

Evergy Kansas Metro
May 25th, 2024 - May 26th, 2024
Significant Event

This report has been prepared and is being submitted to comply with the Electric Reliability Requirements section 3, part N and section 6, part B of Docket 02-GIME-365-GIE.

Beginning on Saturday, May 25th at approximately 10:00 PM, storms in the service area caused numerous interruptions in Evergy Kansas Metro. Most of the interruptions occurred in areas surrounding Overland Park, Shawnee Mission, Olathe, Shawnee and Lenexa.

The peak number of customers without power occurred within the 3:00 AM hour of May 25th and totaled approximately 33,206 customers. These accumulated interruptions have been classified as an IEEE Major Event Day. In total for this event, 46,724 customers experienced sustained service interruptions.

Approximately 35,833 interrupted customers had been restored before 12:00 AM on May 27th.

Communities & Cities affected during the is event period

City or Community Affected
Baldwin
Baldwin City
Belton
Bucyrus
Cleveland
Edwardsville
Fairway
Gardner
Hillsdale
Kansas City
Lane
Leawood
Lenexa
Louisburg
Lyndon
Mapleton
Melvern
Merriam
Mission
Mission Hills
Mission Woods
Mound City
New Century
Olathe
Osage City
Ottawa
Overland Park
Paola
Pomona
Prairie Village
Princeton
Roeland Park
Shawnee
Shawnee Mission
Spring Hill
Stanley
Stilwell
Welda
Wellsville
Westwood
Westwood Hills
Williamsburg

Circuits Affected

Circuit Name	Retail Electric Customers Affected
0029012053	2,824
0051012042	2,568
0012012023	2,297
0047012012	2,181
0022012021	2,084
0082012021	1,937
0128012034	1,820
0022012022	1,746
0013012021	1,680
0019012062	1,675
0068012011	1,510
0041012012	1,405
0013012022	1,371
0068012012	1,354
0091012063	1,245
0091012014	1,185
0050012052	1,154
0022012011	769
0091012023	756
0050012081	711
0019012043	688
0108034103	656
0093012023	631
0050012023	626
0012012063	592
0047012033	506
0050012014	492
0050012072	442
0068012052	432
0012012041	387
0117012022	340
0068012021	327
0012012034	301
0050012044	295
0068012013	290
0068012054	277
0068012044	264
0091012042	251
0047012032	247
0125012021	244
0050012021	238
0091012033	237
0047012052	234
0091012054	202
0050012022	182
0050012082	182
0091012013	179
0068012043	168
0050012051	157
0050012033	156
0020012014	155

Circuit Name	Retail Electric Customers Affected
0050012071	149
0091012052	143
0115012022	140
0125012023	138
0012012053	134
0048012024	127
0050012073	125
0091012032	119
0013012031	116
0022012041	113
0022012033	111
0115012031	111
0020012012	110
0019012052	109
0050012031	109
0091012053	108
0497012021	104
0050012083	102
0068012031	93
0091012041	91
0048012044	88
0073012021	86
0068012041	85
0091012021	82
0472012021	82
0050012042	68
0012012083	66
0091012043	62
0091012061	57
0050012054	55
0132012013	55
0073012013	51
0050012062	49
0068012033	48
0041012043	45
0128012033	44
0050012063	42
0050012053	41
0048012053	40
0023013094	39
0016012021	36
0482012011	29
0029012042	27
0005012005	26
0068012023	26
0046012101	23
0069012011	23
0091012051	23
0091012031	22
0121012012	20
0472012011	20
0047012031	19

Circuit Name	Retail Electric Customers Affected
0068012024	19
UNKNOWN	19
0012012022	18
0047012011	18
0093012024	17
0482012022	15
0068012053	14
0093012042	14
0097012011	14
0041012034	11
0038012023	9
0090012042	9
0023004047	8
0047012053	8
0050012024	6
0082012041	5
0497012012	5
RSMV012012	4
0073012023	3
0105012011	3
0012012013	2
0029012022	2
0076012011	2
0091012012	2
0117012033	2
0124012002	2
0132012011	2
0473012011	2
0012012061	1
0016012022	1
0040012012	1
0073012024	1
0082012013	1
0090012032	1
0121012013	1
0125012022	1

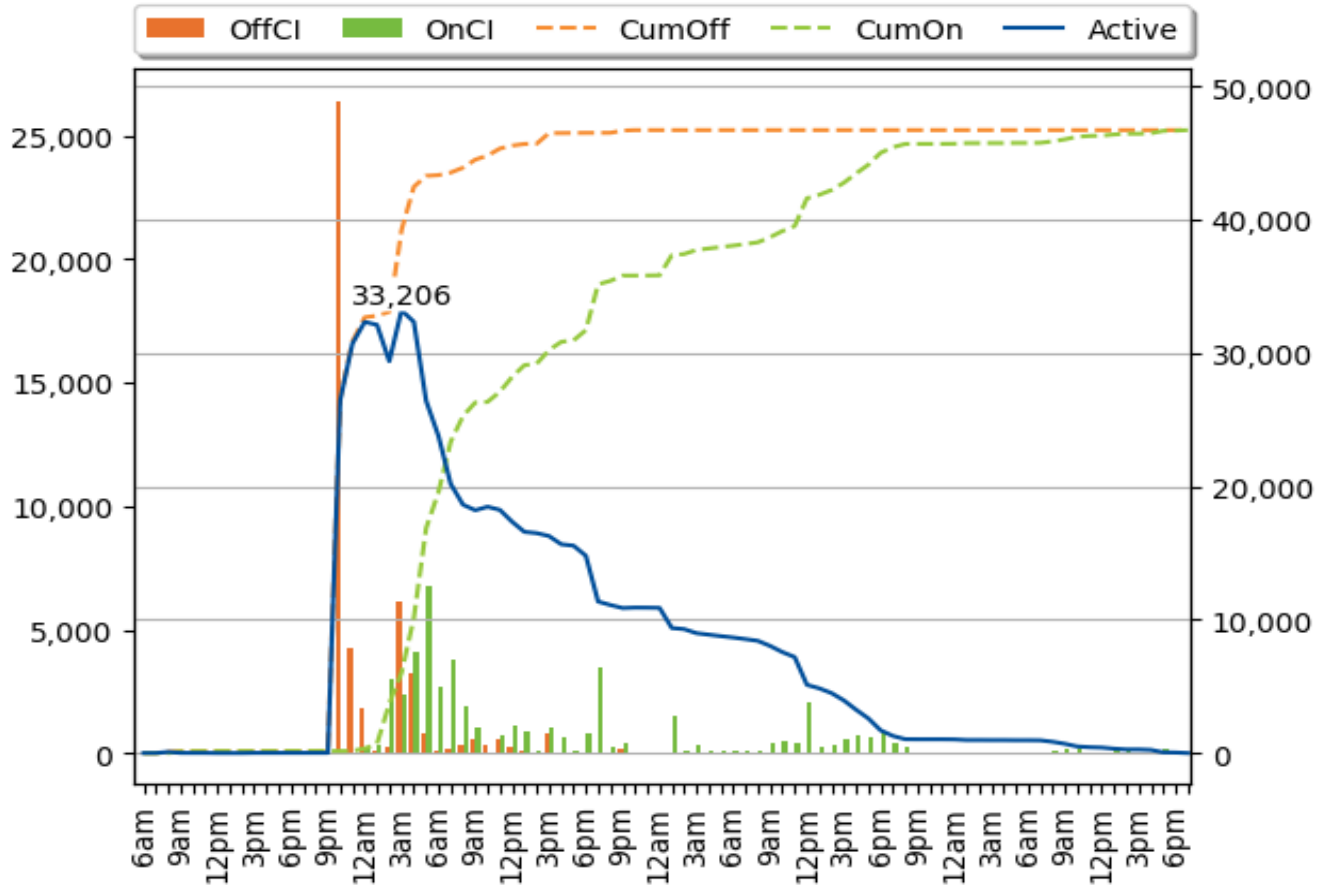
Root Causes

Root Cause	Customers Out	Number of Events
Weather	33,271	269
Vegetation	7,897	74
Equipment	4,972	13
Public	455	18
Unknown	110	4
Wildlife	12	3
Other	7	1

Customers Out by Cause and Failed Component Type

Failed Component	Equipment	Other	Public	Unknown	Vegetation	Weather	Wildlife	Total
Cable	2,839	0	0	0	0	0	0	2,839
Connector	1	0	0	0	1	56	0	58
Insulated Transition	0	0	0	0	0	356	0	356
Interrupting Device	9	0	8	110	2,226	5,389	12	7,754
Lightning/Surge Arrester	5	0	0	0	0	0	0	5
None	0	0	0	0	1	0	0	1
Other Equipment	339	7	26	0	137	5,418	0	5,927
Structural Support	0	0	0	0	146	4,042	0	4,188
Transformer	0	0	0	0	13	17	0	30
Wire	1,779	0	421	0	5,373	17,993	0	25,566
Total	4,972	7	455	110	7,897	33,271	12	46,724

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All data in the graph depict customer interruptions or CI.
The Bars use the left Y-axis. The Lines use the right Y-axis