

SAID

**SAIDI** (System Average Interruption Duration Index) – a system index of average duration of interruption in the power supply indicated in minutes per customer.

SAIDI = total duration of interruptions for a group of customers Number of all customers

Are	a						
	⊞Area	73	1,650	1,703.80	1,105	25,782	33,411.33
Cause							
	⊞ Planned Outage	46	97	82.38	650	1,726	1,697.77
		5	32	46.62	117	4,161	7,362.97
	⊞ Maintenance	2	4	2.47	51	4,633	5,405.00
	⊞ Weather	7	198	164.47	197	9,992	13,470.02
	⊞ Animals	3	1,129	1,036.92	16	1,205	1,105.22
	⊞ Public	7	187	366.17	44	2,071	2,734.27
	⊞ Other	0	0	0.00	4	817	118.02
	⊞ Unknown	3	3	4.78	26	1,177	1,518.08

Equipment/Material Failure										
		3	64	110.03	14	2,018	4,726.08			
	Overhead Line Conductors and Devices, Distribution	8	344	460.10	74	5,206	9,415.32			
	⊞ Underground Line Conductors and Devices, Distribution	0	0	0.00	24	1,598	2,706.53			
		0	0	0.00	9	20	61.03			
		4	6	5.53	116	224	375.10			
	⊞ No Equipment Damaged	58	1,236	1,128.13	868	16,716	16,127.27			
V	oltage Level	Image: Note of the state of the st								
		73	1,650	1,703.80	1,105	25,782	33,411.33			
W	eather Condition									
	Weather Condition Codes	73	1,650	1,703.80	1,105	25,782	33,411.33			

KEY RATIO TREND ANALYSIS COMPARES LINE-ITEM DATA FROM A **COMPANY'S FINANCIAL STATEMENTS TO REVEAL INSIGHTS REGARDING PROFITABILITY,** LIQUIDITY, OPERATIONAL EFFICIENCY, AND SOLVENCY. KRTA CAN BE USED TO LOOK AT TRENDS OVER TIME FOR ONE COMPANY OR TO COMPARE COMPANIES WITHIN AN INDUSTRY OR SECTOR.

## What The KRTA DOES

- Assists in Analyzing System Operations
- Highlight Areas of Strengths and Weaknesses
- Indicator of Future Performance
- Provides Positive and Negative Trending



### What The KRTA DOES

• A High Level Look at Comparisons to Peers

• Must be Looked at as a Whole

#### The KRTA DOES NOT

- Answer Why a Cooperative is High or Low in a Specific Ratio or Ratios
- View Ratios in Context of the Year's Unusual Events

## Cautions: Differences exist in...

System characteristics

- Density
- Terrain
- Member mix
- Weather
- Strategic initiatives

Reporting errors In short – how are you different from the "median" cooperative

V176 2019/06/27

2018 Key Ratio Trend Analysis (KRTA) La Plata Electric Association, Inc. (CO032) Page 23

	US Total			State Grouping			Consumer Size			Major Current P	ower Su	ıpplier	Plant Growth (2013-2018)			
Year	System Value	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank
RATIO 1	RATIO 144 SYSTEM AVG. INTERRUPTION DURATION INDEX (SAIDI) - TOTAL															
2014	61.36	179.70	813	713	106.36	22	17	197.82	57	54	161.99	44	37	185.90	117	105
2015	165.66	194.60	811	463	121.76	22	10	225.61	56	37	177.50	44	24	199.55	117	71
2016	109.38	205.00	809	621	162.40	22	16	208.86	60	50	353.65	44	35	179.16	31	24
2017	161.99	207.48	813	501	143.86	22	10	225.64	63	43	193.60	44	29	271.00	29	22
2018	139.58	228.44	814	556	133.39	22	10	262.90	61	48	281.80	43	29	139.58	7	4

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		US To	otal		State Gro	ouping		Consum	er Size		Major Current P	ower Su	ıpplier	Plant Growth	(2013-2018)	
Year	System Value	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank	Median	NBR	Rank
RATIO	142 SYSTEM AVG. II	NTERRUPTION I	DURATI	ON INDEX	(SAIDI) - PREA	ARRAN	GED									
2014	3.96	2.61	813	331	2.73	22	8	4.10	57	30	1.43	44	15	1.53	117	39
2015	5.28	2.73	811	310	2.10	22	6	3.81	56	21	2.05	44	15	2.78	117	45
2016	5.38	2.69	809	312	2.60	22	8	3.57	60	22	3.62	44	19	1.20	31	8
2017	4.62	3.02	813	333	5.01	22	12	3.22	63	26	4.87	44	23	1.15	29	13
2018	15.62	3.61	814	151	5.83	22	6	4.98	61	8	8.35	43	17	2.05	7	2

# OISTRIBUTION UTILITY OF THE FUTURE: RELIABILITY GOAL

To facilitate technology advances for a Distribution Utility of the Future, LPEA will strive to improve customer satisfaction in reliability by achieving the upper half of the System Average Interruption Duration Index (SAIDI) within the Key Ratio Trend Analysis (KRTA) of the Colorado peer group V176 2019/06/27

2018 Key Ratio Trend Analysis (KRTA) La Plata Electric Association, Inc. (CO032)

US Total State Grouping Consumer Size Major Current Power Supplier Plant Growth (2013-2018) System Value Median NBR Rank Year RATIO 144 --- SYSTEM AVG. INTERRUPTION DURATION INDEX (SAIDI) - TOTAL 2014 61.36 179.70 813 713 106.36 22 17 197.82 57 54 161.99 44 37 185.90 117 105 177.50 2015 194.60 463 121.76 22 10 225.61 44 24 199.55 71 165.66 811 56 37 117 2016 109.38 205.00 809 621 162.40 22 16 208.86 60 50 353.65 44 35 179.16 31 24 2017 207.48 813 143.86 22 10 44 29 271.00 29 22 161.99 501 225.64 63 43 193.60 2018 133.39 22 29 139.58 228.44 814 556 10 262.90 61 48 281.80 43 139.58 7 4

Page 23