



Mission Possible: Unlocking Energy Freedom United States and Florida

FGU Annual Conference

October 15, 2025



Life In Florida In 1900 Presented Many Challenges

Humid and Hot Climate, Poor Drainage Made FL a Tough Sell

"Florida, sir, is not worth buying. It is a land of swamps, of quagmires, of frogs and alligators and mosquitoes! A man, sir, would not immigrate into Florida.... – no, not from hell itself!"

— U.S. Rep. John Randolph of Virginia, 1821



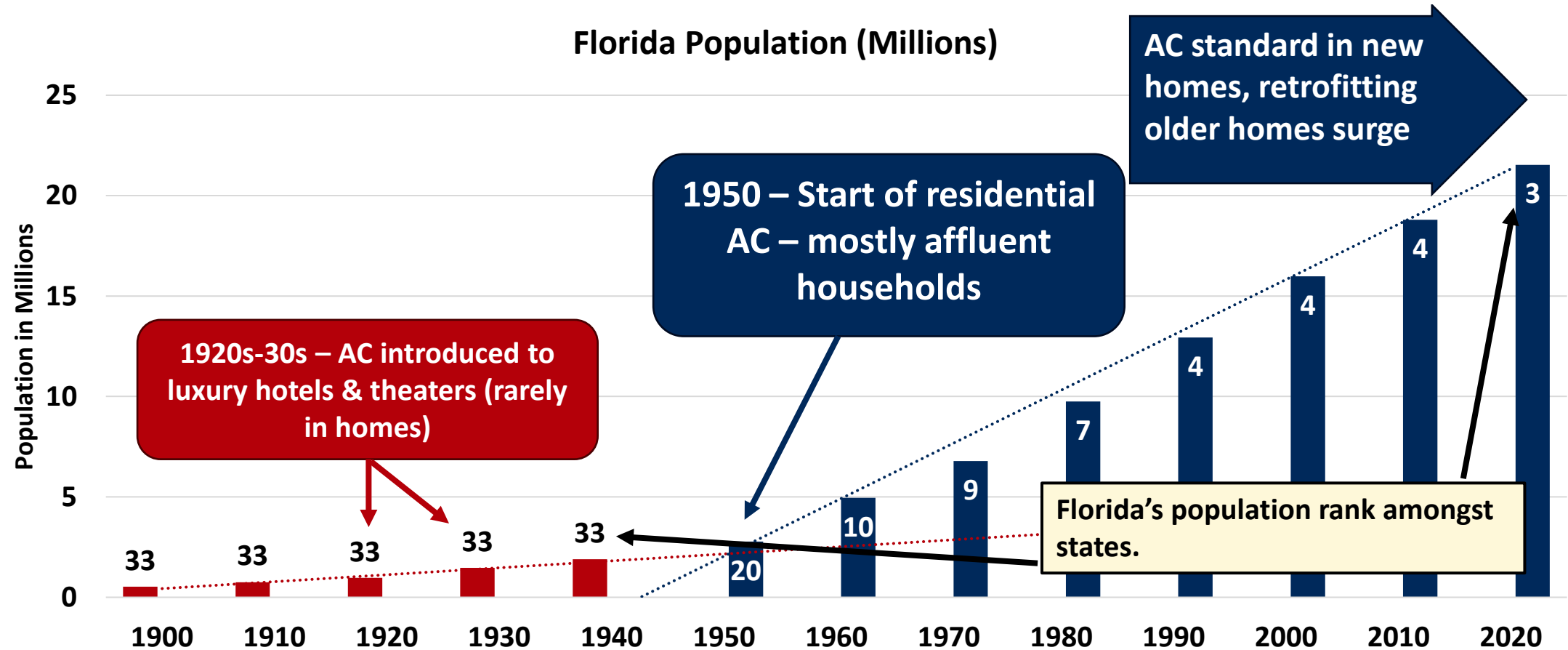
Family relaxing in “outdoor room” common in FL the early 1900s for ventilation and shade



Dredge at Tamiami Canal in 1921

Abundant & Affordable Power > FL Population Growth

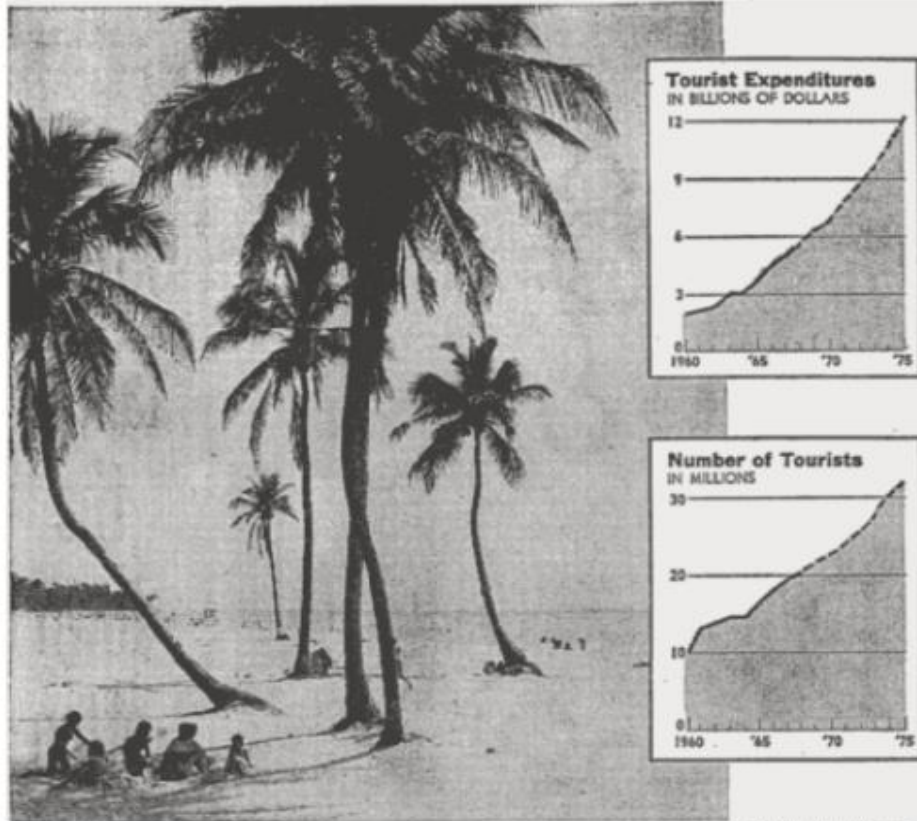
Florida Was 33rd in 1940 - Now 3rd Most Populous in U.S.



Air Conditioning Powered by Electricity – FL Livable

Residents Empowered To Live, Play, Thrive and Work In Florida

As Florida Roars Into the Seventies



Florida Department of Commerce
DRAWING CARD—Beaches like this one near Palm Beach account for much of Florida's economic growth. Charts show the number of tourists and what they spend.

- Post World War II, FL's economy boomed – influenced by tourism & population growth
- New Interstates brought people to FL, all craving nightly comfort after day of play
- By 1990s, air conditioning was billion-dollar industry and “greatest single source of energy expended by Floridians.”

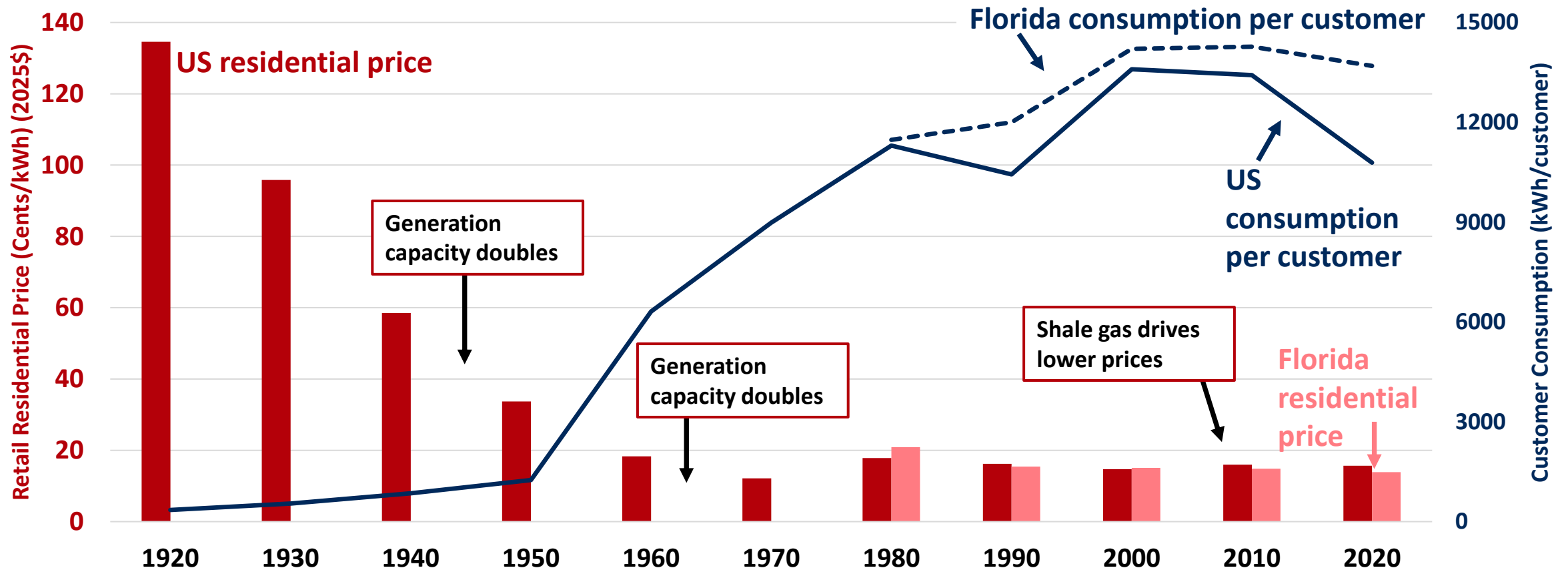
—Dr. Gary Mormino, author of *Land of Sunshine, State of Dreams: A Social History of Modern Florida*

- A/C largest user of power in Florida home

Abundant & Affordable Electricity Key To FL's Growth

Affordable A/C Led to Increased FL Population & Electric Use

US & FL Customer Consumption vs. Price



Sources: EIA, FPSC EI801-70s, Series S 108-119. Growth of Residential Service, and Average Prices for Electric Energy: 1902 to 1970

Starke: Oldest Municipal Utility in Florida

Florida Municipals Integral in Providing Energy Freedom



Starke Municipal Power Plant, 1969

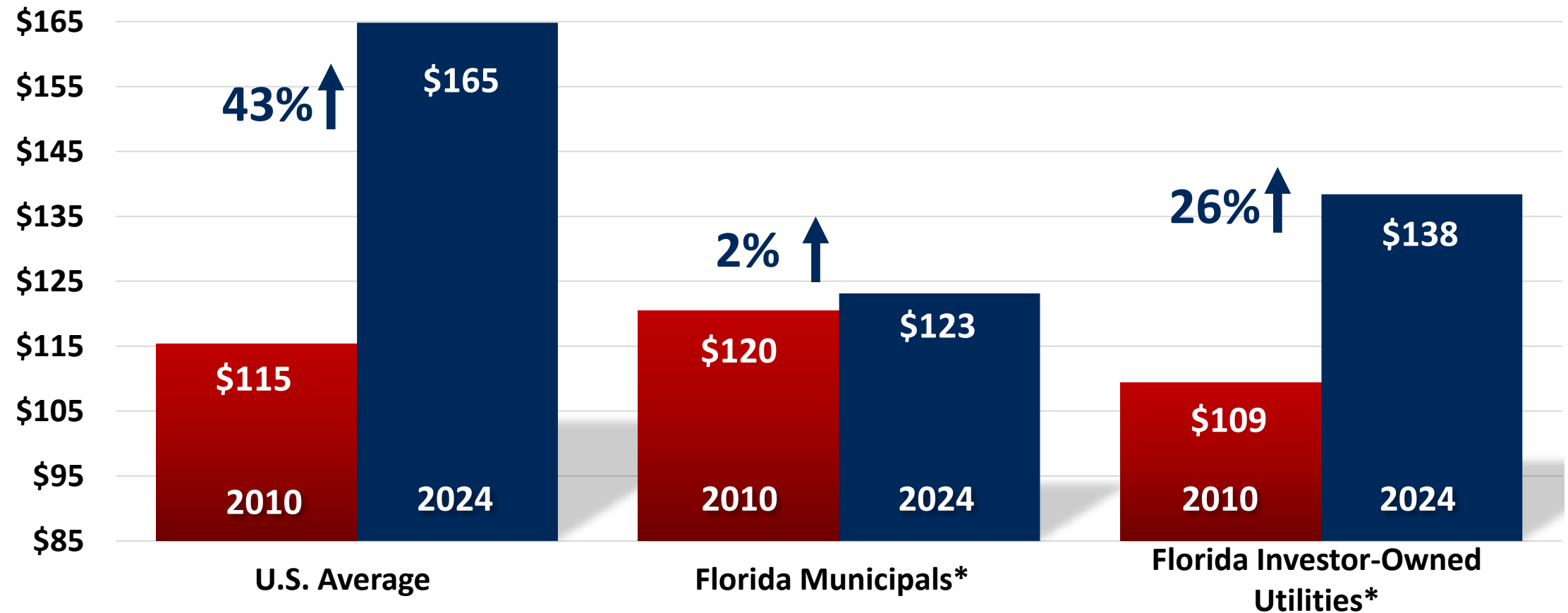
- Starke began commercial service in 1890
- Followed by other municipal utilities Jacksonville (1895), Ocala (1897) and Williston (1900)



FL Utilities Lead in Providing Low-Cost Electricity

Municipal Rates 2% Higher than in 2010, U.S. Rates Up ~40%

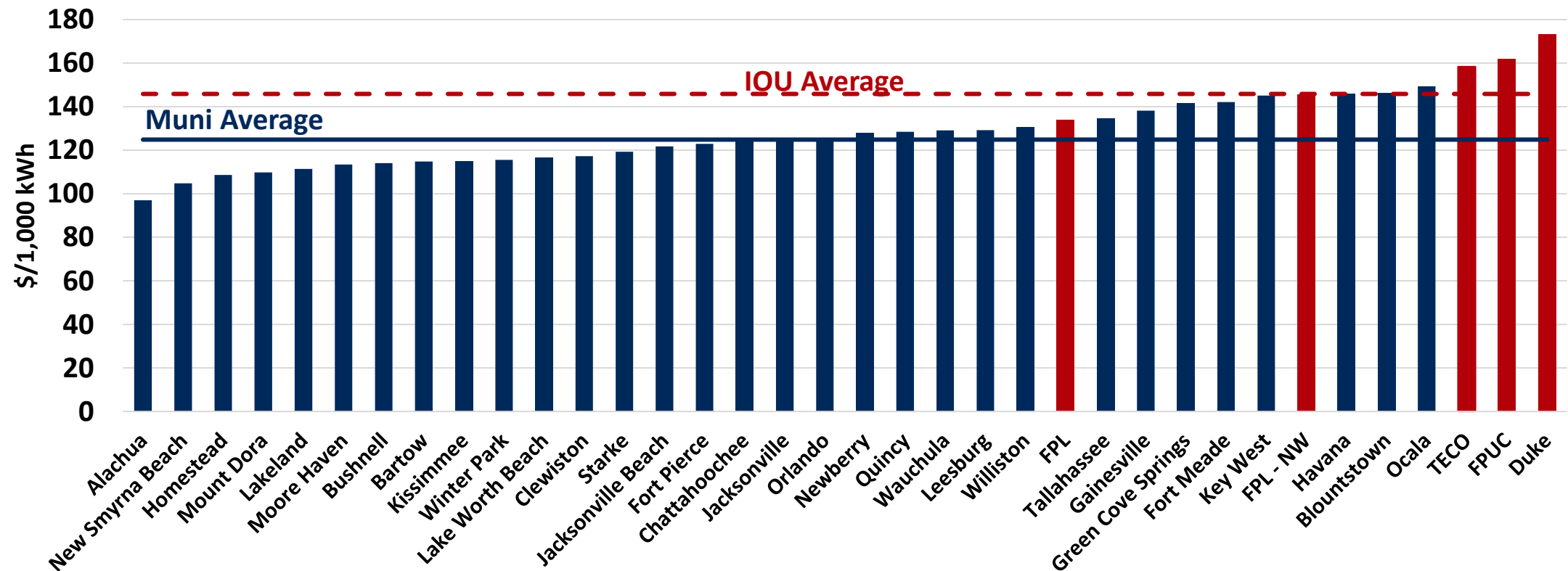
1,000 kWh Residential Bill Comparison



24 FL Muni Rates Consistently Lower than Lowest IOU

Munis Weighted Average \$125 vs IOU Weighted Average \$146

1,000 kWh Residential Bill Comparison: Sep '24 through Aug '25

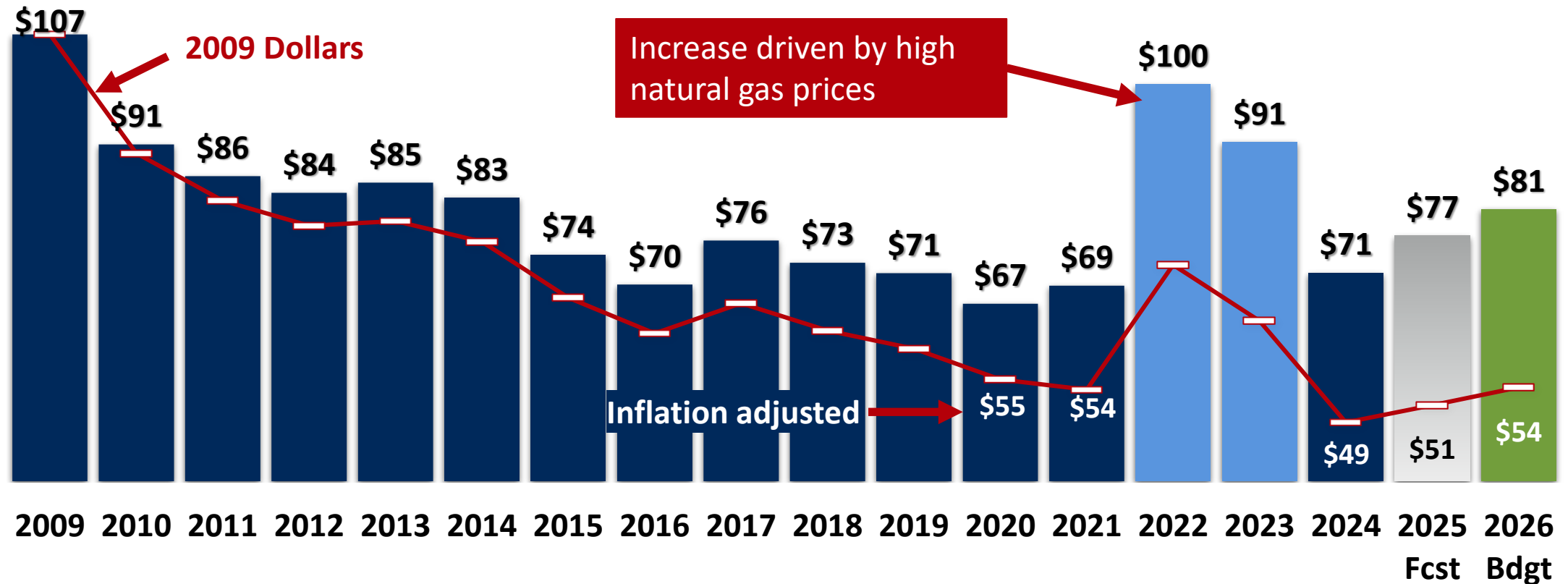


Spending Lower % of Disposable Income on Power

FY24 & 25 Two Lowest Inflation-Adjusted Costs in ARP History

All-Requirements Project Power Costs

Actual cost incurred \$/MWh



Texas is Rich in Energy Resources; Florida...Not So Much

How/Why is Florida's Cost and Reliability Similar/Better

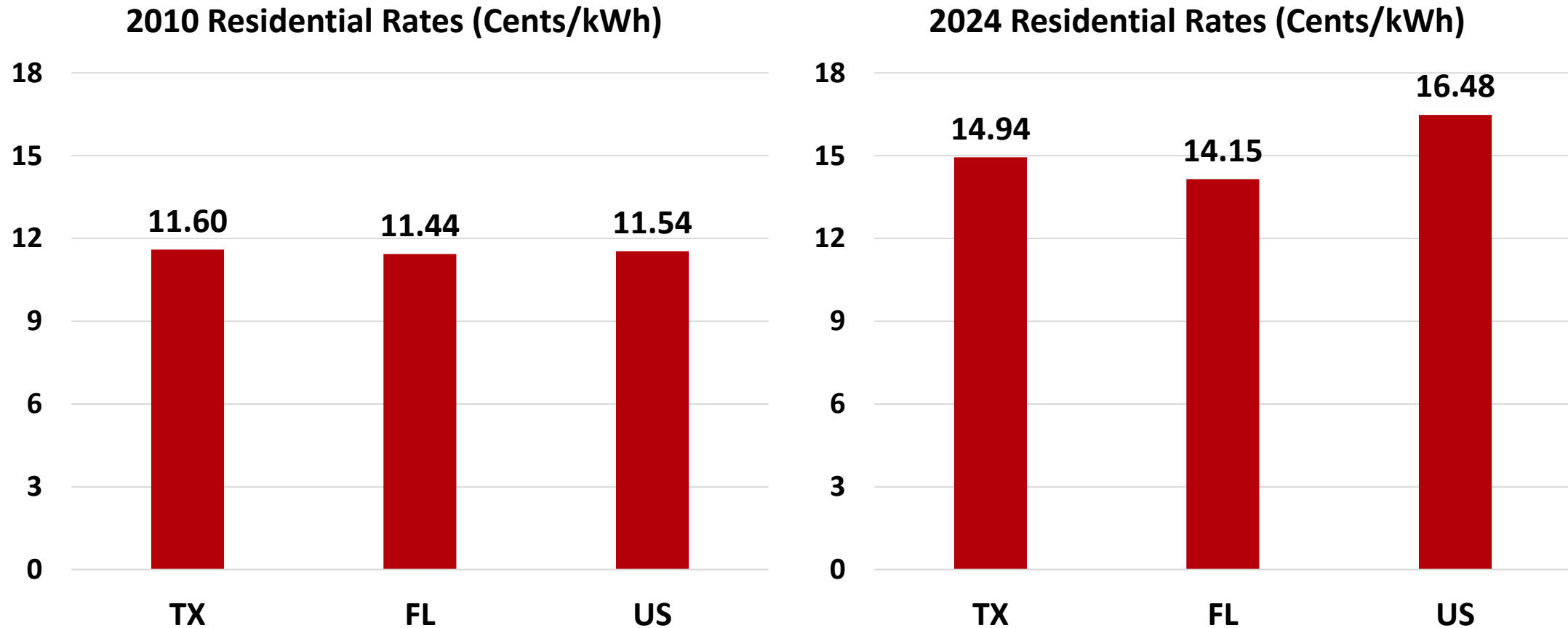
Texas Energy Advantages:

- In state natural gas/oil supply w/numerous intrastate pipelines
- Invented shale fracking technology
- In state coal supply & low-cost access to Wyoming coal
- Land is plentiful and affordable – Florida thin narrow state, 25% wetland
- Significant wind generation resources – Florida has none
- West TX solar 25% more available than Central FL – daily summer rains
- Fewer hurricanes
- Deregulated energy market?
- Both states have limited outside transmission – Florida due to geography

With So Many Resource Advantages

Why Aren't TX Costs of Power Lower Than Florida?

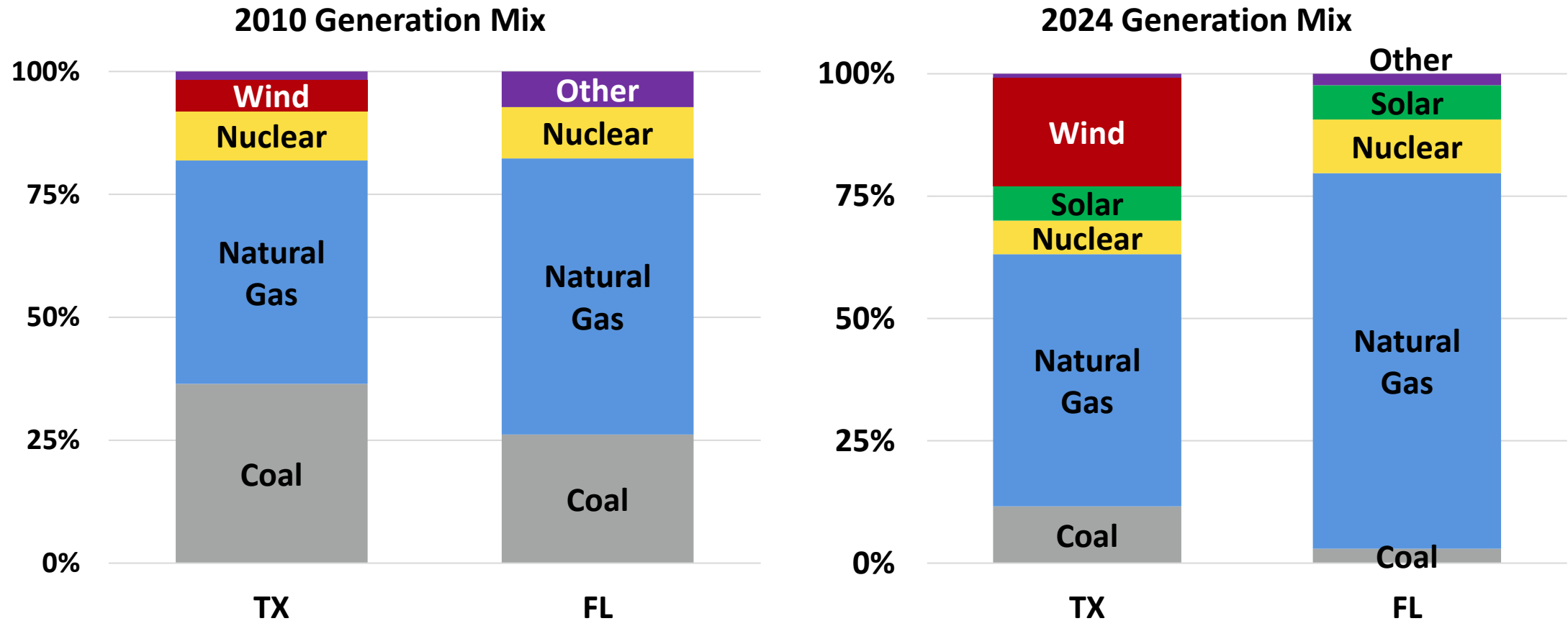
Florida's Relatively Low Rates Due to Shale Revolution



Texas Generation Transitioned to Wind from Coal

FL Moves to 75% Natural Gas – Most Dependent Region in U.S.

Florida's Growth in Solar Led by Major IOU's



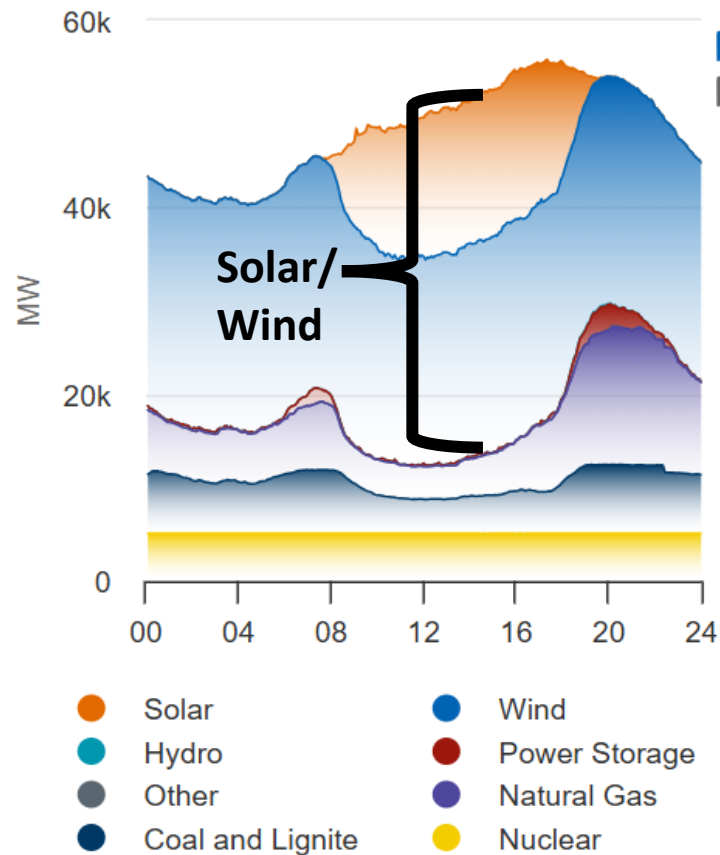
Texas Significant Wind/Solar in Spring

Natural Gas Consumption Going Down in Spring/Fall

Fuel Mix

ERCOT - TX

Last Updated: Mar 19, 2025 09:54 CT



- Solar & wind displacing natural gas in spring in Plains
 - ERCOT 75% of energy sunny/windy days
 - Similar in SPP and MISO
- U.S. added 30 GW of solar last 12 months
 - Equivalent of 2 BCF/day less gas
- When natural gas hits \$4/mmbtu gas dispatches after coal in Middle U.S. with \$1 - 2.50/mmbtu delivered coal
 - Affect regions ERCOT, SPP & MISO

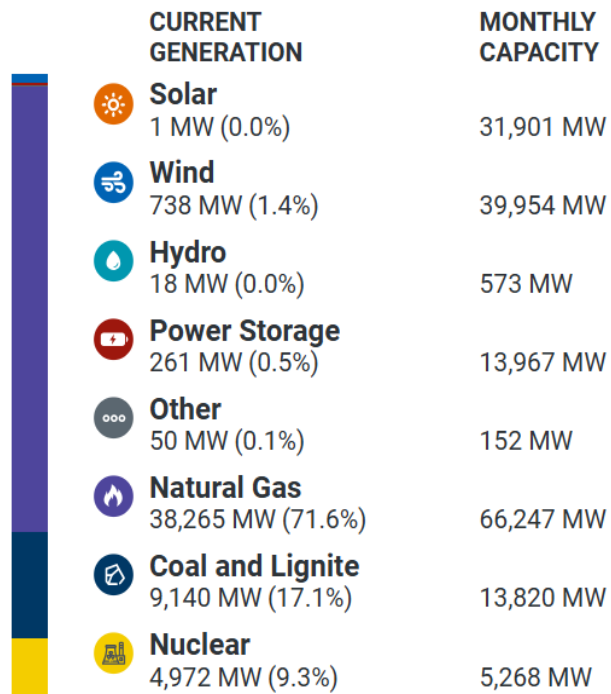
Texas Solar and Wind – 42% of Capacity

Can Be Zero in "Dog Days" of Summer or Winter Peaks

Fuel Mix



Last Updated: Aug 21, 2025 04:41 CT

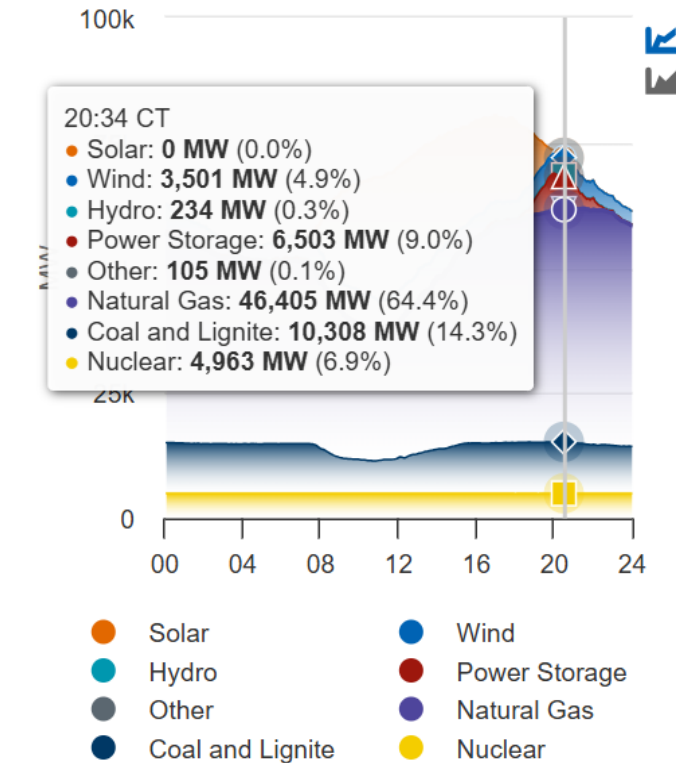


[Previous Day](#) | [Real-Time](#) | [Current Day](#)

Fuel Mix



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Changing Generation Mix & Growth, Reliability Challenge

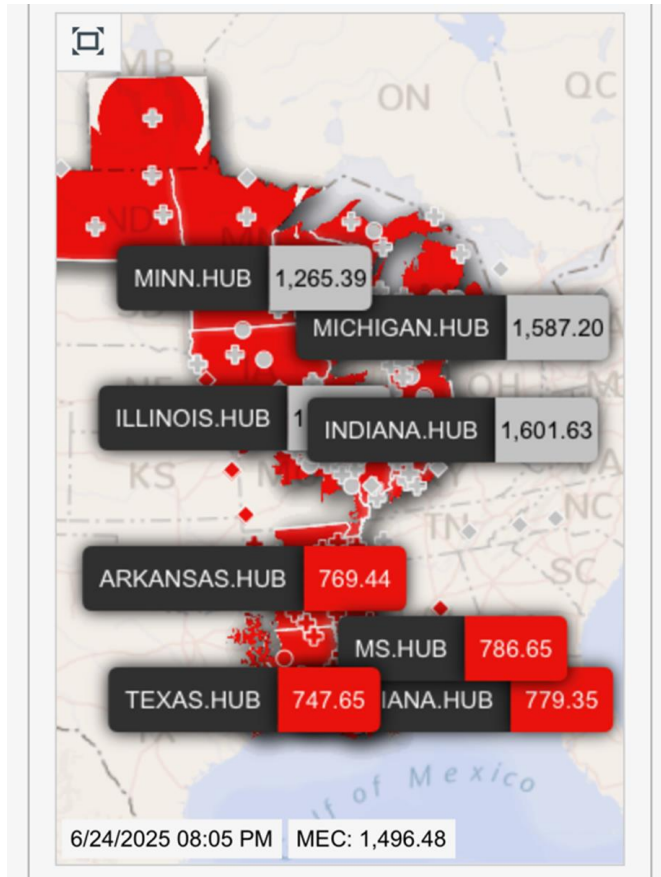
Operating Extremely High Reliability with Intermittent Resources?

- Power industry added significant 25-40% available wind and solar
- Retiring significant 80-95% reliable coal, natural gas and nuclear
- Data centers driving load growth 2+% not seen since early 2000's
- “Fat of the land” from last 20 years gone
- Reliable capacity shortages, capacity prices increase 10 times
 - PA, NJ, MD, DC & IL customers in deregulated states 20–30% price increase
- Adding more solar/wind does not solve the problem
- Limited ability to add new natural gas units fast enough to meet need

Heat Wave Across Midwest & Northeast Elevate Prices

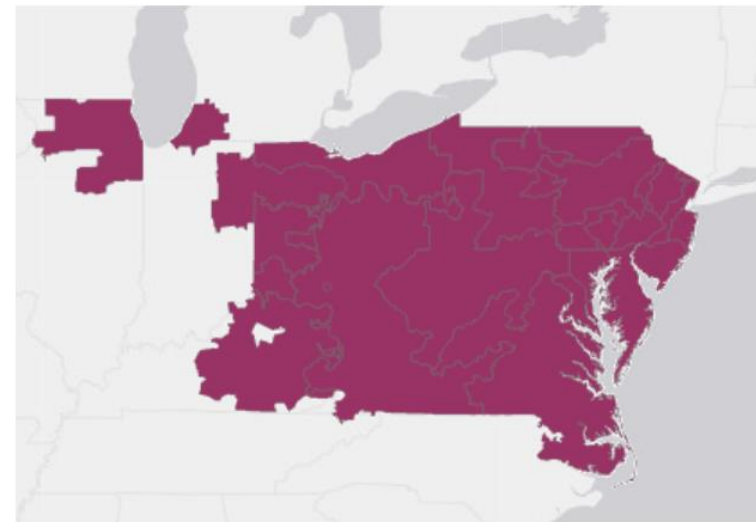
Fossil Fuel Plants Essential With Low Wind June 24

MISO



PJM

Locational Marginal Pricing
As of 8:38 p.m. EPT



Legend for Locational Marginal Pricing:

- <\$10
- \$10-20
- \$20-40
- \$40-70
- \$70-100
- \$100-200
- \$200-500
- >\$500

Zones | [Selected Hubs](#) | [Selected Interfaces](#)

AECO	\$1,577.40	EKPC	\$1,440.62
AEP	\$1,488.75	JCPL	\$1,555.66
APS	\$1,574.87	METED	\$1,525.32
ATSI	\$1,544.85	OVEC	\$1,431.39
BGE	\$1,616.06	PECO	\$1,536.21
COMED	\$1,491.59	PENELEC	\$1,529.27
DAY	\$1,527.69	PEPCO	\$1,642.41
DEOK	\$1,476.19	PJM-RTO	\$1,532.30
DOM	\$1,547.09	PPL	\$1,495.24
DPL	\$1,578.31	PSEG	\$1,552.13
DUQ	\$1,504.54	RECO	\$1,560.70

Locational Marginal Pricing

Summer Heat & No Wind Stress East - 7/28 @ 7 CPT

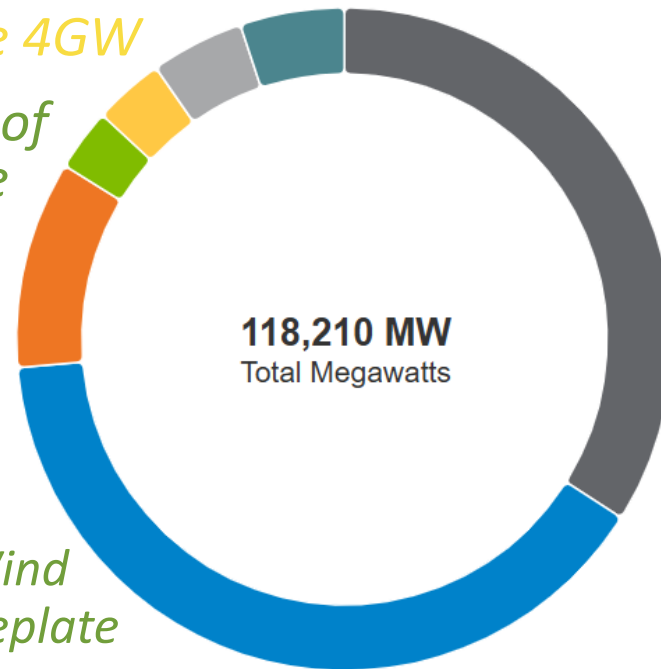
Calm Day and Sun Declining – MISO Prices to \$3,000/MWh

28-Jul-2025 - Interval 19:00 EST

*Solar 36% of
Nameplate 4GW*

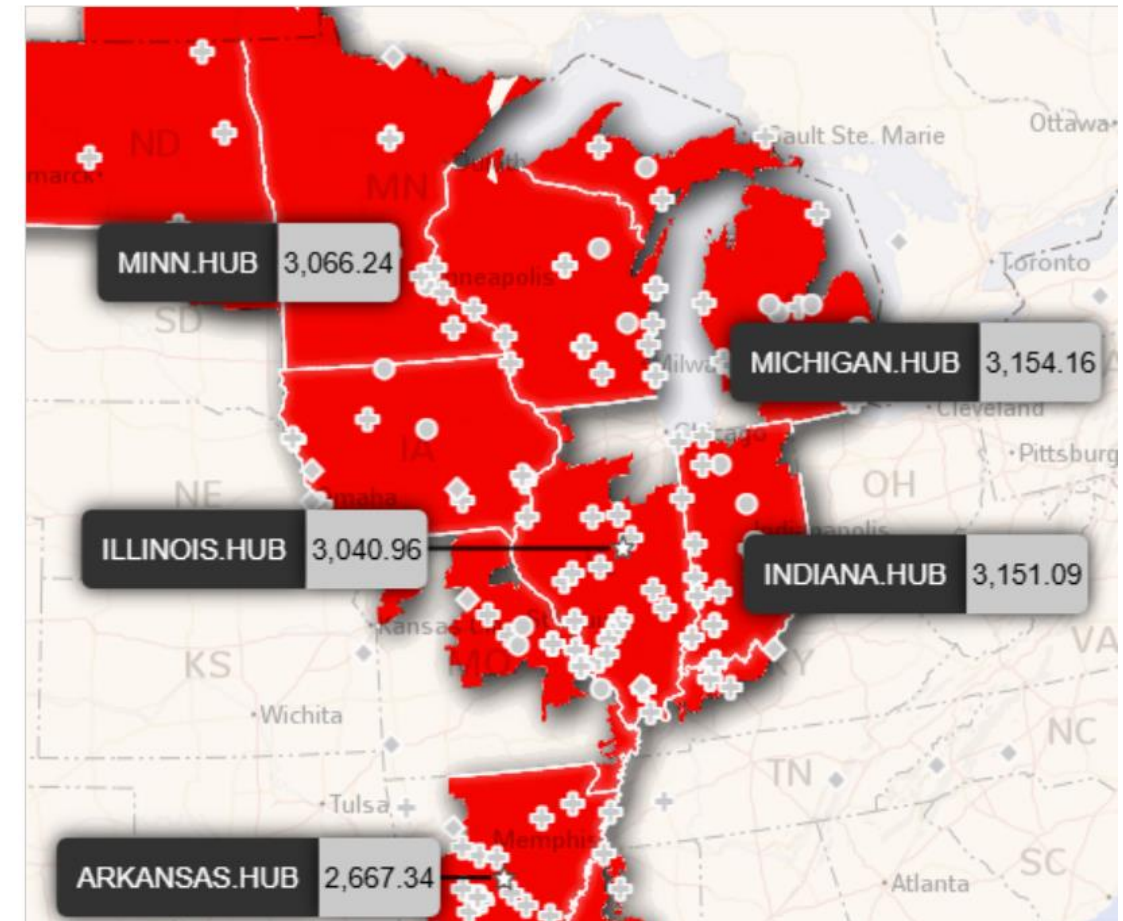
*Wind 12% of
Nameplate
3.6 GW*

*Next Day Wind
3% of Nameplate
1 GW*



- Coal 40,238 MW
- Nuclear 11,964 MW
- Solar 4,069 MW
- Imports 6,083 MW
- Natural Gas 46,804 MW
- Wind 3,607 MW
- Other 5,444 MW

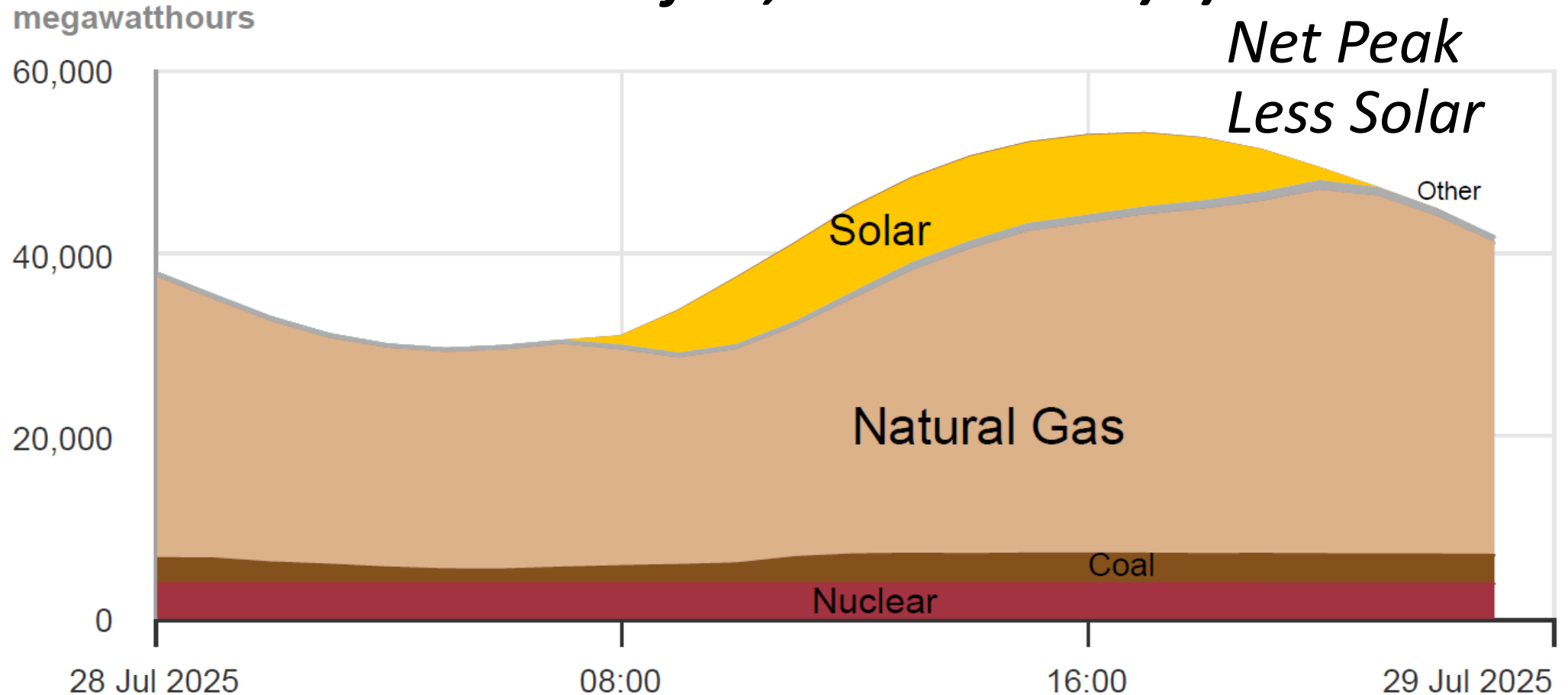
28-Jul-2025 - 19:00 EST



Florida Peak Summer Days, Solar Shifting Peaks

Net Peak Less Solar Now at Hour Ending 19-22 on 7-28

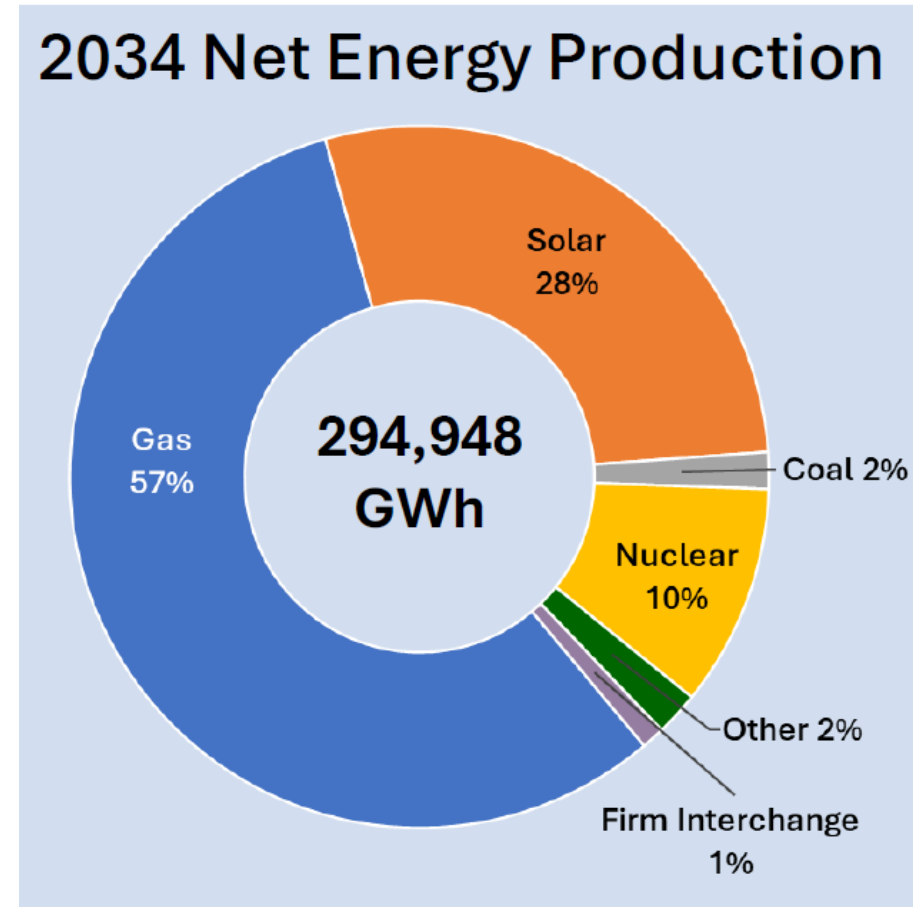
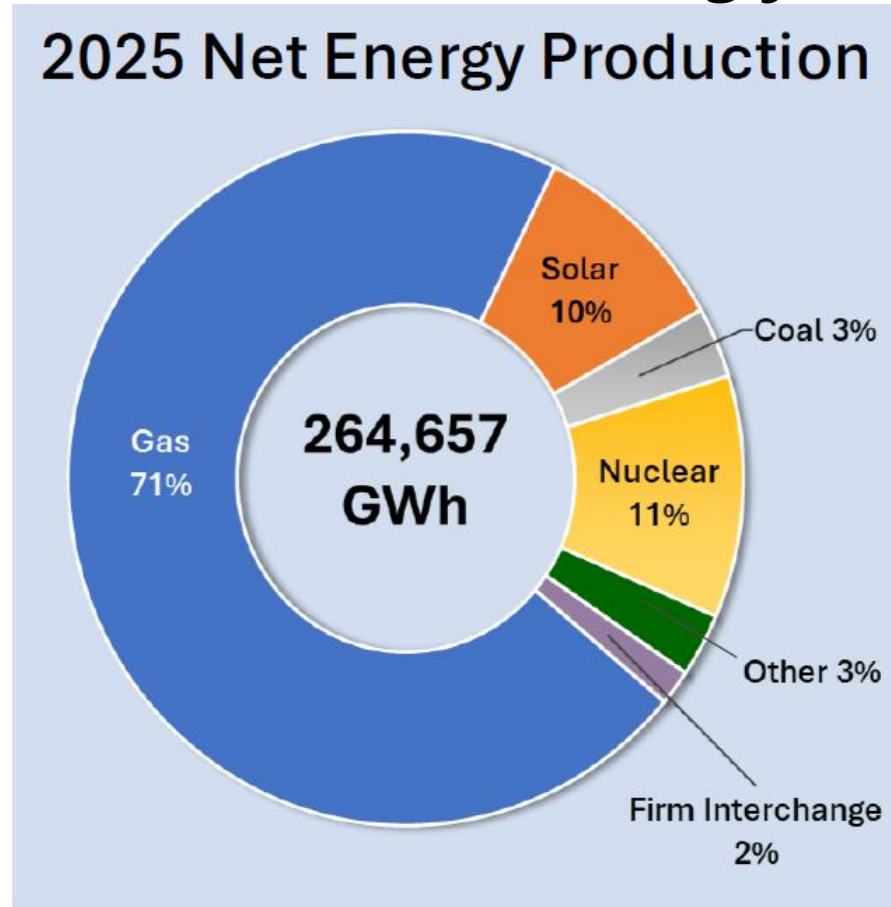
Florida All Time Peak Load of 53,053 MW on 8/8/23



Florida Ten Year Site Plan 2025 - 2034

Moving from 10% to 28% Solar Energy & Gas Generation Declining?

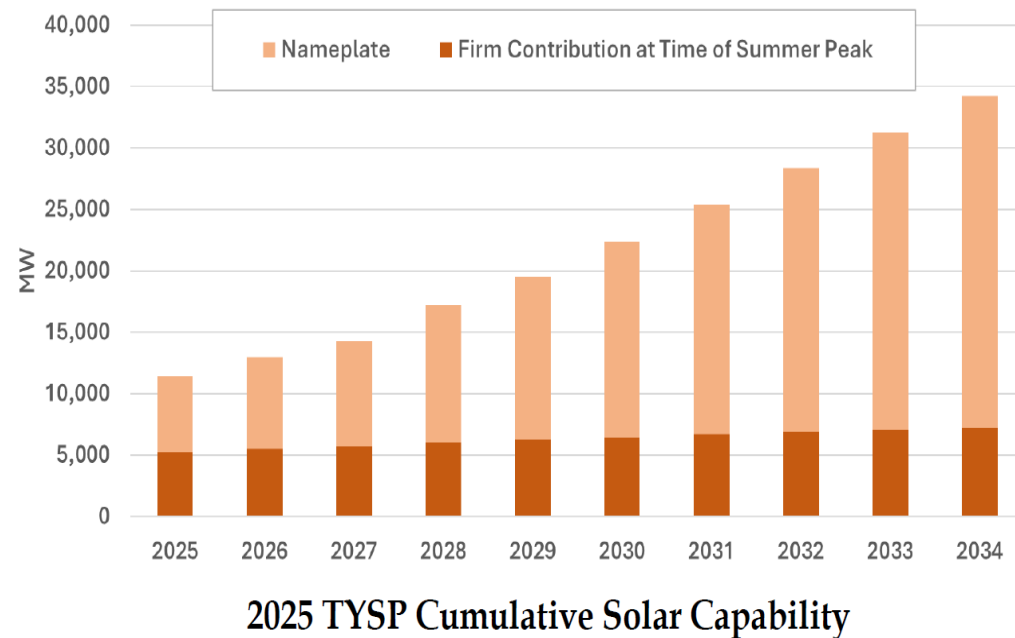
Florida Peak Growing from 54 GW to 60 GW



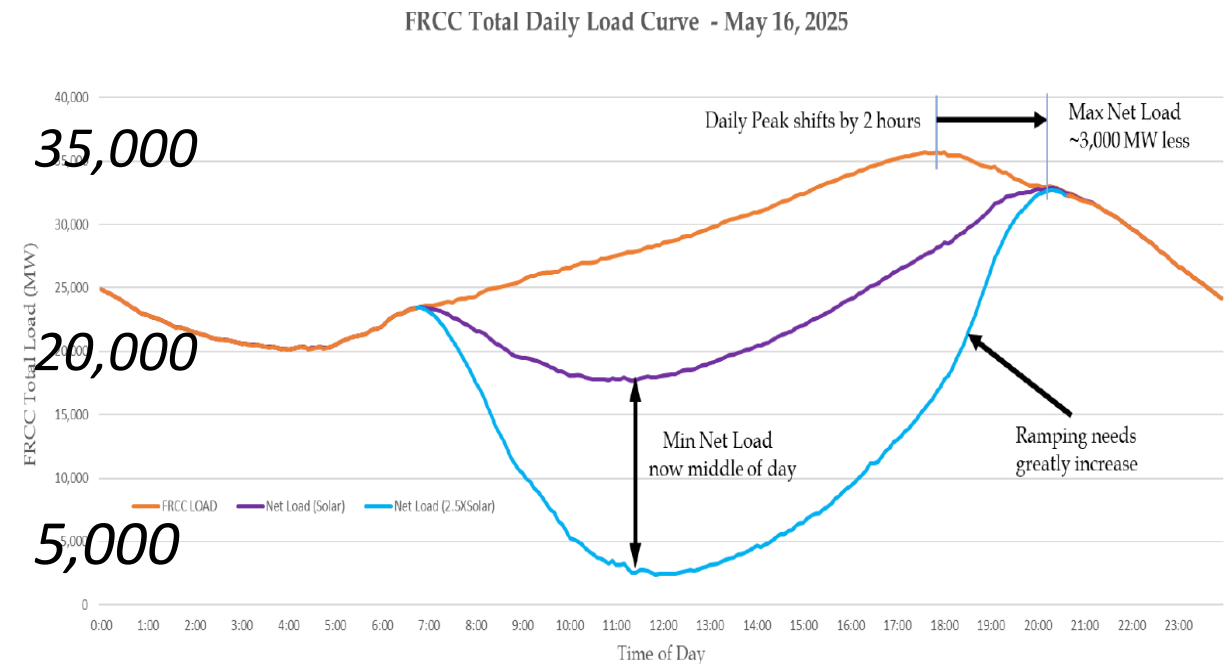
FL TYSP Solar Additional Build Little Reliability Value

Shoulder Seasons Challenging Generation Conditions

Solar Nameplate & Firm Cap.



FRCC May 2025 and May 2034



Generational Challenge for U.S. Power/Energy

Meet Data Center Significant Need, Keep Power Affordable

- U.S. power resource challenge like steel in WW2 and oil in 1970's
 - U.S. has AI technology advantage but not enough power
 - China has power but trails in AI
 - Who is going to win?
- Data centers pay \$100–120+/MWh for power – need now, resource?
 - FMPA Members paid \$77/MWh in FY25
- YOY growth in power demand in Northern VA 10% - data centers
- How does U.S. free up reliable power supply?
- How do we keep power prices for families affordable?

Abundant, Affordable & Reliable Power + Powering AI

Like WW2 Effort for Steel – National Importance

- **Pausing retirement of reliable coal and natural gas** until DOE/Region verifies no reliability harm – good for reliability and prevents sudden shift to more natural gas
- **Existing Natural Gas Unit Expansion** – expedite transmission studies for expansion of natural gas units for immediate capacity – lowest cost capacity increases
- **Provide pipeline permitting reform** to increase the supply and deliverability of natural gas to the markets – abundant, affordable and reliable natural gas
- **Battery Storage** – where appropriate, add battery storage to reliably store excess natural gas generation for peaking needs
- **Next Generation Nuclear** – streamline next generation nuclear permitting process for more reliable and diverse generation
- **Repeal Clean Power Plan 2** – enable new natural gas combined cycles operating over 40% utilization & allow existing solid fuel continued operations

FMPA Gas Generation Purchases - Add Low-Cost & Reliable Energy

Acquisitions Costs Well Below Today's Market Prices

- Sand Lake and Mulberry acquisitions completed in 2024, Bartow in 2026
- Data Centers/AI demand growth driving capacity values up 10X+ 2022 prices
- Acquisition cost \$125/kW vs market \$1,200/kW and new \$2,500-\$3,000/kW



FMIPA Efforts to Keep Cost Low - \$62M Savings in FY 26

\$22

Third-party sales

**High generation
availability**

\$10

\$14

**Pre-paid gas &
optimization**

**End High-Cost Coal
Use**

\$14

\$2

**Expand Existing Fleet
Capacity**

FMPA Members Provide Low-Cost Reliable Power

