



GRID RESILIENCY ON THE GULF COAST

STEPHEN SCHRUFF, TRANSMISSION & EMERGENCY OPERATIONS



RELIABILITY

Google definition – being trustworthy or performing consistently well

FERC: adequate, secure and stable flow of electricity as consumers need it through reliable operation and resource adequacy

RESILIENCY

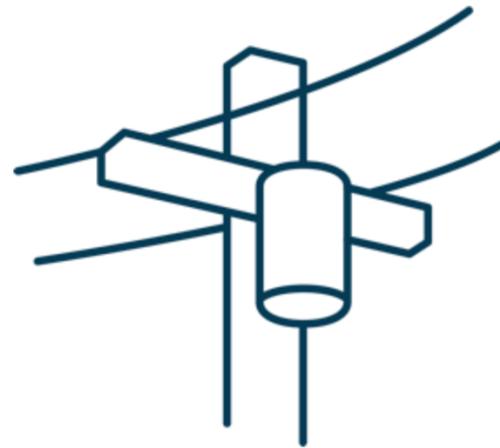
Google definition - capacity to withstand or to recover quickly from difficulties; ability to spring back into shape

FERC: ability to withstand and/or reduce magnitude and duration of disruptive events that are high impact, lower probability



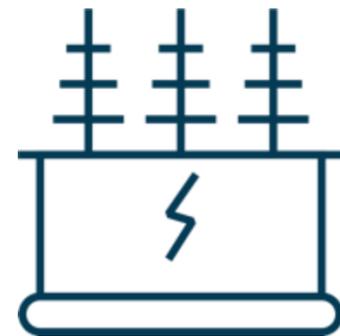
MISSISSIPPI POWER

COMPANY OVERVIEW



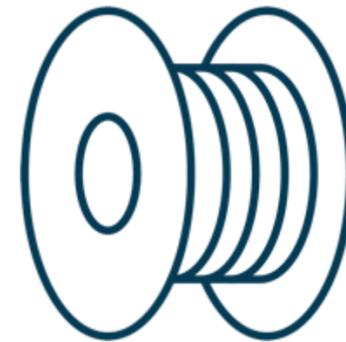
7,847

Miles of
overhead
lines



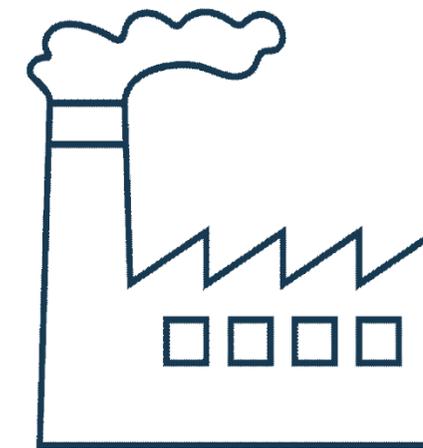
147

Substations



670

Miles of
underground
lines



6

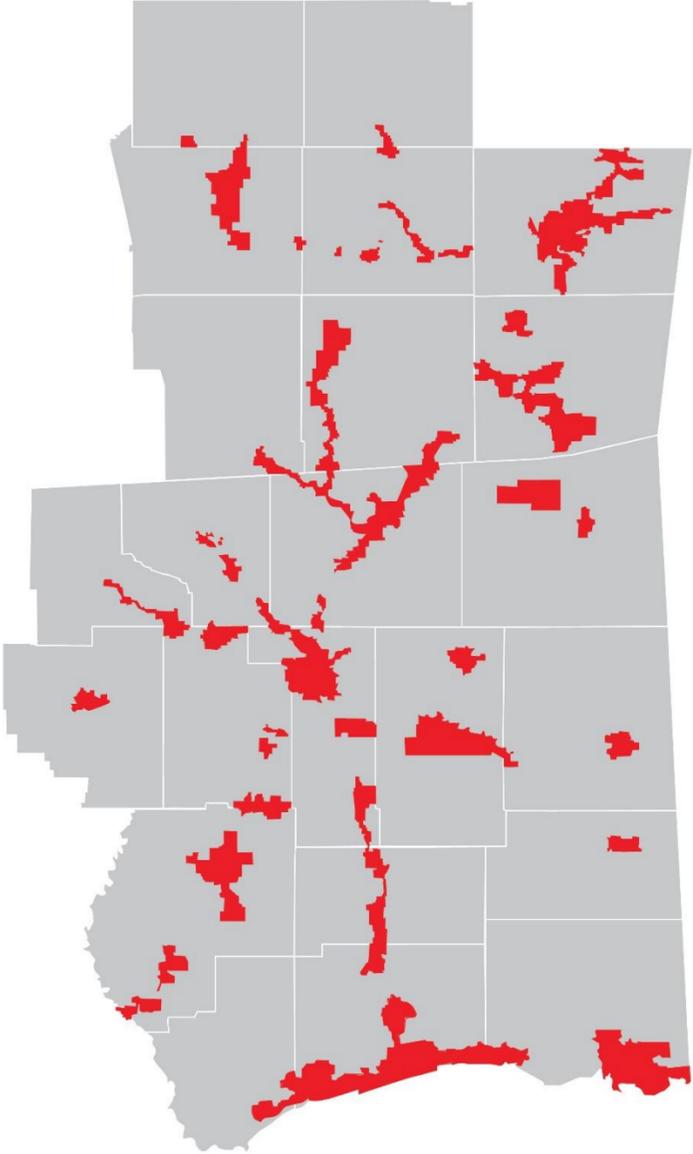
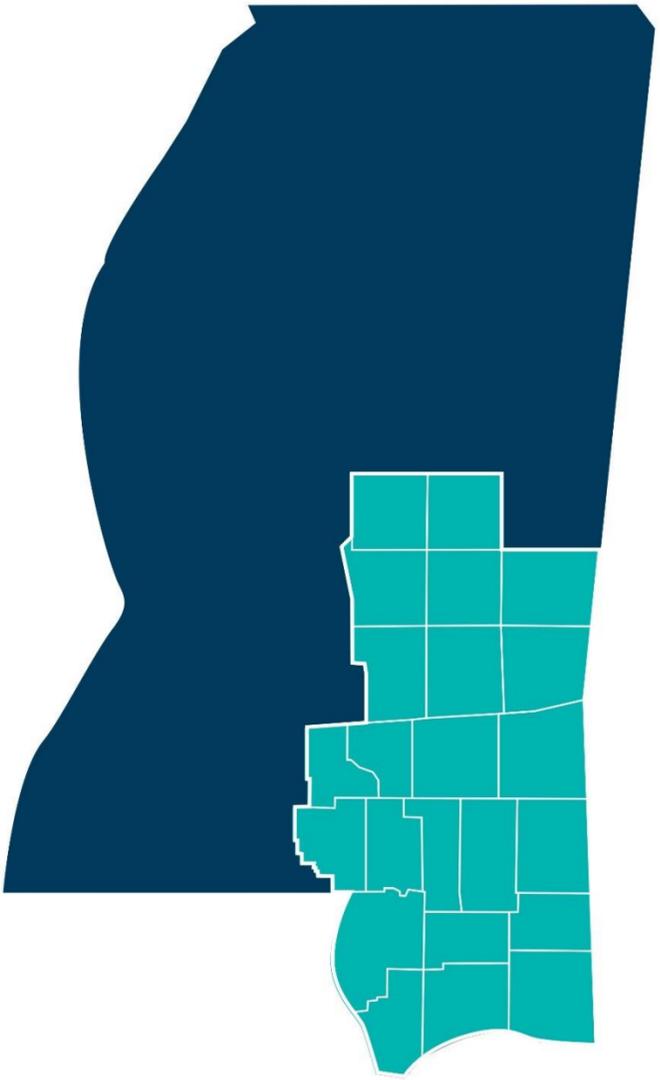
Generating
facilities



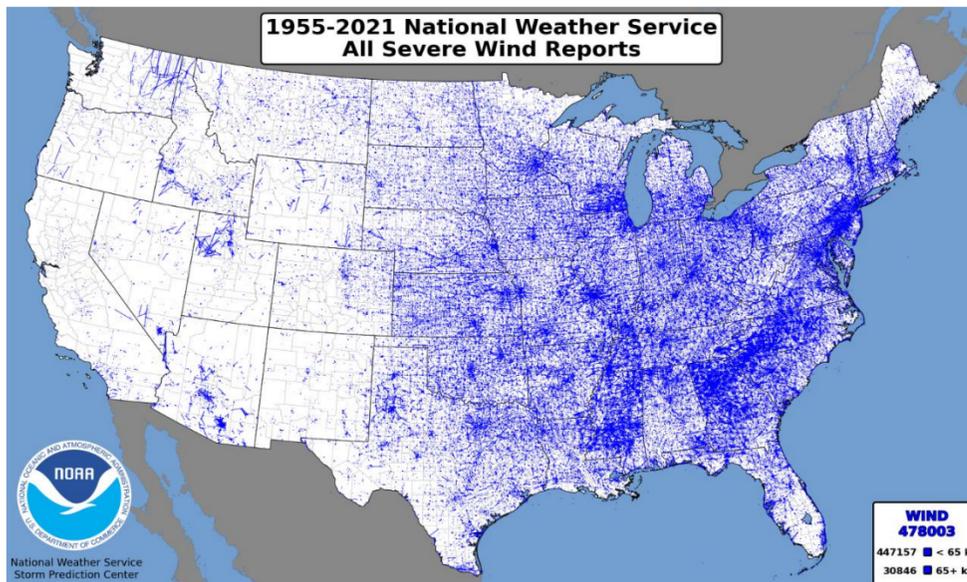
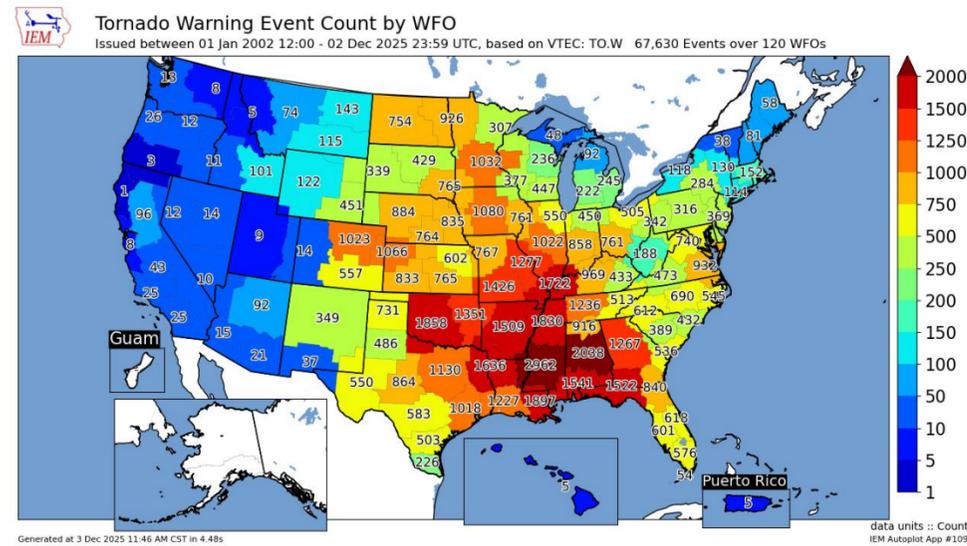
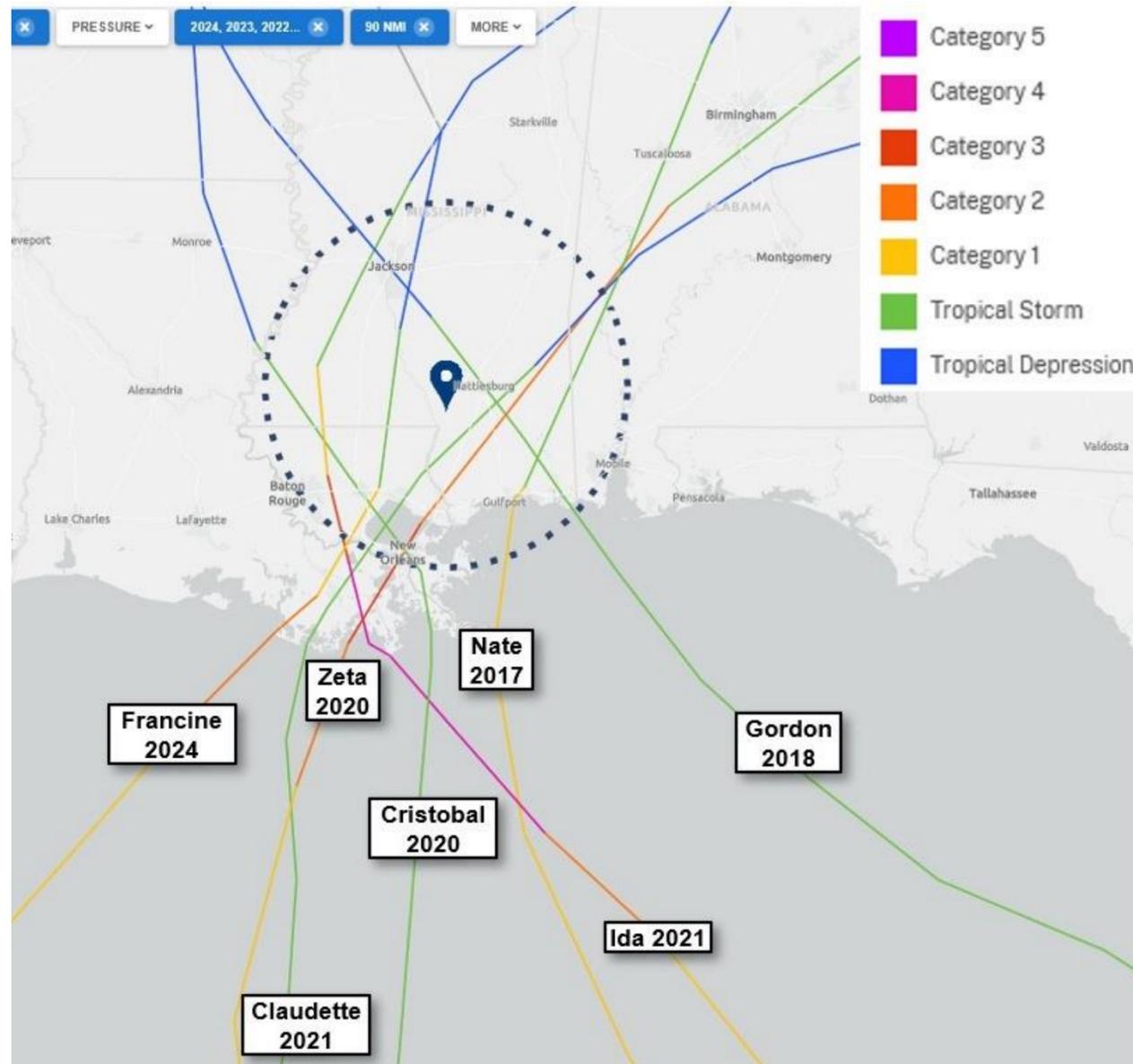
192,563

Customers

OUR SERVICE AREA



EXTREME WEATHER AND SOUTHEAST MISSISSIPPI



KATRINA AND ZETA

LESSONS LEARNED



KATRINA

- 100% of customers without power
- 9,000 poles damaged
- 300 transmission structures damaged
- 3,000 miles of wire down
- 18 substations flooded
- Restored service to all customers in 12 days

ZETA

- Approximately 95,000 customers out of power
- 500 poles damaged
- 75 miles of wire down
- 31 transmission structures replaced
- Restoration completed in 5 days





GRID INVESTMENT

STRENGTHENING OUR SYSTEM FOR
INCREASED RELIABILITY AND RESILIENCY



STORM
HARDENING

AUTOMATION AND
REMOTE
MONITORING

CYBER SECURITY AND
RESOURCE
ADEQUACY

STORM HARDENING

7,000

Distribution poles to be upgraded over the next 15 years – 500 replaced since 2024

500

Drop-out-reclosers installed since 2024

245

Miles of underground long-haul fiber replaced over the next five years

16

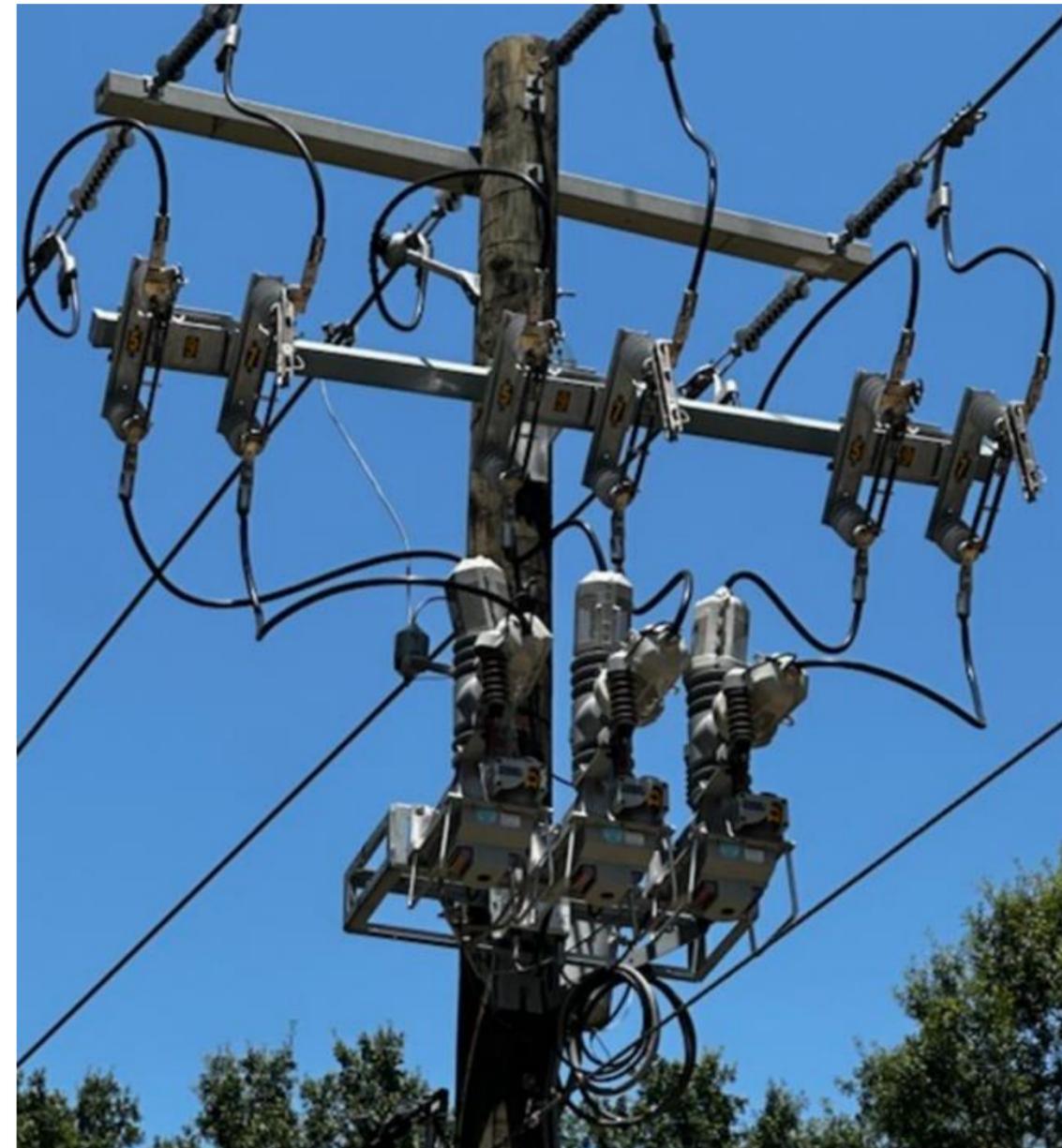
Substations elevated to protect critical equipment from storm surge and floodwaters





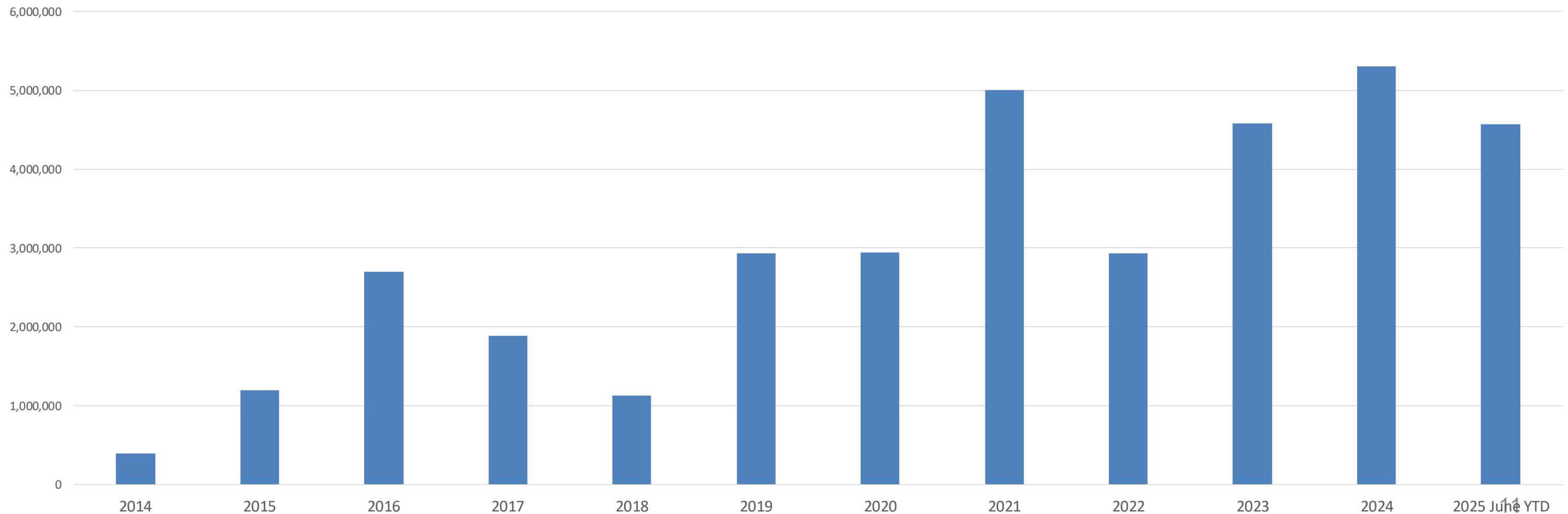
BAYOU CASOTTE SUBSTATION REBUILD

AUTOMATION AND REMOTE MONITORING



CUSTOMER OUTAGE MINUTES SAVED

More than 39 Million Avoided Customer-Minutes-Interrupted Due to Self-Healing Networks



CYBER SECURITY AND RESOURCE ADEQUACY



TOOLS AND TECHNOLOGY

SPEAR

Storm planning, estimated outage times and reporting

Leverage weather and outage data

Five-day view of storm impact

GridCritical

Storm resource management for manpower and logistics

ESDA

Electric system damage assessment

Unmanned aerial system

Drones

Starlink satellite phones

Emergency communications



***POWERING TODAY FOR A
BRIGHTER AND STRONGER
TOMORROW***





Mississippi
Power