

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

In the Matter of Evergy Metro, Inc. d/b/a Evergy     )  
Missouri Metro's 2023 Annual Reliability Report     )     File No. EO-2024-\_\_\_\_\_  
Pursuant to 20 CSR 4240-23.010                     )

In the Matter of Evergy Missouri West, Inc. d/b/a     )  
Evergy Missouri West's 2023 Annual Reliability     )     File No. EO-2024-\_\_\_\_\_  
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 *2023 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 2<sup>nd</sup> day of May 2024, to the Office of the General Counsel and the Office of the Public Counsel.

*/s/ Roger W. Steiner*

Roger W. Steiner



**Evergy Missouri Metro  
2023 Reliability Performance Report**

Annual reporting completed pursuant to 20 CSR 4240-23.010

May 2, 2024

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**20 CSR 4240.23.010 (1)(A), (B), (C), (D), and (3) – Reliability Statistics 2023****Table 1: Evergy Missouri Metro Reliability Indices**

2023	Evergy Missouri Metro				
Total Customers			307,429		
Adjusted	Month	SAIDI	SAIFI	CAIDI	CAIFI
	1	5.211	0.070	74.836	0.129
	2	6.024	0.053	113.652	0.104
	3	7.439	0.075	98.610	0.136
	4	9.697	0.096	100.833	0.18
	5	6.264	0.075	83.578	0.139
	6	8.783	0.104	84.214	0.196
	7	13.785	0.123	111.933	0.228
	8	15.601	0.148	105.323	0.267
	9	5.579	0.084	66.075	0.157
	10	6.342	0.076	83.155	0.14
	11	2.516	0.039	64.424	0.075
	12	2.962	0.041	71.453	0.076
	Total	90.200	0.986	91.490	1.827
Unadjusted	Month	SAIDI	SAIFI	CAIDI	CAIFI
	1	5.211	0.070	74.836	0.129
	2	6.024	0.053	113.652	0.104
	3	7.439	0.075	98.610	0.136
	4	9.697	0.096	100.833	0.18
	5	6.264	0.075	83.578	0.139
	6	8.809	0.105	84.231	0.197
	7	308.455	0.559	551.606	1.036
	8	15.601	0.148	105.323	0.267
	9	8.135	0.095	85.846	0.176
	10	6.342	0.076	83.155	0.14
	11	2.516	0.039	64.424	0.075
	12	2.962	0.041	71.453	0.076
	Total	387.460	1.433	270.520	2.655

Excludes the following 2023 storm dates from the normalized data:  
Jun 30, Jul 5, Jul 14, Jul 15, Jul 30, Jul 31, and Sep 23

**Table 2: Evergy Missouri Metro 2023 MAIFI**

Month	Monthly MAIFI
1	0.146
2	0.226
3	0.179
4	0.217
5	0.015
6	0.037
7	0.213
8	0.377
9	0.224
10	0.103
11	0.056
12	0.077

**Table 3: Evergy Missouri Metro 2023 CEMI-6**

Month	Monthly CEMI-6
1	0.000000
2	0.000000
3	0.000000
4	0.000000
5	0.004590
6	0.031181
7	0.023888
8	0.124036
9	0.079967
10	0.117020
11	0.050873
12	0.030576

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

System hardening patrols and repairs are planned to complete in the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> Quarters of 2024. 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 4<sup>th</sup> Quarter of 2024. Table 4 lists circuits identified as having the highest 5% of adjusted SAIFI statistics in 2023, as outlined in 20 CSR 4240.23.010 (6).

**Table 4: Highest 5% SAIFI Circuits**

Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
Dodson	FOREST #31	31013014	Execute mainline hardening work order.	5.758	629.21
F&M	NORTHEAST #74	74013034	Execute mainline hardening work order.	4.984	259.73
Dodson	LEEDS #61	61013013	Execute mainline hardening work order.	4.152	230.57
Dodson	FOREST #31	31013022	Execute mainline hardening work order.	4.057	646.01
Brunswick	SOUTH WAVERLY #127	127034202	WPC due to public damaging our facilities. Repairs done at time of incident. No additional action planned.	3.882	226.65
Brunswick	GILLIAM #59	59012012	WPC due to poor performance on lateral recloser R1916275. Lateral hardening work order.	3.805	750.30
F&M	BLUE VALLEY #53	53013083	Execute mainline hardening work order.	3.760	301.20
Northland	AVONDALE #27	27012022	WPC due to planned work in the area. The planned work is complete, and the circuit is restored to normal. No additional action planned.	3.725	170.94
Brunswick	CHARITON #60	60012012	Execute mainline hardening work order.	3.558	115.55
Dodson	HICKMAN #56	56012044	Execute mainline hardening work order.	3.525	301.77
Northland	RANDOLPH #71	71012012	Execute mainline hardening work order.	3.376	172.43
Dodson	SOUTHTOWN #23	23013054	Execute mainline hardening work order.	3.270	115.39
Brunswick	GLASGOW #25	25012011	Execute mainline hardening work order.	3.269	128.62
F&M	BLUE VALLEY #53	53013074	Execute mainline hardening work order.	3.258	144.95
F&M	BLUE MILLS #79	79012031	Execute mainline hardening work order.	3.246	335.12
F&M	TROOST #139	139013021	Execute mainline hardening work order.	3.243	150.26
Dodson	SWOPE #30	30012011	Execute mainline hardening work order.	3.167	502.38
Brunswick	CHARITON #60	60012011	Execute mainline hardening work order.	3.142	88.07
Brunswick	GLASGOW #25	25012022	Execute mainline hardening work order.	3.020	71.31
Dodson	LEEDS #61	61013052	Execute mainline hardening work order.	2.833	452.21

Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
Dodson	SWOPE #30	30012022	Execute mainline hardening work order.	2.647	235.89
Brunswick	GLASGOW #25	25012021	WPC due to poor performance 3 laterals. Lateral hardening work order.	2.620	91.99
Dodson	LOMA VISTA #35	35012013	WPC due to poor performance 3 laterals. Lateral hardening work order.	2.595	300.85
Northland	RIVERSIDE #98	98012013	Execute mainline hardening work order.	2.546	226.80

## **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 3<sup>rd</sup> and 4<sup>th</sup> Quarters of 2023. Additional patrols and root cause analysis, where required, are planned to be completed in the 4th Quarter of 2023.

**Table 5: Multi-Year Worst Performing Circuit Report**

Year	Service Center	Substation	Circuit	Action Plan	SAIFI	SAIDI
2023 2022 2021	Dodson	FOREST #31	31013014	Execute mainline hardening work order.	5.758	629.21
2023 2021	Dodson	FOREST #31	31013022	Execute mainline hardening work order.	4.057	646.01
2023 2021	Dodson	SOUTHTOWN #23	23013054	Execute mainline hardening work order.	3.270	115.39
2023 2022	F&M	BLUE VALLEY #53	53013074	Execute mainline hardening work order.	3.258	144.95
2023 2021	F&M	BLUE MILLS #79	79012031	Execute mainline hardening work order.	3.246	335.12
2023 2021	Dodson	LEEDS #61	61013052	Execute mainline hardening work order.	2.833	452.21
2023 2022	Dodson	SWOPE #30	30012022	Execute mainline hardening work order.	2.647	235.89
2023 2021	Northland	RIVERSIDE #98	98012013	Execute mainline hardening work order.	2.546	226.80