



A Touchstone Energy Cooperative 

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PUBLIC SERVICE  
COMMISSION

April 23, 2021

Ms. Linca C. Bridwell, P.E.  
Executive Director  
Kentucky Public Service Commission  
P. O. Box 615  
Frankfort, KY 40602-0615

**Re: ADMINISTRATIVE CASE NO. 2006-00494  
AN INVESTIGATION OF THE RELIABILITY MEASURES OF KENTUCKY'S  
JURISDICTIONAL ELECTRIC DISTRIBUTION UTILITIES AND CERTAIN RELIABILITY  
MAINTENANCE PRACTICES**

Dear Ms. Bridwell:

Enclosed is Inter-County Energy Cooperative's Annual Report of Reliability pursuant to Public Service Commission Case No. 2006-00494 dated October 26, 2007.

If you have further questions or comments, please direct those to David Phelps, Vice President-Operations, 859-936-7818, [davidp@intercountyenergy.net](mailto:davidp@intercountyenergy.net) or to Jessie Turpin, System Engineer, 859-936-7857, [jessie@intercountyenergy.net](mailto:jessie@intercountyenergy.net).

Sincerely,

Jerry W. Carter  
President/CEO

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# Electric Distribution Utility Annual Reliability Report

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## SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Inter-County Energy</u>
REPORT PREPARED BY	1.2	<u>Jessie Turpin</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u><a href="mailto:jessie@intercountyenergy.net">jessie@intercountyenergy.net</a></u>
PHONE NUMBER OF PREPARER	1.4	<u>859-236-4561 ext. 7857</u>

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## SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2020</u>
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## SECTION 3: MAJOR EVENT DAYS

$T_{MED}$	3.1	<u>10.86202</u>
FIRST DATE USED TO DETERMINE $T_{MED}$	3.2	<u>Jan. 1, 2015</u>
LAST DATE USED TO DETERMINE $T_{MED}$	3.3	<u>Dec. 31, 2019</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>2</u>

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.

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## SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS

### System-wide Information

TOTAL CUSTOMERS 26862                      TOTAL CIRCUITS 44

### Excluding MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>101.72</u>	SAIDI	<u>80.95</u>
SAIFI	<u>1.06</u>	SAIFI	<u>0.95</u>

### Including MED

5 YEAR AVERAGE		REPORTING YEAR	
SAIDI	<u>252.56</u>	SAIDI	<u>138.96</u>
SAIFI	<u>1.89</u>	SAIFI	<u>1.52</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  $T_{MED}$

2020

Circuit #1

1. Substation Name and Number	Lancaster (1)
2. Substation Location	Garrard-Buckeye Rd-Lancaster
3. Circuit Name and Number	Lex Road(2)
4. Circuit Location	Lexington Rd, Kember Ln, Fork Church Rd, Danville Hwy, Goggin Ln, Betts Ln, Old Danville Rd
5. Total Circuit Length (Miles)	89.67
6. Customer Count	856
7. Date of Last Circuit Trim	2016
8. Outage Cause (% of Total Outage Numbers)	
	Animals 1.21%
	Lightning 0.40%
	High Wind 8.86%
	Equip. Failure 33.30%
	Deteriorated 0.15%
	Cars or Trucks 0.00%
	Insulation broke 0.05%
	Vegetation/Trees 8.33%
	Trees Cut Into Line 0.66%
	Equipment OL 0.00%
	Rain/ Ice 0.00%
	Cased by Others 47.02%
9. Circuit 5 Year Average (SAIDI)	2.283456471
10. Reporting Year (SAIDI)	4.123656542
11. Circuit 5 Year Average (SAIFI)	1.419032332
12. Reporting Year (SAIFI)	2.66588785
13. List of Corrective Action, If Any, Taken or To Be Taken	

2020

Circuit #2

1. Substation Name and Number	Shelby City(4)
2. Substation Location	Boyle-E Knob Lick Rd-Junction City
3. Circuit Name and Number	Hustonville(2)
4. Circuit Location	USHWY 127N, Moores Ln, KYHWY1194, Jeffries Ln, KY HWY 2141, Harris Creek Rd, Black Pike, Holtzclaw Ln
5. Total Circuit Length (Miles)	59.38
6. Customer Count	1134
7. Date of Last Circuit Trim	2013
8. Outage Cause (% of Total Outage Numbers)	
	Animals 2.39%
	Lightning 0.99%
	High Wind 5.54%
	Equip. Failure 0.68%
	Deteriorated 0.00%
	Cars or Trucks 81.58%
	Insulation broke 0.00%
	Vegetation/Trees 1.54%
	Trees Cut Into Line 0.37%
	Equipment OL 0.00%
	Rain/ Ice 0.00%
	Cased by Others 6.91%
9. Circuit 5 Year Average (SAIDI)	0.694829806
10. Reporting Year (SAIDI)	3.563036449
11. Circuit 5 Year Average (SAIFI)	0.583141517
12. Reporting Year (SAIFI)	1.636684303
13. List of Corrective Action, If Any, Taken or To Be Taken	

2020

Circuit #3

1. Substation Name and Number	Shelby City(4)
2. Substation Location	Boyle-E Knob Lick Rd-Junction City
3. Circuit Name and Number	Alum Springs(4)
4. Circuit Location	W Knob Lick Rd, White Oak Rd, Nosco Rd, Hogue Hollow Rd, Alum Springs Rd, Alum Springs Crosspike, Stewarts Ln
5. Total Circuit Length (Miles)	80.86
6. Customer Count	1154
7. Date of Last Circuit Trim	2014
8. Outage Cause (% of Total Outage Numbers)	
Animals	1.15%
Lightning	0.94%
High Wind	26.33%
Equip. Failure	0.27%
Deteriorated	1.03%
Cars or Trucks	0.42%
Insulation broke	0.00%
Vegetation/Trees	67.47%
Trees Cut Into Line	0.15%
Equipment OL	0.00%
Rain/ Ice	0.00%
Cased by Others	2.24%
9. Circuit 5 Year Average (SAIDI)	0.726714431
10. Reporting Year (SAIDI)	1.992099942
11. Circuit 5 Year Average (SAIFI)	0.54362589
12. Reporting Year (SAIFI)	2.119584055
13. List of Corrective Action, If Any, Taken or To Be Taken	

# Electric Distribution Utility Annual Reliability Report

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

Inter-County Energy revised cycle to include worst performing circuits in 2019 and completed the fourth year of its 6 year vegetation management plan. Inter-County Energy is closely monitoring the results of the cycle progress. The two circuits in this report feeding from the Shelby City substation are in the 2021 cycle and the circuit feeding from the Lancaster substation is in the 2022 cycle.

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SECTION 7: UTILITY COMMENTS

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