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 2023

SECTION 3: MAJOR EVENT DAYS

T_{MED} 3.1 10.077

FIRST DATE USED TO DETERMINE T_{MED} 3.2 Jan. 1, 2018

LAST DATE USED TO DETERMINE T_{MED} 3.3 Dec. 31, 2022

NUMBER OF MED IN REPORT YEAR 3.4 1

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 27810 TOTAL CIRCUITS 47

Excluding MED

 5 YEAR AVERAGE
 REPORTING YEAR

 SAIDI 101.87
 SAIDI 100.60

 SAIFI 1.06
 SAIFI 0.98

Including MED

 5 YEAR AVERAGE
 REPORTING YEAR

 SAIDI
 271.33
 SAIDI
 162.98

 SAIFI
 1.81
 SAIFI
 1.33

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}

	2023	
Circuit #1		
Substation Name and Number	Lancaster (1)	
2. Substation Location	1442 Lexingto	on Rd, Lancaster
3. Circuit Name and Number	Danville Rd(3)
4. Circuit Location	Lexington Rd	, Sugar Creek Rd
5. Total Circuit Length (Miles)		49.43
6. Customer Count		279
7. Date of Last Circuit Trim		2022
8. Outage Cause (% of Total Outage Numbers)		
	Animals	5.14%
	Lightning	0.00%
	High Wind	0.00%
	Equip. Failure	8.71%
	Deteriorated	0.00%
	Cars or Trucks	82.76%
·	Insulation broke	0.00%
V	egetation/Trees	0.00%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
	cased by Others	3.39%
9. Circuit 5 Year Average (SAIDI)		0.000
10. Reporting Year (SAIDI)		5.700
11. Circuit 5 Year Average (SAIFI)		0.000
12. Reporting Year (SAIFI)		0.000
13. List of Corrective Action, If Any, Taken or To B	e Taken	
New Circuit out of the Substation		

Circuit #2	
Substation Name and Number	Shelby City
2. Substation Location	224 East Knob Lick Rd
3. Circuit Name and Number	Alum Springs(4)
4. Circuit Location	Knob Lick Rd, Hwy 300,
	Alum Springs Rd, Stewarts Ln
5. Total Circuit Length (Miles)	79.47
6. Customer Count	1202
7. Date of Last Circuit Trim	2021
8. Outage Cause (% of Total Outage Numbers)	
Α	nimals 16.01%
Liç	ghtning 0.00%
High	h Wind 0.00%
Equip.	Failure 6.61%
Deter	iorated 0.00%
Cars or	Trucks 17.02%
Insulation	n broke 0.00%
Vegetation	n/Trees 46.74%
Trees Cut In	to Line 0.00%
Equipm	ent OL 0.00%
Ra	ain/ Ice 0.00%
Cased by	Others 13.62%
O. Circuit 5 Voor Avorage (SAIDI)	45.480
9. Circuit 5 Year Average (SAIDI) 10. Reporting Year (SAIDI)	251.340
11. Circuit 5 Year Average (SAIFI)	1.124
12. Reporting Year (SAIFI)	5.540
	5:540
13. List of Corrective Action, If Any, Taken or To Be Taken	

	2020
Circuit #3	
Substation Name and Number	Perryville(6)
Substation Location	590 Harrodsburg Rd, Perryville
Circuit Name and Number	Battlefield(4)
4. Circuit Location	Ky Hwy 1920, Battlefield Rd.
5. Total Circuit Length (Miles)	55.0
6. Customer Count	340
7. Date of Last Circuit Trim	201
8. Outage Cause (% of Total Outage Numbers)	
	Animals 2.97%
	Lightning 0.00%
	High Wind 0.00%
	Equip. Failure 0.31%
	Deteriorated 0.00%
	Cars or Trucks 0.00%
	nsulation broke 0.00%
	egetation/Trees 79.38%
Tre	es Cut Into Line 0.00%
	Equipment OL 0.00%
	Rain/ Ice 0.00%
C	ased by Others 17.34%
9. Circuit 5 Year Average (SAIDI)	46.32
10. Reporting Year (SAIDI)	104.04
11. Circuit 5 Year Average (SAIFI)	0.29
12. Reporting Year (SAIFI)	1.31
13. List of Corrective Action, If Any, Taken or To B	e Taken

	2020	
Circuit #4		
Substation Name and Number	Loretto (8)	
2. Substation Location	6483 Loretto Ro	d. Lebanon, Ky.
Circuit Name and Number	Holy Cross(4)	`
4. Circuit Location	Holy Cross	s Rd, Hwy 52, Hwy 152
5. Total Circuit Length (Miles)		65.44
6. Customer Count		537
7. Date of Last Circuit Trim		2021
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.92%
	Lightning	0.00%
	High Wind	0.00%
	Equip. Failure	. 77.28%
	Deteriorated	0.00%
	Cars or Trucks	0.00%
	Insulation broke	0.00%
V	egetation/Trees	11.98%
Tre	es Cut Into Line	2.60%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
	cased by Others	7.21%
9. Circuit 5 Year Average (SAIDI)		34.740
10. Reporting Year (SAIDI)		153.240
11. Circuit 5 Year Average (SAIFI)		0.669
12. Reporting Year (SAIFI)		2.37
13. List of Corrective Action, If Any, Taken or To E	e Taken	
		·

1 .1	rol	114	#
	LUL	ИL	#5

Silvati no		
Substation Name and Number	Garrard (1	3)
2. Substation Location	489 Richm	ond Rd., Lancaster, Ky.
3. Circuit Name and Number	Paintlick (1)
4. Circuit Location		Hwy 52, Hwy 954
5. Total Circuit Length (Miles)		89.43
6. Customer Count		790
7. Date of Last Circuit Trim		2022
8. Outage Cause (% of Total Outage Numbers)		
	Animals	20.27%
	Lightning	0.00%
	High Wind	0.00%
E	quip. Failure	45.61%
	Deteriorated	0.00%
C	ars or Trucks	0.31%
Ins	ulation broke	0.00%
Veg	etation/Trees	0.69%
Trees	Cut Into Line	0.01%
E	quipment OL	0.00%
	Rain/ Ice	0.00%
Cas	ed by Others	33.10%
		TO AND THE REST OF THE PARTY OF
9. Circuit 5 Year Average (SAIDI)		112.080
10. Reporting Year (SAIDI)		496.366
11. Circuit 5 Year Average (SAIFI)		0.760
12. Reporting Year (SAIFI)		2.080
13. List of Corrective Action, If Any, Taken or To Be 1	aken	

Circuit #6	
Substation Name and Number	Garrard (13)
Substation Location	489 Richmond Rd., Lancaster, Ky.
Circuit Name and Number	Gilberts Creek (2)
4. Circuit Location	Hwy 52, Hwy 1972
5. Total Circuit Length (Miles)	31.25
6. Customer Count	375
7. Date of Last Circuit Trim	2022
8. Outage Cause (% of Total Outage Numbers)	
Anima	als 61.27%
Lightnir	ng 0.00%
High Wir	nd 0.00%
Equip. Failu	re 0.00%
Deteriorate	ed 0.00%
Cars or Trucl	ks 0.00%
Insulation brok	ke 0.00%
Vegetation/Tree	es 2.49%
Trees Cut Into Lir	ne 0.00%
Equipment C	DL 0.00%
Rain/ lo	ce 0.00%
Cased by Othe	ers 36.24%
9. Circuit 5 Year Average (SAIDI)	112.060
10. Reporting Year (SAIDI)	166.496
11. Circuit 5 Year Average (SAIFI)	0.318
12. Reporting Year (SAIFI)	1.549
13. List of Corrective Action, If Any, Taken or To Be Taken	

Circuit #7		
Substation Name and Number	Broughtontown (16)
2. Substation Location	7400 Ky Hwy 643	3
3. Circuit Name and Number	Hwy 150 (1)	
4. Circuit Location	Hwy 643, Hwy 18	50
5. Total Circuit Length (Miles)		88.47
6. Customer Count		776
7. Date of Last Circuit Trim		2022
8. Outage Cause (% of Total Outage Numbers)		
	Animals	5.23%
	Lightning	0.00%
	High Wind	0.00%
	Equip. Failure	2.05%
	Deteriorated	0.06%
	Cars or Trucks	61.34%
	Insulation broke	0.00%
	/egetation/Trees	30.84%
Tre	ees Cut Into Line	0.36%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
	Cased by Others	0.11%
9. Circuit 5 Year Average (SAIDI)		8.526
10. Reporting Year (SAIDI)		224.020
11. Circuit 5 Year Average (SAIFI)		0.037
12. Reporting Year (SAIFI)		2.188
13. List of Corrective Action, If Any, Taken or To I	Be Taken	

	2023	
Circuit #8		
Substation Name and Number	Broughtontown (16)	
2. Substation Location	7400 Ky Hwy 643	
3. Circuit Name and Number	Hwy 27 (3)	
4. Circuit Location	Hwy. 643, Hwy.	1781, Hwy. 39
Total Circuit Length (Miles)		80.15
6. Customer Count		664
7. Date of Last Circuit Trim		
8. Outage Cause (% of Total Outage Numbers)		
	Animals	0.12%
	Lightning	0.00%
	High Wind	0.00%
	Equip. Failure	0.11%
	Deteriorated	0.00%
	Cars or Trucks	28.33%
	nsulation broke	0.00%
V	egetation/Trees	53.61%
Tre	es Cut Into Line	0.00%
	Equipment OL	0.00%
	Rain/ Ice	0.00%
C	ased by Others	17.84%
9. Circuit 5 Year Average (SAIDI)		84.868
10. Reporting Year (SAIDI)		443.485
11. Circuit 5 Year Average (SAIFI)		0.318
12. Reporting Year (SAIFI)		4.081
13. List of Corrective Action, If Any, Taken or To B	e Taken	

Electric Distribution Utility Annual Reliability Report

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

Inter-County Energy does a 6 yea	r cycle cut with two year cycle spray program.
,	
	CECTION 7. LITH ITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS
	SECTION 7: UTILITY COMMENTS