



FPL®



Power Delivery Overview

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Florida Power & Light Company
November 3, 2015





Miami is the art deco capital of the world, with more than 800 structures

WELCOME TO SUNNY SOUTH BEACH!



1925 – Miami ice plant



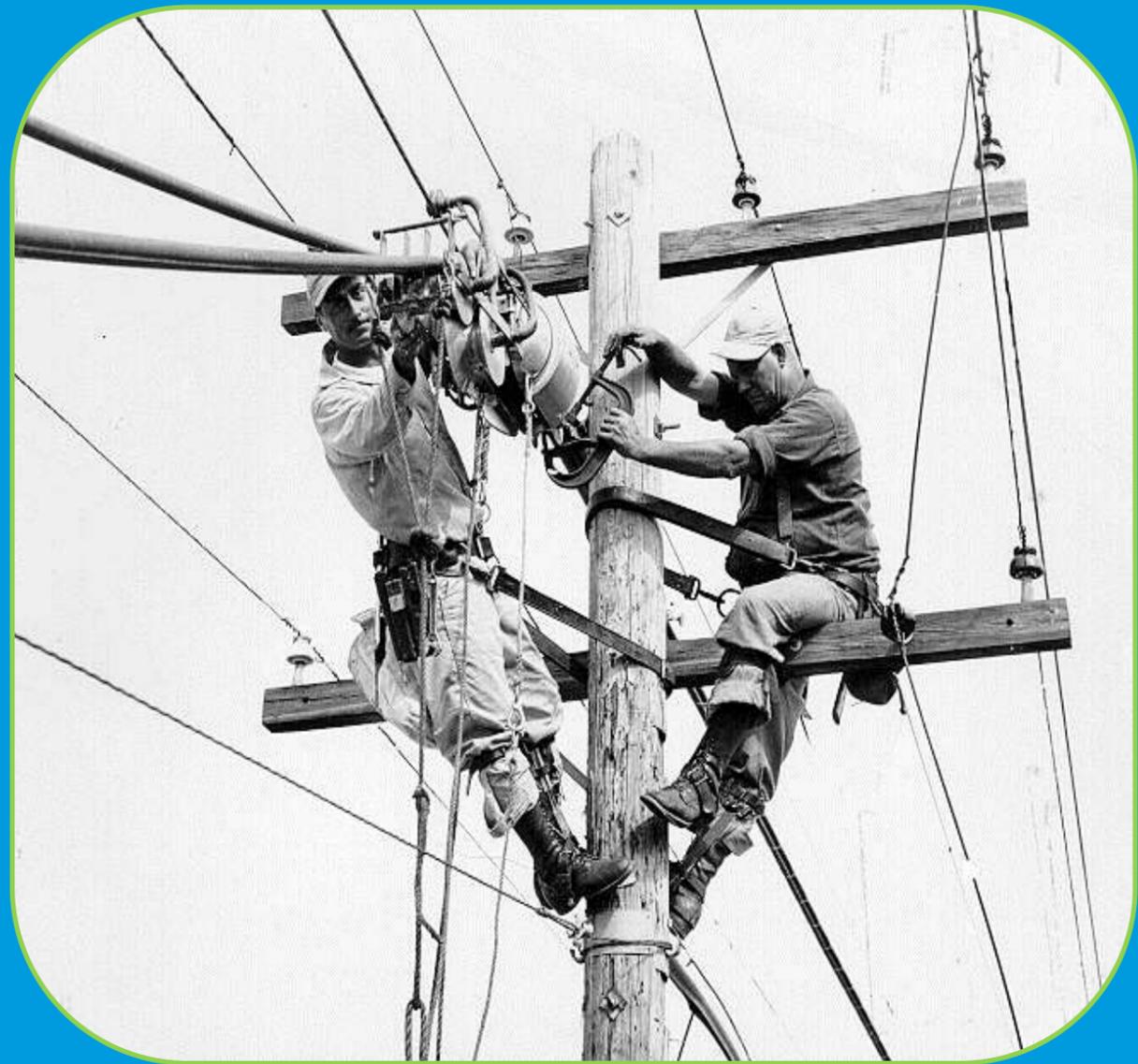
1927 –
St. Augustine ice plant
and horse-drawn cart



COOL ROOTS



1940s –
FPL line crew
and truck



DYNAMITE DAYS

NEXtera[®] ENERGY



- » Fortune 200 & named one of the “World’s Most Admired Companies” – among top 10 companies in the world for innovativeness and community responsibility
- » Headquartered in Florida
- » More than \$60 billion invested in infrastructure improvements (2004-2014)
- » #1 producer of renewable energy from the wind and sun in the world

Extensive Power Delivery Infrastructure

590 substations
3,000 employees
74,000 miles of power lines
879,000 transformers
1.2 million poles and structures
4.8 million customers



**We're building the
most resilient
infrastructure**



CHANGING THE CURRENT.





**More thunderstorms
and lightning
than any other
region in the U.S.**



**One of the
fastest tree
growths in
the U.S.**



**Higher probability
of hurricanes and
tropical storms**

**WE CONTINUE TO BE CHALLENGED BY
THE WEATHER**



'04 AND '05 STORM SEASONS
FOREVER CHANGED US



In 2006, we launched our Storm Secure program



Hardening

Pole inspections

Vegetation management

Underground conversions

\$2 billion investment since 2006 to strengthen the electrical infrastructure

Hardening

572

main power lines

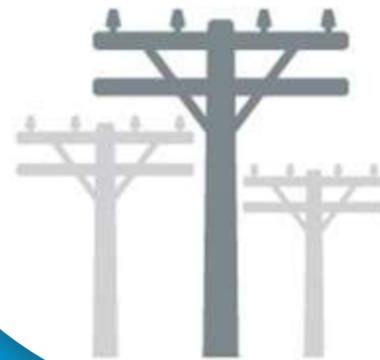


serving critical and community facilities

Inspected more than

1.2 million

poles for strength



Cleared vegetation from

120,000

miles of power lines



a distance nearly five times the earth's circumference

Converted
37,000
customers



from overhead to underground

Hardening

53,000

transmission structures



Replaced all
5,560

ceramic post on concrete structures



Completed all

223

substation flood monitors



By 2016, we'll strengthen every main power line serving critical community facilities

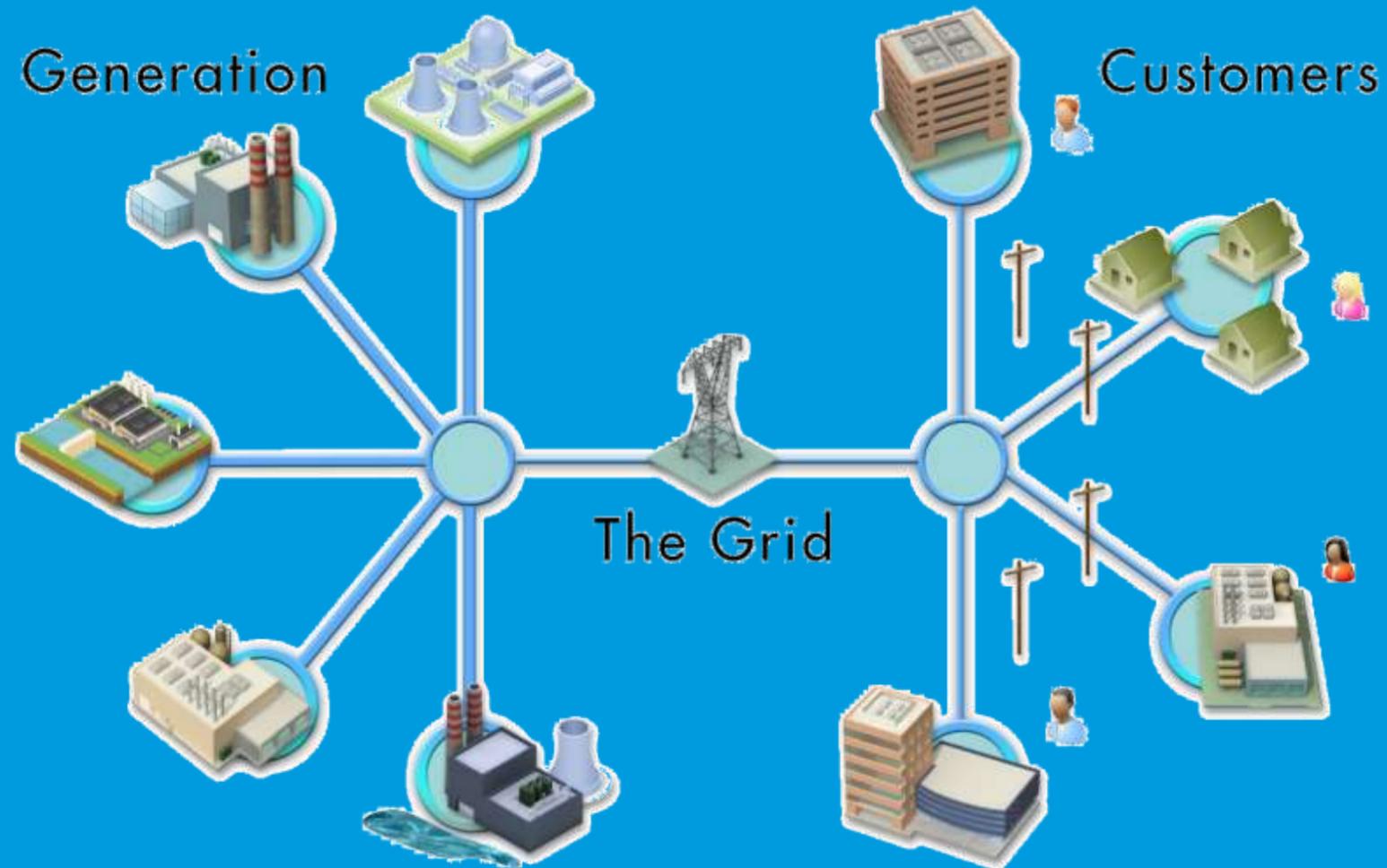
- ▶ Approximately half of our infrastructure will be hardened or underground by 2016





Nation's most advanced electrical grid

The electric grid of today



- ▶ Is now undergoing dramatic changes due to renewable and sustainability drivers, technology breakthroughs and customer demands

What does tomorrow's grid look like?



Our customers value technology that improves their lives

- ▶ Smart TVs and home theaters
- ▶ Smart phones
- ▶ Smart appliances
- ▶ Smart and connected game consoles
- ▶ Smart furniture with charging ports
- ▶ Smart home gyms



Laying groundwork for the grid of the future



Future Optimization and Automation

Predictive equipment, emerging technologies



2011-2014 Information Utility

Faster grid restoration, early warnings



2010 EnergySmart Florida

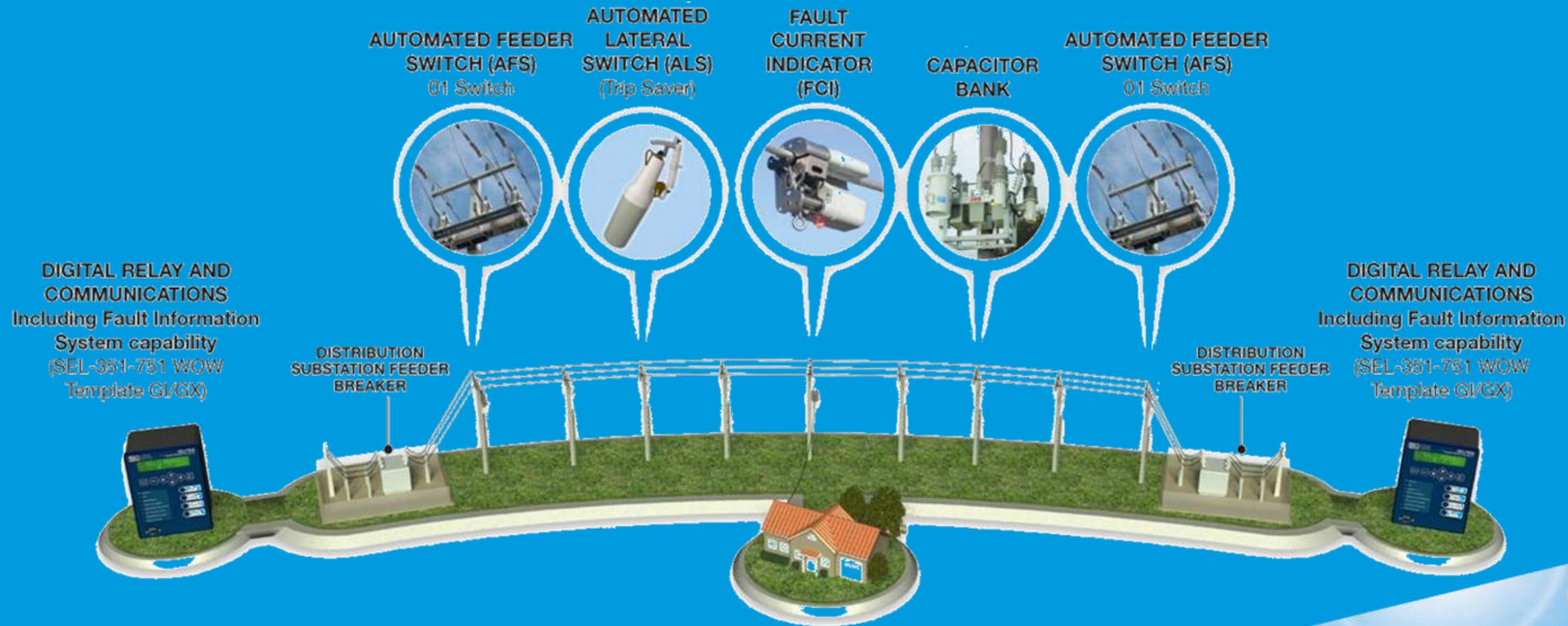
Smart meters and real-time



Prior to 2010 Foundation

Analog meters

New smart equipment = new normal



Groundwork starts with communications

- ▶ One of the larger RF mesh deployments linking 4.8MM smart meters and over 12,000 smart devices including line sensors and switches
- ▶ FPL field crews are digitally connected via vehicle area networks and our own 900Mhz radio system to improve awareness and mobility
- ▶ All of our 590 substations will be digitally connected by 2017
- ▶ Linking 500,000 streetlights together for better mesh communications

Communications that can grow with us

Operational and customer needs are driving data needs faster than ever

- ▶ New smart devices and sensors
- ▶ Video streaming and detection needs
- ▶ Connecting hurricane response crews
- ▶ Flood monitoring at electrical facilities
- ▶ Motion and acoustic sensing requirements



The electric grid of tomorrow



- ▶ Will be more resilient, flexible and intelligent
- ▶ Will have more self healing and automation



We're getting smarter, too



- ▶ State-of-the-art control centers
- ▶ Advanced sensors and switches prevent outages
- ▶ Advanced monitoring systems aid engineers and mobile field crews in restoring power faster

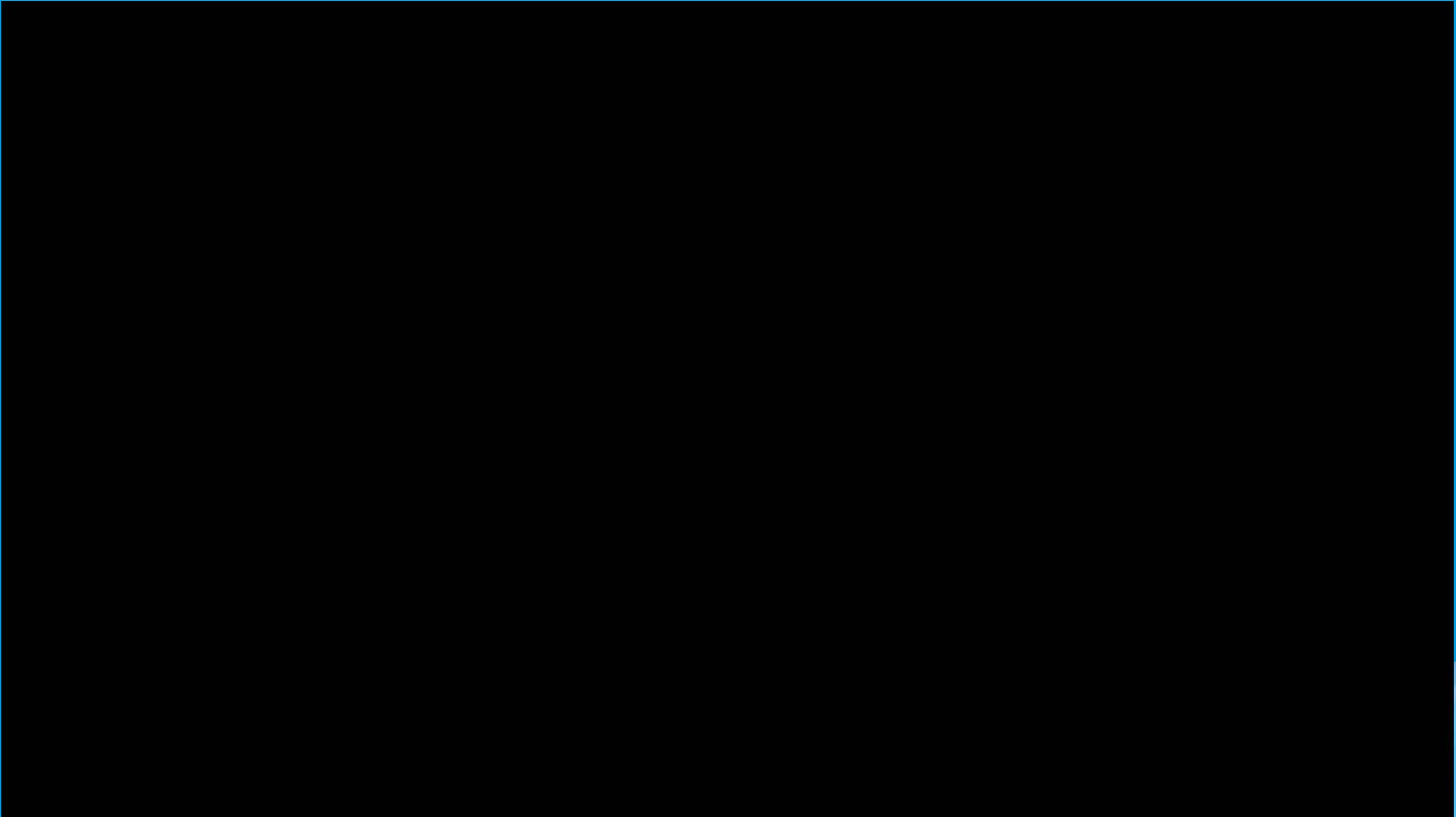
**BUILDING THE NATION'S MOST ADVANCED
ELECTRICAL GRID**

Smart grid helps predict outages

- ▶ 3,000 proactive investigations
- ▶ 90 percent accurate in detecting an intermittent electrical issue
- ▶ Preventing unplanned outages even without a customer calling







Smart grid delivers benefits

\$30M

O&M savings

100K

fewer truck
rolls

500K

customer
outages
avoided

2,000

transformers
proactively
replaced



Committed to becoming the nation's best utility

- ▶ Best reliability in Florida
- ▶ World-class customer satisfaction
- ▶ Among the lowest bills in the state

WORKING TO BECOME #1

