



Winter Storm Fern & FMMPA Lessons Learned

Florida Public Service Commission

October 6, 2026

FMPA - 32 Florida Municipal Members

Today, Representing 13 Owners & 4 Other Requirements Customers

Alachua*

Bartow

Blountstown

Bushnell*

CFTOD*

Chattahoochee

Clewiston*

Fort Meade*

Fort Pierce*

Gainesville

Green Cove Springs*

Town of Havana*

Homestead*

Jacksonville*

Jacksonville Beach*

Key West*

Kissimmee*

Lake Worth Beach*

Lakeland**

Leesburg*

Moore Haven*

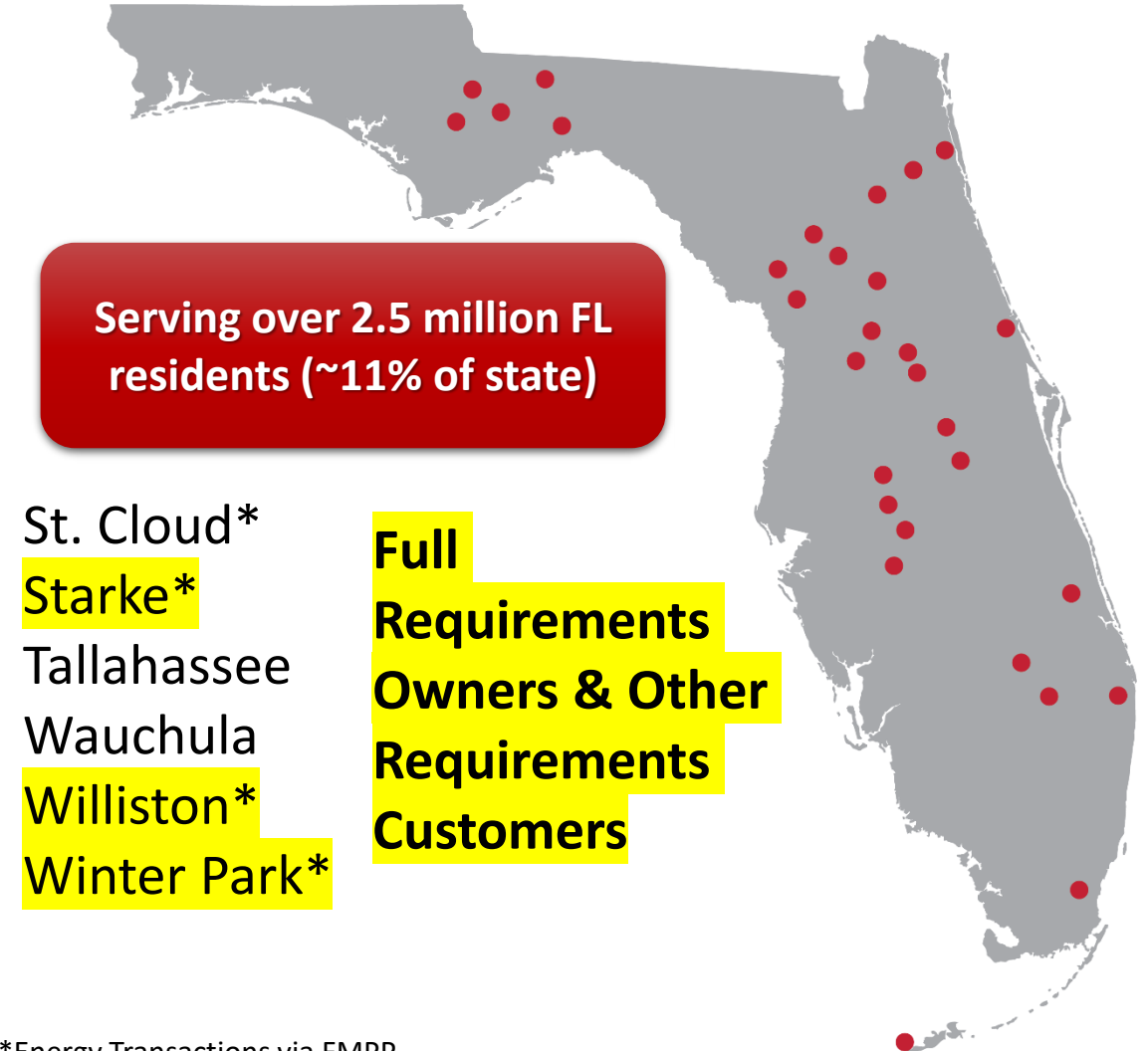
Mount Dora*

New Smyrna Beach*

Newberry*

Ocala*

Quincy



St. Cloud*

Starke*

Tallahassee

Wauchula

Williston*

Winter Park*

FMPA Lessons from Winter Storm Fern

Customer Back-up Generation & Load Shifting Valuable Tools

- Winter Storm Fern cold affected entire Eastern U.S. including Florida over 14-day period
- Central FL (Orlando) near record wind chill cold "needle peaks" challenge & opportunity
- FMPA early-action on back-up generation and customer "use shifting" valuable in reducing "load"
 - Required early and regular communication with FMPA Members and Members' customers
- DOE Sec. 202c orders along with FDEP provided important support for utility & back-up generation
 - Early communication and coordination with DOE very helpful
- Diesel back-up fuel important to reduce natural gas demand

Winter Storm Fern, Extreme Cold in Central FL (MCO)

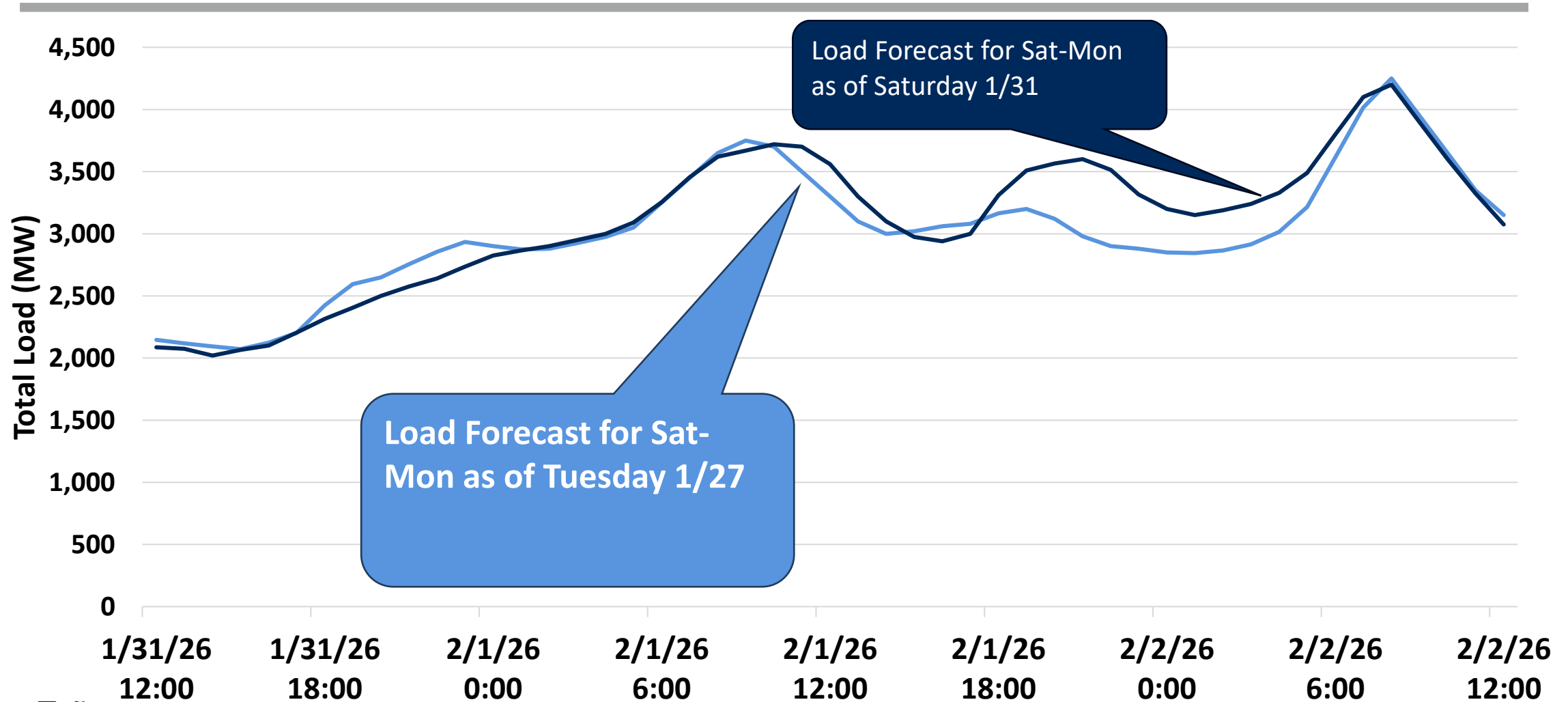
Forecast for January 31 – February 2 Very Challenging

All Options Needed to Serve Potential All-Time Peak

- Fern brought cold temps 24 degrees & 5 degree wind chills in Central FL (Orlando)
- Florida near all-time "needle peak" forecast; 6-9 a.m. and 6-9 p.m. challenge/opportunity
- FMPA Central Florida plants operating in conditions not contemplated
- FMPA started discussing all options on the table Wednesday, January 28
 - Access to Municipal Member and Customer Back-up Generation
 - Inform customers to shift consumption out of 6-9 a.m. and 6-9 p.m. peak periods
- FMPA Members informed customers Thursday/Friday of actions needed on Sunday and Monday
- DOE and FDEP provided utility & customer-owned generation support – waiving permit limits

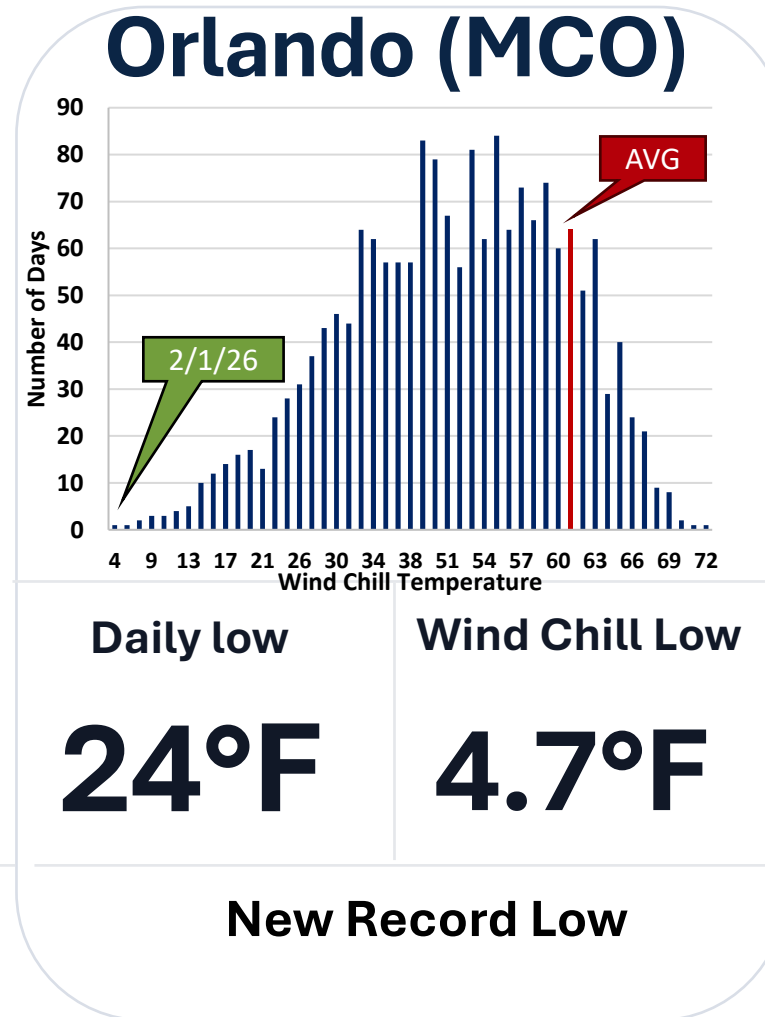
Monday BA Load Forecast - Very Tight Load Conditions

Generation Capacity of ~4,200 MW Assuming No Generation Loss



Historic Cold for Central FL (Orlando)

One of Lowest Recorded Wind-Chill In Last 100 Years for Orlando



Extreme Cold Beyond Winterization Plan, Adjusted

FMPA Lost 2 Major Units Sunday Morning, Repaired All for Monday

- Orlando at 24 degrees and 5 degree wind chill well below FMPA winterization plan for 32 degrees
- FMPA uprated units 82 MW for winter & added 24 MW via transmission
- Environmental engagement & waiver with FDEP & DOE critical to achieve unit uprates
- FMPA lost major 2 units on Sunday morning with one major unit out on long-planned major
 - FMPA's balancing authority had 5 total units trip Sunday morning
 - Led to EEA3 event
 - All load was served with support from other utilities in the state
 - FMPA Team ensured all units available for Monday working until 1 a.m.

Team Implemented Mitigations Sun. PM & Early Mon.

Hard Work & Innovative Solutions Made Units Available Monday



Mulberry constructed multiple coverings to insulate and heat critical equipment



Sand Lake used common house insulation to protect vital equipment & transmitters



Member & Customer Engagement Early

Critically Important to Shifting Use from Needle Peak

- Load forecast Tues-Sat: significant concern on serving load Monday a.m.
 - Wide load forecast error - limited data on potential temperature & wind chill
 - All options needed to be available early
- Sun./Mon. needle peak - opportunity to "shift use" from 3-hour period a.m. & p.m.
- Members/customers actions – need communication/coordination early
- Remove air & operating permit concerns for member/customer generation
- DOE outreach on Wednesday – very responsive obtaining Sec. 202c order
 - 1st time for customer owned generation during week of Fern
- FMPA Members engaged backup generation on Thur/Fri - scheduled Sun/Mon
- FMPA Members Customer load shifting communications ramped up Friday

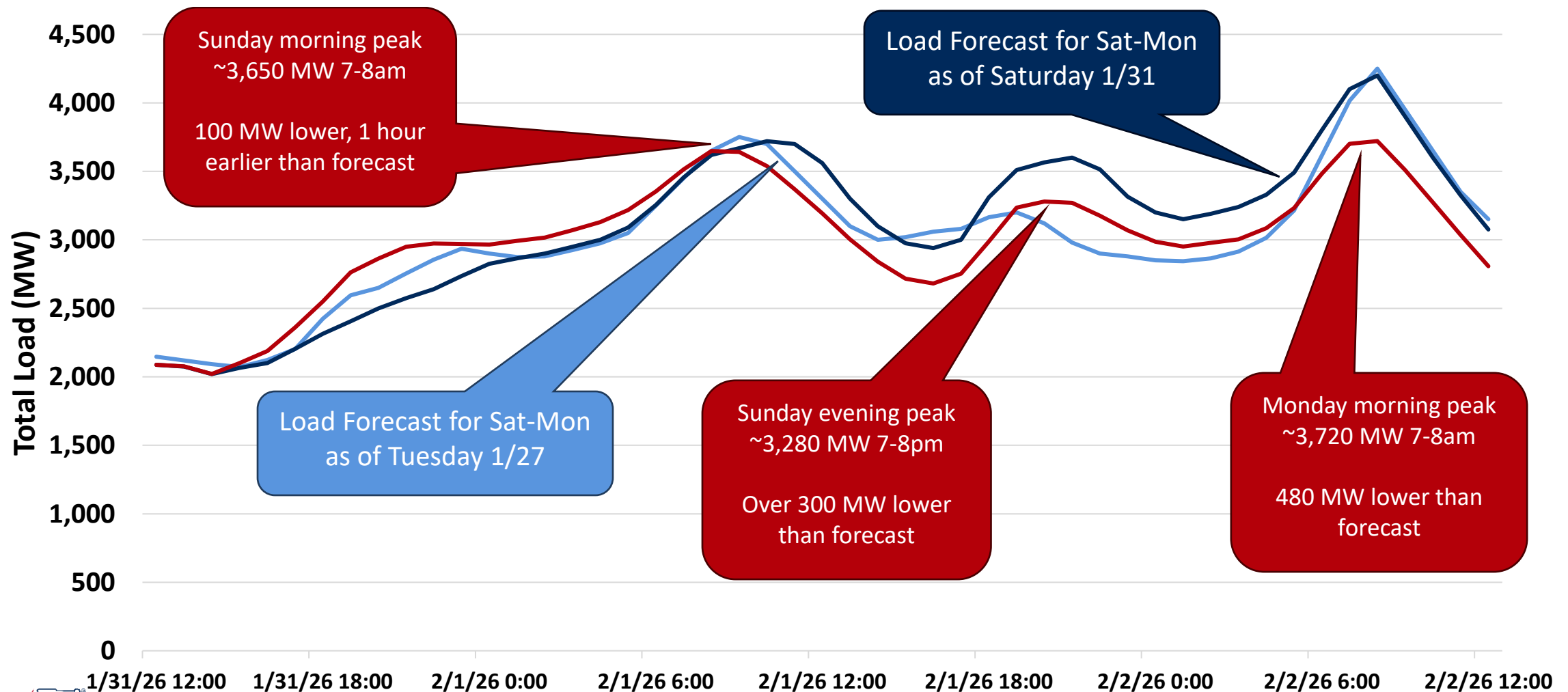
Members Reduced Load Thru Back-up Gen. & Load Shifting

Reduced Peak Load Served by 3-6%

- FMPA Members reduced load with back-up generation & load shifting
- ARP served load and had 53 MW of nameplate back-up generation operating
- FMPA Members communications with customers led to load shifting and additional load reduction
- Important to communicate in advance to receive the benefits – initial communications occurred Thursday and Friday
 - Follow-up communications via text and media Saturday-Monday early a.m.

BA Mon. Peak Lower Than Forecast – Slightly Warmer

Customer Use Shifting and Back-up Generation Very Helpful



Market Signaling Little/No Power Pre-Weekend

High Prices For Delivered Gas Drove Diesel Runs For Savings

- No utilities offering to sell power going into weekend
- One bid to buy at \$2,000/MWh for weekend
- Energy power sold for \$1,500 – \$2,000/MWh
- FGT Zone 3, city gates, and dispatch prices \$40 - \$80/MMBtu
 - Means \$400 – 1,000/MWh for gas-based peakers
- FMPA economics favors diesel runs at ~\$200/MWh
- ~30% of gas units on diesel throughout FL

Gas Zone	High Price \$/mmbtu	Date
FGT Zone 3	\$39.38	Jan-27
FGT City Gates	\$64.11	Feb-01
FMPA Dispatch	\$78.00	Feb-01
Fuel Oil	\$18.79	Jan-29

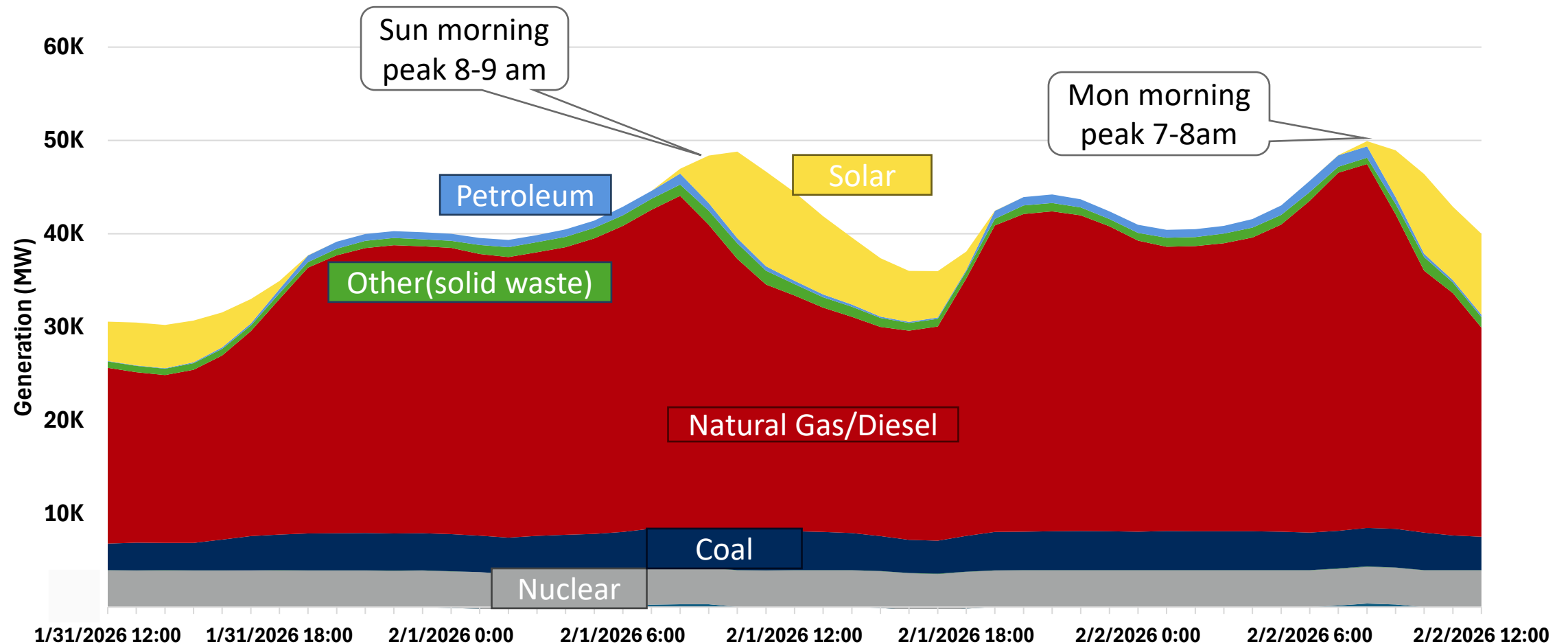
Tight Reserve Margins Across Entire FRCC Region

Four Balancing Authorities in EEA Sometime During Sunday - Tuesday

- Several utilities concerned of forecast of some of emergency by Friday
- Conservative operations declared for Friday midnight through Tuesday noon
- Generating Capacity Advisory issued Friday afternoon for Sunday-Monday risk
- No utility (BA) entered Sunday in EEA
- FMPA's balancing authority declared inability to meet load (EEA3) Sun morning
 - Due to loss of >1200 MW of generation
- Major utility declared on Sunday, likely no emergency power for Monday
- 3 Balancing Authorities covering 33% of state declared deficient reserves (EEA1) Monday
 - One Balancing Authority exercised interruptible customers (EEA2)
 - FMPA no issues on Monday
 - 1 Balancing Authority briefly in EEA 1 on Tuesday morning for reserve issue

Florida Generation Mix During Winter Storm Fern

Essentially No Solar Monday at 7 am Peak, Diesel Back-up ~30%

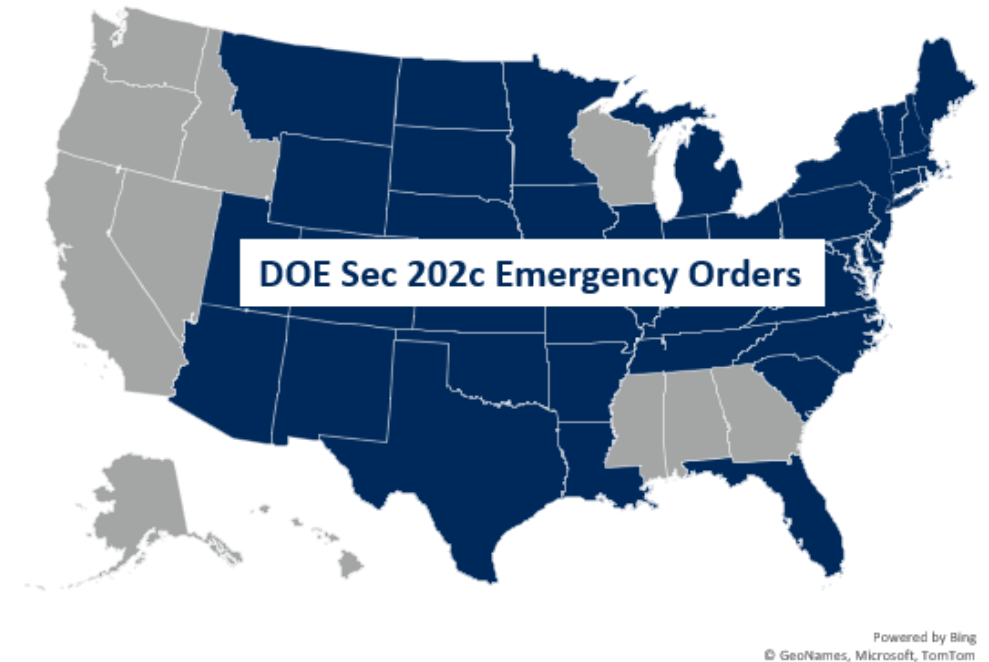


FMPA Lessons from Fern Nationally & Locally

Customer Back-up Generation & Load Shifting Valuable Tools

- Fern record cold affected entire Eastern U.S.
- FL record cold "needle peaks" challenge & opportunity
- Early-action on back-up generation and customer "use shifting" valuable
- DOE Sec. 202c orders provided important support for utility & back-up generation
- Sec 202c Orders in place 61 distinct days in 2026
 - 22 days in during Fern & 39 days summer
 - Over 2/3 of country has used
- Diesel back-up critical for Florida to meet winter peaks

States with DOE Sec 202c Orders¹



1 - Based on the U.S. Department of Energy's 2026 Federal Power Act 202(c) docket and associated applications and orders