

# FPSC Hurricane Preparedness Workshop May 23, 2023

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FPL is the state's largest utility, serving more than

half of Florida's population

5.8 million customers

43 counties served

**35,550** square miles

78,800 miles of distribution lines

9,400 miles of transmission lines

1.4 million poles

1.1 million transformers

**871** substations



### **Topics for Discussion**

- **▶** Storm Preparation and Restoration Processes
- ► Customer/Stakeholder Outreach and Communication
- **▶** Vegetation Management
- **▶** Pole / Structure Inspections
- ▶ 2022 Storm Season and Mutual Aid

### **Storm Preparation and Restoration Processes**

#### Annual Preparation

- ▶ Corporate-wide dry-run drill week of April 17 21
  - Engage strategic partners
- Implementing technology improvements to enhance storm damage forecasting/restoration processes
- Conducted incident management training workshops

#### Mutual Aid Organizations/Agreements

- Southeastern Electric Exchange (SEE)
- Edison Electric Institute (EEI)
- Florida Electric Power Coordinating Group, Inc. (FCG)
- Association of Edison Illuminating Companies (AEIC)
- Pre-negotiate contracts with restoration vendors



#### Customer/Stakeholder Outreach and Communication

▶ Use multiple channels/methods for customer communications

- before, during, and after a storm

- News releases and daily press conferences
- Communicating Estimated Time of Restoration (ETR) and restoration progress
- Targeted ads and customer emails
- Media interviews in hardest hit areas
- Use digital/face-to-face communications
  - Social media for prep and safety messages, as well as restoration updates
  - FPL Mobile App available from the App Store or Google Play
  - Community response kiosks in hardest hit areas



#### Customer/Stakeholder Outreach and Communication

- Provide daily emails/updates to Govt. Portal Website (where applicable) includes localized outage/restoration info
- ▶ Conducting annual storm preparedness meetings with all EOCs
  - Establishing 2023 plans for support at local EOCs, including staffing of embedded FPL employees at EOCs during events
  - Updating the Critical Infrastructure Facility and priority list
- Continuing customer outreach meetings/presentations
  - More than 1,000 presentations annually
  - Presentations cover various topics (e.g., storm readiness and Right Tree Right Place)
- ► FPL provides information on how to safely operate private generation systems (generators and private solar systems) after a power outage



### **Vegetation Management**

#### Distribution

- Feeders: 3-year avg. cycle (+ mid-cycle maintenance)
- Laterals: 6-year avg. cycles
- Miles maintained (2022)
  - Feeders: 15,228 miles (4,562 cycle; 10,667 mid-cycle)
  - Laterals: 4,055 miles
- Before peak of storm season inspect/maintain CIFs

#### > Transmission

- Inspect and Protect Program
  - Inspect right-of-way at least 2 times per year
  - Maintain clearances (2022): 9,303 miles
  - Meet mandatory NERC-established requirements
- ▶ Before peak of storm season perform aerial patrols





### Pole / Structure Inspections

- ▶ 1.4 million distribution poles
  - ▶ 8-year inspection cycle
  - ▶ In 2022 190,275 inspected
    - Wood: 172,378 poles
    - Concrete: 17,897 poles
- ▶ 82,089 transmission structures
  - ▶ 100% annual visual inspection
  - Inspection cycles:
    - Wood: 6-year cycle
    - Concrete/steel: 10-year cycle

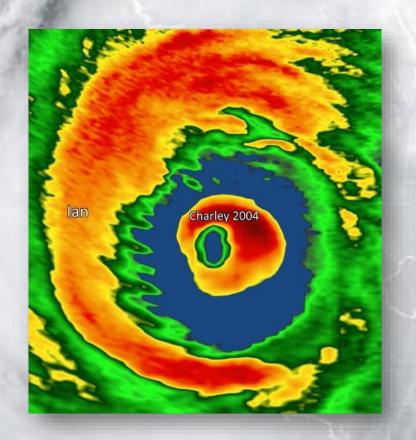


#### 2022 Storm Season and Mutual Aid

- ▶ Two hurricanes affected FPL in 2022:
  - ► Hurricane Ian September 28, 2022
  - Hurricane Nicole November 10, 2022
- ► Mutual assistance provided in 2022:
  - January Winter Storm Frida (Virginia, North Carolina, South Carolina)
  - February Winter Storm Landon (Texas, Oklahoma)
  - March & April Severe Weather (Alabama)
  - September Severe Weather (Texas)
  - December Winter Storm Elliott (Indiana & Ohio)



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



Hurricane lan	
Storm Strength	Category 4
Wind Speed	150 mph
Landfall	Sept. 28, 2022   Lee County
FPL customers affected	~2.2 million















**Substation Flood Monitors**Mitigate Significant Damage

Estemates as of Oct. 2, 2022

Restored
Alachus, Baller, Seyn-Book, Morroe, Nachurbia, Hardee, Indian Ratura, Baller, Seyn-Book, Morroe, Naces, Columbia, Hardee, Indian Ratura, St. Johne, St. Luck, Susannee, Lillian Beach, Putnam, St. Johne, St. Luck, Susannee, Lillian Beach, Putname, Patname, Service, St. Luck, Susannee, Lillian Beach, Saminola, Volt. 3

Wednesday, Oct. 4

Wednesday, Oct. 5
Collier (south), Mantate (south)
St. Luck, Collier (south), Balleria, Susannee, Susann

**Estimated Times of Restoration** 

**Met or Exceeded** 

Storm Resiliency Investments
Speed Restoration Times



Customer & Employee Channels
A bigger presence & daily updates

Pre-storm Equipment Inventory
Prevents Restoration Delays



FPLAir One
First storm response



**Coastal Communities**Future hardening guidelines

Staging Sites
Improve pre-site conditions

New Technologies
Leverage emerging tools

