

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	Inter-County Energy
REPORT PREPARED BY	1.2	David Phelps
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PHONE NUMBER OF PREPARER	1.4	(859)236-7818

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	2025
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SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	8.55724
FIRST DATE USED TO DETERMINE T_{MED}	3.2	1-Jan-21
LAST DATE USED TO DETERMINE T_{MED}	3.3	31-Dec-25
NUMBER OF MED IN REPORT YEAR	3.4	9

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 28625 TOTAL CIRCUITS 48

Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>99.22</u>	SAIDI	<u>104.49</u>
SAIFI	<u>0.97</u>	SAIFI	<u>0.83</u>

Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>205.43</u>	SAIDI	<u>292.84</u>
SAIFI	<u>1.54</u>	SAIFI	<u>1.78</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) 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, CAIDI, and T_{MED}

2025

Circuit #1

1. Substation Name and Number	Broughtontown(16)
2. Substation Location	Hwy 643
3. Circuit Name and Number	Hwy 1781 (2)
4. Circuit Location	Hwy 1781

5. Total Circuit Length (Miles)	46.01
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6. Customer Count	481
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7. Date of Last Circuit Trim	2024
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8. Outage Cause (% of Total Outage Numbers)	
Animals	0.15%
Lightning	0.00%
High Wind	0.81%
Equip. Failure	41.58%
Deteriorated	1.46%
Cars or Trucks	0.00%
Insulation broke	0.00%
Vegetation/Trees	4.19%
Trees Cut Into Line	39.35%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	0.00%

9. Circuit 5 Year Average (SAIDI)	0.313
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10. Reporting Year (SAIDI)	1.441
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11. Circuit 5 Year Average (SAIFI)	0.898
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12. Reporting Year (SAIFI)	0.898
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13. List of Corrective Action, If Any, Taken or To Be Taken

Inspect and replace old porcelain cutouts and check for bad insulators

2025

Circuit #2

1. Substation Name and Number	Garrard(13)
2. Substation Location	Hwy 52 - Lancaster, Ky
3. Circuit Name and Number	Gilberts Creek(2)
4. Circuit Location	Hwy 39 and Gilberts Creek
5. Total Circuit Length (Miles)	30.68
6. Customer Count	400
7. Date of Last Circuit Trim	2022
8. Outage Cause (% of Total Outage Numbers)	
Animals	7.51%
Lightning	0.00%
High Wind	84.33%
Equip. Failure	0.00%
Deteriorated	0.00%
Cars or Trucks	1.00%
Insulation broke	0.89%
Vegetation/Trees	0.00%
Trees Cut Into Line	0.00%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	1.60%
9. Circuit 5 Year Average (SAIDI)	0.845
10. Reporting Year (SAIDI)	2.965
11. Circuit 5 Year Average (SAIFI)	0.523
12. Reporting Year (SAIFI)	0.792
13. List of Corrective Action, If Any, Taken or To Be Taken	
Inspect circuit and add animal guards where appropriate	

2025

Circuit #3

1. Substation Name and Number	Lancaster (1)
2. Substation Location	Hwy 27 - Lancaster, Ky
3. Circuit Name and Number	Danville (3)
4. Circuit Location	Hwy 27 and Hwy 52 - Danville Rd

5. Total Circuit Length (Miles) 43.26

6. Customer Count 537

7. Date of Last Circuit Trim 2022

8. Outage Cause (% of Total Outage Numbers)

Animals	32.87%
Lightning	0.00%
High Wind	56.92%
Equip. Failure	0.50%
Deteriorated	0.00%
Cars or Trucks	0.00%
Insulation broke	0.00%
Vegetation/Trees	0.00%
Trees Cut Into Line	0.00%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	0.00%

9. Circuit 5 Year Average (SAIDI) 1.304

10. Reporting Year (SAIDI) 0.382

11. Circuit 5 Year Average (SAIFI) 0.072

12. Reporting Year (SAIFI) 0.275

13. List of Corrective Action, If Any, Taken or To Be Taken

New Feeder in 23 - Inspect and add animal guards where needed

2025

Circuit #4

1. Substation Name and Number	Loretto (8)
2. Substation Location	Hwy 49 and Hwy 52
3. Circuit Name and Number	Lebanon (2)
4. Circuit Location	Hwy 49 Loretto Rd.
5. Total Circuit Length (Miles)	21.62
6. Customer Count	186
7. Date of Last Circuit Trim	2020
8. Outage Cause (% of Total Outage Numbers)	
Animals	0.41%
Lightning	0.00%
High Wind	7.41%
Equip. Failure	0.00%
Deteriorated	0.00%
Cars or Trucks	5.59%
Insulation broke	0.00%
Vegetation/Trees	15.93%
Trees Cut Into Line	0.00%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	0.00%
9. Circuit 5 Year Average (SAIDI)	0.454
10. Reporting Year (SAIDI)	1.595
11. Circuit 5 Year Average (SAIFI)	0.447
12. Reporting Year (SAIFI)	0.817
13. List of Corrective Action, If Any, Taken or To Be Taken	
Scheduled for ROW cutting in 2026	

2025

Circuit #5

1. Substation Name and Number	Peyton Store (5)
2. Substation Location	Hwy 78 and Hwy 243
3. Circuit Name and Number	Jacktown (1)
4. Circuit Location	Hwy 78 and Hwy 49 Liberty, Ky

5. Total Circuit Length (Miles) 129.31

6. Customer Count 1139

7. Date of Last Circuit Trim 2024

8. Outage Cause (% of Total Outage Numbers)	
Animals	0.66%
Lightning	0.00%
High Wind	0.00%
Equip. Failure	73.52%
Deteriorated	7.56%
Cars or Trucks	0.20%
Insulation broke	0.00%
Vegetation/Trees	10.45%
Trees Cut Into Line	1.02%
Equipment OL	0.15%
Rain/ Ice	0.00%
Caused by Others	0.00%

9. Circuit 5 Year Average (SAIDI) 3.731

10. Reporting Year (SAIDI) 6.273

11. Circuit 5 Year Average (SAIFI) 1.475

12. Reporting Year (SAIFI) 2.812

13. List of Corrective Action, If Any, Taken or To Be Taken

Inspect and replace old porcelain cutouts and check for bad insulators

2025

Circuit #6

1. Substation Name and Number	Shelby City (4)
2. Substation Location	Hwy 300 and Hwy 127
3. Circuit Name and Number	Old 127 Loop (2)
4. Circuit Location	Old Hwy 127 - Junction City, Ky

5. Total Circuit Length (Miles)	27.42
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6. Customer Count	218
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7. Date of Last Circuit Trim	2022
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8. Outage Cause (% of Total Outage Numbers)	
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Animals	0.00%
Lightning	0.00%
High Wind	1.47%
Equip. Failure	7.37%
Deteriorated	72.83%
Cars or Trucks	0.02%
Insulation broke	0.00%
Vegetation/Trees	0.00%
Trees Cut Into Line	0.00%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	0.00%

9. Circuit 5 Year Average (SAIDI)	0.744
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10. Reporting Year (SAIDI)	7.144
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11. Circuit 5 Year Average (SAIFI)	0.524
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12. Reporting Year (SAIFI)	2.748
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13. List of Corrective Action, If Any, Taken or To Be Taken

Inspect and replace old porcelain cutouts and check for bad insulators

2025

Circuit #7

1. Substation Name and Number	Sulphur Creek (9)
2. Substation Location	Hwy 84 and Hwy 457
3. Circuit Name and Number	Howardstown (2)
4. Circuit Location	Hwy 84 - Howardstown, Ky.

5. Total Circuit Length (Miles)	53.06
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6. Customer Count	318
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7. Date of Last Circuit Trim	2024
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8. Outage Cause (% of Total Outage Numbers)	
Animals	0.31%
Lightning	0.00%
High Wind	7.79%
Equip. Failure	12.09%
Deteriorated	0.00%
Cars or Trucks	0.00%
Insulation broke	0.00%
Vegetation/Trees	79.42%
Trees Cut Into Line	0.00%
Equipment OL	0.00%
Rain/ Ice	0.00%
Caused by Others	0.00%

9. Circuit 5 Year Average (SAIDI)	3.168
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10. Reporting Year (SAIDI)	13.082
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11. Circuit 5 Year Average (SAIFI)	1.478
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12. Reporting Year (SAIFI)	3.438
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13. List of Corrective Action, If Any, Taken or To Be Taken

Most of the tree outages were from out of right of way trees - No action taken

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Additional pages may be attached as necessary

SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

Inter-County Energy does a 6 year cycle cut with two year cycle spray program.

SECTION 7: UTILITY COMMENTS
