

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA
APPROPRIATIONS SUBCOMMITTEE ON GENERAL
GOVERNMENT
Senator Simmons, Chair
Senator Bean, Vice Chair

MEETING DATE: Wednesday, November 15, 2017

TIME: 3:30—5:30 p.m.

PLACE: 301 Senate Office Building

MEMBERS: Senator Simmons, Chair; Senator Bean, Vice Chair; Senators Broxson, Campbell, Gainer, Garcia, Mayfield, Rodriguez, Rouson, Taddeo, and Torres

TAB		BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1		Utility Infrastructure		Presented
2		Continuity of State Operations		Presented
Other Related Meeting Documents				



Building Community_{sm}

*Florida Senate Appropriations Subcommittee
on General Government*

Jordan Pope

Manager, Government Relations

November 15, 2017

- JEA is a municipal electric, water, wastewater, reclaim water and chilled water utility owned by the City of Jacksonville serving portions of Duval, St. Johns, Clay and Nassau Counties in Northeast Florida
- JEA serves 459,000 electric customers and is the largest municipal electric utility in Florida
- JEA owns and operates 5 electric generating stations, 745 miles of transmission lines and 6,760 miles distribution lines
- JEA has 3,030 miles (45%) of overhead primary distribution and 3,730 miles of underground primary distribution (55%) with 200,000+ poles and 100,000+ transformers
- All new developments within JEA's service territory are required to be placed underground
- Even though an electric customer may have underground power lines serving their house, business, or neighborhood, a vast majority of JEA's electric customers have their power flow through overhead distribution assets before it reaches their home or business.

JEA has spent over \$120M in the last 5 years to improve electric reliability for its customers with the overarching goal of making the electric system more reliable and resilient

- **Focus Areas:**
 - **Pole inspection and replacement**
 - JEA poles are inspected on an 8 year cycle and approximately 3% of poles are replaced each year
 - **Vegetation Management**
 - JEA's entire overhead electric distribution system is trimmed on a 2.5 year cycle and the transmission system on a 6-month cycle
 - **SCADA – Supervisory Control and Data Acquisition**
 - Installed SCADA control devices throughout the distribution system to isolate faults and allow faster restoration to customers
 - **Direct buried cable replacement**
 - **Infrared scanning of electric system**
 - Using special cameras, JEA scans the entire distribution system every 2 years to identify heat signatures to locate potential equipment failures before they occur
 - **Transmission and Substation Improvements**
 - Equipment replacement and rebuilds; protection upgrades

- CEMI-5 is a metric that stands for Customers Experiencing More Than Five Outages of one minute or more in the past year
- CEMI-5 work focuses on reducing the highest number of outages and includes:
 - Vegetation management
 - Pole replacement
 - Transformer replacement
 - Upgrades to other equipment
 - Animal guards
 - Power line upgrades
- JEA has completed over 875 CEMI-5 projects in the last 3 years that included work on over 12,000 poles and improved service reliability for over 130,000 customers

System Hardening – Next Steps

- While continuing prior recurring investments in hardening, JEA is launching a new multi-year reliability improvement initiative that entails a \$30M investment over a 5-year period.
- The program will target the mainline portion of JEA's overhead feeders, as well as large 3-phase laterals, using a set of storm resiliency and smart grid tools:
 - Fault Current Indicators
 - Automated reclosers and switches
 - Trip Savers
- These additional improvements will result in:
 - Reduced outages
 - Quicker identification of fault locations
 - Quicker isolation of faults
 - Shortening of restoration times
- In 2018, JEA plans to start using its new smart meters to tell its outage management system on/off status.



- Annual storm planning exercise coordinated with the City of Jacksonville's Emergency Management Division
- Pre-position assets and resources in advance of landfall
 - Mutual Aid coordination with Municipals and IOU's
 - Path of storm determines mutual aid availability
 - Contractors
 - Line crews
 - Tree crews
 - Inventory and Fuel
- Customer Communications
- Special needs customer registration
- Establish tracking processes for compliance with FEMA reimbursement guidelines

- Perform quick and accurate damage assessment
- Restoration follows industry best practice
 - Generation
 - Transmission
 - Substation
 - Distribution
- Initial restoration efforts focus on established priority service locations
- Over 1,000 utility workers helped JEA restore power after Hurricane Irma
- 99.94% of JEA customers had power restored one week after the storm

- JEA continues to evaluate the costs/benefits of Overhead vs. Underground
 - Underground experiences fewer outages
 - The length of underground outages are typically 78% longer than overhead outages
 - Underground fault locations are more difficult to locate
 - Underground, like overhead, is also susceptible to storm impacts
 - Uprooted trees
 - Flooding
 - Lightning
 - Significant rate increases
- Overhead to Underground Conversion Voluntary Program
 - Voluntary program for JEA customers to convert overhead electric service to underground
 - Can be paid for up front or through special assessment over a 10 or 20 year period
- Right tree in the right place
 - Applies to overhead and underground systems
 - Vast majority of overhead outages during Hurricane Irma were tree related



Building Community_{sm}

QUESTIONS



Hurricane Preparation & Irma Response

Bryan Olnick

Vice President, Distribution Operations, Florida Power & Light Company
Member, U.S. Department of Energy's Electric Advisory Committee

CHANGING THE CURRENT..  FPL

FPL stands with Puerto Rico

- ▶ On Nov. 3, FPL **accompanied Gov. Scott** to Puerto Rico
- ▶ Since then, FPL has been **directly supporting restoration effort**
- ▶ Mobilizing and transporting **1,000 power line poles**
- ▶ Senior Power Delivery and Power Generation executives **providing technical expertise** to PREPA



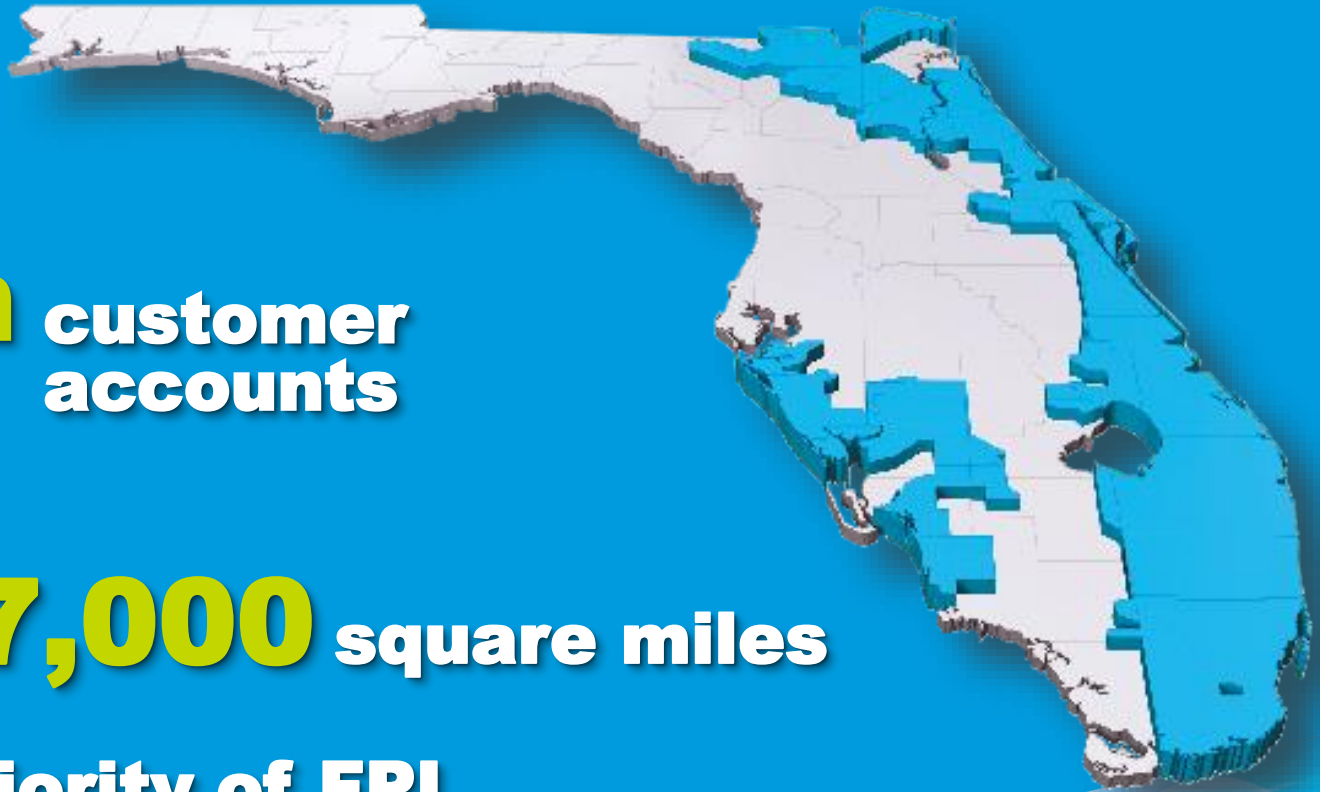
35 counties

4.9 million customer
accounts

Serving
more than
half
of Florida

27,000 square miles

Majority of FPL
customers live within
20 miles of the coast



\$3 billion+ invested in stronger, more resilient energy grid following '04-'05 hurricanes

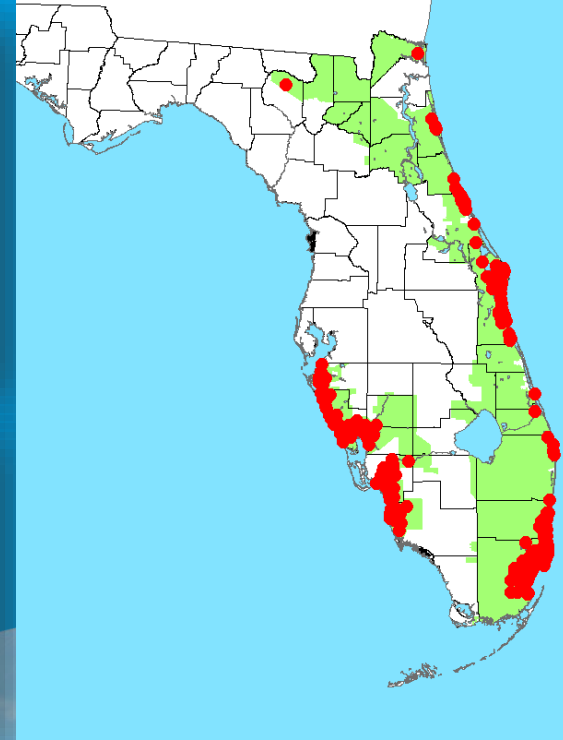
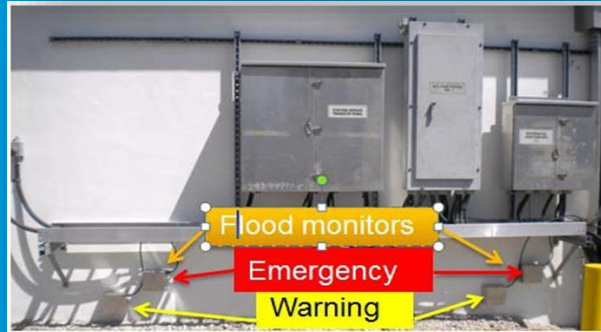
Distribution system improvements:

- ▶ Strengthened **860+** main power lines serving critical infrastructure
- ▶ **40%** of main power lines hardened or underground
- ▶ **150,000** pole inspections each year – **1.2 million** inspections every eight years
- ▶ Clear vegetation from **15,000** miles of power lines every year



Strengthening investments also include transmission & substation structures

- ▶ **90% of transmission structures** are now steel or concrete
- ▶ **223 substations** upgraded with storm surge and flood mitigation



Smarter and more modern energy grid

- ▶ Deployed **4.9 million** smart meters
- ▶ Installed more than **83,000** intelligent devices
 - » Automated feeder switches
 - » Automated lateral switches
 - » Fault current indicators
- ▶ Established **multiple diagnostic centers**



Technology enables situational awareness in the field

- ▶ **Mobile Command Centers** and **Community Response Vehicles** are deployed to impacted areas
- ▶ **Drones** are used to assess damage
- ▶ **Smart meters** help to assess restoration status

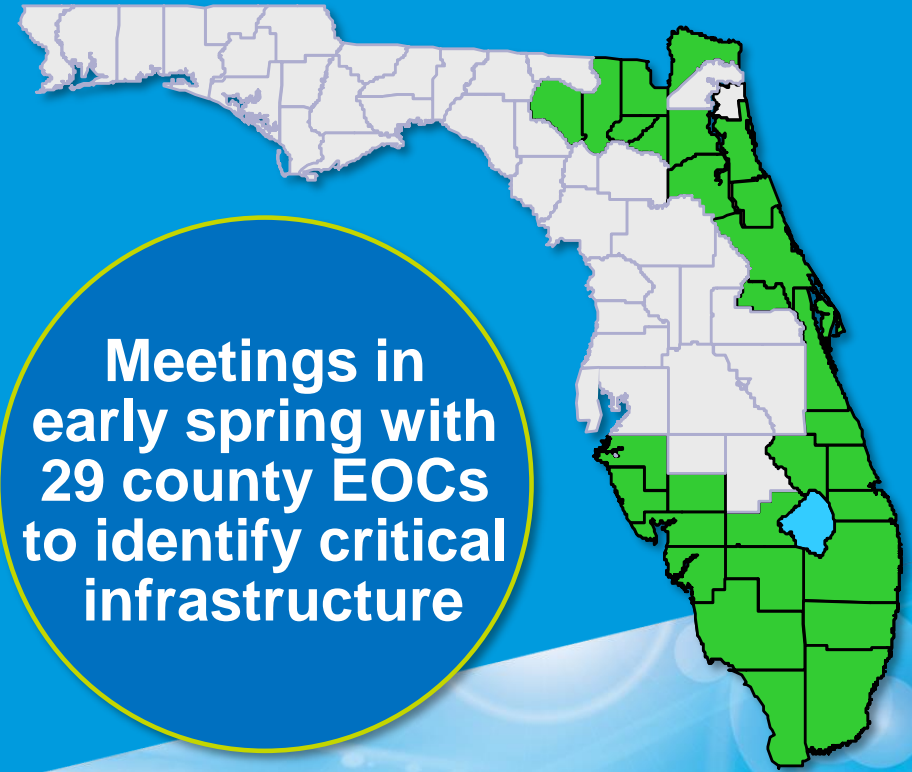


Year-round planning and practice ensures our readiness



Annually, local governments identify community priorities

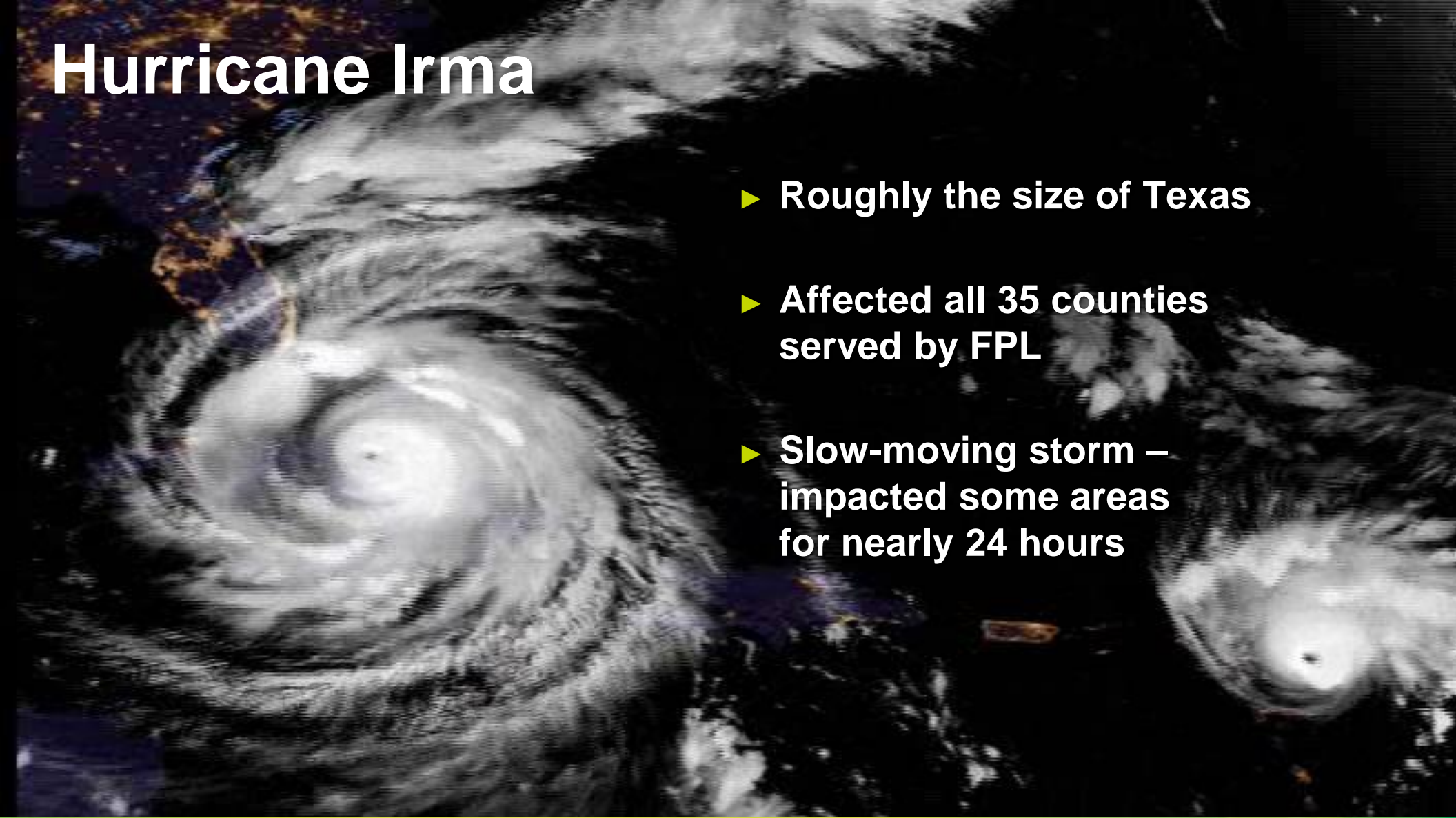
- ▶ Each county EOC **designates restoration priorities** – Top CIFs
- ▶ Ensures **local priorities are understood**
- ▶ Focus on **restoration priorities** that bring communities back more quickly



Meetings in early spring with 29 county EOCs to identify critical infrastructure

Hurricane Irma

- ▶ Roughly the size of Texas
- ▶ Affected all 35 counties served by FPL
- ▶ Slow-moving storm – impacted some areas for nearly 24 hours



Largest restoration workforce in FPL's history

Approximately **28,000** personnel activated

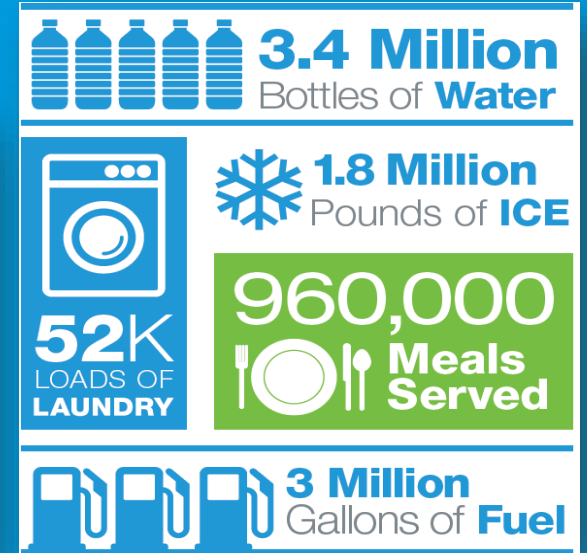
- ▶ **~9,000** FPL employees & embedded contractors
- ▶ **~19,000** external personnel
- ▶ **190+** utilities & other companies from **30** states + Canada provided assistance
- ▶ **29** staging/operations sites





**Thousands of crews
are positioned
throughout our
service area**

Building and operating an army of restoration resources



Restoring service to greatest number of customers safely and as quickly as possible





Winds alone weren't the biggest issue

major
damage from
flooding
and
**storm
surge**

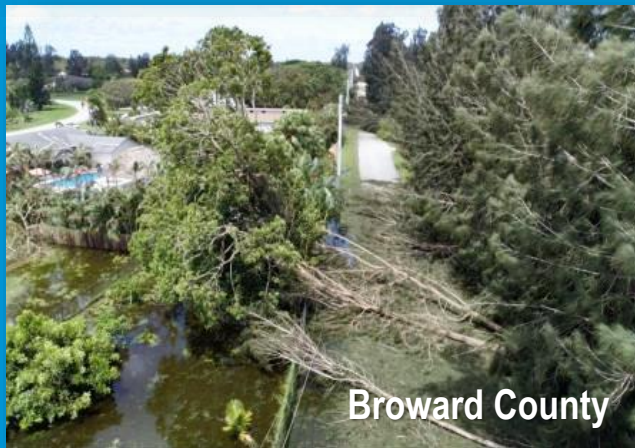
most outages
caused by
fallen trees
and
**wind-blown
debris**

Flooding and storm surge on both coasts



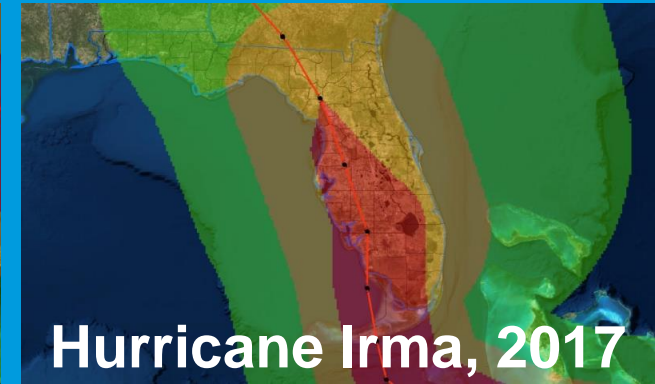
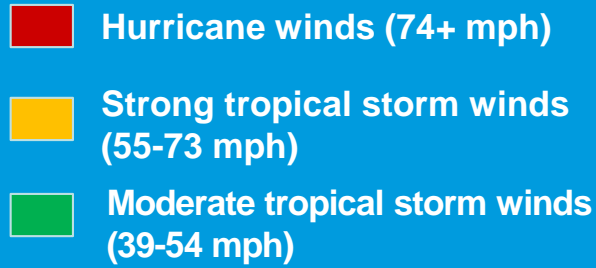


Most distribution outages caused by falling trees and wind-blown debris





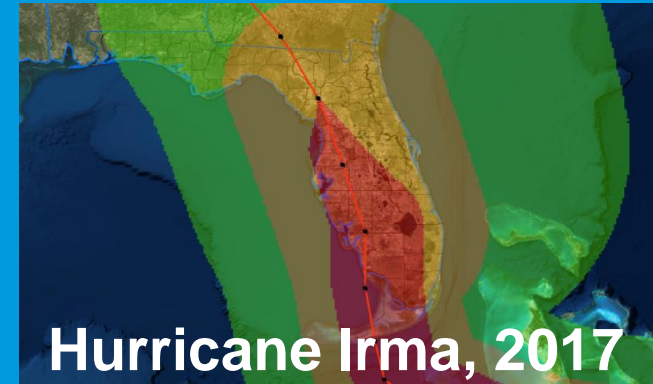
Wilma vs. Irma



Saffir-Simpson Scale	Category 3	Category 4
Maximum Sustained Winds in Florida	120 mph	130 mph
Cyclone Damage Potential Index*	2.8	4.3
FPL Counties Impacted	21	35
Customer Impacted	3.2 million	4.4 million
% of FPL Customers	75%	~90%

*Index developed by the National Center for Atmospheric Research that rates a storm's ability to cause destruction

Wilma vs. Irma Restoration



Poles damaged	12,400	2,500*
Substations De-energized	241	92
Substations Restored	5 days	1 day

*Based on preliminary data

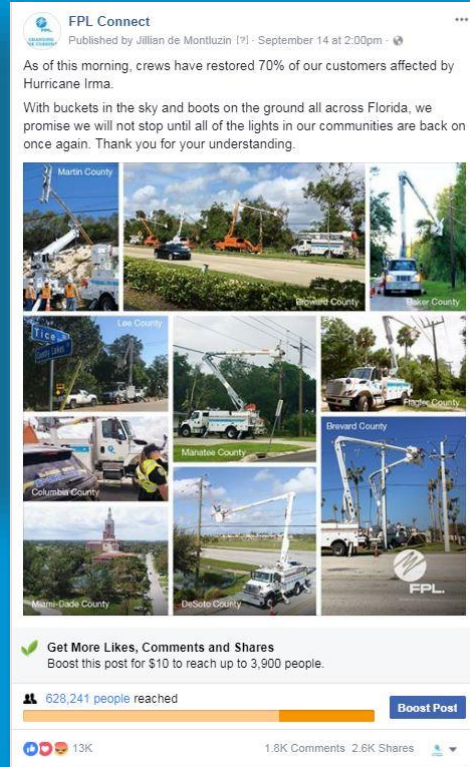
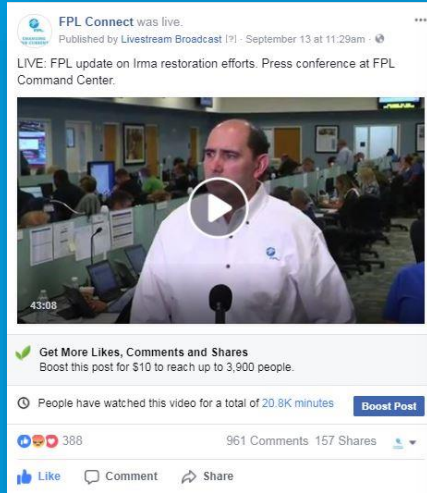
Wilma vs. Irma Restoration



Customer Restoration	18 days	10 days
50% of Customers Restored	5 days	1 day
75% of Customers Restored	8 days	3 days
95% of Customers Restored	15 days	7 days

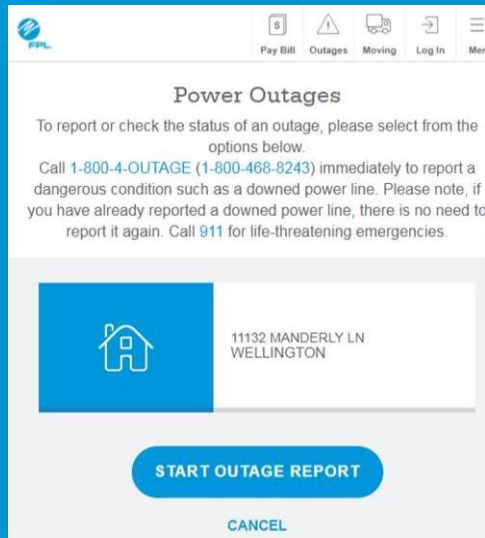
FPL restored service to 1 million customers before Irma exited Florida. After one full day of restoration, FPL restored service to 2 million customers.

Keeping customers informed was a critical focus



Key improvements moving forward

Working to enhance Restoration Information



The screenshot shows the FPL website's 'Power Outages' section. At the top, there are navigation links: Pay Bill, Outages, Moving, Log In, and Menu. The main heading is 'Power Outages'. Below it, a paragraph instructs users to report or check the status of an outage by selecting from options below. It provides the phone number 1-800-4-OUTAGE (1-800-468-8243) for reporting dangerous conditions like downed power lines, and advises calling 911 for life-threatening emergencies. A blue button with a house icon is labeled '11132 MANDERLY LN WELLINGTON'. At the bottom, there are two buttons: 'START OUTAGE REPORT' in blue and 'CANCEL' in light blue.

Educating communities about Right Tree, Right Place



Building on proven Hardening Investments

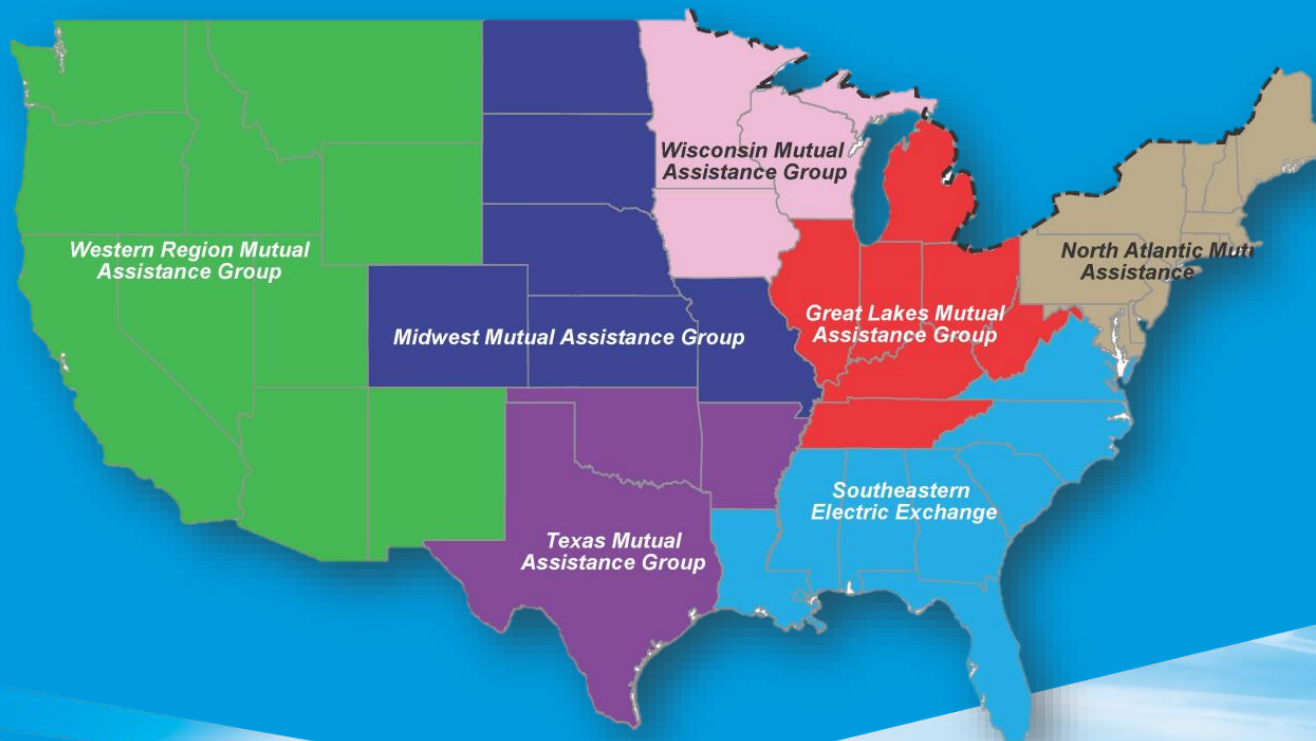




Appendix

- ▶ Regional Mutual Assistance Groups

Utility industry works together to ensure resource acquisition in time of need



Regional
**Mutual
Assistance**
Groups

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

11-15-17
Meeting Date

Bill Number (if applicable)

Topic Presenter - Utility Infrastructure

Amendment Barcode (if applicable)

Name Jordan Pope

Job Title Manager Government Relations

Address 21 W Church St

Phone 904-665-7765

Street

Jacksonville FL 32202

City

State

Zip

Email pope JA@jea.com

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing JE A

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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

S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

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11/15/17

Meeting Date

Bill Number (if applicable)

Topic HURRICANE RANNING? IRMA RESPONSE

Amendment Barcode (if applicable)

Name BRYAN OLNICK

Job Title V.P. DISTRIBUTION OPERATIONS

Address 700 UNIVERSE BLVD

Phone 561 904 3594

Street

JUNO BEACH, FL

Email BRYAN.OLNICK@FPL.COM

City

State

Zip

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing FLORIDA POWER & LIGHT

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

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S-001 (10/14/14)

No materials for this item.

THE FLORIDA SENATE
APPEARANCE RECORD

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11/15/17

Meeting Date

N/A

Bill Number (if applicable)

N/A

Amendment Barcode (if applicable)

Topic Department of Revenue Continuity of Operations

Name Tajiana Ancora-Brown

Job Title Chief of Staff

Address 2450 Shumard Oak Blvd.

Phone (850) 617-8600

Street

Tallahassee

FL

32399

Email tajianaancora-brown@floridarevenue.com

City

State

Zip

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Department of Revenue

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

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APPEARANCE RECORD

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11-15-17

Meeting Date

Bill Number (if applicable)

Topic Continuity of Operations / Child Support

Amendment Barcode (if applicable)

Name Debra Longman

Job Title Legislative Director

Address 2450 Shumard ^{Oak} Blvd.

Phone 850 717-7422

Tallahassee FL 32399

City

State

Zip

Email debbie.longman@
floridarevenue.com

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Department of Revenue

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

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November 15, 2017

Meeting Date

-
Bill Number (if applicable)

Topic DFS COOP Plan

-
Amendment Barcode (if applicable)

Name Elizabeth Boyd

Job Title Deputy Chief Financial Officer

Address 200 N Monroe St

Phone 850-413-2829

Street

Tallahassee

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32399

Email elizabeth.boyd@myfloridacfo.com

City

State

Zip

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Department of Financial Services

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

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11/15/2017
Meeting Date

Bill Number (if applicable)

Topic COOP Plans

Amendment Barcode (if applicable)

Name Reggie Dixon

Job Title Chief of Staff

Address 2601 Blairstone Rd
Street
Tallahassee FL 32399
City State Zip

Phone 850-487-4827

Email LegislativeAffairs@myfloridalegislature.com

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing DBPR

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

CourtSmart Tag Report

Room: SB 301
Caption: Senate Appropriations Committee on General Government

Case No.:

Type:
Judge:

Started: 11/15/2017 3:32:49 PM

Ends: 11/15/2017 5:29:49 PM

Length: 01:57:01

3:33:02 PM	Sen. Simmons (Chair)
3:33:06 PM	Roll call
3:33:45 PM	Sen. Simmons
3:36:59 PM	TAB 2 - Continuity of State Operations
3:37:25 PM	Tajiana Ancora-Brown, Chief of Staff, Department of Revenue
3:45:57 PM	Sen. Simmons
3:46:01 PM	Sen. Torres
3:46:34 PM	T. Ancora-Brown
3:46:40 PM	Sen. Torres
3:47:08 PM	Debra Longman, Legislative Director, Department of Revenue
3:48:05 PM	Sen. Torres
3:48:17 PM	D. Longman
3:48:53 PM	Sen. Torres
3:49:06 PM	D. Longman
3:49:21 PM	Sen. Torres
3:49:23 PM	D. Longman
3:49:56 PM	Sen. Torres
3:49:59 PM	D. Longman
3:50:04 PM	Sen. Simmons
3:50:53 PM	Elizabeth Boyd, Deputy Chief Financial Officer, Department of Financial Services
3:54:31 PM	Sen. Simmons
3:55:08 PM	Reggie Dixon, Chief of Staff, Department of Business and Professional Regulation
3:57:58 PM	Sen. Simmons
3:58:01 PM	Sen. Rouson
3:58:42 PM	R. Dixon
3:59:41 PM	Sen. Rouson
4:00:07 PM	R. Dixon
4:00:10 PM	Sen. Simmons
4:01:09 PM	TAB 1 - Utility Infrastructure
4:02:44 PM	Jordan Pope, Manager of Government Relations, JEA
4:09:46 PM	Sen. Simmons
4:10:08 PM	J. Pope
4:10:13 PM	Sen. Simmons
4:10:23 PM	J. Pope
4:10:27 PM	Sen. Simmons
4:10:46 PM	J. Pope
4:10:53 PM	Sen. Simmons
4:10:57 PM	J. Pope
4:11:02 PM	Sen. Simmons
4:11:23 PM	J. Pope
4:11:29 PM	Sen. Simmons
4:11:43 PM	J. Pope
4:11:54 PM	Sen. Simmons
4:12:20 PM	J. Pope
4:12:51 PM	Sen. Simmons
4:13:03 PM	J. Pope
4:13:19 PM	Sen. Broxson
4:13:47 PM	J. Pope
4:14:03 PM	Sen. Simmons
4:14:09 PM	J. Pope
4:16:13 PM	Sen. Rouson
4:16:47 PM	J. Pope

4:17:18 PM	Sen. Torres
4:17:45 PM	J. Pope
4:17:52 PM	Sen. Torres
4:17:57 PM	J. Pope
4:18:08 PM	Sen. Simmons
4:19:25 PM	J. Pope
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4:19:55 PM	J. Pope
4:20:16 PM	Sen. Simmons
4:20:26 PM	J. Pope
4:20:39 PM	Sen. Simmons
4:22:17 PM	J. Pope
4:22:49 PM	Sen. Simmons
4:23:29 PM	J. Pope
4:23:59 PM	Sen. Simmons
4:24:14 PM	J. Pope
4:24:33 PM	Sen. Simmons
4:25:16 PM	Bryan Olnick, Vice President of Distribution Operations, Florida Power and Light Co.
4:28:28 PM	Sen. Simmons
4:29:00 PM	B. Olnick
4:30:50 PM	Sen. Simmons
4:31:07 PM	B. Olnick
4:31:27 PM	Sen. Simmons
4:31:58 PM	B. Olnick
4:32:01 PM	Sen. Simmons
4:32:35 PM	B. Olnick
4:34:36 PM	Sen. Simmons
4:34:57 PM	Sen. Broxson
4:35:53 PM	B. Olnick
4:36:35 PM	Sen. Torres
4:37:53 PM	B. Olnick
4:39:25 PM	Sen. Simmons
4:40:23 PM	B. Olnick
4:47:21 PM	Sen. Simmons
4:47:27 PM	Sen. Rodriguez
4:47:40 PM	Sen. Rodriguez
4:48:17 PM	B. Olnick
4:50:50 PM	Sen. Rodriguez
4:52:16 PM	B. Olnick
4:53:44 PM	Sen. Garcia
4:55:30 PM	B. Olnick
4:57:19 PM	Sen. Garcia
4:58:49 PM	Sen. Simmons
5:01:14 PM	Sen. Mayfield
5:02:00 PM	Sen. Taddeo
5:03:47 PM	B. Olnick
5:04:16 PM	Sen. Broxson
5:04:40 PM	Sen. Simmons
5:04:46 PM	B. Olnick
5:07:14 PM	Sen. Simmons
5:07:23 PM	B. Olnick
5:15:34 PM	Sen. Simmons
5:15:41 PM	B. Olnick
5:24:17 PM	Sen. Simmons
5:24:22 PM	Sen. Mayfield
5:25:01 PM	Sen. Simmons
5:29:24 PM	Adjourned