

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	FLEMING MASON ENERGY
REPORT PREPARED BY	BRANDON HUNT
E-MAIL ADDRESS OF PREPARER	bhunt@fme.coop
PHONE NUMBER OF PREPARER	606-845-2661

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2023
-------------------------	------

SECTION 3: MAJOR EVENT DAYS (MED)

T_{MED}	13.49
FIRST DATE USED TO DETERMINE T_{MED}	1/1/2018
LAST DATE USED TO DETERMINE T_{MED}	12/31/2022
NUMBER OF MED IN REPORT YEAR	2

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

System-wide Information

TOTAL CUSTOMERS	25,799	TOTAL CIRCUITS	45
-----------------	--------	----------------	----

Excluding MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	184.67	SAIDI	135.57
SAIFI	1.34	SAIFI	0.917

Including MED

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	380.44	SAIDI	314.38
SAIFI	1.75	SAIFI	1.28

Notes:

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, and T_{MED}

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Sharkey

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 801, Rowan, Farmers

3. CIRCUIT NAME AND NUMBER

801/Farmers. OCR 224

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

KY 801, Farmers

5. TOTAL CIRCUIT LENGTH (MILES)

46.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

804

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	83.3	Tree w/ wind	48.23	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0.94
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	5.47	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.65	Public Other	0
Corrosion/Abrasion	0	Wind	3.249	Other	0
Tree Growth	0.113	Small Animal	0.136	Cause Unknown	0.59

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

30.56

10. REPORTING YEAR (SAIDI)

143.33

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.8336

12. REPORTING YEAR (SAIFI)

0.821

13. CORRECTIVE ACTION PLAN

Equipment failure and trees with wind were the largest cause. Will investigate equipment failure and ROW is scheduled to be trimmed in 2024.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Oak Ridge

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Oak Ridge, Lewis County, Oak Ridge Rd

3. CIRCUIT NAME AND NUMBER

Burtonville, OCR-224

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Bluestone Rd, Morehead

5. TOTAL CIRCUIT LENGTH (MILES)

56.9

6. CUSTOMER COUNT FOR THIS CIRCUIT

336

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	2.18	Tree w/ wind	4.11	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	2.69	Public Cut Tree	0
Decay/Age Equip	0	Lightning	1.12	Fire	55.68
Corrosion/Abrasion	0	Wind	1.35	Other	0
Tree Growth	0	Small Animal	0	Cause Unknown	0.12

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

26.35

10. REPORTING YEAR (SAIDI)

69.377

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.19

12. REPORTING YEAR (SAIFI)

0.268

13. CORRECTIVE ACTION PLAN

Lumber yard fire burnt line down and two poles. Large outage.

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE FOR SAIDI AND/OR SAIFI

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Hilda 2

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 32 Rowan County

3. CIRCUIT NAME AND NUMBER

Cranston, OCR 104

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Cranston Rd, Morehead

5. TOTAL CIRCUIT LENGTH (MILES)

63.9

6. CUSTOMER COUNT FOR THIS CIRCUIT

789

7.. DATE OF LAST CIRCUIT TRIM (VM)

2019

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0	Tree Failure	28.95	Animal	0
Installation Fault	0	Tree w/ wind	11.76	Ice	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	6.4	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.122	Public Other	0
Corrosion/Abrasion	0	Wind	5.96	Other	2.26
Tree growth	0.036	Small Animal	0.254	Cause Unknown	1.133

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

43.62

10. REPORTING YEAR (SAIDI)

50.49

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.63

12. REPORTING YEAR (SAIFI)

0.235

13. CORRECTIVE ACTION PLAN

ROW was the largest cause. Will be monitored during system inspection

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Snow Hill

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

KY 165, Robertson County

3. CIRCUIT NAME AND NUMBER

Doyle Pike OCR 244

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Fairview, US 68, Fleming/Mason

5. TOTAL CIRCUIT LENGTH (MILES)

49.5

6. CUSTOMER COUNT FOR THIS CIRCUIT

279

7.. DATE OF LAST CIRCUIT TRIM (VM)

2022

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	5.65	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	4.89	Public Cut Tree	2.65
Decay/Age Equip	3.44	Lightning	4.37	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree W/ wind	0	Small Animal	1.03	Cause Unknown	0

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

16.15

10. REPORTING YEAR (SAIDI)

22.01

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.76

12. REPORTING YEAR (SAIFI)

0.118

13. CORRECTIVE ACTION PLAN

Trees out of ROW was largest cause. Circuit was cleared in 2022.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Peasticks

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Bath, Peasticks, Owingsville

3. CIRCUIT NAME AND NUMBER

Hart Pike OCR 244

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Owingsville, Hart Pike

5. TOTAL CIRCUIT LENGTH (MILES)

27.1

6. CUSTOMER COUNT FOR THIS CIRCUIT

220

7.. DATE OF LAST CIRCUIT TRIM (VM)

2020

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	4.64	Tree Failure	0	Animal	0.07
Installation Fault	0	Tree w/ Wind	3.36	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0.18	Lightning	1.15	Public Other	0
Corrosion/Abrasion	0	Wind	1.12	Other	0
Tree Growth	0	Small Animal	0.09	Cause Unknown	0

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

6.5

10. REPORTING YEAR (SAIDI)

10.52

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.37

12. REPORTING YEAR (SAIFI)

0.13

13. CORRECTIVE ACTION PLAN

Trees with wind was largest cause. Will monitor ROW.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Charters

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Lewis County, AA Hwy, Charters

3. CIRCUIT NAME AND NUMBER

Herron Hill OCR 214

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

AA Hwy, Herron Hill

5. TOTAL CIRCUIT LENGTH (MILES)

117

6. CUSTOMER COUNT FOR THIS CIRCUIT

928

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	51.27	Tree W/ Wind	1.72	Animal	0
Installation Fault	0	Tree Failure	0.073	Cust Caused	0.065
Conductor Sag	0	Dead Ash Tree	5.5	Motor Vehicle	0
Overload	0	Tree out of ROW	0.138	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.33	Public Other	0
Corrosion/Abrasion	0	Wind	0.93	Other	0.22
Tree Growth	7.92	Small Animal	0.388	Cause Unknown	0.31

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

18.07

10. REPORTING YEAR (SAIDI)

68.86

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

2.38

12. REPORTING YEAR (SAIFI)

0.51

13. CORRECTIVE ACTION PLAN

Equipment Failure will be investigated.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Plummers Landing

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Fleming County, KY 32, Plummers Landing

3. CIRCUIT NAME AND NUMBER

Hillsoro - OCR 144

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Hillsboro, KY 1013, Hillsboro

5. TOTAL CIRCUIT LENGTH (MILES)

39.5

6. CUSTOMER COUNT FOR THIS CIRCUIT

320

7.. DATE OF LAST CIRCUIT TRIM (VM)

2019

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.169	Tree W/ Wind	14.13	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0.39
Conductor Sag	0	Tree Failure	1	Motor Vehicle	0
Overload	0	Tree out of ROW	2.77	Public Cut Tree	1.29
Decay/Age Equip	0	Lightning	2.08	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	0	Small Animal	0.05	Cause Unknown	0.401

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

8.5

10. REPORTING YEAR (SAIDI)

22.29

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.38

12. REPORTING YEAR (SAIFI)

0.09

13. CORRECTIVE ACTION PLAN

Trees with wind the largest cause. Will montior ROW.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Charters

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Lewis County, AA Hwy, Charters

3. CIRCUIT NAME AND NUMBER

Holly OCR- 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Holly Rd.

5. TOTAL CIRCUIT LENGTH (MILES)

148

6. CUSTOMER COUNT FOR THIS CIRCUIT

832

7.. DATE OF LAST CIRCUIT TRIM (VM)

2023

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	52.96	Tree w/ wind	87.7	Animal	0
Installation Fault	2.06	Tree w/ Ice	0	Cust Caused	1.25
Conductor Sag	0	Tree Failure	3.42	Motor Vehicle	0.01
Overload	0	Tree out of ROW	17.67	Public Cut Tree	0
Decay/Age Equip	8.45	Lightning	20.94	Public Other	0
Corrosion/Abrasion	0	Wind	0.316	Other	0
Tree Growth	0.052	Small Animal	0.198	Cause Unknown	3.24

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

145.52

10. REPORTING YEAR (SAIDI)

199.63

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

3.68

12. REPORTING YEAR (SAIFI)

0.978

13. CORRECTIVE ACTION PLAN

Long ckt with difficult terrain. Will monitor equipment failure. ROW in good condition.

REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE FOR SAIDI AND/OR SAIFI

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Big Woods

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Rowan County, KY 32, Morehead

3. CIRCUIT NAME AND NUMBER

KY 158 OCR 134

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

KY 158, Sharkey

5. TOTAL CIRCUIT LENGTH (MILES)

21.5

6. CUSTOMER COUNT FOR THIS CIRCUIT

340

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0	Tree Failure	8.48	Weather	0
Installation Fault	0	Tree w/ Wind	0.131	Cust Caused	0
Conductor Sag	0	Tree OOR	0.202	Motor Vehicle	0
Overload	0	Tree w/ wind	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.21	Public Other	0.894
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	0.11	Small Animal	0.418	Cause Unknown	0.366

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

6.3

10. REPORTING YEAR (SAIDI)

11.64

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.09

12. REPORTING YEAR (SAIFI)

0.05

13. CORRECTIVE ACTION PLAN

ROW was largest contributing cause. Scheduled to be cut in 2024

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Maysville

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Mason County, AA Hwy, Masyville

3. CIRCUIT NAME AND NUMBER

Moransburg OCR - 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Flemingsburg

5. TOTAL CIRCUIT LENGTH (MILES)

90.7

6. CUSTOMER COUNT FOR THIS CIRCUIT

626

7.. DATE OF LAST CIRCUIT TRIM (VM)

2022

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	31.2	Tree Failure	0.26	Animal	0
Installation Fault	0	Tree growth	0	Cust Caused	0
Conductor Sag	0	Weather	139.6	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	7.2	Lightning	31.75	Public Other	0
Corrosion/Abrasion	0	Wind	4.27	Other	0
Tree w/ Wind	80.87	Small Animal	0.618	Cause Unknown	2.05

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

221.5

10. REPORTING YEAR (SAIDI)

297.83

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

5.22

12. REPORTING YEAR (SAIFI)

1.75

13. CORRECTIVE ACTION PLAN

Weather was largest cause. Storms that were not MED.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER
Oak Ridge
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Lewis County, Oak Ridge Rd
3. CIRCUIT NAME AND NUMBER
Mudlick ckt - OCR 244
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
AA Hwy, Maysville
5. TOTAL CIRCUIT LENGTH (MILES)
147.9
6. CUSTOMER COUNT FOR THIS CIRCUIT
1295
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2018
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	3.44	Tree Growth	0	Animal	0
Installation Fault	0	Tree Failure	5.59	Cust Caused	67.75
Conductor Sag	0	In-house Tree	0	Motor Vehicle	1.5
Overload	0	Tree out of ROW	0.38	Public Cut Tree	0
Decay/Age Equip	0.048	Lightning	2.58	Public Other	0
Corrosion/Abrasion	0	Wind	0	Other	0.197
Tree w/ wind	79.45	Small Animal	3.36	Cause Unknown	1.52

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
110.9
10. REPORTING YEAR (SAIDI)
166.2
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
2.5
12. REPORTING YEAR (SAIFI)
1.71
13. CORRECTIVE ACTION PLAN

Trees with wind was largest cause. Will monitor ROW.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER
Plummers Landing
2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)
Fleming County, KY 32, Plummers Landing
3. CIRCUIT NAME AND NUMBER
Muses Mill OCR 124
4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)
Muses Mill, KY 1013
5. TOTAL CIRCUIT LENGTH (MILES)
70.7
6. CUSTOMER COUNT FOR THIS CIRCUIT
484
- 7.. DATE OF LAST CIRCUIT TRIM (VM)
2019
8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	52.58	Tree Failure	6.04	Animal	0
Installation Fault	0	Tree w/ Ice	0	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	6.34	Public Cut Tree	0.25
Decay/Age Equip	0	Lightning	0.28	Public Other	0
Tree Growth	0	Wind	7.43	Other	0.838
Tree w/ wind	0	Small Animal	0.168	Cause Unknown	1.18

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)
51.4
10. REPORTING YEAR (SAIDI)
75.1
11. CIRCUIT 5 YEAR AVERAGE (SAIFI)
0.6
12. REPORTING YEAR (SAIFI)
0.38
13. CORRECTIVE ACTION PLAN

Equipment failure the largest cause. Will investigate.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Peasticks

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Bath County, Peasticks, Owingsville

3. CIRCUIT NAME AND NUMBER

Owingsville/Sharpsburg OCR 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Owingsville and Sharpsburg, KY 11

5. TOTAL CIRCUIT LENGTH (MILES)

149.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

948

7.. DATE OF LAST CIRCUIT TRIM (VM)

2020

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.57	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ wind	32.5	Cust Caused	0.15
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0.25
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0.12	Lightning	3.9	Public Other	0
Corrosion/Abrasion	0	Wind	50.1	Other	0.2
Tree Growth	3.8	Small Animal	1.44	Cause Unknown	1.5

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

41.21

10. REPORTING YEAR (SAIDI)

94.68

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.85

12. REPORTING YEAR (SAIFI)

0.44

13. CORRECTIVE ACTION PLAN

Weather/Wind was the largest cause.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Oak Ridge

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Lewis County, Oak Ridge Rd

3. CIRCUIT NAME AND NUMBER

Petersville OCR 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Petersville, KY 59

5. TOTAL CIRCUIT LENGTH (MILES)

32.4

6. CUSTOMER COUNT FOR THIS CIRCUIT

169

7.. DATE OF LAST CIRCUIT TRIM (VM)

2018

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.1	Tree Failure	0	Animal	0
Installation Fault	0	Tree w/ wind	37.12	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0.42
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0	Public Other	1.8
Corrosion/Abrasion	0	Wind	0	Other	0
Tree Growth	0	Small Animal	0.1	Cause Unknown	0

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

15.76

10. REPORTING YEAR (SAIDI)

39.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.58

12. REPORTING YEAR (SAIFI)

0.077

13. CORRECTIVE ACTION PLAN

Trees with wind is the largest cause. Will monitor ROW.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Snow Hill

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Robertson County, KY 165, Piqua

3. CIRCUIT NAME AND NUMBER

Piqua OCR 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

Piqua, KY 165

5. TOTAL CIRCUIT LENGTH (MILES)

32.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

167

7.. DATE OF LAST CIRCUIT TRIM (VM)

2022

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.07	Tree Failure	0.76	Animal	0.06
Installation Fault	0	Tree w/ wind	1.32	Cust Caused	9.24
Conductor Sag	0	In-house Tree	0	Motor Vehicle	26.43
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0.04	Lightning	0.66	Public Other	0
Corrosion/Abrasion	0	Wind	3.44	Other	0.01
Tree Growth	0	Small Animal	0.49	Cause Unknown	0.72

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

17.5

10. REPORTING YEAR (SAIDI)

43.3

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.6

12. REPORTING YEAR (SAIFI)

0.87

13. CORRECTIVE ACTION PLAN

Motor Vehicle was the largest cause.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Rectorville

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Mason County, Owl Hollow Rd

3. CIRCUIT NAME AND NUMBER

Plumville OCR 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

AA Hwy, Plumville

5. TOTAL CIRCUIT LENGTH (MILES)

76

6. CUSTOMER COUNT FOR THIS CIRCUIT

944

7.. DATE OF LAST CIRCUIT TRIM (VM)

2017

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.2	Tree Failure	0.72	Animal	0.042
Installation Fault	0	Tree w/ wind	3.87	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0	Public Cut Tree	0
Decay/Age Equip	0	Lightning	0.12	Public Other	0
Ice	0	Wind	2.86	Other	0.02
Tree Growth	0.77	Small Animal	0.245	Cause Unknown	49.24

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

39.63

10. REPORTING YEAR (SAIDI)

58.13

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

1.36

12. REPORTING YEAR (SAIFI)

0.216

13. CORRECTIVE ACTION PLAN

Large unknown outage was the largest cause.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

SECTION 5: CIRCUIT REPORTING

(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)

(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)

CIRCUIT #1:

1. SUBSTATION NAME AND NUMBER

Hillsboro

2. SUBSTATION LOCATION (COUNTY-ROAD-TOWN)

Fleming County, KY 111

3. CIRCUIT NAME AND NUMBER

Ringos OCR 234

4. CIRCUIT LOCATION (TOWN-ROAD-GENERAL AREA)

KY 158, Ringo Mills

5. TOTAL CIRCUIT LENGTH (MILES)

32.3

6. CUSTOMER COUNT FOR THIS CIRCUIT

252

7.. DATE OF LAST CIRCUIT TRIM (VM)

2019

8. LIST OUTAGE CAUSES FOR CIRCUIT ALONG WITH PERCENTAGE OF TOTAL OUTAGE NUMBERS REPRESENTED BY EACH CAUSE

Equipment Failure	0.087	Tree Failure	0.08	Animal	0
Installation Fault	0	Tree w/ wind	5.63	Cust Caused	0
Conductor Sag	0	In-house Tree	0	Motor Vehicle	0
Overload	0	Tree out of ROW	0.39	Public Cut Tree	0.33
Decay/Age Equip	0.22	Lightning	0	Public Other	0
Corrosion/Abrasion	0	Wind	0.67	Other	0
Tree Growth	0	Small Animal	0.184	Cause Unknown	0

9. CIRCUIT 5 YEAR AVERAGE (SAIDI)

3.4

10. REPORTING YEAR (SAIDI)

7.6

11. CIRCUIT 5 YEAR AVERAGE (SAIFI)

0.57

12. REPORTING YEAR (SAIFI)

0.07

13. CORRECTIVE ACTION PLAN

Trees with wind storms.

**REPEAT INFORMATION FOR EACH CIRCUIT EXCEEDING ITS 5 YEAR AVERAGE
FOR SAIDI AND/OR SAIFI**

KENTUCKY PUBLIC SERVICE COMMISSION

Trimming Cycle - 8 years
Spaying Cycle - 2 years

KENTUCKY PUBLIC SERVICE COMMISSION