6/6/2025

The information provided here is for informational and educational purposes and current as of the date of publication. The information is not a substitute for legal advice and does not necessarily reflect the opinion or policy position of the Municipal Association of South Carolina. Consult your attorney for advice concerning specific situations.





Retail Service Territory



Distribution System Overview – Santee Cooper's distribution system is comprised of:

- o 216,612 retail customers
- 60 distribution substations
- \circ 300 distribution circuits
- 110,118 poles
- o 72,784 streetlights
- Primary: 3,195 miles (43% OH and 57% UG)
- $\circ~$ Secondary: 2146 miles (36%OH and 64% UG)
- Services: 1417 miles (18% OH and 82% UG)



Reliability vs Resiliency

Reliability

- Normal conditions ("Blue sky" days) incl small events
- Controllable factors (equipment, vegetation, maintenance)
- Reports exclude
 - Major Event Days
 - Loss of Source, Planned outages
- Why it matters
 - Reflects baseline system health
 - Guides routine maintenance

Resiliency

• Withstand and recover from major events (hurricanes, ice storms)

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- Strength of infrastructure, response time, automated restoration
- Improvements
 - Undergrounding, steel/larger poles
 - Enhanced vegetation mgmt.
 - Smart grid automation
- Why it matters
 - Response and recovery time
 - Public trust

Distribution – Reliability Metrics

Annual reliability performance index with and without major event days:

SAIDI – System Average Interruption Duration Index

Annual SAIDI (minutes)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total SAIDI (no excl)	38.5	2137.8	34.5	544.5	135.2	50.6	27.6	223.2	58.7	58.4
SAIDI - MED	37.1	33.2	26.8	30.7	23.6	29.6	27.6	35.8	46.9	55.2
SAIDI all exclusions	23.0	23.5	18.8	20.6	18.9	23.9	20.7	23.7	22.3	25.9

CAIDI – Customer Average Interruption Duration Index

Annual CAIDI (minutes)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Total CAIDI (no excl)	62.5	968.6	64.2	489.8	163.9	80.5	54.7	176.4	73.1	85.0
CAIDI - MED	61.6	58.0	54.5	68.9	65.3	61.6	54.7	51.0	75.6	85.6
CAIDI all exclusions	78.9	59.0	58.0	65.8	71.3	61.4	61.9	52.1	65.5	63.1

Distributio	•n –	Relia	abili	ty M	letri	CS				P sar	ntee coope
Annual reliability pe	erforma	nce inde	x with a	nd withc	out majo	r event (days:			1	
CAIDI Custom											
SAIDI – System	Avera	age Int	errup	:ion Di	iration	Index					1
Annual SAIDI (minutes)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Total SAIDI (no excl)	38.5	<mark>2137.8</mark>	34.5	544.5	135.2	50.6	<mark>27.6</mark>	223.2	58.7	58.4	
SAIDI - MED	37.1	33.2	26.8	30.7	23.6	29.6	27.6	35.8	46.9	55.2	
SAIDI all exclusions	23.0	23.5	<mark>18.8</mark>	20.6	18.9	23.9	20.7	23.7	22.3	<mark>25.9</mark>	
CAIDI — Custon	ner Av 2015	verage 2016	Interro 2017	uption	Durati	ion Inc 2020	lex 2021	2022	2023	2024	
Total CAIDI (no excl)	62.5	968.6	64.2	489.8	163.9	80.5	54.7	176.4	73.1	85.0	
CAIDI - MED	61.6	58.0	54.5	68.9	65.3	61.6	54.7	51.0	75.6	85.6	
	70.0	F0.0	F0 0	65.0	71.2	61 /	61.0	52.1	65 5	62.1	

Distribution - Maj	or Event	S			Sant	ee co
	Storm	Year	Customers Out	% Customers Affected	Event Days	
	Matthew	2016	137,000	77.5%	6.9	
	Irma	2017	8,344	4.6%	1.1	
	Michael	2018	7,480	4.0%	0.4	
Impact of	Florence	2018	50,310	27.2%	4.0	
notable	Dorian	2019	20,986	11.1%	2.7	
events -	Isaias	2020	12,693	6.5%	0.5	
last 10 years	Elsa	2021	10,454	5.3%	0.5	
	Jasper (W)	2022	10,621	5.2%	0.6	
	lan	2022	70,000	34.2%	2.9	
	Idalia	2023	2,709	1.3%	0.8	
	Finn (W)	2024	4,414	2.0%	1.3	
	Debby	2024	5,241	2.4%	2.4	
	Helene	2024	8,811	4.1%	1.1	
	 Note: Winter s noteworthy ev 	torm Elliott (: ents for Distr	2022) and winter storr ibution.	m Enzo (2025) were n	ot	



stribution - Infrastructure Age							
< 10 years	10-20 years	20-30 years	> 30 years				
13.7%	12.5%	17.8%	56.0%				
20.2%	22.3%	7.9%	49.6%				
19.9%	38.5%	32.0%	9.6%				
4.6%	15.9%	15.9%	63.6%				
26.0%	25.9%	34.4%	13.6%				
	 Infrastru < 10 years 13.7% 20.2% 19.9% 4.6% 26.0% 	Infrastructure Age < 10 years	Infrastructure Age < 10 years 20-30 years 13.7% 12.5% 17.8% 20.2% 22.3% 7.9% 19.9% 38.5% 32.0% 4.6% 15.9% 15.9% 26.0% 25.9% 34.4%				











Distribution - Reliability/Resiliency Measures

- Undergrounding Initiatives with municipal partners:
 - Franchise-funded OH to UG conversions with cities
 - Joint effort between Santee Cooper and Local Government
 - Improves reliability and resiliency
 - 50/50 match \$2.64M collected in 2024
 - Three-year budget: \$6.9M \$7.2M per year
 - Historical spend: \$96M inception to date (2005-2024)
- Underground cable replacements
 - \$600,000 budgeted for underground cable replacement
- #6 Copper wire conductor upgrades \$500,000 2025-2026
- Substation Asset Management Program
 - \$1.5M budgeted annual to upgrade/replace aging substation equipment
 - Includes: Automated Circuit Switchers, Distribution Breakers, Distribution Regulators, and Substation Relays

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