

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Evergy Metro, Inc. d/b/a Evergy)
Missouri Metro's 2024 Annual Reliability Report) File No. EO-2025-_____
Pursuant to 20 CSR 4240-23.010)

In the Matter of Evergy Missouri West, Inc. d/b/a)
Evergy Missouri West's 2024 Annual Reliability) File No. EO-2025-_____
Report Pursuant to 20 CSR 4240-23.010)

NOTICE OF COMPLIANCE FILING

COMES NOW, Evergy Metro, Inc. d/b/a Evergy Missouri Metro ("EMM") and Evergy Missouri West, Inc. d/b/a Evergy Missouri West ("EMW") (collectively, "Evergy" or the "Company") and pursuant to 20 CSR 4240-23.010 submit their respective *2024 Annual Reliability Reports* to the Missouri Public Service Commission ("Commission").

WHEREFORE, the Company submits the attached to the Commission.

Respectfully submitted,

/s/ Roger W. Steiner

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**ATTORNEY FOR EVERGY MISSOURI
METRO AND EVERGY MISSOURI WEST**

CERTIFICATE OF SERVICE

I hereby certify that a true and copy of the foregoing application was emailed on this 1st day of May 2025, to the Office of the General Counsel and the Office of the Public Counsel.

/s/ Roger W. Steiner

Roger W. Steiner



**Evergy Missouri West
2024 Reliability Performance Report**

Annual reporting completed pursuant to 20 CSR 4240-23.010

April 1, 2025

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20 CSR 4240.23.010 (1)(A), (B), (C), (D), and (3) – Reliability Statistics 2024**Table 1: Evergy Missouri West Reliability Indices**

2024		Evergy Missouri West			
Total Customers		346,863			
Adjusted	Month	SAIDI	SAIFI	CAIDI	CAIFI
	1	8.33	0.088	94.34	1.21
	2	3.84	0.073	52.54	1.11
	3	5.92	0.077	76.83	1.05
	4	15.31	0.154	99.45	1.26
	5	11.55	0.109	106.40	1.21
	6	14.63	0.113	129.84	1.22
	7	8.37	0.091	91.70	1.12
	8	11.69	0.127	92.32	1.11
	9	8.87	0.104	85.33	1.15
	10	15.17	0.154	98.79	1.12
	11	11.45	0.094	121.34	1.08
	12	3.69	0.066	55.79	1.05
	Total	118.82	1.250	95.08	1.15
Unadjusted	Month	SAIDI	SAIFI	CAIDI	CAIFI
	1	27.60	0.185	149.08	1.38
	2	3.84	0.073	52.54	1.11
	3	5.92	0.077	76.83	1.05
	4	32.43	0.271	119.87	1.25
	5	111.32	0.304	365.94	1.26
	6	25.76	0.177	145.75	1.23
	7	48.44	0.215	224.84	1.22
	8	11.69	0.127	92.32	1.11
	9	8.87	0.104	85.33	1.15
	10	15.17	0.154	98.79	1.12
	11	11.45	0.094	121.34	1.08
	12	3.69	0.066	55.79	1.05
	Total	306.18	1.847	165.66	1.20

Excludes the following 2024 storm dates from the normalized data:
Jan 9, Apr 16, Apr 24, May 19, May 20, May 25, May 26, Jun 8,
Jun 26, Jul 2, Jul 16, and Jul 31

Table 2: Evergy Missouri West 2024 MAIFI

Month	Monthly MAIFI
1	0.030
2	0.083
3	0.127
4	0.308
5	0.179
6	0.098
7	0.067
8	0.027
9	0.011
10	0.118
11	0.045
12	0.016

Table 3: Evergy Missouri West 2024 CEMI-6

Month	Monthly CEMI-6
1	0.000000
2	0.000000
3	0.000003
4	0.000415
5	0.000689
6	0.000712
7	0.000636
8	0.002937
9	0.002678
10	0.003986
11	0.004164
12	0.001759

20 CSR 4240-23.010 (6), (7) – Highest 5% SAIFI Circuits Assessment

System hardening patrols and repairs are planned to complete in the 2nd, 3rd, and 4th Quarters of 2025. For circuits where analysis is required, a systematic patrol plan is developed based on identified outage causes. When and where feasible, repairs are made during the initial patrol. Tree patrols will be performed where indicated and spot trimming performed as needed. Other maintenance, modifications, or upgrades not completed during the initial patrol will be completed by the end of the 4th Quarter of 2025. Table 4 lists circuits identified as having the highest 5% of adjusted SAIFI statistics in 2024, as outlined in 20CSR 4240.23.010 (6).

Table 4: Highest 5% SAIFI Circuits

Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
Lee's Summit	KC SOUTH #271	271012023	WPC due to poor performing lateral fuse F16447. Execute lateral hardening work order.	18.326	1,707.89
Platte City	WESTON #438	438025012	Execute mainline hardening work order on Weston – Platte City 25KV loop.	7.618	726.53
Maryville	MARYVILLE #407	407034441	Execute mainline hardening work order.	7.000	508.00
Henrietta	LEXINGTON 69KV #285	285012013	No action planned. WPC due to planned outage work improving the electric system.	6.276	541.86
Clinton	OSCEOLA #315	315012013	Execute mainline hardening work order.	5.947	811.77
Henrietta	LEXINGTON 69KV #285	285012011	No action planned. WPC due to planned outage work improving the electric system.	5.883	425.92
Platte City	POPE LANE #321	321025011	Execute mainline hardening work order on Pope Lane – Platte City 25KV loop.	5.260	651.79
Clinton	DEEPWATER #232	232012011	No action planned. WPC due to planned outage work improving the electric system.	4.999	749.80
Henrietta	NORBORNE #310	310012011	No action planned. WPC due to planned outage work improving the electric system.	4.766	206.23
St. Joseph	MUDDY CREEK #414	414012011	No action planned. WPC due to Substation incident. Repairs completed at the time of the incident.	4.581	451.10
Clinton	DEEPWATER #232	232012013	No action planned. WPC due to planned outage work improving the electric system.	4.488	689.97
Maryville	GRANT CITY #396	396012012	Execute 34KV source c407034441 mainline hardening work order.	4.481	439.02
Warrensburg	STRASBURG #360	360012011	Execute planned project for Ralph Green 34KV source.	4.456	360.64
Blue Springs	SIBLEY 161KV #351	351012012	Execute mainline hardening work order.	4.366	551.70
Henrietta	NORBORNE #310	310012012	No action planned. WPC due to planned outage work improving the electric system.	4.318	118.29
Maryville	GRANT CITY #396	396012011	Execute 34KV source c407034441 mainline hardening work order.	4.259	456.74
Lee's Summit	RALPH GREEN #326	326012011	Execute mainline hardening work order.	4.249	514.90
Maryville	PARNELL #418	418012011	Execute 34KV source c407034441 mainline hardening work order.	4.218	387.61
Warrensburg	WINDSOR #381	381012012	Execute mainline hardening work order.	4.174	485.58

Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
Lee's Summit	WESTERN ELECTRIC #376	376012041	Execute mainline hardening work order.	4.169	317.08
Trenton	BLYTHEDALE-EAGLEVILLE #216	216012012	Execute planned project for 34KV Cainsville–Ridgeway line rebuild.	4.121	487.34
Trenton	CAINSVILLE #218	218004012	Execute planned project for 34KV Cainsville–Ridgeway line rebuild.	4.067	312.94
Warrensburg	CONCORDIA 69/34KV #228	228012012	No action planned. WPC due to planned outage work improving the electric system.	4.059	274.99

20 CSR 4240-23.010 (8) – Multi-Year Worst Performing Circuit Reporting

The referenced rule requires a plan and schedule to lower SAIFI metrics on circuits that are listed on the highest 5% SAIFI list for two out of three of the preceding years. Table 5 reflects the action plans identified to lower the SAIFI metric for these circuits. Evergy engineering plans to issue corrective action work orders scheduled for completion during the 3rd and 4th Quarters of 2025. Additional patrols and root cause analysis, where required, are planned to be completed in the 4th Quarter of 2025.

Table 5: Multi-Year Worst Performing Circuit Report

Years	Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
2024 2022	Mound City	TARKIO #430	430012022	Execute mainline hardening work order on the on Tarkio – Phelps City 12KV loop.	7.431	420.48
2024 2022	Maryville	WORTH #434	434012011	Execute 34KV source c407034441 mainline hardening work order.	6.755	1,099.33
2024 2022	Mound City	Phelps City #638	638012511	Execute mainline hardening work order on the on Tarkio – Phelps City 12KV loop.	5.307	340.65