



July 15, 2025

Leuwam Tesfai
Deputy Executive Director, Energy and Climate Policy
California Public Utilities Commission
505 Van Ness Ave.
San Francisco, CA 94102
leuwam.tesfai@cpuc.ca.gov

Re: 2024 Annual Electric Distribution Reliability Report, D. 16-01-008

Dear Leuwam Tesfai:

Pursuant to the California Public Utilities Commission (Commission) Decision (D.) 16-01-008, "Updating the Annual Electric Reliability Reporting Requirements for California Electric Utilities," Bear Valley Electric Service, Inc. (BVES) submits herewith its 2024 Annual Electric Distribution Reliability Report (Report).

BVES provides electric service to approximately 24,746 customers in the mountain resort community of Big Bear Lake, California. BVES owns and operates 86.8 miles of overhead 34.5 kilovolt sub-transmission, 2.7 miles of 34.5 kilovolt underground sub-transmission, 488.6 miles of overhead distribution, 86.4 miles of underground distribution, 13 sub-stations and a natural gas-fueled 8.4 MW peaking generation facility. The BVES service area is rural and mountainous and is served predominantly from overhead facilities.

This Report follows the Reliability Reporting Template provided in Appendix B to D.16-01-008. BVES notes that due to the small size and geography its service territory, BVES does not subdivide its distribution system and/or service territory into Divisions (or Districts); therefore, Division (or District) reliability indices are not reported separately. BVES does not operate and maintain any transmission systems; therefore, transmission system indices are not included in this Report. The BVES distribution system consists of three (3) sub-transmission circuits (34.5 kV) and twenty-three (23) distribution circuits (4.160 kV). These circuits are all included in the System reliability indices calculations.

Pursuant to D.16-01-008, information on the number, date, and location of planned outages is provided under seal in a separate report to the Directors of the Energy Division and the Safety and Enforcement Division.

Sincerely,

/s/ Jeff Linam
Jeff Linam
Manager Regulatory Affairs

Bear Valley Electric Service, Inc. 630 East Foothill Blvd. San Dimas, CA 91773

c. Gabriel Petlin, Energy Division <u>gabriel.petlin@cpuc.ca.gov</u>
David K Lee, Energy Division <u>david.lee@cpuc.ca.gov</u>

Bear Valley Electric Service, Inc. (BVES) 2024 Annual Electric Reliability Report

(D.16-01-008, Updating the Annual Electric Reliability Reporting Requirements for California Electric Utilities)

July 15, 2025

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Sections correspond to Reliability Reporting Template provided in Appendix B to D.16-01-008.

GENERAL

Bear Valley Electric Service, Inc. (BVES) submits its 2024 Reliability Report in compliance with the Commission D.16-01-008, "Updating the Annual Electric Reliability Reporting Requirements for California Electric Utilities." Reliability indices reported herein are determined by following the methodology provided by the Institute of Electrical and Electronic Engineers (IEEE) Standard 1366-2012.

The report consists of the following sections:

Section	<u>Description</u>
1	System Indices (2015-2024)
2	Division (or District) Reliability Indices (2015-2024)
3	System Indices Including Planned Outages
4	Service Territory Map
5	Top 1% of Worst Performing Circuits (WPC)
6	Top 10 Major Unplanned Power Outage Events (2024)
7	Summary List of Major Event Day (2024)
8	Historical Ten Largest Unplanned Outage Events (2015-2024)
9	Customer Inquiries

BVES does not operate and maintain any transmission systems; therefore, transmission system indices are not included in this report. The BVES distribution system consists of three (3) subtransmission circuits (34.5 kV) and twenty-three (23) distribution circuits (4.160 kV). These circuits are all included in the System reliability indices calculations.

Due to the small size and geography of the BVES Service Territory, BVES does not sub-divide its distribution system into Divisions (or Districts); therefore, Division (or District) reliability indices are not reported separately. BVES records reliability indices at the System and Circuit level only.

SECTION 1 System Indices (2015-2024) ¹

Table 1 lists Distribution System Indices (MED Excluded): BVES includes in its distribution system subtransmission circuits (3) that operate at 34.5 kV and distribution circuits (23) that operate at 4.160 kV.

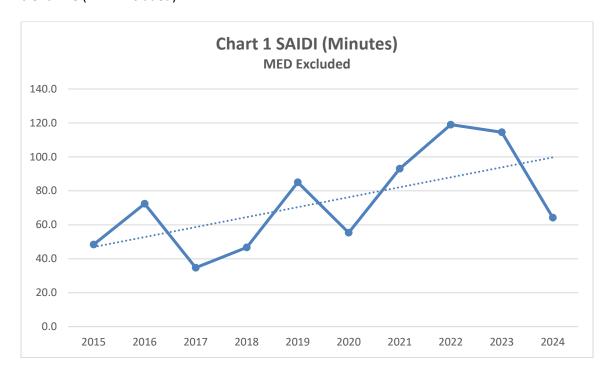
Table 1	Table 1: MED Excluded									
Year	SAIDI (Minutes)	SAIFI	MAIFI	CAIDI (Minutes)						
2015	48.4	0.8	0.3	61.2						
2016	72.4	0.8	0.0	91.7						
2017	34.7	0.6	0.1	57.9						
2018	46.7	0.4	0.1	103.7						
2019	85.0	0.7	0.0	127.4						
2020	55.3	0.6	0.0	94.5						
2021	93.1	1.5	0.0	61.5						
2022	119.0	3.8	0.1	31.1						
2023	114.5	1.9	0.0	60.9						
2024	64.2	0.8	0.0	84.1						

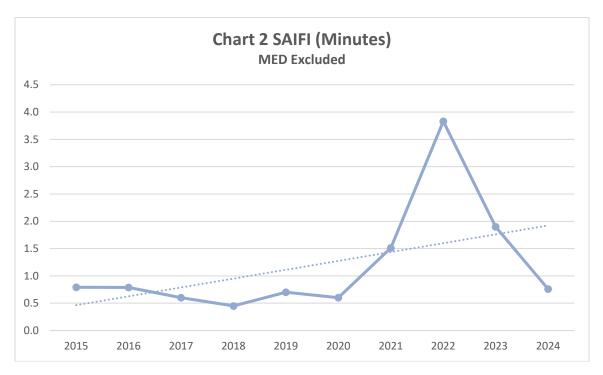
Table 2 lists Distribution System Indices (MED Included).

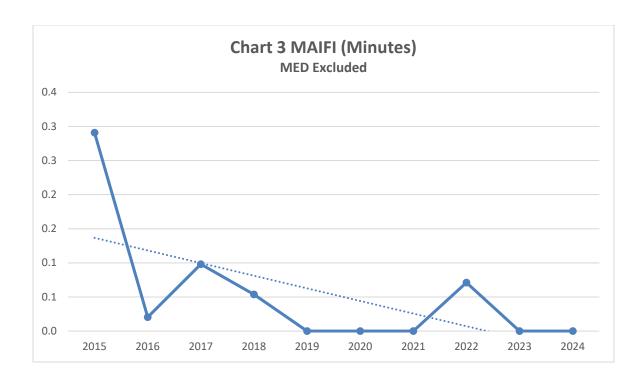
Table 2	Table 2: MED Included										
Year	SAIDI (Minutes)	SAIFI	MAIFI	CAIDI (Minutes)							
2015	198.2	2.8	0.3	71.6							
2016	323.6	2.5	1.3	129.0							
2017	80.1	1.1	2.7	73.7							
2018	181.8	2.1	1.1	84.9							
2019	258.8	1.9	0.0	127.4							
2020	425.4	4.6	0.0	94.5							
2021	398.3	5.7	0.0	70.4							
2022	1075.6	16.6	0.1	64.6							
2023	271.6	3.3	0.0	82.0							
2024	101.0	1.0	0.0	106.6							

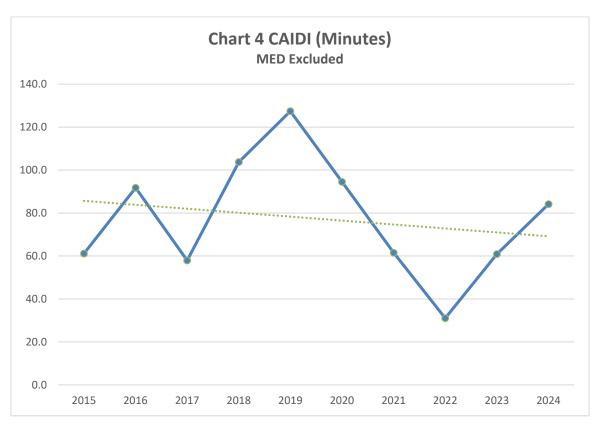
¹ Calculations based on the IEEE 1366-2012 method.

Charts 1 through 4 provide line graphs of SAIDI, SAIFI, MAIFI and CAIDI for the past 10 years with linear trend line (MED Excluded).

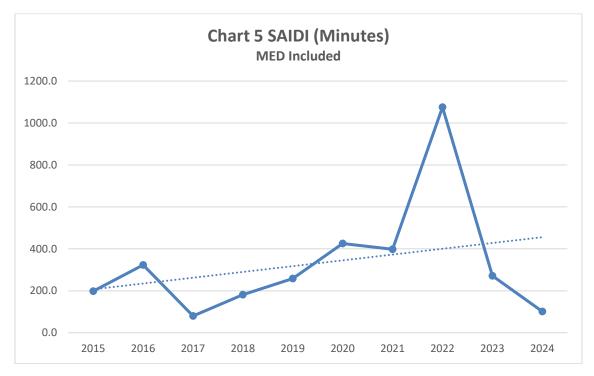


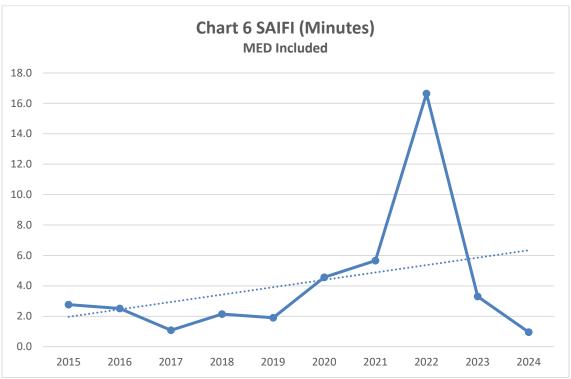


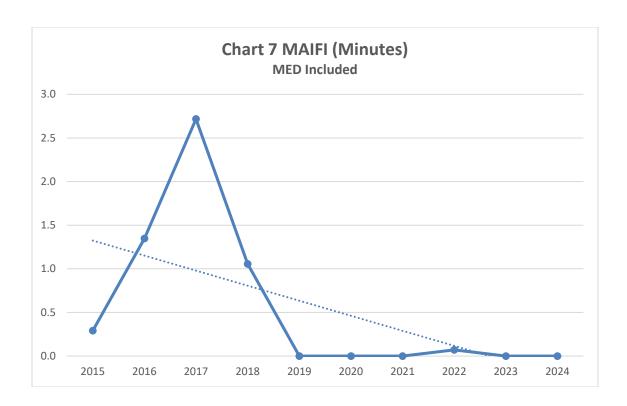


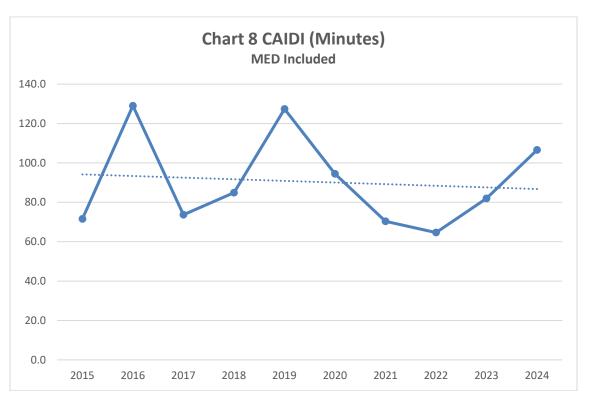


Charts 5 through 8 provide line graphs of SAIDI, SAIFI, MAIFI and CAIDI for the past 10 years with linear trend line (MED Included).







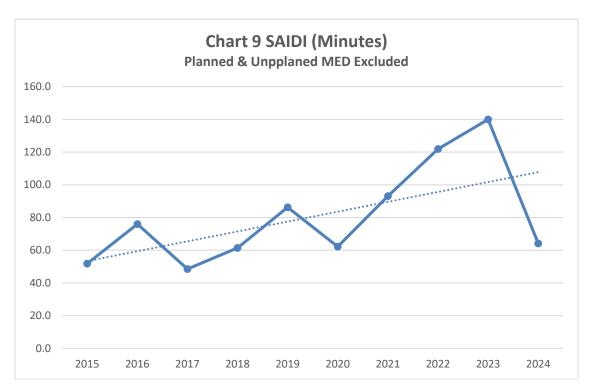


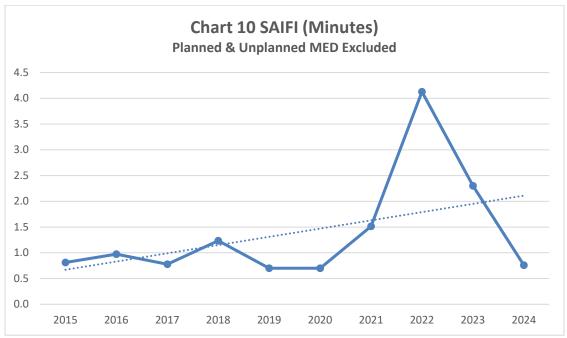
Division (or District) Reliability Indices (2015-2024)

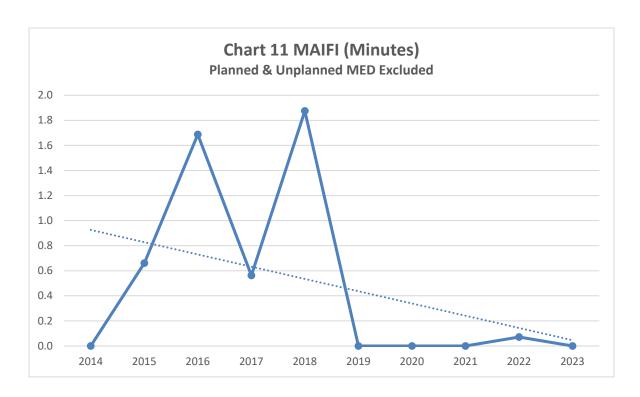
Due to the relatively small size and geography of the BVES Service Territory, BVES does not sub-divide its system into Divisions (or Districts); therefore, Division (or District) Reliability Indices are not reported separately in this report. Section 1 of this report provides BVES System reliability indices in tabular and chart format (MED Included and Excluded).

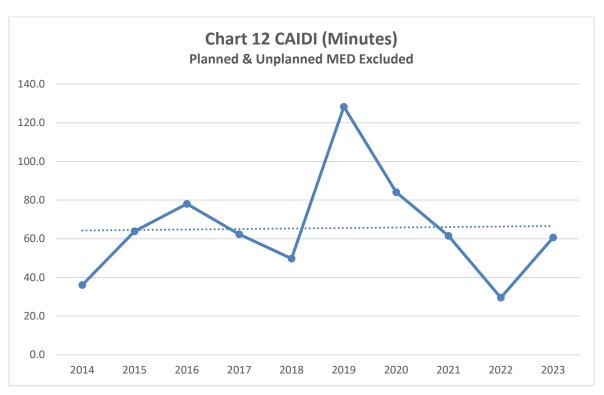
SECTION 3System Indices Including Planned Outages

Charts 9 through 12 provide line graphs of SAIDI, SAIFI, MAIFI and CAIDI for the past 10 years with linear trend line for planned and unplanned outages (MED Excluded).

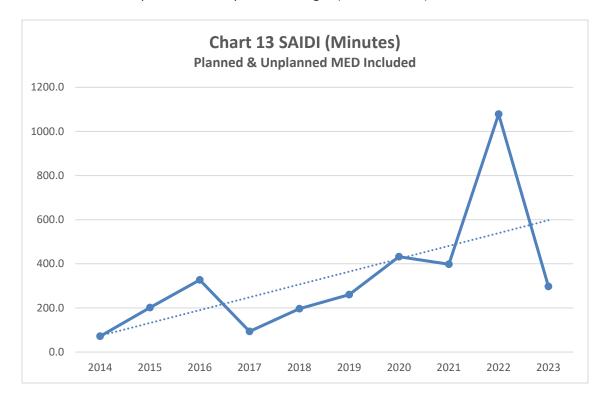


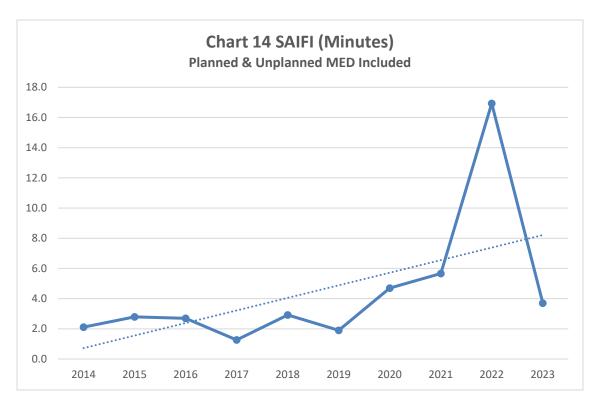


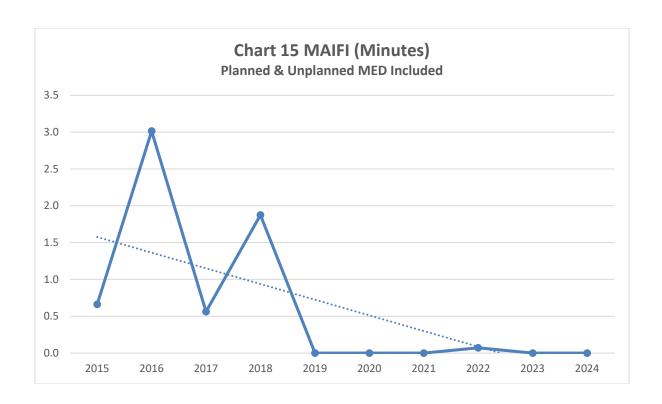


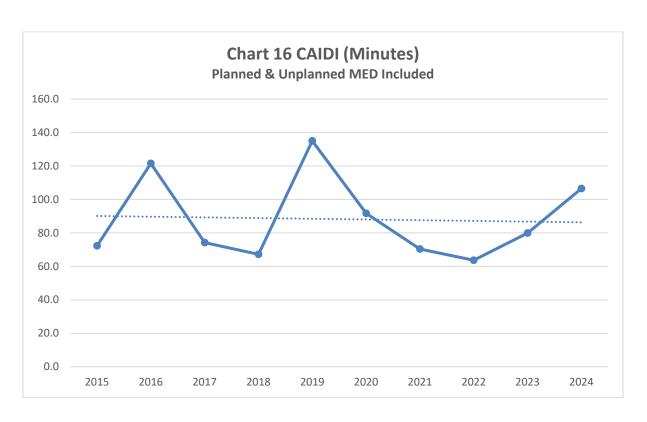


Charts 13 through 16 provide line graphs of SAIDI, SAIFI, MAIFI and CAIDI for the past 10 years with linear trend line for planned and unplanned outages (MED Included).





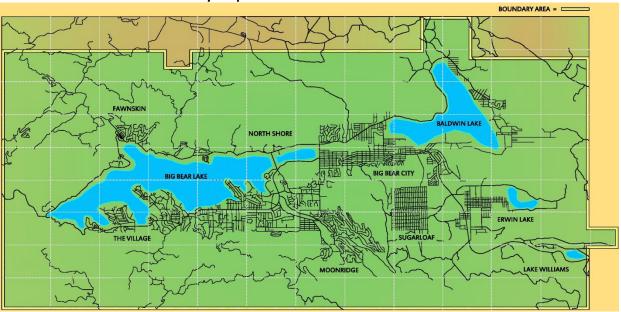




Service Territory Map

BVES provides electric service to approximately 24,753 customers in the mountain resort community of Big Bear Lake, California. BVES owns and operates 86.8 miles of overhead 34.5 kilovolt sub-transmission, 2.7 miles of 34.5 kilovolt underground sub-transmission, 488.6 miles of overhead distribution, 86.4 miles of underground distribution, 13 sub-stations and a natural gas-fueled 8.4 MW peaking generation facility. The BVES service area is rural and mountainous and is located in the San Bernardino Mountains of Southern California, 80 miles east of Los Angeles. The BVES Main Office is located at 42020 Garstin Dr., Big Bear Lake, CA 92315.

Below is the BVES Service Territory Map:



Top 1% of Worst Performing Circuits (WPC)

Table 3 lists the Top 1% of WPCs, which for BVES is 1 circuit.

Table 3: Top 1	Table 3: Top 1% of Worst Performing Circuits (WPC)											
				Number of Mainline Preferred Reliability Metrics					trics			
		Customer		Circuit-			SAIDI- SAIDI 1YR SAIFI-3YR SAIFI-1Y				SAIFI-1YR	
Reporting Year	Circuit	Count	Substation	miles	% UG	% ОН	Sustained	Momentary	3YR	Period	Period	Period
2024	Baldwin	11620	SCE Goldhill Ute Lines	9.44	5.5	94.5	0	0	689.2	0	11.2	0

The Baldwin Circuit (34.5 kV) made the WPC list due to it having the highest 3-year SAIDI, which is the preferred metric for evaluating circuit reliability. This circuit improved on both SAIDI and SAIFI in 2024. The circuit did not have any outages in 2024 but it still has the highest 3-year SAIDI because of multiple large outages in previous years.

To improve Baldwin Circuit reliability, BVES has been working on converting bare wire to covered wire and changing wood poles for steel poles to help harden the circuit.

The <u>Preferred Metric</u> for evaluating WPC is to evaluate the circuit SAIDI over a 3-year period (SAIDI-3YR Period), which is reported in Table 3. This method involves the summation of sustained outages (>5 minutes) over the previous 3 years divided by the customer count on the circuit for that period. BVES also evaluates circuit SAIFI calculated over a 3-year period SAIFI-3YR as well as circuit SAIDI and SAIFI calculated over a 1-year period. These values are also reported in Table 3.

WPC Process Evaluation

BVES's WPC program uses a top-down, system-wide approach to assess reliability trends and requirements of its 26 circuits. This approach employs a long-term and short-term analysis process. The WPCs are determined based upon at least the past three years of average duration of outages and average frequency of outages reliability statistics. BVES reviews these reliability performance metrics (SAIDI, SAIFI, MAIFI, and CAIDI) for each circuit using the following quantitative and qualitative analysis process:

- Reliability performance metrics for each circuit are calculated over a 3-year period (e.g., metrics reported for 2024 include outage data from 2022-2024, metrics reported for 2024 include outage data from 2022-2024, etc.). Four basic comparisons are then made with the results and the top 3 WPCs are selected:
 - The circuit reliability metrics based on a 3-year period are compared to the 10-year reliability metrics based on 3-year period averages for each circuit.
 - The circuit reliability metrics based on a 3-year period are compared to the service area reliability metrics for the reported year.
 - The circuit reliability metrics based on a 3-year period are compared to reliability metrics for the other circuits in the reported year.

- Trends for each circuit are analyzed looking at the last 10 years of circuit reliability metrics based on a 3-year period.
- Reliability performance metrics for each circuit are calculated over a 1-year period. Four basic comparisons are then made with the results and the top 3 WPCs are selected:
 - The circuit reliability metrics based on a 1-year period are compared to the 10-year reliability metrics based on 1-year period averages for each circuit.
 - The circuit reliability metrics based on a 1-year period are compared to the service area reliability metrics for the reported year.
 - The circuit reliability metrics based on a 1-year period are compared to reliability metrics for the other circuits in the reported year.
 - Trends for each circuit are analyzed looking at the last 10 years of circuit reliability metrics based on a 1-year period.
- The results are then reviewed and a detailed analysis is performed for each circuit to determine the driver(s) of the results. The results using the 3-year periods are given more weight but the results using the 1-year period are also checked to determine if there is an emerging reliability issue that may be addressed sooner than waiting 3 years for the data to collect. Based on this analysis, the WPC for the reported year is selected.
- BVES management also reviews the outage log monthly so that any emergent issues at the circuit level may be detected and more urgent action taken if warranted.

Once a WPC is designated for the reporting year, the BVES Planning Group reviews the mitigation projects and/or maintenance actions necessary to bring the WPC's reliability performance to at least the 10-year system average and determines the cost of mitigation measures. Further analysis is performed to take into consideration impact on rates and budgets (capital and operations and maintenance (O&M)), the number of customers affected, the benefit to the affected customers, the benefit to the customer base, and the safety and reliability risks and consequences of not taking any action. This process takes about a year and generally work orders are developed to be executed in the following year. Hence, for a WPC identified in 2024, it might take BVES until 2026 to execute the improvement project. It should be noted that reliability projects that require substantial investment such as substation reconstruction may require more time to garner California Public Utilities Commission (CPUC) approval through the General Rate Case (GRC) process or Advice Letter process depending on when the project must be executed.

The BVES service area is rural and mountainous and is served predominantly from overhead facilities. Therefore, circuit hardening projects, projects to install monitoring instrumentation, and projects to install automatic circuit sectionalizing equipment generally will produce increased reliability.

Despite the top-down approach, BVES is also sensitive to its customer service requirements. Thus, BVES maintains the flexibility to take action on recurring customer reliability issues. BVES frequently reviews the outage logs and looks for repeated outages to an individual customer or small groups of customers.

Such occurrences are then referred to the BVES Planning Group to determine if and what mitigation action is necessary.

Top 10 Major Unplanned Power Outage Events (2024)

Table 4 lists the Top 10 major unplanned power outage events within the reporting year (2024) including (a) the cause of each outage event and (b) the location of each outage event.

Table 4:	Table 4: Top 10 Major Unplanned Power Outages (2024)										
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out (minutes)	Event SAIDI (minutes)	Cause				
3/9/24	SCE Goldhill Ute Lines	Baldwin	24753	149	3645988	149.3	Loss of Supply - SCE				
3/16/24	Boulder	40191 Big Bear Bl x Talmadge	2046	1336	812800	33.3	Third Party - Car Hit Pole/Guy				
2/6/2024	Goldmine	Moonridge x Sheephorn	2051	556	621551	25.4	Contact - Vegetation Weather				
2/7/24	Boulder	39372 Big Bear Bl	1500	307	460500	18.9	Contact - Vegetation Weather				
2/6/2024	Sunset	Sugarloaf	1905	122	232410	9.5	Equipment Failure - Conuctor Failure				
2/6/2024	Radford	Converse Flats	3455	38	131290	5.4	33kV Bear Valley Line relayed and did not test.				
10/31/2024	Shay	34kV Switzerland PS3469IR	3801	21	79821	3.3	Equipment Failure - Other				
4/29/04	North Shore	4kV NorthShore, Fawnskin Su	1521	48	73008	3	Unknown				
7/8/24	Garstin	Summit x Switzerland	1069	87	48607	2	Contact - Wire to wire slap				
2/6/2024	North Shore	North Shore Dr west of west I	250	192	48000	2	Equipment Failure - Conuctor Failure				

The BVES Service Area did not have any outages due to any wildfires during 2024. No Public Safety Power Shutoffs were conducted by BVES during 2024.

Summary List of Major Event Days (2024)

Table 5 provides a summary list of Major Event Days (MED per IEEE 1366) and includes (a) the average number of customers without service for each MED; (b) the cause of each ME (Major Event); and (c) the location of each MED.

Table 5: Su	Table 5: Summary List of Major Event Days (MED) (2024)									
Date	Affected Circuit		Average Number of Customers	Event SAIDI	Cause					
3/9/24	Baldwin	Service Area Wide	24753	149.3	Loss of supply- SCE-Fault occurred in SCE's Goldhill Substation					
2/6/2024	Shay	Moonridge x Shee	6000	42.8	Third Party - Car Hit Pole/Guy- Car hit guy wire and cracked the pole. Additionally broke a 34kv crossarm two spans away.					

Historical Ten Largest Unplanned Outage Events (2015-2024)

Table 6 provides a summary list of the historical ten largest unplanned outage events for each of the past 10 years (2015-2024).

Table 6: Top 10 Major Unplanned Outages Last 10 Years (2015-2024)

2024	2024										
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out (minutes)	Event SAIDI (minutes)	Cause				
3/9/24	SCE Goldhill Ute Lines	Baldwin	24753	149	3645988	149.3	Loss of Supply - SCE				
3/16/24	Boulder	40191 Big Bear Bl x Talmadge	2046	1336	812800	33.3	Third Party - Car Hit Pole/Guy				
2/6/2024	Goldmine	Moonridge x Sheephorn	2051	556	621551	25.4	Contact - Vegetation Weather				
2/7/24	Boulder	39372 Big Bear Bl	1500	307	460500	18.9	Contact - Vegetation Weather				
2/6/2024	Sunset	Sugarloaf	1905	122	232410	9.5	Equipment Failure - Conuctor Failure				
2/6/2024	Radford	Converse Flats	3455	38	131290	5.4	33kV Bear Valley Line relayed and did not test.				
10/31/2024	Shay	34kV Switzerland PS3469IR	3801	21	79821	3.3	Equipment Failure - Other				
4/29/04	North Shore	4kV NorthShore, Fawnskin Su	1521	48	73008	3	Unknown				
7/8/24	Garstin	Summit x Switzerland	1069	87	48607	2	Contact - Wire to wire slap				
2/6/2024	North Shore	North Shore Dr west of west l	250	192	48000	2	Equipment Failure - Conuctor Failure				

2023	2023										
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out (minutes)	Event SAIDI (minutes)	Cause				
6/19/23	Baldwin	Service Area Wide	24257	230	3099526	126.9	Loss of supply- SCE-Fault occurred in SCE's Goldhill Substation				
7/9/23	Shay	896 Clubview Dr	15000	61	2408400	98.6	Third Party - Car Hit Pole/Guy- Car hit guy wire and cracked the pole. Additionally broke a 34kv crossarm two spans away.				
7/22/23	Shay	Service Area Wide	16599	89	1477311	60.5	Equipment Failure - Sensing equipment failed causing an imbalance.				
11/19/23	Baldwin	2 spans e/o Bear Loop	1212	1140	922212	37.8	Third Party- Car Hit Pole				
9/16/23	Baldwin	Fawnskin Substation	8700	79	546915	22.4	Contact - Animal- Hawk contacted Baldwin 34kv line at Fawnskin Substation.				
2/21/23	Sunset	600 block of Orange s/o Bart	1629	180	293220	12.0054	Contact - Wire to wire slap- Wind event caused primary wire to slap.				
12/22/23	Boulder	Village Substation	3437	81	235276	9.6	Equipment Failure - Other- 34kv Radford opened for unknown reason. Switch failed to put load over to Shay line.				
8/30/23	Interlaken	Club View Dr	3014	81	186854	7.6	Third Party - Other- Contracted crews contacted phases on Interlaken circuit.				
12/25/23	Erwin Lake	1208 Big Bear Blvd	1000	121	121000	7.506732	Equipment Failure - Connector - Bad connector in transformer located near Big Bear Blvd and Barranca.				
2/21/23	North Shore	Rim of the World 1/4 mile beyond pavement	1353	687	169164	6.9	Overload- Lightning-Lightning strike				

2022							
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out (minutes)	Event SAIDI (minutes)	Cause
11/8/22	Baldwin	Service Area Wide	24257	211	16373115	663.01	Loss of supply- SCE-Large winter storm took down many trees on lines which cause SCE to drop BVES because of mulitple interuptions.
9/11/22	Baldwin	Bear Mtn. Substation	12152	89	1570748	63.61	Animal -Rats in Bear Mtn. substation chewed throung lines in transformer
7/22/22	Baldwin	Service Area Wide	20296	59	1537166	62.9367	Loss of supply-SCE substation opened and reclosed causeing Baldwin IR to trip due to overcurrent
10/22/22	Baldwin	Moonridge Rd x Cedar	10964	78	1364592	55.26	Third Party- Car Hit Pole: car hit pole caused wire to slap together
8/25/22	Baldwin	Service Area Wide	15263	46	760726	34.51	Unknown-possible animal contact: FLISR PS3435IR Hwy 18 x Hugo opened 1300A ground fault
7/31/22	Baldwin	North Shore & Hugo	16509	47	817923	33.49	Contact- animal, Bird into lines (Baldwin 34KV out from IR3435 North Shore & Hugo)
9/9/22	Baldwin	Service Area Wide	20296	31	782634	31.69	Uknown-(suspected wind)
2/2/22	Eagle	210 N. Eureka	959	45	328190	13.44	Contact-Vegetation Weather:Large tree (on line) / due to windy conditions
6/22/22	Goldmine	Moonridge Substation	2660	92	244720	10.01965	Overload- Lightning-Lightning strike
11/21/22	Erwin Lake	Lake Williams area	2015	92	185380	7.506732	Contact-Other: Contracted crew caused outage. Pulling in rope, rope got caught on truck and caused circuit to open beyond Willow st. AR1128

2021							
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out (minutes)	Event SAIDI (minutes)	Cause
12/14/2021	Baldwin	BVES System	19409	67	1300403	124.7	Loss of supply- SCE : Loss of power supply from Southern California Edison.
6/2/2021	Shay	BVES System	15467	76	1175492	50.04	Unknown : Suspected animal contact, 2 patrols were inconclusive and cause is unkown.
3/5/2021	Shay	1033 Clubview	9627	123	1184121	48.12098	Animal: A Blue Heron flew into the 34kV Line making a phase to phase contact causing an AR to trip.
7/30/2021	Baldwin	BVES System	9698	83	804934	46.25	Overload- Lightning: Lightning strike on the 34kv Line causing an AR/Switch to trip.
10/28/2021	Baldwin	BVES System	11305	85	960925	39.05062	Unknown: No cause found. 34 kV Baldwin AR tripped. Line was patrolled and found no apparent cause.
10/27/2021	Clubview	Elm/La Celena	1698	101	171498	15.52	Contact-Vegetation Weather: Tree branch fell on cicuit and made phase to phase contact causing an AR to trip.
7/18/2021	Sunrise	329 Pine Ln	2706	85	230010	15.16	Overload- Lightning: Lightning strike on the 34kv Line causing an AR/Switch to trip.
10/25/2021	Baldwin	200' n/o Meadow on Michael	11305	32	361760	14.70141	Contact-Vegetation Weather: Tree branch fell on 34kv lines and made phase to phase contact causing an AR to trip.
9/8/2021	North Shore	Fawnskin Sub, North Shore circuit	1523	136	207128	13.06	Unknown: No cause found. 4kv North Shore AR tripped. Line was patrolled and found no apparent cause.
12/14/2021	North Shore	Fawnskin Substation	800	268	214400	8.778251	Contact-Vegetation Weather: Tree branch fell on cicuit due to heavy snowload causing the AR to trip.

2020								
Date	Affected Circuit	Location	Number of Customers	Outage Duration (minutes)	Customer Minutes Out	Event SAIDI (minutes)	Cause	
11/9/20	Baldwin	BVES System	20932	117	2449044	116.3	Contact: Remote Control Plane was caught in 34 kV Lines on Cougar Rd. 34 kV Baldwin AR tripped.	
9/14/20	Baldwin	BVES System	9512	33	313896	103.0	Equipment Failure: 34 kV Line riser connector failed.	
11/4/20	Baldwin	BVES System	24335	96	2336160	95.4	Unknown: No cause found. 34 k Baldwin AR tripped. Patrolled twice and found no apparent cause.	
12/27/20	Shay	Fox Farm Road & Big Bear Boulevard, Big Bear Lake, CA	11420	115	1313300	53.6	Equipment Failure: UG to OH connector failed.	
5/25/20	Paradise	520 East Big Bear Boulvard, Big Bear city, CA	1085	85	92225	5.2	Third Party: Car hit pole damage pole and caused wires to slap, which resulted in AR@Maltby Substation to trip.	
10/24/20	Lagonita	39582 Forest Road, Big Bear Lake, Ca	1000	59	59000	3.5	Animal: An owl flew into the 4 I making phase to phase contact causing AR145 to open.	
9/26/20	Boulder	714 Talmage Road, Big Bear Lake, Ca	2000	28	56000	2.3	Contact: Primary phase to phase was was made - cause unknown	
11/16/20	Country Club	West Country Club Boulevard, Big Bear City, CA	825	41	33825	2.2	Unknown: Unknown cause. Country Club OCB at Division Substation tripped. Flashing fault indicator at P.S.923 one Ø only. Panel indicated phase to ground fault. Patrolled circuit and found no cause. Re-energized OCB and it held on test.	
9/8/20	Clubview	562 South Lucerne Drive & Villa Grove Avenue, Big Bear Lake, CA	1140	46	52440	2.1	Third Party: Mylar Balloons in Primary Wire	
12/5/20	Pioneer	Boron Lane & Baldwin Lake Road, Big Bear Lake, CA	400	126	50400	2.1	Overload: Overloaded fuse TripSaver.	

2019										
Date	Date Affected		Location	Number Custome	Duia	tion	Custom Minutes (minute	Out	Event SAIDI (minute:	
2/14/19 No		Bear Valley Clubview, h Shore, dise, & tin	Various	9,5	74 Vari	ous	2,657,850 109.		109.08	Weather: Major snow storm caused multiple outages.
Shay		, Boulder, nita, & ish	Village Dr/Penns ylvania	13,0	68 Vari	ous	1,976,520 81.		81.12	Equipment Failure: Failure connection at riser (OH to UG)
Garst 12/17/2019 Glen		h Shore, tin, Castle , Erwin Lake, omb, and dise	Various	9,7	9,781 Various		502,530		20.62	Equipment Failure: Baldwin AR tripped due to failed UG cable feeding Division Substation.
2/4/2019 Boulde		der	Big Bear Blvd/Lark Rd	1,4	57 Vari	ous	462,840 19		19.00	Weather: Major snow storm caused tree to fall across span causing a large outage.
10/29/19	10/29/19 Erwin La		Unknown	Unknown 2,53		180	455	5,940 18.71		Unknown: No cause found after two thorough patrols
11/27/19 SCE Line		ear Valley of AR 3470		3,4	03 123		418	3,569 17.18		Loss of Supply: Damage to SCE lines due to snow storm
1/19/2019 Bou		der		3,0	00 Vari	ous	342	2,000 14.04		Equipment Failure: Failed voltage regulator
9/20/19	Sunr	ise	Baldwin Ln/Hwy 38	1,5	06	180	271	271,080 11.3		Fourinment Failure: Failed
11/14/201	19 Inter	laken & win		2,4	03 Various		181	181,750		Animal: Crow contacted 34 kv outside of Fawnskin substation
2/2/2019	Holc		Mound/ North Shore	1,5	1,587 60		95,220		3.91	Weather: Primary wire wrapped together due to storm
2018			•	•						
Date	Affected Circuit	Location		umber of ustomers	Outage Duration (minutes)		omer Minutes t (minutes)		t SAIDI nutes)	Cause
9/19/18	Shay	Various		12,381	Various		1,448,607	1,448,607 5		Equipment Failure: Termination on pole dip to underground failed.
8/27/18	Shay	Various	s		13,030 89		1,159,670		1.13	Equipment Failure: Termination on pole dip to underground failed.
3/22/2018	Shay	584 Elm St., Big Be	4 Elm St., Big Bear Lake		93		673,890	73,890 27.74		Weather: Winter storm high winds caused tree branch fall across 34.5kV lines.
1/30/2018	Erwin Lake	217 Greenspot Blvd., Big Bear City		482	Various		342,451	14.09		Third Party: Car hit pole.
12/31/18	Eagle Georgia	Pineknot Substation		622	Various		298,380	17 787		Equipment Failure: Substation voltage regulator failed and required replacement.
12/6/18	Eagle	Big Bear Blvd & Eureka Dr., Big Bear Lake		900	203		182,700	7 52		Weather: Winter storm heavy snow storm caused tree branch to fall across 4kV lines.
2/9/2018	Bear City	Michael Ave. & W. Meadow Lane, Big Bear City		1,587			139,656	į	5 75	Unknown: Possible over current - cause investigated but not determined.
11/25/18	North Shore	YMCA Camp Whitt Fawnskin	ile,	93			61,600		2.54	Third Party: Car hit pole.
12/29/2018	Goldmine	Moonridge Substation, Big Bear Lake 300 180		54,000	2.22 Otl		Other: Over current requiring refusing at substation.			
7/19/2018	SCE Goldhil Ute Lines	Service Area Wide		24,335	1	24,335		1		Supply: SCE's 115 kV line to Lugo Substation relayed causing the SCE Goldhill Switch Station to open and reclose for one cycle resulting in short loss of supplies.

2017									
2017				Outage					
Date	Affected Circuit	Location	Number of Customers	Duration (minutes)	Customer Minutes		Event SAIDI		Cause
		Location	customers	(minutes)	Out (minutes)		(minutes)		Supply: Loss of Southern California Supply sub-
6/19/2017 to 6/24/2017	Various	Various	Various	Various	11,952,		498.56		transmission line (34.5 kV) from Lucerne Valley due to Holcomb Fire.
1/20/17	Baldwin	Meadow, Division, Bear City, Maltby, Fawnskin, and Lake Substations	11,305	90	1,017,450		42.44		Weather: High winds caused Baldwin sub-transmission line to open.
8/7/2017	Garstin	42134 Big Bear Boulevard, Big Bear Lake		93	209,715		8.75		Weather: PMS 3407 opened due to lightening strike.
2/18/17	Clubview	987 Clubview Drive (at Pole 8105BV), big Bear 1,698 Lake		120	203,760		8.50		Weather: High winds caused tree branch fall across 34.5kV and 4kV lines.
4/21/2017	SCE Goldhill Ute Lines	Southern California Edison's Cottonwood Substation	20,932	3	62,796		2.62		Supply: Fault at Southern California Edison Cottonwood Substation.
11/8/2017	Radford	Knickerbocker Road (P.S. 3459), Big Bear Lake	3,600	15	54,000		2.25		Equipment Failure: Pole Switch rod failed during field switching operations.
1/22/17	Goldmine	43607 Sand Canyon road, Big Bear Lake	100	500		50,000	2.09		Weather: High winds caused tree branch fall across primary and secondary lines.
1/20/17	Maple	555 Spruce Lane, Big Bear City	100	405		40,500	1.69		Weather: High winds caused tree branch fall across primary and secondary lines.
		Moonridge Substation,							Other: Contractor inadvertently de-energized 4 kV
12/14/2017	Clubview	Big Bear Lake	1,120	30		33,600	1.40		switch position at Moonridge Sub-station while performing equipment testing for maintenance.
7/21/2017	Big Bear Boulevard Boulder (West of Skyline Trail), Big Bear Lake		200	164		32,800		1.37	Weather: High winds caused tree to fall across primary lines.
2016									
				Number o	Outage Duration		omer es Out	Event SAIDI	
Date	Affected Circu			Customer 9,711	Duration	(min	utes)	(minutes)	Cause
1/7/2016	Shay		Southern rim of Bear Valley			971,		40.7	Weather: Major winter snow storm. Weather: Extremely high winds blew broken branch into
3/11/2016 1/31/2016	Shay		Southeastern rim of Bear Valley		100	971, 824,		40.7	34kV Line.
1/7/2016	Clubview	gonita 40174 Lakeview Dr., Big Bear Lake, CA ubview Moonridge area, Big Bear Lake, CA		800 1,140	1,030 435			34.5 20.8	Third Party: Car Hit pole shearing pole. Weather: Major winter snow storm.
3/28/2016	Shay	Elm St. & Peregrine Ave, Big Bear Lake, CA		9,711	47	47 456,		19.1	Weather: Wind storm caused tree branch to fall across two line phased causing short-circuit relay.
1/13/2016	Shay	Southern rim of Bear Valley		7,781	57	57 443,		18.6	Equipment Failure: Transformer at Pineknot Substation faulted and failed.
1/6/2016 1/6/2016	Clubview Boulder	Moonridge area, Big Bear Lake, CA		1,900 2,000			433,200 328,000		Weather: Major winter snow storm. Weather: Major winter snow storm.
1/13/2016	Georgia	Central Big Bear Lake area, Big Bear Lake, CA Pineknot Substation, Big Bear Lake, CA		965		311 300,		13.7	Equipment Failure: Transformer at Pineknot Substation
12/16/2016	_	304 Big Bear Blvd., Big Bear Lake, CA		542		490 265,		11.1	faulted and failed. Weather: Tree top broke of and fell into overhead circuit
	. dradise	Joe and Star Strain, Sign	edi Edile, e.i	3.2	150	200,	.500	11.1	lines taking down wire and crossarm.
2015					Outage	Custo	mor	Event	
Date	Affected Circu	uit Location		Number of Customer	f Duration	Minut	Customer Minutes Out (minutes)		Cause
6/12/2015	Baldwin	Baldwin connected load - Big Bear Lake, CA		9,678	182	1,76	1,396	74.2	Weather: Lightning storm moving through the service area.
6/12/2015	Shay	Shay connected load - ex Big Bear Lake, CA		13,311	81	1,078,		45.4	Weather: Lightning storm moving through the service area.
6/13/2015	Shay & Baldwin	System-wide connected unknown. Big Bear Lake,		22,989	29	666	,681	28.1	Weather: Lightning storm moving through the service area.
10/13/2015	Baldwin	929 Michael Ave., Big Be	ear City, CA 92314	6,533	49	320	,117	13.5	Vegetation: Large tree limb fell onto 33KV and then contacted 4kV.
10/13/2015	Garstin	929 Michael Ave., Big Be		2,900	76	220	,400	9.3	Vegetation: Garstin tripped when Baldwin tripped due to large tree limb falling onto 33KV and then contacted 4kV.
4/7/2015	Boulder	SCE's Bear Valley 33kV s Line)		2,000	80	160	,000	6.7	Weather: SCE experienced an outage on the Bear Valley 33kV supply line (Radford Line) due to high winds.
4/7/2015	Lagonita	SCE's Bear Valley 33kV s Line)	upply line (Radford	1,400	80 112		,000	4.7	Weather: SCE experienced an outage on the Bear Valley 33kV supply line (Radford Line) due to high winds.
10/13/2015	Bear City	929 Michael Ave., Big Be	ear City, CA 92314	1,320	76 100,		,320	4.2	Vegetation: Bear City tripped when Baldwin tripped due to large tree limb falling onto 33KV and then contacted 4kV.
10/13/2015	Division	929 Michael Ave., Big Be		825	90	74,	250	3.1	Vegetation: Division tripped when Baldwin tripped due to large tree limb falling onto 33KV and then contacted 4kV.
6/12/2015	Erwin	Maltby Substation, S/E C and Shore Dr., Big Bear C	City, CA 92314	1,000	53	000	2.2	Weather: Lightning storm moving through the service area.	
12/21/2015	Goldmine	Intersection of Wolf Rd. Bear Lake, CA 92315	and Alameda Rd., Big	150	150 228			1.4	Equipment Failure: Overloaded line segment.

Customer Inquiries

Table 7 provides a summary list of customer inquiries on reliability data and the number of days per response (average response time) for the reporting year (2024).

Table 7: Summary of Customer Inquiries 2024						
Number of Customer Inquiries	Average Response Time (days)					
0	NA					