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25-01001

Public Utilities Commission of Nevada
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In accordance with NRS Chapter 719,
this filing has been electronically signed and filed
by: /s Lynn DIInnocenti

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July 3, 2025

Ms. Trisha Osborne
Assistant Commission Secretary
Public Utilities Commission of Nevada
1150 E. William Street
Carson City, NV 89701-3109

Re: Docket No. 25-01001: Report of Reliability Statistics

Dear Ms. Osborne:

Nevada Power Company d/b/a NV Energy ("Nevada Power") and Sierra Pacific Power Company d/b/a NV Energy ("Sierra Pacific" and, collectively, "NV Energy") hereby file the attached monthly Distribution Reliability Report with the Commission. The statistics are a monthly calculation of:

- System Average Interruption Duration Index ("SADI");
- System Average Interruption Frequency ("SAIFI");
- Customer Average Interruption Duration Index ("CAIDI"); and
- Momentary Average Interruption Frequency Index ("MAIFI").

In compliance with the Commission's December 31, 1998 Order in Docket No. 98-7023, NV Energy furnishes these statistics to the Regulatory Operations Staff of the Commission. In order to make these statistics available to members of the public, NV Energy is filing them in the Commission's annual outage and incident report docket.

If you have any questions, please do not hesitate to contact me at (775) 834-5793 or michael.knox@nvenergy.com.

Sincerely,

/s/ Michael Knox
Michael Knox
Senior Attorney

Monthly Distribution Reliability Report



June 2025





Definitions

Outage – Also known as service interruption; complete loss of service to the customer.

Customer Outage Hours – Also known as customer hours; the number of customers affected by an outage multiplied by the duration of the outage.

Customers Affected – The number of customers affected by an outage.

Sustained Outage – Outage with a duration of greater than 5 minutes.

Momentary Outage – Outage with a duration of 5 minutes or less.

Major Event Day (MED) – A Major Event Day is a threshold defined by the IEEE Standard 1366 that disqualifies a day from reporting due to the severity of the event (i.e. Severe weather conditions or state of emergency).

Significant Event Day – A Significant Event Day is a day in which the daily system SAIDI exceeds a threshold, which is set lower than the threshold of a Major Event Day. These events are still included in the underlying SAIDI reporting and are meant to highlight events that significantly impacted reliability performance.

NET – Sustained outages that were not planned, did not occur on a Major Event Day (MED), did not contain the cause codes fire suppression, fire encroachment or load shedding, and did not occur on a distribution circuit while it was in elevated fire risk (EFR) mode.

GROSS – Includes all sustained outages.

Distribution (D) – The electric distribution network is a power delivery system consisting of cables that deliver electric power from its point of generation to the end users.

Substation (S) – Substations transform voltage from high to low, or the reverse, or perform any of several other important functions.

Transmission (T) – Electric power transmission is the bulk movement of electrical energy from a generating site, such as a power plant, to an electrical substation.

System Average Interruption Duration Index (SAIDI) – The average duration of outages for the entire customer population, generally reported in minutes.

System Average Interruption Frequency Index (SAIFI) – The average frequency of outages for the entire customer population.

Customer Average Interruption Duration Index (CAIDI) – The average restoration time of an outage, generally reported in minutes.

Average Service Availability Index (ASAI) – The average amount of time service is available to the customer, generally reported as a percentage.

NV Energy South – Southern Nevada service territory.

NV Energy North – Northern Nevada service territory.



Distribution Reliability Report June 2025

	YTD Actual (Net)	YTD Actual (Gross)
NV Energy		
SAIDI (Sys. Avg. Interruption Duration Index)	37.69	56.05
SAIFI (Sys. Avg. Interruption Frequency)	0.372	0.514
CAIDI (Customer Avg. Interruption Duration Index)	101	109
ASAI (Average Service Availability Index)	99.9855%	99.9785%
NV Energy South		
SAIDI (Sys. Avg. Interruption Duration Index)	23.95	30.76
SAIFI (Sys. Avg. Interruption Frequency)	0.260	0.301
CAIDI (Customer Avg. Interruption Duration Index)	92	102
ASAI (Average Service Availability Index)	99.9908%	99.9882%
NV Energy North		
SAIDI (Sys. Avg. Interruption Duration Index)	75.90	126.38
SAIFI (Sys. Avg. Interruption Frequency)	0.683	1.107
CAIDI (Customer Avg. Interruption Duration Index)	111	114
ASAI (Average Service Availability Index)	99.9709%	99.9515%

Note: Calculations for SAIDI and CAIDI are reported in terms of minutes.

Composite Electric (Net)_{TSD}

Top 25 Outage Causes

Cause	Rolling 24 Month Rank	Rolling 24 Month Customer Hours	Rolling 24 Month SAIDI Contribution	2025 Rank	2025 YTD Customer Hours	2025 YTD SAIDI Contribution
Unknown	1	447,527	12.55%	4	70,553	7.42%
Conductor/Wire Down	2	428,635	12.02%	1	148,303	15.59%
Cable	3	326,899	9.17%	2	91,399	9.61%
Vehicle	4	275,659	7.73%	8	44,785	4.71%
Birds/Animals	5	251,160	7.04%	5	63,609	6.69%
Transformer	6	200,018	5.61%	3	73,293	7.71%
Pole Fire	7	158,586	4.45%	6	53,852	5.66%
Storm in Area	8	145,993	4.09%	7	49,798	5.24%
Structure	9	112,286	3.15%	9	37,733	3.97%
Other	10	110,833	3.11%	10	33,838	3.56%
Breaker/Recloser	11	95,806	2.69%	26	7,048	0.74%
Trees	12	87,319	2.45%	13	23,074	2.43%
Switch/Fuse Cabinet	13	75,737	2.12%	15	19,668	2.07%
Splice	14	65,117	1.83%	12	30,236	3.18%
Dig-In	15	64,047	1.80%	31	4,566	0.48%
Terminator	16	60,955	1.71%	18	11,630	1.22%
Balloon	17	60,402	1.69%	14	22,238	2.34%
Debris - Wind	18	54,867	1.54%	25	7,318	0.77%
Vandalism	19	50,880	1.43%	16	14,535	1.53%
Hardware/Materials	20	44,205	1.24%	33	4,336	0.46%
Stinger/Jumper	21	41,687	1.17%	11	30,320	3.19%
Lightning	22	39,901	1.12%	43	401	0.04%
Switch	23	28,893	0.81%	35	3,623	0.38%
Cutout/Fuse	24	28,568	0.80%	20	9,665	1.02%
Phases Connecting - Wind	25	26,897	0.75%	36	2,553	0.27%

	2025 YTD Customer Hours	2025 YTD ASAI	Rolling 24 Month Customer Hours	Rolling 24 Month ASAI
Electric Network	951,055	99.9855%	3,565,621	99.9863%

Composite Electric (*Net*)_D

Top 25 Distribution Circuits by Customer Outage Hours

Circuit	Substation	Region	Area	Rolling 24 Month Rank	Rolling 24 Month Customer Hours	Rolling 24 Month SAIDI Contribution	2025 Rank	2025 YTD Customer Hours (Net)	2025 YTD SAIDI Contribution
SSP-272	SPANISH SPRINGS	North	Reno/Washoe	1	62,746	2.23%	221	453	0.06%
VAL-262	VALLEY ROAD	North	Reno/Washoe	2	44,549	1.58%	34	5,951	0.85%
STM-212	STEAMBOAT	North	Reno/Washoe	3	42,823	1.52%	13	10,876	1.56%
SLK-257	SILVER LAKE	North	Reno/Washoe	4	41,173	1.46%	20	7,275	1.04%
TE-1209	TENAYA	Ryan	Las Vegas	5	38,511	1.37%	377	99	0.01%
STM-213	STEAMBOAT	North	Reno/Washoe	6	35,158	1.25%	1	29,520	4.22%
VAL-249	VALLEY ROAD	North	Reno/Washoe	7	33,222	1.18%	22	7,054	1.01%
MNV-2501	MASON VALLEY	Northwest	Yerington	8	32,279	1.15%	90	1,931	0.28%
PA-1204	PAWNEE	Ryan	Las Vegas	9	30,362	1.08%	44	4,366	0.62%
CUR-1280	CURRY ST.	Northwest	Carson	10	29,288	1.04%	223	446	0.06%
NLV-1210	NORTH LAS VEGA	Ryan	North Las Vegas	11	28,324	1.01%	72	2,485	0.36%
MTR-282	MT ROSE	North	Reno/Washoe	12	25,991	0.92%	2	23,745	3.40%
AIR-265	AIRPORT	North	Reno/Washoe	13	25,816	0.92%	8	12,724	1.82%
RB-1215	RAINBOW	Ryan	Las Vegas	14	24,749	0.88%	138	1,074	0.15%
AR-1215	ARTESIAN	Ryan	Las Vegas	15	23,477	0.83%	188	579	0.08%
SIL-1211	SILVER SPRINGS	Northwest	Yerington	16	23,439	0.83%	280	281	0.04%
WN-1211	WASHINGTON	Ryan	Las Vegas	17	23,276	0.83%	157	808	0.12%
RDM-2220	ROUND MOUNTAIN	Northeast	Tonopah	18	22,886	0.81%	53	3,903	0.56%
MIR-2504	MIRA LOMA	North	Reno/Washoe	19	22,620	0.80%	14	9,061	1.30%
SLK-258	SILVER LAKE	North	Reno/Washoe	20	21,160	0.75%	18	7,633	1.09%
BLV-282	BELLA VISTA	North	Reno/Washoe	21	21,065	0.75%	6	13,836	1.98%
BLV-284	BELLA VISTA	North	Reno/Washoe	22	21,042	0.75%	5	13,928	1.99%
INC-4200	INCUNE	Northwest	North Lake Tahoe	23	20,589	0.73%	4	14,931	2.14%
PAT-226	PATRICK	North	Reno/Washoe	24	20,249	0.72%	7	13,464	1.93%
SLK-255	SILVER LAKE	North	Reno/Washoe	25	20,217	0.72%	154	851	0.12%

	2025 YTD Customer Hours	2025 YTD SAIDI	Rolling 24 Month Customer Hours	Rolling 24 Month SAIDI
Distribution Network	699,182	99.9894%	2,815,097	99.9892%

Composite Electric (*Net*)_s

Top 20 Substations by Customer Outage Hours

Substation	Region	Area	Rolling 24 Month Rank	Rolling 24 Month Customer Hours	Rolling 24 Month SAIDI Contribution	2025 Rank	2025 YTD Customer Hours	2025 YTD SAIDI Contribution
SKELTON	Ryan	Las Vegas	1	61,272	12.86%	1	46,182	32.97%
PINENUT	Northwest	Carson	2	37,049	7.78%	3	14,456	10.32%
WHITNEY	Beltway	Las Vegas	3	27,349	5.74%	NR	-	0.00%
SILVER SPRINGS	Northwest	Yerington	4	23,508	4.93%	NR	-	0.00%
EL CAPITAN	Ryan	Las Vegas	5	21,262	4.46%	2	21,262	15.18%
ADOBE	Northeast	Elko	6	18,677	3.92%	5	7,048	5.03%
MISSION	Beltway	Henderson	7	17,241	3.62%	NR	-	0.00%
BATTLE MOUNTAIN	Northeast	Battle Mtn.	8	16,971	3.56%	NR	-	0.00%
MAYFAIR	Ryan	Las Vegas	9	16,648	3.49%	4	13,111	9.36%
PRINCE	Ryan	Las Vegas	10	16,313	3.42%	11	3,209	2.29%
VEGAS	Ryan	Las Vegas	11	16,237	3.41%	NR	-	0.00%
TENAYA	Ryan	Las Vegas	12	16,163	3.39%	NR	-	0.00%
HIGHLAND	North	Reno/Washoe	13	15,734	3.30%	17	842	0.60%
NORTH WEST	North	Reno/Washoe	14	15,674	3.29%	NR	-	0.00%
HEYBOURNE	Northwest	Carson	15	15,620	3.28%	6	6,568	4.69%
LONELY	Northeast	Fallon	16	14,445	3.03%	NR	-	0.00%
CABANA	Beltway	Las Vegas	17	12,069	2.53%	NR	-	0.00%
PEARL	Beltway	Las Vegas	18	11,273	2.37%	NR	-	0.00%
CLAYMONT	Ryan	Las Vegas	19	9,338	1.96%	NR	-	0.00%
MINDEN	Northwest	Carson	20	9,022	1.89%	7	5,291	3.78%

	2025 YTD Customer Hours	2025 YTD ASAI	Rolling 24 Month Customer Hours	Rolling 24 Month ASAI
Substation Network	140,072	99.9979%	476,474	99.9982%

Composite Electric (*Net*)_T

Top 20 Transmission Lines by Customer Outage Hours

Circuit	Region	Area	Rolling 24 Month Rank	Rolling 24 Month Customer Hours	Rolling 24 Month SAIDI Contribution	2025 Rank	2025 YTD Customer Outage Hours	2025 YTD SAIDI Contribution
627 Buckeye-Pinenut	Northwest	Minden	1	56,471	20.61%	1	41,736	37.33%
Laughlin-River Road 69kV	Beltway	Southern Nevada	2	30,535	11.14%	3	14,726	13.17%
647 Battle Mtn-Reese River	Northeast	Battle Mountain	3	19,108	6.97%	7	4,826	4.32%
Carey-Washington-Winterwood 69kV	Ryan	Southern Nevada	4	18,764	6.85%	2	18,764	16.78%
Clark-Green Valley-Wigwam 138kV	Beltway	Southern Nevada	5	18,561	6.77%	NR	-	0.00%
652 Oreana-Lovelock	Northeast	Yerington	6	17,548	6.40%	NR	-	0.00%
512 Hawthorne-Railroad-Kinkaid- Rawhide-Scheelite-Luning-Mina	Northeast	Hawthorne	7	13,662	4.99%	NR	-	0.00%
193 Sugarloaf-Silver Lake	North	Reno	8	13,421	4.90%	4	13,421	12.00%
Artesian-Mayfair 69kV	Ryan	Southern Nevada	9	9,837	3.59%	NR	-	0.00%
194 Dunn Glen-Winnemucca	Northeast	Winnemucca	10	9,218	3.36%	NR	-	0.00%
623 Battle Mtn-Reese River	Northeast	Battle Mountain	11	9,172	3.35%	6	4,882	4.37%
104 Valley Road-Spanish Springs	North	Reno	12	7,604	2.77%	NR	-	0.00%
615 Lahontan-Ragtown-26' Drop- Ray Couch-Fallon	Northeast	Fallon	13	7,308	2.67%	NR	-	0.00%
1100 Battle Mountain-Izenhood	Northeast	Reno	14	5,997	2.19%	5	5,997	5.36%
614 Lahontan-Fallon	Northeast	Fallon	15	5,330	1.94%	NR	-	0.00%
Clark-Hacienda-Lamb-Pearl-San Francisco 69kV	Beltway	Southern Nevada	16	5,225	1.91%	NR	-	0.00%
641 Wadsworth-Empire	Northeast	Fallon	17	3,021	1.10%	NR	-	0.00%
670 Buckeye-Heybourne	Northwest	Tonopah	18	2,931	1.07%	NR	-	0.00%
653 Winnemucca-Dutch Flat	Northeast	Winnemucca	19	2,185	0.80%	8	2,185	1.95%
Clark-Hacienda-Lamb-Pearl-San Francisco 69kV	Ryan	Southern Nevada	20	2,094	0.76%	NR	-	0.00%

	2025 YTD Customer Hours	2025 YTD SAI	Rolling 24 Month Customer Hours	Rolling 24 Month SAI
Transmission Network	111,800	99.9983%	274,050	99.9989%

NV Energy South 2025

5 YEAR MONTHLY ACTUALS TSD NET

ASAI (Average Service Availability Index)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	99.995%	99.992%	99.989%	99.987%	99.992%	99.990%						
2024	99.990%	99.992%	99.993%	99.992%	99.989%	99.989%	99.980%	99.990%	99.994%	99.993%	99.986%	99.994%
2023	99.987%	99.988%	99.995%	99.990%	99.991%	99.989%	99.984%	99.983%	99.990%	99.994%	99.994%	99.993%
2022	99.993%	99.996%	99.991%	99.991%	99.987%	99.992%	99.986%	99.983%	99.991%	99.992%	99.989%	99.990%
2021	99.991%	99.985%	99.990%	99.989%	99.990%	99.985%	99.979%	99.993%	99.994%	99.992%	99.997%	99.996%

Percent of Customers Experiencing Service Interruptions

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	2.13%	3.71%	5.15%	5.21%	4.45%	5.34%						
2024	4.30%	2.70%	3.05%	2.71%	5.16%	5.59%	10.18%	4.50%	2.45%	3.18%	5.96%	2.75%
2023	5.15%	4.79%	2.43%	5.19%	4.92%	3.96%	5.02%	6.97%	4.22%	2.37%	2.92%	3.10%
2022	2.77%	1.65%	4.40%	4.01%	5.05%	4.60%	6.11%	7.49%	4.58%	2.99%	3.59%	3.90%
2021	4.24%	7.62%	4.95%	6.32%	3.74%	6.31%	8.31%	2.97%	3.06%	3.01%	2.37%	1.41%

Customer Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	38,675	60,363	89,510	106,114	67,063	82,777						
2024	84,525	59,362	57,327	61,719	86,379	87,648	164,079	77,498	48,148	59,759	108,396	45,189
2023	106,594	87,631	41,566	74,947	69,820	86,865	126,127	136,188	81,171	44,963	49,470	57,011
2022	53,893	31,240	67,993	70,345	104,183	64,750	107,797	131,035	70,240	59,573	82,491	77,017
2021	66,155	102,963	74,296	84,381	75,886	114,208	165,985	50,550	48,927	65,151	24,928	30,215

Customers Affected

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	23,681	41,312	57,292	58,004	49,594	59,491						
2024	46,632	29,336	33,217	29,492	56,301	61,026	111,386	49,361	26,897	34,963	65,576	30,296
2023	54,925	51,122	26,028	55,580	52,796	42,543	53,902	75,035	45,506	25,555	31,560	33,552
2022	29,149	17,410	46,426	42,314	53,466	48,732	64,784	79,469	48,641	31,828	38,203	41,611
2021	43,992	79,185	51,623	65,728	38,940	65,827	86,694	31,048	31,972	31,532	24,820	14,788

Number of Outages

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	118	209	223	185	263	268						
2024	175	152	218	170	237	326	482	213	187	213	158	139
2023	204	191	141	259	241	247	408	363	243	166	162	133
2022	150	125	184	228	263	296	382	311	258	177	154	155
2021	187	177	147	210	242	344	473	247	198	187	136	149

Major Event Days

Date	State	Description
2/13/2025-2/14/2025	NV	Severe windstorm

Significant Event Days

Date	State	Description	SAIDI Impact
2/7/2025	NV	Transmission pole fire	1.15
3/2/2025	NV	Balloon contact with substation equipment, downed conductor, and failed overhead equipment	1.57
4/20/2025	NV	Failed substation transformer	2.84
4/29/2025	NV	Failed substation equipment	1.24
5/17/2025	NV	Downed conductor and tree contact with overhead conductor	1.32

NV Energy North 2025

5 YEAR MONTHLY ACTUALS TSD NET

ASAI (Average Service Availability Index)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	99.994%	99.938%	99.967%	99.983%	99.954%	99.987%						
2024	99.976%	99.982%	99.981%	99.964%	99.986%	99.969%	99.964%	99.992%	99.990%	99.990%	99.983%	99.990%
2023	99.967%	99.967%	99.953%	99.979%	99.972%	99.966%	99.961%	99.964%	99.951%	99.979%	99.985%	99.984%
2022	99.985%	99.988%	99.988%	99.975%	99.968%	99.977%	99.976%	99.946%	99.970%	99.959%	99.956%	99.969%
2021	99.983%	99.994%	99.974%	99.993%	99.977%	99.944%	99.948%	99.977%	99.983%	99.990%	99.993%	99.968%

Percent of Customers Experiencing Service Interruptions

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	3.83%	20.01%	14.86%	7.78%	13.70%	8.12%						
2024	16.31%	7.96%	7.32%	10.13%	9.45%	8.28%	16.39%	3.54%	7.73%	6.86%	6.61%	3.76%
2023	11.98%	13.71%	18.80%	6.77%	9.00%	16.31%	22.83%	12.96%	19.22%	8.26%	7.48%	7.28%
2022	5.96%	4.43%	6.42%	8.43%	13.13%	11.08%	10.78%	23.57%	14.84%	14.72%	14.25%	7.15%
2021	6.05%	2.67%	7.40%	2.80%	10.61%	22.27%	16.34%	9.98%	8.98%	3.77%	4.50%	8.03%

Customer Outage Hours

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	18,730	165,600	97,263	48,483	138,036	38,440						
2024	70,908	48,966	54,695	102,439	42,669	87,398	105,350	24,814	28,912	29,465	47,706	31,082
2023	94,885	86,605	134,634	57,545	80,981	93,888	112,158	103,905	136,826	62,379	42,657	47,284
2022	43,271	30,107	35,260	68,372	90,580	63,504	70,172	154,618	83,886	118,454	122,762	90,142
2021	46,824	15,933	72,303	18,377	65,123	151,821	144,538	63,839	47,044	28,878	19,898	91,294

Customers Affected

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	15,335	80,115	59,508	31,139	54,854	32,519						
2024	64,192	31,371	28,874	40,071	37,431	32,810	65,003	14,065	30,737	27,302	26,344	14,999
2023	46,378	53,080	72,807	26,241	34,867	63,427	89,051	50,624	75,245	32,393	29,371	28,598
2022	22,804	16,971	24,641	32,360	50,481	42,605	41,507	90,929	57,326	56,914	55,135	27,676
2021	22,827	10,064	27,984	10,595	40,220	84,240	61,558	37,971	34,182	14,367	17,203	30,725

Number of Outages

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2025	145	346	283	234	351	170						
2024	173	236	258	313	202	194	251	121	122	122	138	168
2023	510	175	297	210	318	346	368	307	306	156	156	140
2022	128	118	157	302	265	303	240	385	275	219	214	262
2021	250	124	192	163	283	399	373	229	175	221	130	249

Major Event Days

Date	State	Description
3/5/2025-3/6/2025	NV	Substation equipment failure

Significant Event Days

Date	State	Description	SAIDI Impact
2/2/2025	NV	Storm in area and downed structure	10.73
4/21/2025	NV	Failed underground splice	3.35
5/12/2025	NV	Downed transmission line	11.14
5/27/2025	NV	Bird contact with substation equipment	4.31
6/2/2025	NV	Bird contact with substation equipment	3.16
6/5/2025	NV	Broken pole and lightning in area	4.09
6/10/2025	NV	Pole fire and fire encroachment	4.41
6/20/2025	NV	Proactive de-energization for wildfire mitigation	3.71