The Florida Senate

COMMITTEE MEETING EXPANDED AGENDA

SELECT COMMITTEE ON RESILIENCY
Senator Albritton, Chair
Senator Pizzo, Vice Chair

MEETING DATE: Wednesday, January 25, 2023
TIME: 3:30—5:30 p.m.
PLACE: *Pat Thomas Committee Room,* 412 Knott Building

MEMBERS: Senator Albritton, Chair; Senator Pizzo, Vice Chair; Senators Avila, Berman, Bradley, Calatayud, Collins, Davis, Grall, Gruters, Harrell, Ingoglia, Martin, Polsky, Powell, Stewart, Thompson, Trumbull, and Wright

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1		Presentation by Florida's Electric Utilities on Infrastructure Hardening	Presented
2		Presentation on Hurricane Michael Recovery	Presented
		Other Related Meeting Documents	

Strengthening Resiliency, Reliability and Adaptability

Andy Pankratz
Senior Director, Emergency Preparedness
Florida Power & Light Company

FPL is the state's largest utility serving 5.8 million customers in 43 counties

9,174 miles of transmission lines
77,424 miles of distribution lines
832 substations
82,668 transmission structures
1.4 million distribution poles
1.1 million transformers
35,550 square miles

(Figures as of January 2022)

CHANGING THE CURRENT. FPL.

Florida is America's most hurricane-prone state and presents many other resiliency and reliability challenges




- FPL's service area covers more than half of Florida
- More than 80% of customers live within 20 miles of the coast
- Electrical facilities exposed to salt spray environment
- More thunderstorms and lightning than any other U.S. region
- Subtropical climate promotes rapid tree growth
- Higher probability of a hurricane striking
- One of the fastest growing states in U.S.

The historic 2004-05 hurricane seasons set FPL on a mission to make the grid more storm-resilient

CHANGING THE CURRENT.

FPL has a proven plan to restore power

A. We start by repairing damage to our power plants and the damaged lines that carry electricity from our plants to local substations

B. Simultaneously, we restore power to functions that provide essential services to our communities, such as hospitals, police stations and fire stations

C. At the same time, we work to return service to the largest number of customers in the shortest amount of time

D. Then, we repair the infrastructure serving smaller groups and neighborhoods, converging on the hardest hit areas until every customer's power is restored

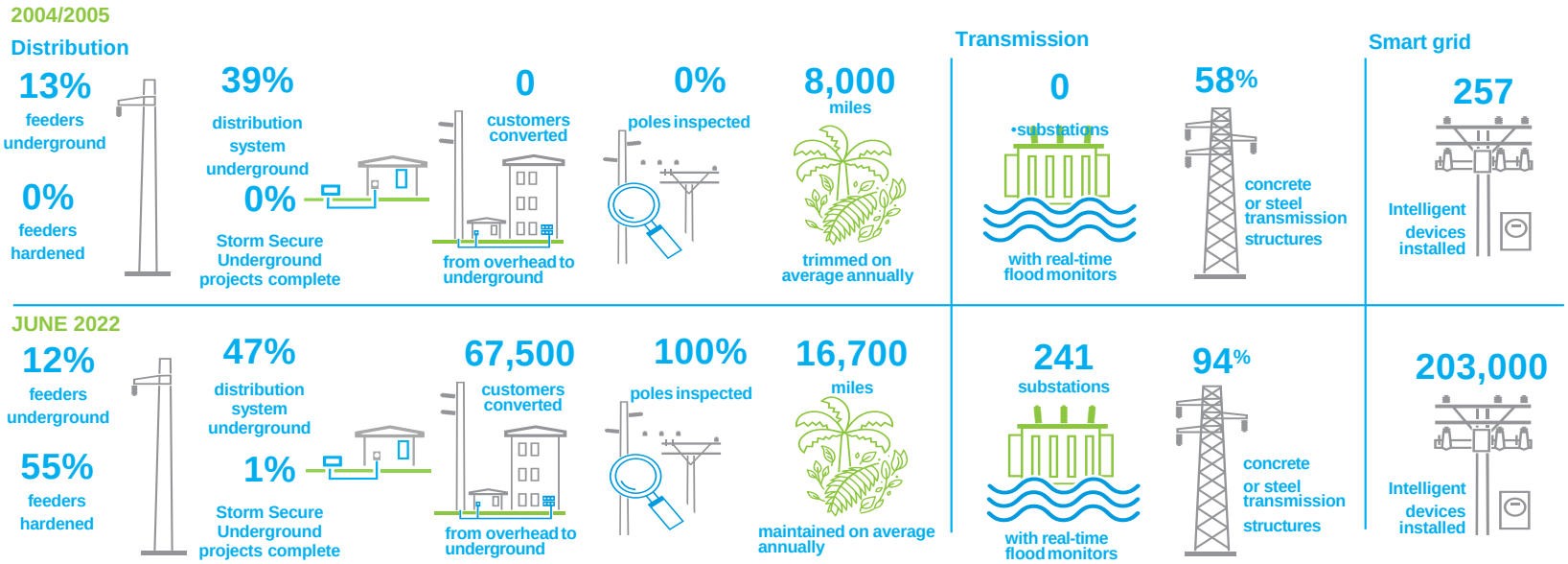
CHANGING THE CURRENT. FPL.

In 2006, after seven storms in two years, we began executing our Storm Secure program

- Hardening
- Pole inspections
- Vegetation management
- Underground conversions

CHANGING THE CURRENT.. FPL.

We’ve built a stronger, smarter, more storm-resilient grid since the 2004-05 hurricane seasons

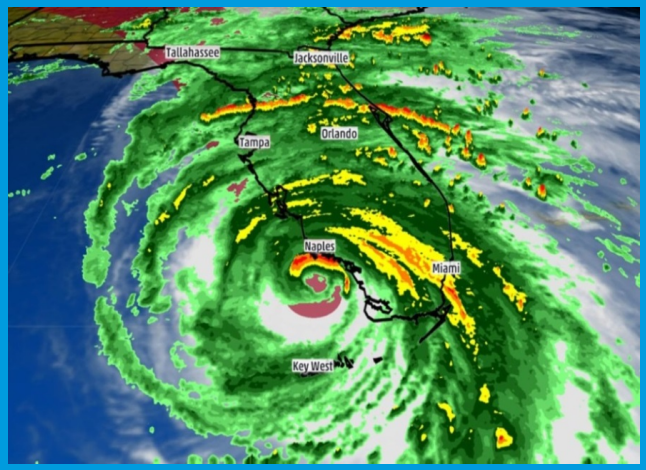


Graphics are based on FPL Territory including NW region.

CHANGING THE CURRENT. FPL.

In 2017, Hurricane Irma forced us think differently

- Irma impacted FPL customers in all 35 counties
- 4.45MM customers affected
- Majority of damage caused by downed/fallen trees
- Flooding in St. Augustine and South Daytona substations
- Hurricane force wind gusts and tornadoes throughout the service territory



The recovery effort was unprecedented in our industry's history

As a result, we found better ways to put power lines underground to enhance reliability

- About 48% of our distribution system is underground
- Underground neighborhood lines perform 7x better during Hurricane Ian and 50+% better than overhead lines day-to-day
- We've completed more than 1200 (550 miles) projects through 2022, with another 750 (400 miles) planned in 2023

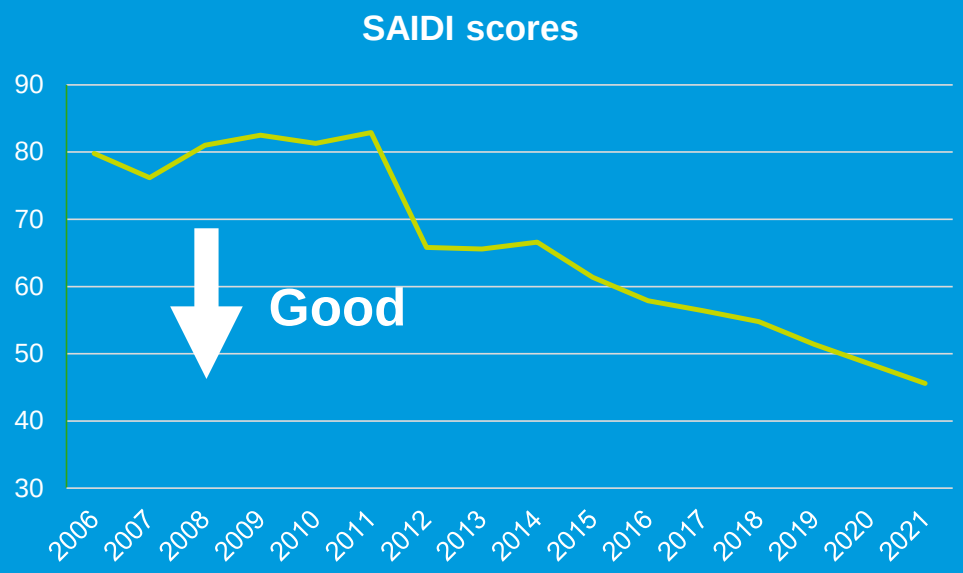
We’re always leveraging new technologies to improve service

200,000+
intelligent devices on the grid

Drones & substation rovers

CHANGING THE CURRENT. FPL.

Along with better hurricane performance, our investments have improved daily reliability by 43% since 2006



SAIDI, or System Average Interruption Duration Index, measures the average time a customer experiences an outage in a year

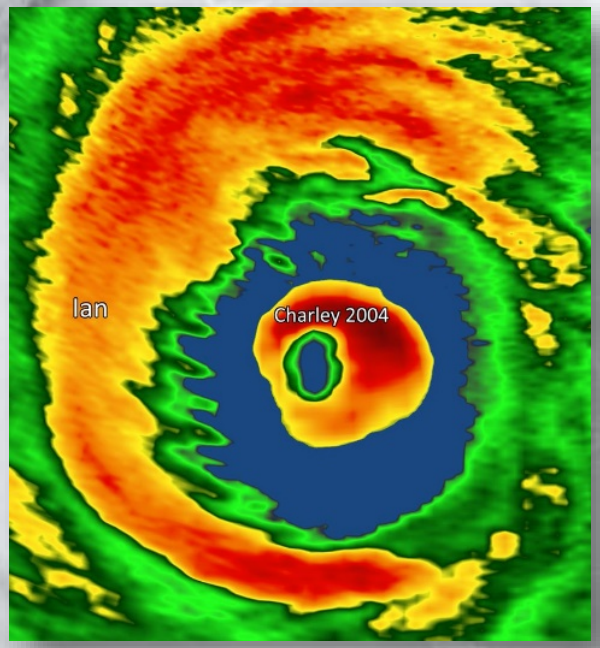
- We've slashed the average time a customer experiences an outage from 79.8 minutes in 2006 to 45.6 minutes in 2021
- We've also reduced the average number of outages and momentary interruptions a customer experiences in a year

CHANGING THE CURRENT. FPL.

Every year, we prepare for storm season and review our restoration processes

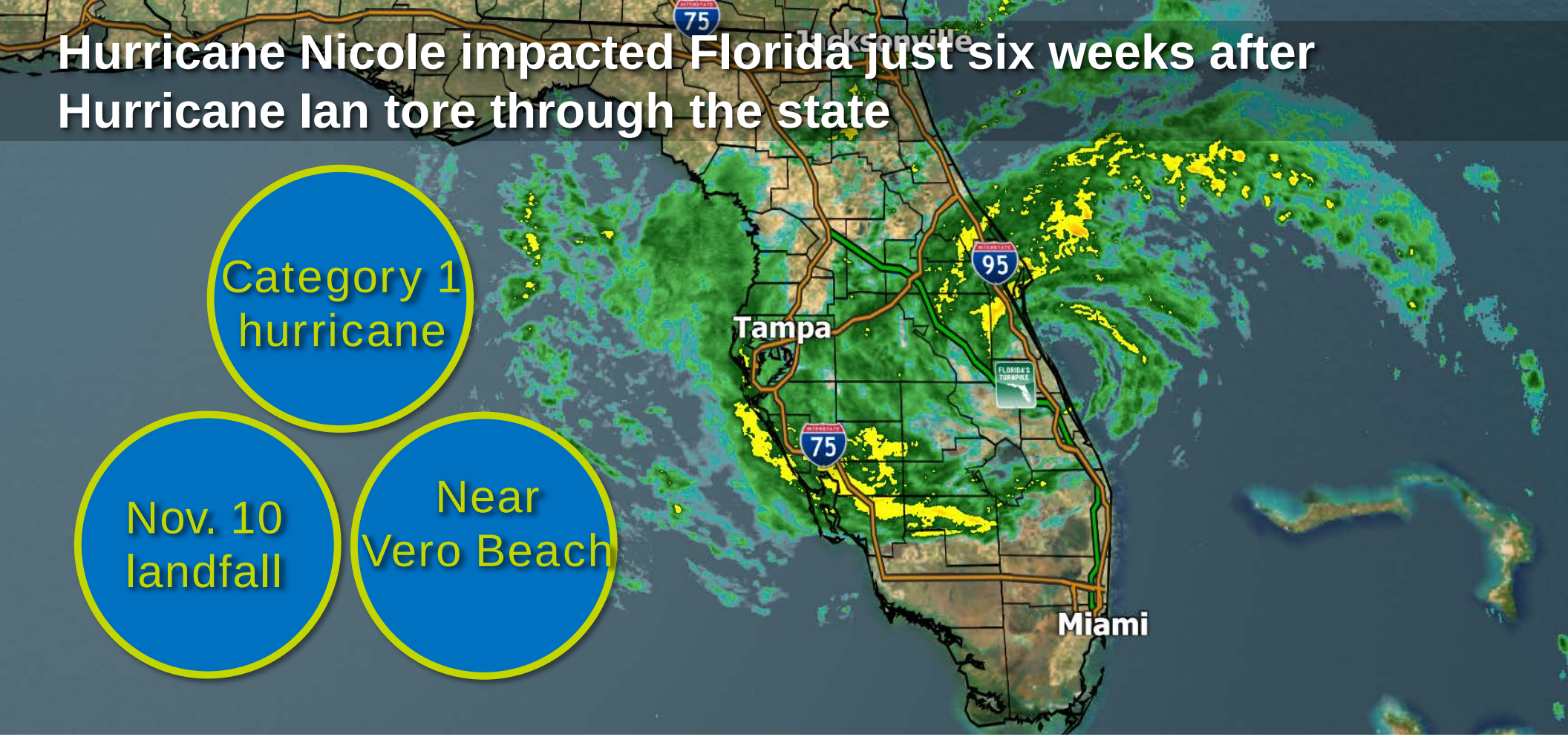
- Annual Preparation
- Mutual Aid Organizations/Agreements
- Use multiple channels/methods for customer communications – before, during, and after a storm
- Provide daily emails/updates to Govt. Portal Website (where applicable) – includes localized outage/ restoration info
- Conducting annual storm preparedness meetings with all EOCs
- Continuing customer outreach meetings/presentations
- FPL provides information on how to safely operate private generation systems (generators and private solar systems) after a power outage

Hurricane Ian was one of the most powerful storms to ever make landfall in Florida



Hurricane Ian	
Storm Strength	Category 4
Wind Speed	150 mph
Landfall	Sept. 28, 2022 | Lee County
FPL customers affected	~2.1 million

Hurricane Nicole impacted Florida just six weeks after Hurricane Ian tore through the state



Hurricane Ian ravaged Florida’s west coast

Charlotte County

Lee County

CHANGING THE CURRENT.. FPL.

Hurricane Nicole battered Florida’s east coast

Flagler County

Volusia County

FPL Hurricane Response

CHANGING THE CURRENT. FPL.

Our workforce encountered difficult conditions

Charlotte County


Martin County


Collier County

Lee County


Volusia County

CHANGING THE CURRENT.. FPL.

FPL mobilized a massive restoration workforce

A massive workforce required a massive logistics plan

525,000
meals served

2.7 million
pounds of ice

3.2 million
bottles of water

2.4 million
gallons of fuel

FPL worked around the clock to restore service

Hurricane Ian

2.1 million customers affected

Hurricane Ian

Essentially restored within 8 days

Restored 2/3 customers EOD 1

Hurricane Nicole

480,000+ customers affected

Hurricane Nicole

Essentially restored within 24 hours

of Nicole exiting Florida

FPL Hurricane Response

EOD means End of Day

CHANGING THE CURRENT.. FPL.

FPL’s underground neighborhood lines performed better than overhead neighborhood lines

FPL's smart grid helped avoid outages and restore service during the storm, even before it was safe to dispatch crews

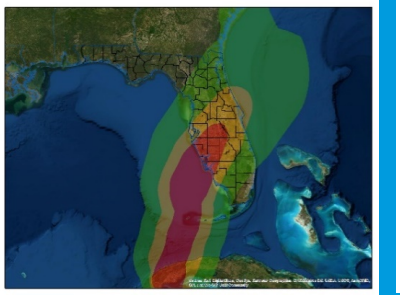
CHANGING THE CURRENT.. FPL.

FPL's investments in storm hardening are making a significant difference for our customers

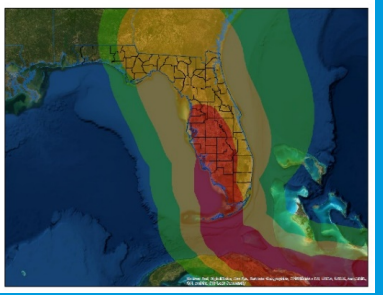
	Hurricane Charley	Hurricane Wilma	Hurricane Irma	Hurricane Ian	Hurricane Nicole
	2004	2005	2017	2022	2022
Saffir-Simpson Scale	Category 4	Category 3	Category 4	Category 4	Category 1
Fla. landfall max sustained winds	150 mph	120 mph	130 mph	150 mph	75 mph
Cyclone Damage Potential Index	1.9	2.8	4.3	6	0.7
FPL Counties Impacted	28	21	35	32	30
Customers affected	.9 million (21%)	3.2 million (75%)	4.4 million (~90%)	2.2 million (~38%)	0.5 million (~9%)
Distribution Poles damaged	6,900	12,400	4,700	~3,200	~24
Transmission Structures failed	75	100	5	0	0
Transmission Line Segments impacted	44	345	215	70	15
Substations Flooded	0	0	2	6	0
Substations De-energized	14	241	92	27	2
Substations restored	2 days	5 days	1 day	1 day*	0 days
50% of customers restored	3 days	5 days	1 day	1 day	1 day **
75% of customers restored	5 days	8 days	3 day	2 days	1 day **
95% of customers restored	10 days	15 days	7 days	6 days	1 day **
100% of customers restored	13 days	18 days	10 day	8 days	1 day
Average customer outage	3.5 days	5.4 days	2.1 days	1.5 days	0.2 day

- excluded flooded substations (4 days if included) however customers were enabled to be restored via other substation feeder ties
- Within just 12 hours of the last remnant of Hurricane Nicole exiting the state, FPL had already restored service to more than 95% of customers impacted.

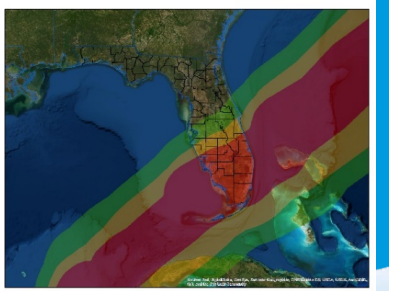
Hurricane Ian 2022



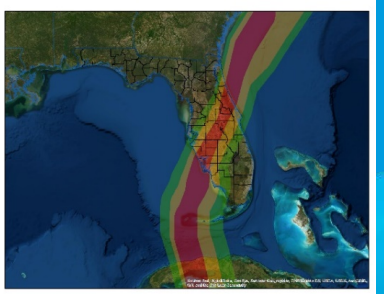
Hurricane Irma 2017



Hurricane Wilma 2005



Hurricane Charley 2004

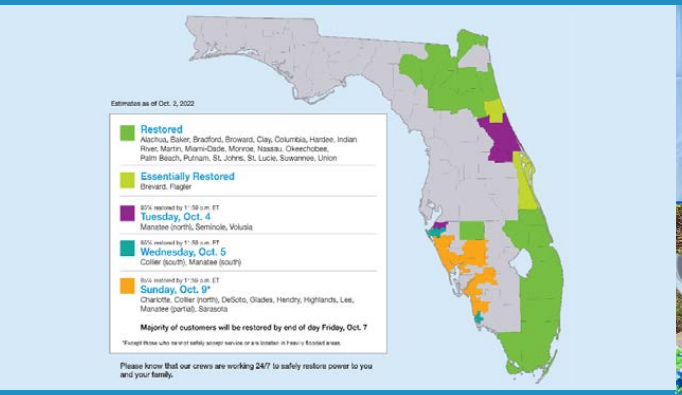


What went well

Substation Flood Monitors
Mitigate Significant Damage

Storm Resiliency Investments
Speed Restoration Times

Pre-storm Equipment Inventory
Prevents Restoration Delays



Estimated Times of Restoration
Met or Exceeded

Customer & Employee Channels
A bigger presence & daily updates

FPLAir One
First storm response

What we learned

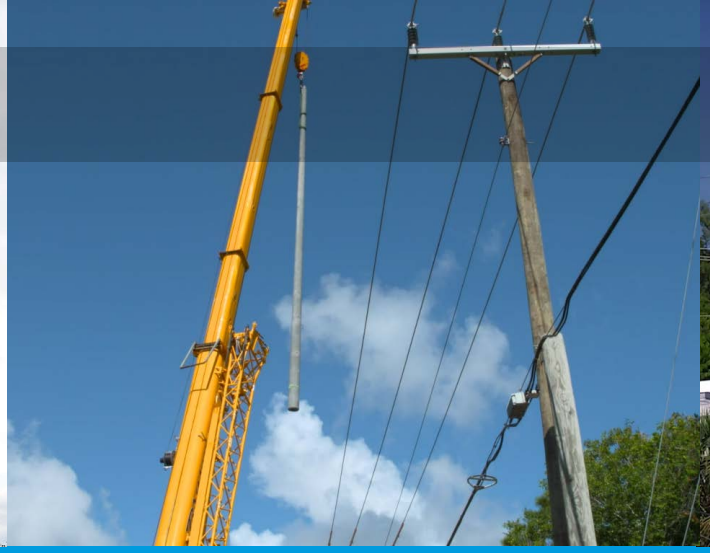
Coastal Communities
Future hardening guidelines

Staging Sites
Improve pre-site conditions

New Technologies
Leverage emerging tools

What's coming…

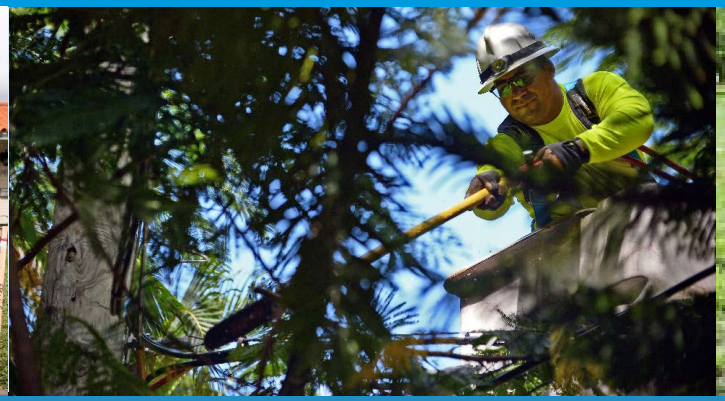
Transmission Poles
Complete in peninsular Florida



Feeder Hardening
Expected completion 2025

Feeder Automation
Expected completion 2024

Undergrounding
Pilot in 2020, complete in 20-25 years



Vegetation Trimming
Ongoing – 3 and 6 year cycle

Pole Inspections
Ongoing – 8 year cycle

FPL's rapid response did not and could not happen alone and customers thanked us

Proud to be part of Team US

FPL Hurricane Response

CHANGING THE CURRENT.. FPL.


FPL®

Customer Delivery

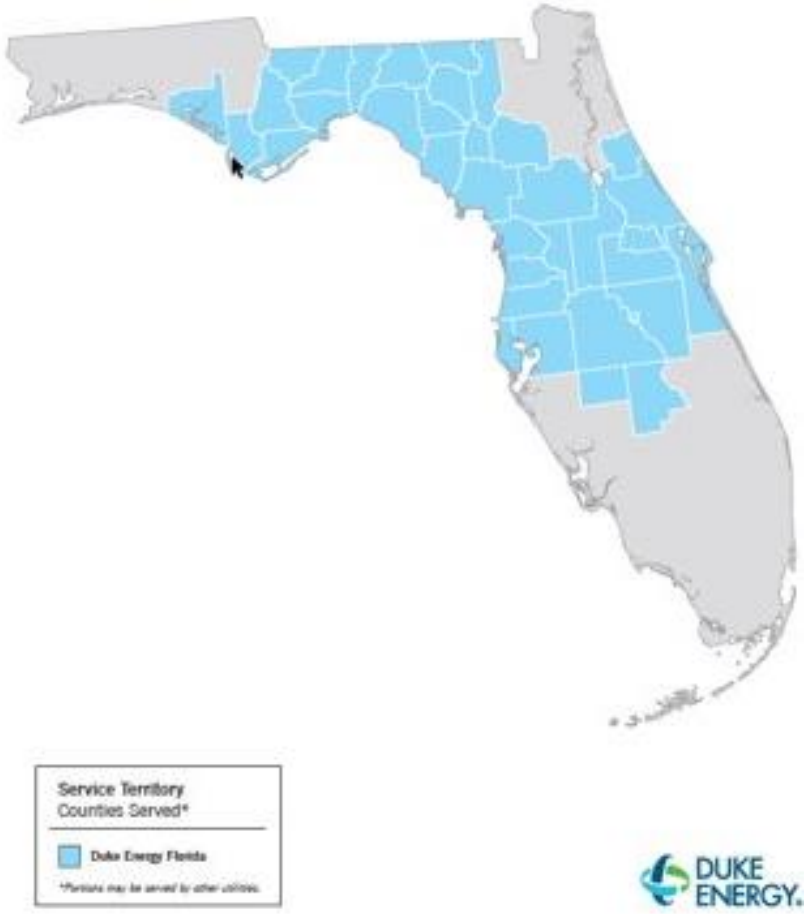
Storm Resiliency

Todd Fountain- GM Emergency Preparedness

DUKE ENERGY®

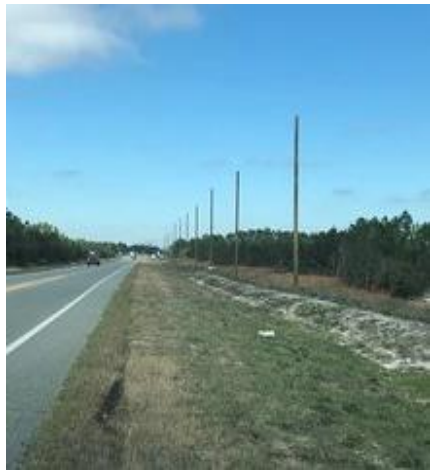
Duke Energy Florida

- Duke Energy Florida serves approximately 1.9 million customers within 35 counties
- 13,000 service territory miles
- Approximately 5,200 miles of transmission lines, approximately 18,000 miles of overhead distribution lines and approximately 14,000 circuit miles of underground distribution cable
- We maintain 22 power generation sites capable of producing ~11,000 megawatts of electricity



Feeder and Lateral Hardening

Overhead



- Hardening programs will enable the feeder backbone and laterals to better withstand extreme weather events

- Includes strengthening structures, updating BIL (basic insulation level) to current standards, updating conductor to current standards, relocating difficult to access facilities, replacing oil filled equipment as appropriate, and will incorporate the company's pole inspection and replacement activities.

Underground

Lateral segments that are most prone to damage resulting in outages during extreme weather events

Focuses on branch lines that historically experience the most outage events, contain assets of greater vintage, are susceptible to damage from vegetation, and/or have facilities that are inaccessible to trucks

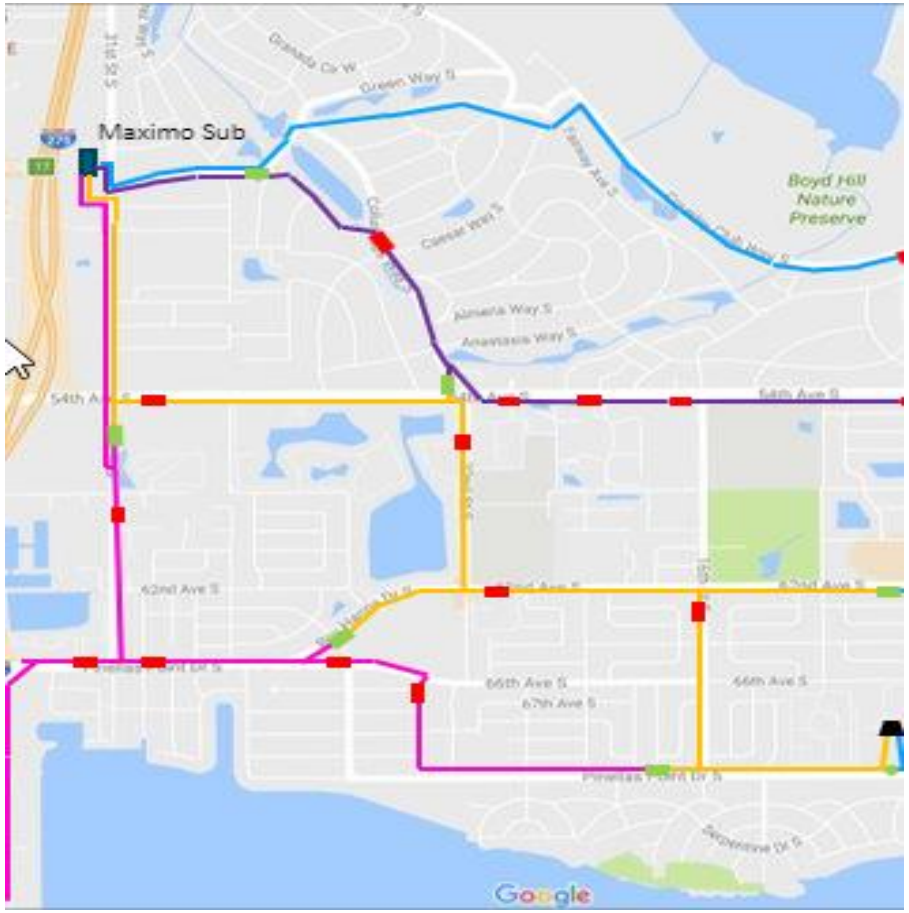
Branch lines will be replaced with a modern, updated, and standard underground design

Self-Optimizing Grid

Self-Healing Teams

- The SOG program consists of three (3) major components, capacity, connectivity and automation intelligence
- The SOG program redesigns key portions of the distribution system and transforms it into a dynamic smart-thinking, self-healing network
- The grid will have the ability to automatically reroute power around trouble areas, such as a tree on a line, to quickly restore power to the maximum number of customers and provide precise locations in which to dispatch crews

Grid Automation



Criteria

- Sectionalizing Guidelines
- 400 customers
- 3 miles of line
- 2 megawatts of load

Currently have ~63% of our customers on automation and ~48% on a self-healing grid

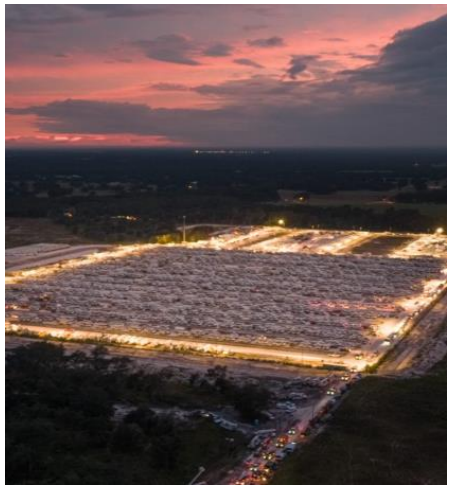
By year-end 2025 we anticipate having 100% on automation with 80% on a self-healing grid

Benefits

During Hurricane Ian it is estimated that the grid automation restored more than 166k customer outages and saved ~196M customer minutes of interruption

Storm Response

Hurricane Ian

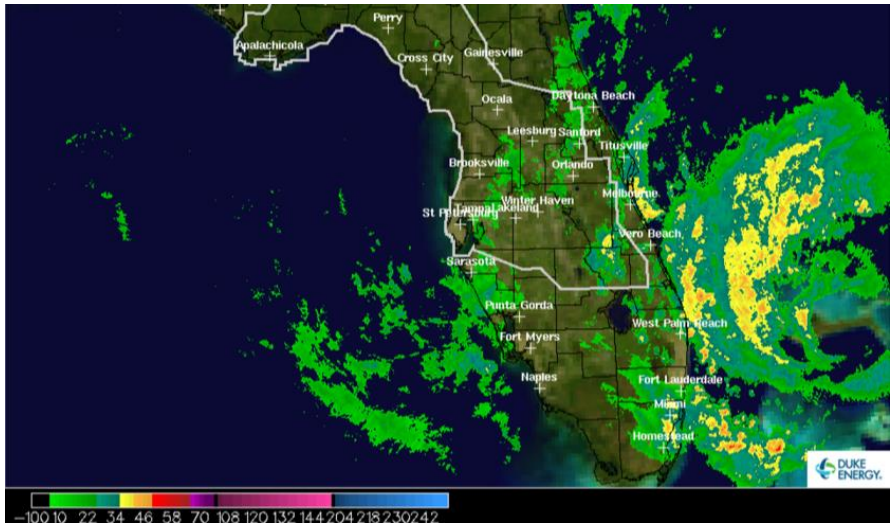


- Ian's peak customers out were 582,589 on Sep 29 at 2:00 pm; total customers out were 1,169,102. Peak events were 9,505 on Sep 30 at 7:00 am; total events were 23,731.
- Over a 72-hour period, crews restored service to 97% of the outages and closed 17,647 outage events.
- A total of 536 Native Line and 839 Native Contactor Line and Vegetation Contractors participated in the restoration of Hurricane Ian.
- Mid-West and Carolinas mobilized an additional 1,000+ resources with a contingency of off-system 7,900 Line, Vegetation and Damage Assessment resources.
- Resources were released based on need between Oct 02 and Oct 06 with a few hundred kept for sweep activities and released Oct 11.
- Once restoration was completed a team was assembled to deploy to Lee County to assist with restoration

Lee County Electric Cooperative Deployment

- Duke Energy line and support resources arrived in the Lee County area on Thursday, October 6th to begin restoration efforts in partnership with LCEC. Upon arrival, line resources supplemented on-going restoration efforts by working in Cape Coral on Old Burnt Store Road
- On Friday, Oct 7th, the crews were split between Old Burnt Store Road and the Pine Island substation. Crews on the Old Burnt Store Road completed initial work assigned and accepted additional scope of work in the area. The crews assigned to the Pine Island substation completed approximately 75% of the double circuits get-a-ways out of the substation.
- A total of 641 resources were mobilized, consisting of line (Duke and contract), support, vegetation management, damage assessment, and restoration assistance resources.
- Final de-mobilization occurred on Sunday, October 16, 2022.

Hurricane Nicole



- DEF reported 6,412 events and 303,917 customer outages during this event. By Nov 11, 100% of our customers who could receive power were restored.
- Our crews were able to restore more than 98% of those outages within 12 hours.
- A total of 536 Native Line and 1008 Native Contactor Line and Vegetation Contractors participated in the restoration of Hurricane Nicole. Midwest and Carolinas mobilized an additional 800+ resources with a contingency of off-system 2,000 Line, Vegetation and Damage Assessment resources.

Challenges / Lesson's Learned

- Pre-Staging crews outside the storm path taking into consideration storm surge
- Bussing transportation from hotels to staging sites
- Hotels vs. sleeper trailers
- Crew rosters


DUKE
ENERGY®

January 2023

TECO
TAMPA ELECTRIC
AN EMERA COMPANY

INFRASTRUCTURE HARDENING

Dave Plusquellic

AT A GLANCE:
TAMPA ELECTRIC

Focused on Delivering Value for Customers, Today and Into the Future

123 YEARS
Serving the Community

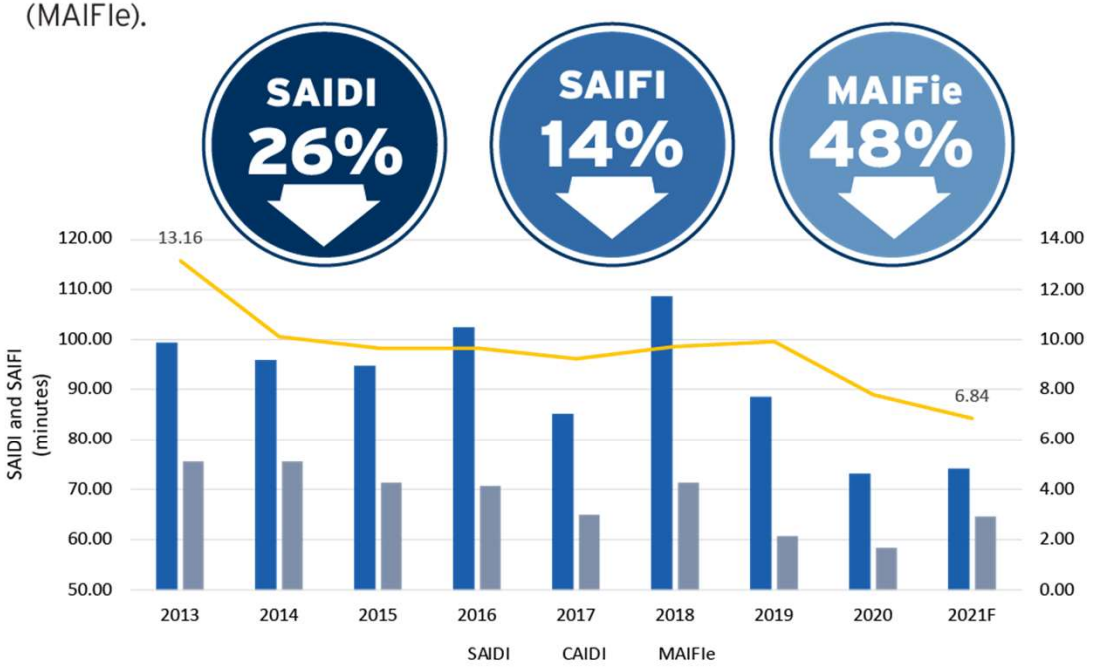
800,000
Customers

99.98%
Service Reliability

at rates WELL BELOW national average.

Reliability Performance Improvements

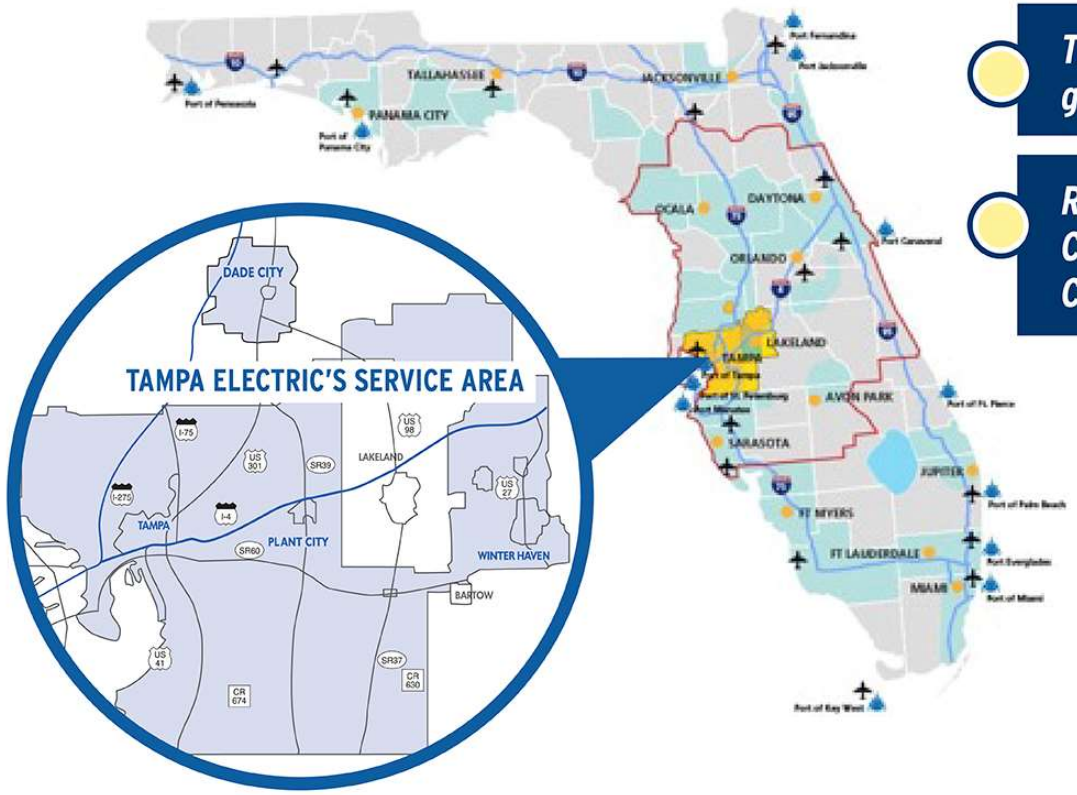
Tampa Electric has steadily increased reliability as demonstrated by fewer outages (SAIFI), shorter outage durations (SAIDI) and reduction in momentary outages (MAIFIe).



AT A GLANCE:
TAMPA ELECTRIC

Focused on Delivering Value for Customers, Today and Into the Future

- *2,000 square miles in West Central Florida*
- *Top solar producer on a per customer basis with 1,200 MW of photovoltaic solar energy*
- *Three electric generating plants in service, with generating capability of more than 5,000 MW*
- *Regulated by the Florida Public Service Commission and the Federal Energy Regulatory Commission*



- PEOPLE'S GAS SERVICE TERRITORY
- TAMPA ELECTRIC SERVICE TERRITORY
- JOINT SERVICE TERRITORY
- I-4 HIGH TECH CORRIDOR

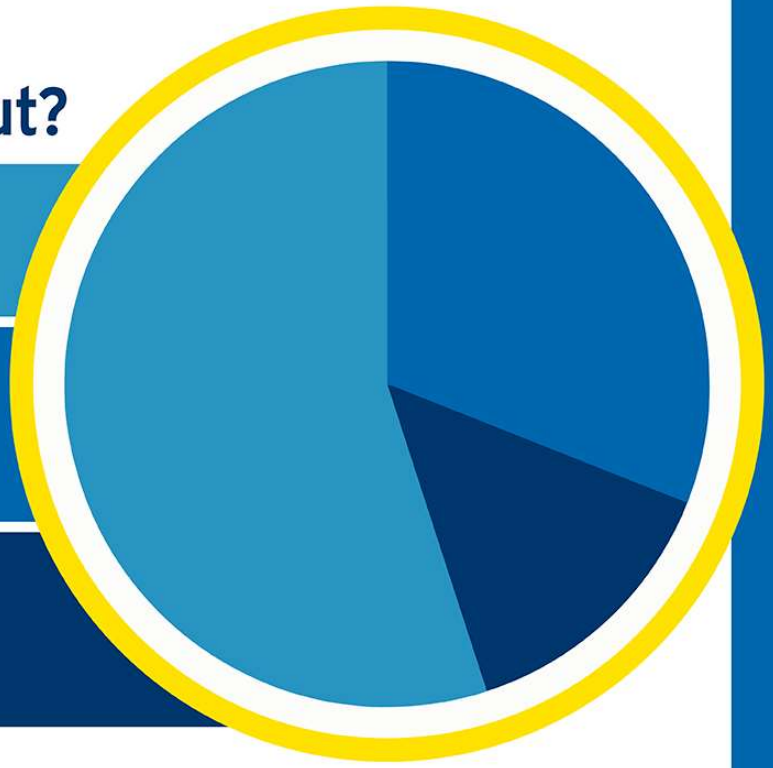
GOALS AND PRIORITIES

Why does my power go out?

55%
Natural Occurences

31%
Equipment Trouble and Human Interference

14%
Scheduled Maintenance and Other



- Developed and Launched in 2020
- Supported by thorough analysis with specific focus on customer benefits:
  - Address most prevalent outage causes (trees)
  - Harden above-ground assets
  - Underground assets
  - Reduce outages and outage costs after an extreme weather event

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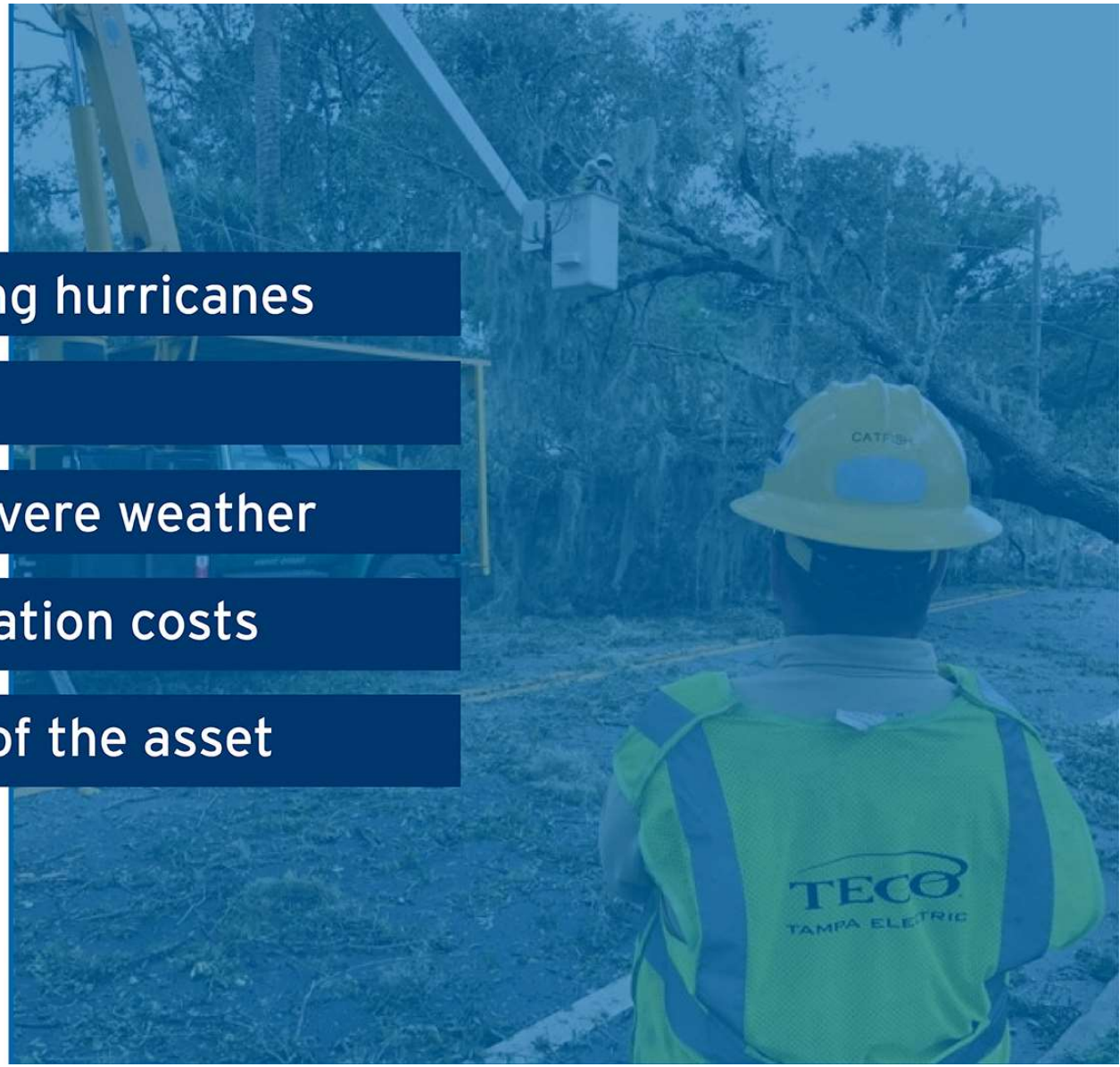
STORM PROTECTION PLAN GOALS

- Improved reliability during hurricanes
- Fewer outages
- Shorter outages after severe weather
- Lower emergency restoration costs
- Lower cost over the life of the asset



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SPP PROGRAMS

LINE CLEARANCE

- ~$30 million per year in tree trimming
- More frequent trims, targeted mid-cycle trimming

DISTRIBUTION LATERAL UNDERGROUNDING

- ~$100 million per year in converting laterals
- Target of 80-100 miles per year converted at full scale

FEEDER HARDENING

- ~$30 million per year
- Approximately 1200 pole per year
- Enhanced automation to isolate outages, reducing customers impacted

TRANSMISSION ASSET UPGRADE

- ~$15-20 million per year
- Converting ~500 poles from wood to non-wood annually

SUBSTATION EXTREME WEATHER HARDENING

- Hardening of a subset of strategic substation assets with flooding or storm surge risk
- Raising equipment/ control houses and installing barriers

LEGACY STORM HARDENING INITIATIVES

- Inspection and maintenance programs implemented as part of legacy storm hardening plans
- Wood pole inspections and replacement of 'failed' poles

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SPP PROGRESS TO DATE

LINE CLEARANCE

- Addressed **over 8,000 miles** between 2020 and 2022
- Enabled incremental **177 circuits, 1500 miles and removal of 1,000 more hazard trees**

DISTRIBUTION LATERAL UNDERGROUNDING

- Converted **over 60 miles** from overhead
- Momentum to convert **100 miles annually**

FEEDER HARDENING

- Hardened **nearly 3,000** distribution feeder poles
- Installed **nearly 1,000** new devices to enable automation and sectionalizing

TRANSMISSION ASSET UPGRADE

- Converted **1300 poles** from wood to non-wood (e.g. steel)
- On path to **replace all wood poles** by 2029

SUBSTATION EXTREME WEATHER HARDENING

- First project begins near end of 2023

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STORM PROTECTION PLAN RESULTS

40% DECLINE
IN TREE CONTACT RELATED OUTAGES IN 2021

63% REDUCTION
IN OUTAGES AND MOMENTARY FLICKERS WHERE SELF-HEALING TECHNOLOGY HAS BEEN INSTALLED.

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HURRICANE IAN

Demonstrated Benefits of Storm Protection Plan:

ZERO OUTAGES
as a result of failed assets hardened / undergrounded through SPP program

LINE CLEARANCE
- Supplemental circuits showed a **20% improvement** in outages
- Circuits with supplemental and mid-cycle showed a **43% improvement** in outages

LATERAL UNDERGROUND
- **Zero outages** as a result of failed/ damaged underground assets
- **Clear differentiation** in CMI between Feeder circuits with and without lateral undergrounding

FEEDER HARDENING
- **Zero failures** of hardened poles, wires
- Hardened feeders showed **57% to 67% reduction** in outages when compared to Irma

TRANSMISSION ASSET UPGRADE
- **Zero failures** of poles hardened through SPP
- Approximately **20% reduction** in overall Transmission Circuit Outages

TECO TAMPA ELECTRIC
AN EMERA COMPANY

January 2023

TECO TAMPA ELECTRIC AN EMERA COMPANY

THANK YOU

Dave Plusquellic
dlplusquellic@tecoenergy.com

THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

SENATOR JOE GRUTERS
22nd District

COMMITTEES:
Regulated Industries, *Chair*
Appropriations
Appropriations Committee on Agriculture, Environment, and General Government
Appropriations Committee on Health and Human Services
Commerce and Tourism
Community Affairs
Transportation

SELECT COMMITTEE:
Select Committee on Resiliency

JOINT COMMITTEE:
Joint Committee on Public Counsel Oversight, *Alternating Chair*

January 18, 2023

Chair Albritton,

Senator Gruters requests an excused absence for the Select Committee on Resiliency Meeting on 1/25/2023 beginning at 3:30PM.

Please let me know if there are any conflicts resulting in this request.

Thank you,

Joe Gruters

REPLY TO:
❒ 381 Interstate Boulevard, Sarasota, Florida 34240 (941) 378-6309
❒ 316 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5022

Senate's Website: *www.flsenate.gov*

KATHLEEN PASSIDOMO
President of the Senate

DENNIS BAXLEY
President Pro Tempore

THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

COMMITTEES:
Community Affairs, *Chair*
Appropriations Committee on Education
Appropriations Committee on Health and Human Services
Education Pre-K -12
Fiscal Policy
Health Policy
Military and Veterans Affairs, Space, and Domestic Security

SELECT COMMITTEE:
Select Committee on Resiliency

SENATOR ALEXIS CALATAYUD
38th District

January 25, 2023

Chair Albritton,

Senator Calatayud requests an excused absence for the Select Committee on Resiliency Meeting on 1/25/2023 beginning at 3:30PM.

Please let me know if there are any conflicts resulting in this request.

Thank you,

Alexis Calatayud

REPLY TO:
❒ Kendall Campus, 11011 SW 104th Street, Suite 5101, Miami, Florida 33176
❒ 324 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5038

Senate's Website: *www.flsenate.gov*

KATHLEEN PASSIDOMO
President of the Senate

DENNIS BAXLEY
President Pro Tempore

The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

1/25/23
Meeting Date

Senate Resiliency
Committee

Bill Number or Topic

Amendment Barcode (if applicable)

Name Andy Pankratz

Phone 954-658-6884

Address 700 Universe Blvd
Street

Email andrew.pankratz@fpl.com

Juno Beach FL 33408
City State Zip

Speaking: ☐ For ☐ Against ☑ Information **OR** Waive Speaking: ☐ In Support ☐ Against

PLEASE CHECK ONE OF THE FOLLOWING:

☐ I am appearing without compensation or sponsorship.

☐ I am a registered lobbyist, representing:

☑ I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. 2020-2022JointRules.pdf (flsenate.gov)

This form is part of the public record for this meeting.

S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

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1/25/23
Meeting Date

Select Comm. on Resiliency
Committee

Electric Utilities Infrastructure Hardening
Bill Number or Topic

Amendment Barcode (if applicable)

Name Todd Fountain

Phone 727-409-3581

Address 6571 38th Ave N
Street

Email Todd.Fountain@duke-energy.com

St. Petersburg, FL 33710
City State Zip

Speaking: ☐ For ☐ Against ☑ Information **OR** Waive Speaking: ☐ In Support ☐ Against

PLEASE CHECK ONE OF THE FOLLOWING:

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S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

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1/25/2023
Meeting Date

Select Committee on Resiliency
Committee

Infrastructue Hardening
Bill Number or Topic

Amendment Barcode (if applicable)

Name David Plusquellic

Phone (813) 521-3694

Address 702 N. Franklin St
Street

Email dlplusquellic@tecoenergy.com

Tampa FL 33602
City State Zip

Speaking: ☐ For ☐ Against ☑ Information **OR** Waive Speaking: ☐ In Support ☐ Against

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S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

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1/25/23
Meeting Date

Resiliency
Committee

Bill Number or Topic

Amendment Barcode (if applicable)

Name Robert Majka

Phone 850-630-5706

Address 540 W 11th St
Street

Email bmajka@baycountyfl.gov

PC FL 32401
City State Zip

Speaking: ☑ For ☐ Against ☐ Information **OR** Waive Speaking: ☐ In Support ☐ Against

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This form is part of the public record for this meeting.

S-001 (08/10/2021)

CourtSmart Tag Report

Room: KB 412 **Case No.:** - **Type:**
Caption: Senate Committee on Resiliency **Judge:**

Started: 1/25/2023 3:33:14 PM
Ends: 1/25/2023 5:23:21 PM Length: 01:50:08

3:33:13 PM Chair Albritton calls meeting to order
3:33:49 PM Roll Call
3:34:29 PM Quorum present
3:34:47 PM Pledge
3:34:56 PM Chair makes introduction
3:35:34 PM Tab 1
3:35:34 PM Presentation 1
3:35:35 PM Presentation by Andy Pankratz, Sr. Dir. of Emergency Preparedness of Fla Power and Light
3:50:11 PM Andy Pankratz concludes presentation
3:51:14 PM Questions:
3:52:25 PM Senator Harrell
3:52:51 PM Andy Pankratz
3:52:53 PM Senator Ingoglia
3:56:08 PM Andy Pankratz
3:56:10 PM Senator Albritton
3:58:25 PM Andy Pankratz
3:58:27 PM Senator Collins
3:59:29 PM Andy Pankratz
3:59:32 PM Senator Pizzo
4:01:29 PM Andy Pankratz
4:01:31 PM Senator Albritton
4:02:40 PM Andy Pankratz
4:02:41 PM Senator Pizzo
4:05:05 PM Andy Pankratz
4:05:07 PM Senator Albritton
4:05:17 PM Andy Pankratz
4:05:18 PM Senator Pizzo
4:06:10 PM Andy Pankratz
4:06:12 PM Senator Albritton
4:07:17 PM Andy Pankratz
4:07:18 PM Senator Albritton
4:07:53 PM Presentation 2
4:07:55 PM Presentation by Todd Fountain, General Manager of Emergency Preparedness at Duke Energy
4:15:19 PM Questions:
4:16:22 PM Senator Berman
4:16:38 PM Todd Fountain
4:16:39 PM Senator Berman
4:16:52 PM Senator Albritton
4:16:54 PM Todd Fountain concludes presentation
4:16:58 PM Presentation 3
4:17:00 PM Presentation by Dave Plusquellic, Director, Storm Protection Programs and Support Services at Tampa Electric
4:17:22 PM Dave Plusquellic
4:24:20 PM Senator Albritton
4:26:27 PM Questions:
4:27:28 PM Senator Harrell
4:28:01 PM Dave Plusquellic
4:28:05 PM Andy Pankratz of Emergency Preparedness of Florida Power and Light
4:28:09 PM Senator Albritton
4:28:16 PM Senator Harrell
4:28:16 PM Senator Albritton
4:28:41 PM Senator Harrell

4:28:47 PM Senator Albritton
4:28:49 PM Senator Wright
4:29:47 PM Senator Albritton
4:29:57 PM Dave Plusquellic concludes presentation
4:30:36 PM Tab 2
4:30:44 PM Senator Albritton introduction
4:31:46 PM Presentation by Robert Majka, County Manager of Bay County
4:44:17 PM Senator Albritton
4:49:49 PM Questions:
4:50:52 PM Senator Trumbull
4:52:49 PM Robert Majka
4:55:52 PM Senator Harrell
4:57:16 PM Senator Albritton
4:58:16 PM Senator Harrell
4:59:22 PM Senator Albritton
5:07:57 PM Robert Majka
5:11:28 PM Senator Davis
5:12:45 PM Robert Majka
5:13:49 PM Senator Davis
5:14:51 PM Robert Majka
5:15:25 PM Senator Albritton
5:17:04 PM Robert Majka
5:18:06 PM Senator Albritton
5:19:05 PM Robert Majka
5:19:33 PM Senator Albritton
5:20:48 PM Robert Majka
5:21:19 PM Senator Albritton
5:21:56 PM Senator Davis
5:22:49 PM Senator Albritton
5:23:05 PM Without objection, meeting adjourned