installed into our substations to prevent wildlife outages. 20



Wildfire Mitigation Plans

Several projects are underway to reduce fire risk



Some Projects include:

- Advanced weather monitoring
- Covered Conductor
- Expulsion fuse replacement
- Additional recloser and fault indicator installations

Thank you

Email: PowerQuality@libertyutilities.com

Or call Customer Service at 1-800-782-2506

