Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME 1.1 Inter-County Energy
REPORT PREPARED BY 1.2 David Phelps

E-MAIL ADDRESS OF PREPARER 1.3 Davidp@intercountyenergy.net

PHONE NUMBER OF PREPARER 1.4 (859)236-7813

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT 2.1 2024

SECTION 3: MAJOR EVENT DAYS

T_{MED} 3.1 7.223

FIRST DATE USED TO DETERMINE T_{MED} 3.2 1-Jan-20

LAST DATE USED TO DETERMINE T_{MED} 3.3 31-Dec-24

NUMBER OF MED IN REPORT YEAR 3.4 7

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 28151 TOTAL CIRCUITS 48

Excluding MED

 5 YEAR AVERAGE
 REPORTING YEAR

 SAIDI 105.63
 SAIDI 116.93

 SAIFI 1.10
 SAIFI 1.17

Including MED

 5 YEAR AVERAGE
 REPORTING YEAR

 SAIDI 299.57
 SAIDI 276.66

 SAIFI 1.87
 SAIFI 1.91

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}

Circu	

Substation Name and Number	Ballard 2	
2. Substation Location	2090 Fisher Ford Rd, Lancaster	
Circuit Name and Number	Toddville 1	
4. Circuit Location	Sutton Ln. / Tanyard Branch I	Rd
5. Total Circuit Length (Miles)		16.6
6. Customer Count		388
7. Date of Last Circuit Trim		2020
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.13%
	Lightning	0.00%
	High Wind	0.00%
	Equip. Failure	5.92%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	76.41%
	egetation/Trees	0.51%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	used by Others	0.00%
9. Circuit 5 Year Average (SAIDI)		0.559
10. Reporting Year (SAIDI)		3.909
11. Circuit 5 Year Average (SAIFI)		0.328
12. Reporting Year (SAIFI)		1.573
13. List of Corrective Action, If Any, Taken or To Be	Taken	

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1. Substation Name and Number	Broughtontown 16	
2. Substation Location	7400 Ky Hwy 643, Stanford	
Circuit Name and Number	Hwy 150 #1	
4. Circuit Location	Hwy 643 / Ky Hwy 150	
5. Total Circuit Length (Miles)		109
6. Customer Count	·	785
7. Date of Last Circuit Trim		2022
8. Outage Cause (% of Total Outage Numbers)		
	Animals	1.04%
	Lightning	0.00%
	High Wind	0.88%
	Equip. Failure	0.05%
	Deteriorated	0.00%
	Cars or Trucks	0.02%
	nsulation broke	0.00%
V	egetation/Trees	59.95%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	used by Others	0.40%
Circuit 5 Year Average (SAIDI)		1.339
10. Reporting Year (SAIDI)		5.312
11. Circuit 5 Year Average (SAIFI)		0.474
12. Reporting Year (SAIFI)		2.155
13. List of Corrective Action, If Any, Taken or To B	e Taken	

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Substation Name and Number	Broughtontown #16	
2. Substation Location	7400 Ky Hwy 643, Stanford	
Circuit Name and Number	Hwy 1781 #2	
4. Circuit Location	Hwy 1781 / Hwy 3	9
F. Total Circuit Langth (Miles)	······································	50.4
Total Circuit Length (Miles) Customer Count		56.4
7. Date of Last Circuit Trim		429
		2024
8. Outage Cause (% of Total Outage Numbers)	A mi	0.000
	Animals	6.80%
· · · · · · · · · · · · · · · · · · ·	Lightning High Wind	0.00%
	quip. Failure	34.73%
		0.95%
	Deteriorated Care on Trustee	
Cars or Trucks Insulation broke		0.00%
		2.49%
Vegetation/Trees Trees Cut Into Line		16.21%
	quipment OL	0.00%
	Rain/ Ice	0.00%
Cause	ed by Others	11.25%
Oddot	ou by Others	11.2370
9. Circuit 5 Year Average (SAIDI)		0.000
10. Reporting Year (SAIDI)		1.252
11. Circuit 5 Year Average (SAIFI)		0.000
12. Reporting Year (SAIFI)		0.898
13. List of Corrective Action, If Any, Taken or To Be Ta	aken	
New Feeder with no history out of substation	· · ·	

	2024	
Circuit #4		
Substation Name and Number	Gooch #11	
Substation Location	709 Rice Lane, Stan	ford
Circuit Name and Number	Lancaster #4	
4. Circuit Location	Hwy 150 / Hwy 27	
Total Circuit Length (Miles)		64.7
6. Customer Count		824
7. Date of Last Circuit Trim		2023
8. Outage Cause (% of Total Outage Numbers)		-
	Animals	6.84%
	Lightning	0.00%
	High Wind	7.21%
	Equip. Failure	2.35%
	Deteriorated	0.80%
	Cars or Trucks	
	Insulation broke	
V	/egetation/Trees	0.00%
Trees Cut Into Line		0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	aused by Others	0.00%
Circuit 5 Year Average (SAIDI)		0.380
10. Reporting Year (SAIDI)		1.053
11. Circuit 5 Year Average (SAIFI)		0.457
12. Reporting Year (SAIFI)		1.168
13. List of Corrective Action, If Any, Taken or To B	le Taken	

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Maria Sergeographic Sci.		
Substation Name and Number	Lancaster #1	
2. Substation Location	1512 Hwy 27, La	ancaster, Ky
Circuit Name and Number	Danville #3	
4. Circuit Location	Hwy 27 / Hwy 52	2
5. Total Circuit Length (Miles)		63.71
6. Customer Count		508
7. Date of Last Circuit Trim		2022
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.32%
	Lightning	0.00%
	High Wind	7.37%
	Equip. Failure	0.20%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	0.00%
	egetation/Trees	0.00%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.43%
	Rain/ Ice	0.00%
Ca	aused by Others	0.00%
O. Circuit E. Voor Average (CAIDI)		
9. Circuit 5 Year Average (SAIDI)		0.047
10. Reporting Year (SAIDI) 11. Circuit 5 Year Average (SAIFI)		3.817
		0.016
12. Reporting Year (SAIFI)	T-1	0.185
13. List of Corrective Action, If Any, Taken or To B	e raken	

<u>2024</u>

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Lebanon #7	
389 L. Harrison St, Lebanon, Ky	
Danville #1	
Hwy 68	
***	216
	1448
	2020
Animals	1.39%
Lightning	0.00%
High Wind	11.34%
Equip. Failure	0.74%
Deteriorated	0.04%
Cars or Trucks	1.50%
sulation broke	0.02%
getation/Trees	56.55%
s Cut Into Line	0.00%
Equipment OL	0.16%
Rain/ Ice	0.00%
ised by Others	0.00%
	4.440
	1.110
	3.404
	0.924
Taken	1.614
Taken	
ee	389 L. Harrison St, Lebanon, K Danville #1 Hwy 68 Animals Lightning High Wind Equip. Failure Deteriorated Cars or Trucks Insulation broke egetation/Trees es Cut Into Line Equipment OL

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Substation Name and Number	Marion Industri	ial #12
2. Substation Location	745 Industrial I	Or., Lebanon, Ky
Circuit Name and Number	Ky Hwy 208 #	1
4. Circuit Location	Industry Drive	/ Hwy 208
5. Total Circuit Length (Miles)		92.7
6. Customer Count		1071
7. Date of Last Circuit Trim		2021
8. Outage Cause (% of Total Outage Numbers)		
	Animals	3.05%
	Lightning	0.00%
	High Wind	25.68%
	Equip. Failure	0.00%
	Deteriorated	0.65%
	Cars or Trucks	0.03%
	nsulation broke	0.00%
V	egetation/Trees	23.14%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	used by Others	0.00%
Circuit 5 Year Average (SAIDI)		0.618
10. Reporting Year (SAIDI)		1.190
11. Circuit 5 Year Average (SAIFI)		0.434
12. Reporting Year (SAIFI)		1.429
13. List of Corrective Action, If Any, Taken or To B	e Taken	

Circuit #8

Silvait iro		
Substation Name and Number	Perryville #6	
2. Substation Location	590 Harrodsbu	rg Rd, Perryville, Ky
3. Circuit Name and Number	Battlefield #4	
4. Circuit Location	Hwy 1920	
5. Total Circuit Length (Miles)		65.7
6. Customer Count		368
7. Date of Last Circuit Trim		2019
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.24%
	Lightning	0.00%
	High Wind	82.92%
	Equip. Failure	0.00%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	nsulation broke	8.29%
V	egetation/Trees	0.00%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	used by Others	0.00%
0.01.11.51		
9. Circuit 5 Year Average (SAIDI)		0.792
10. Reporting Year (SAIDI)		3.790
11. Circuit 5 Year Average (SAIFI)		0.455
12. Reporting Year (SAIFI)		1.180
13. List of Corrective Action, If Any, Taken or To B	e Taken	

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on out no		
Substation Name and Number	Peyton #5	
2. Substation Location	4210 Hwy 78,	Hustonville, Ky
3. Circuit Name and Number	Little South #2	2
4. Circuit Location	Hwy 78 / Hwy	49
5. Total Circuit Length (Miles)		51.3
6. Customer Count		211
7. Date of Last Circuit Trim		2019
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.06%
	Lightning	0.00%
	High Wind	27.23%
	Equip. Failure	0.03%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	0.00%
V	egetation/Trees	35.53%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	aused by Others	0.00%
9. Circuit 5 Year Average (SAIDI)		1.758
10. Reporting Year (SAIDI)		10.199
11. Circuit 5 Year Average (SAIFI)		0.755
12. Reporting Year (SAIFI)		3.473
13. List of Corrective Action, If Any, Taken or To Be	Taken	

Circu	

1. Substation Name and Number	Peyton #5	
2. Substation Location	4210 Hwy 78, I	lustonville, Ky
3. Circuit Name and Number	Hustonville #3	
4. Circuit Location	Hwy 78 / Hwy	27
5. Total Circuit Length (Miles)		156
6. Customer Count		969
7. Date of Last Circuit Trim		2021
8. Outage Cause (% of Total Outage Numbers)		
	Animals	3.20%
	Lightning	0.00%
	High Wind	69.22%
	Equip. Failure	0.06%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	nsulation broke	0.00%
V	egetation/Trees	23.88%
Tre	es Cut Into Line	0.02%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
Ca	used by Others	0.00%
Circuit 5 Year Average (SAIDI)		1.740
10. Reporting Year (SAIDI)		3.845
11. Circuit 5 Year Average (SAIFI)		0.772
12. Reporting Year (SAIFI)		1.864
13. List of Corrective Action, If Any, Taken or To Be	Taken	

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2. Substation Location	5143 Gap Knob Rd, New Hope, Ky
	o 1-10 Oak Milon Ma, Mew Hohe! My
3. Circuit Name and Number	New Hope #3
4. Circuit Location	Hwy 457
5. Total Circuit Length (Miles)	37.6
6. Customer Count	238
7. Date of Last Circuit Trim	2024
Outage Cause (% of Total Outage Numbers)	2024
Anima	als 5.12%
Lightnir	
High Wir	
Equip. Failu	The state of the s
Deteriorate	
Cars or Truck	
Insulation brok	ke 0.00%
Vegetation/Tree	es 357.22%
Trees Cut Into Lir	ne 0.00%
Equipment C	OL 0.00%
Rain/ lo	ce 0.00%
Caused by Othe	ers 0.79%
Circuit 5 Year Average (SAIDI)	1.304
10. Reporting Year (SAIDI)	3.216
11. Circuit 5 Year Average (SAIFI)	0.539
12. Reporting Year (SAIFI)	1.951
13. List of Corrective Action, If Any, Taken or To Be Taken	

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Olicult #12		
Substation Name and Number	Toddville #14	
2. Substation Location	183 Dairy Way,	Lancaster, Ky
3. Circuit Name and Number	Bourne #2	
4. Circuit Location	Mt. Hebron Rd /	Thompson Rd.
5 Total Circuit I a rath (Miles)		
5. Total Circuit Length (Miles)		58.1
6. Customer Count		503
7. Date of Last Circuit Trim		2020
8. Outage Cause (% of Total Outage Numbers)		3 To 1000
	Animals	3.84%
	Lightning	0.00%
	High Wind	18.26%
	Equip. Failure	38.29%
	Deteriorated	2.17%
	ars or Trucks	3.71%
	sulation broke	0.00%
	etation/Trees	30.88%
	Cut Into Line	0.00%
	quipment OL	0.00%
	Rain/ Ice	0.00%
Cau	sed by Others	0.00%
Circuit 5 Year Average (SAIDI)		1.026
10. Reporting Year (SAIDI)		2.113
11. Circuit 5 Year Average (SAIFI)		0.823
12. Reporting Year (SAIFI)		2.320
13. List of Corrective Action, If Any, Taken or To Be T	aken	

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW

Inter-County	ty Energy does a 6 year cycle cut with two year cycle spray program.	
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	SECTION 7: UTILITY COMMENTS	
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