

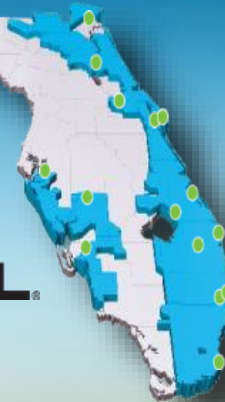
Florida Power & Light Company: Advancing Solar in Florida

Venice Environmental Advisory Board
June 26, 2019

NEXtera[®] ENERGY



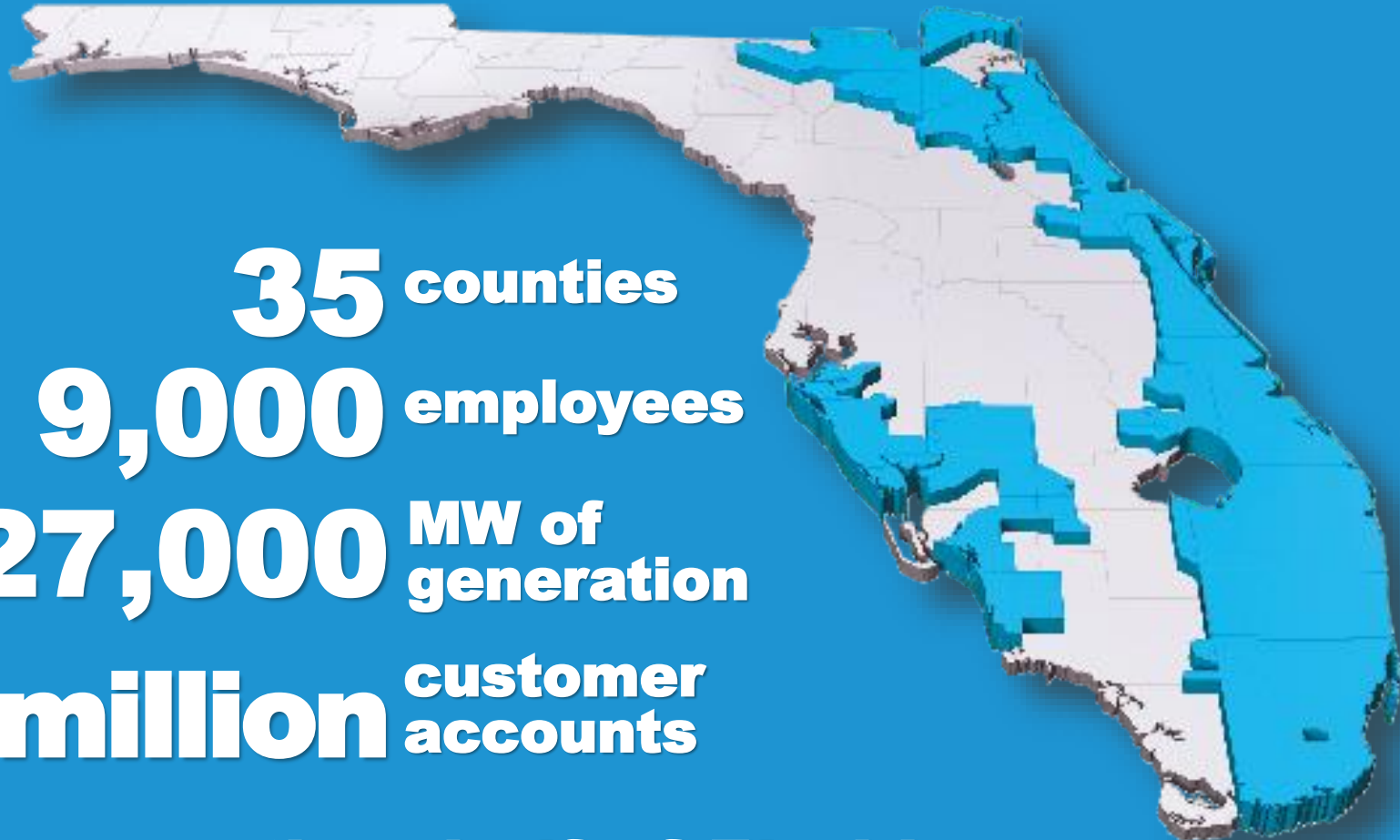
FPL[®]



- Largest of 54 electric utilities in Florida
- Serving nearly 5 million customer accounts or roughly 10 million people
- Territory covers 35 counties and 27,000 sq. miles
- Consistently among the cleanest, most reliable, lowest-cost utilities in America
- Largest utility in the U.S. by electric sales

ABOUT NEXTERA ENERGY, INC.

- World's #1 producer of renewable energy from the wind and sun
- Operating in 33 U.S. states & Canada, but Florida is our home
- One of Fortune's "World's Most Admired Companies" – ranked No. 1 in our industry for 11 of the last 12 years



35 counties

9,000 employees

27,000 MW of generation

5 million customer accounts

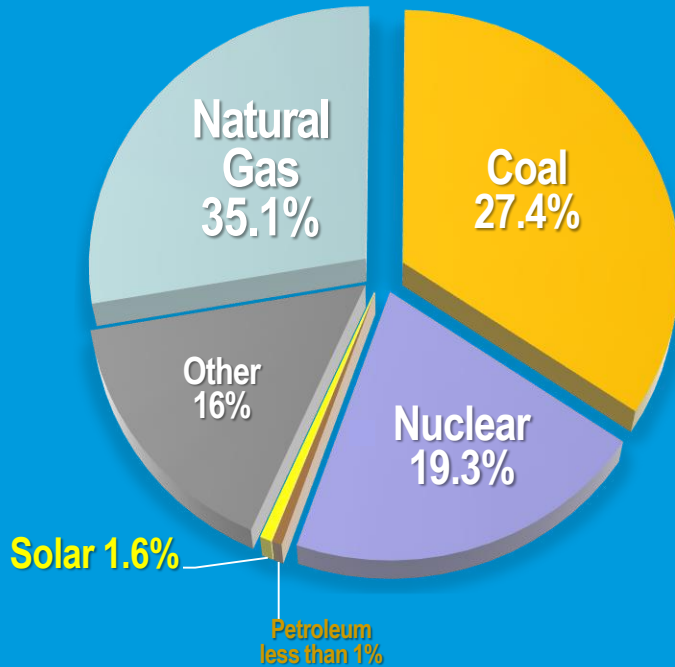
Serve more than half of Florida

Largest utility in the U.S. by electricity sold

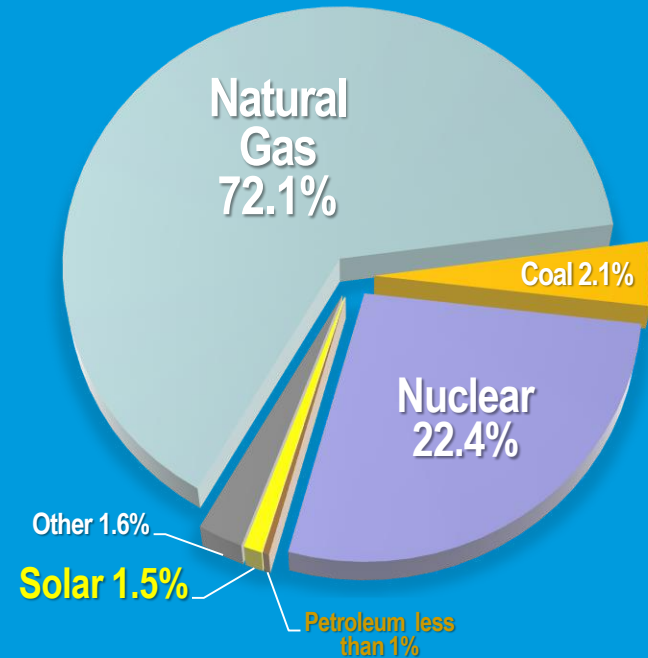


Energy to power a 24-7 economy

U.S.



FPL



- **CLEANER MIX:** FPL relies more on clean natural gas and zero-emissions nuclear than U.S. as a whole – while consuming a fraction of the coal
- **SOLAR SOARING:** FPL is investing billions of dollars to continue growing solar in Florida. By end of 2019, solar is expected to be FPL's third biggest fuel, outpacing both coal and oil combined

Phasing out more costly coal power plants



Cedar Bay coal plant
Demolition underway



St. Johns River Power Park
(FPL/JEA joint ownership)
Officially retired in early January
2018



Indiantown Cogeneration plant
Expected shut down by end of 2019

- **Closing down three coal-fired power plants by end of 2019**
 - Cedar Bay and SJRPP already shut down and demolition complete
 - Indiantown plant has significantly reduced operations and is expected to close in the next two years
- **Closures will prevent 6.7 million tons of CO₂ emissions annually and save FPL customers \$300+ million**

Delivering value for customers

- ☀️ **FPL offers an unparalleled combination of value – clean, reliable and affordable all at the same time**
- ☀️ **How is this possible? Because we're continuously investing in a long-term affordable clean energy strategy**

Low-Cost

Nearly 30% lower typical rates vs. U.S. average

Reliable

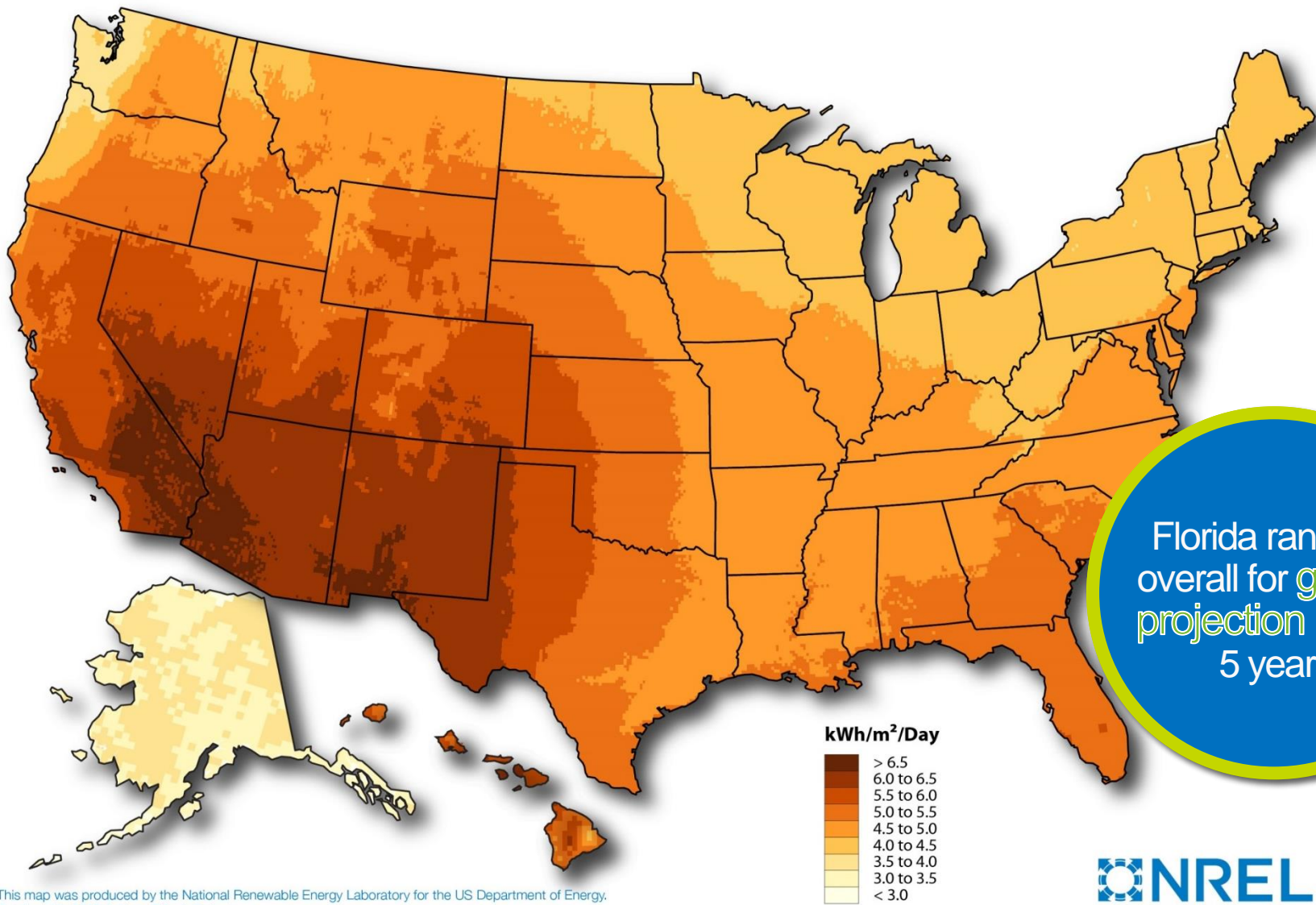
**99.98+%
service
reliability**

Clean

30% cleaner CO₂ emissions rate vs. U.S. average



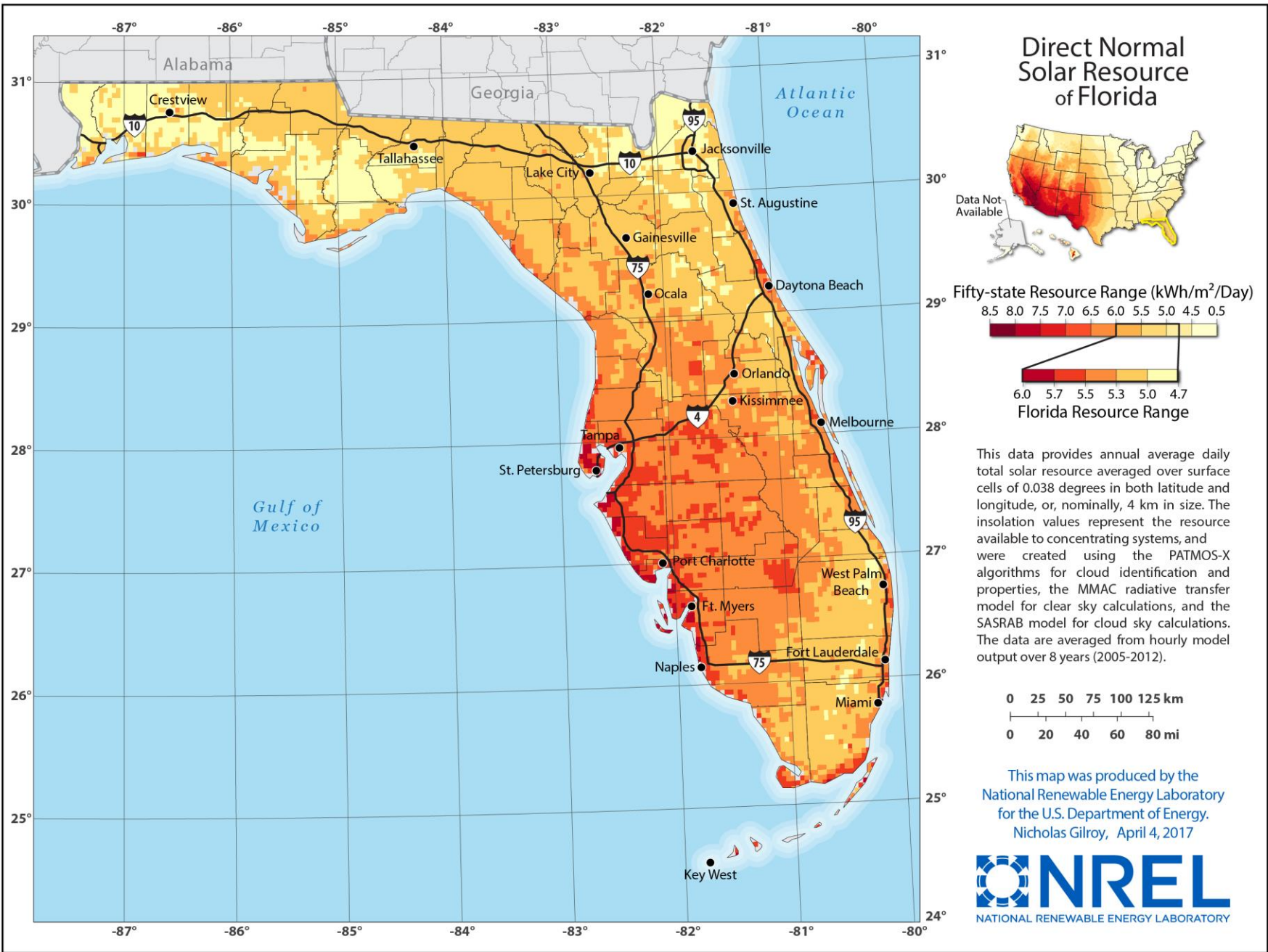
Florida ranks 9th in the country for solar resource



Florida ranks 3rd overall for growth projection in next 5 years

This map was produced by the National Renewable Energy Laboratory for the US Department of Energy. October 13, 2009 Author: Billy J. Roberts





Leading solar energy development for decades

- **First solar installation commissioned in 1984**
- **First to bring universal solar to Florida**
 - Built what was the largest solar PV plant in America in 2009
- **First solar-natural gas hybrid plant in the world**
- **First to build universal solar cost-effectively in Florida**



Florida is in the midst of one of the largest solar expansions in the country



Sunshine State now ranks **6th in the country** for universal solar capacity and is expected to grow

- FPL plans to install **~1,200 MW of solar by 2020** under SoBRA program
- FPL SolarTogether program to add another **~1500 MW by mid-2021**

FPL's "30-by-30" plan will position Florida as a global leader in solar

By 2030:

30+ million solar panels

100+ new solar power plants

~10 GWs more of solar

67% cleaner than 2005



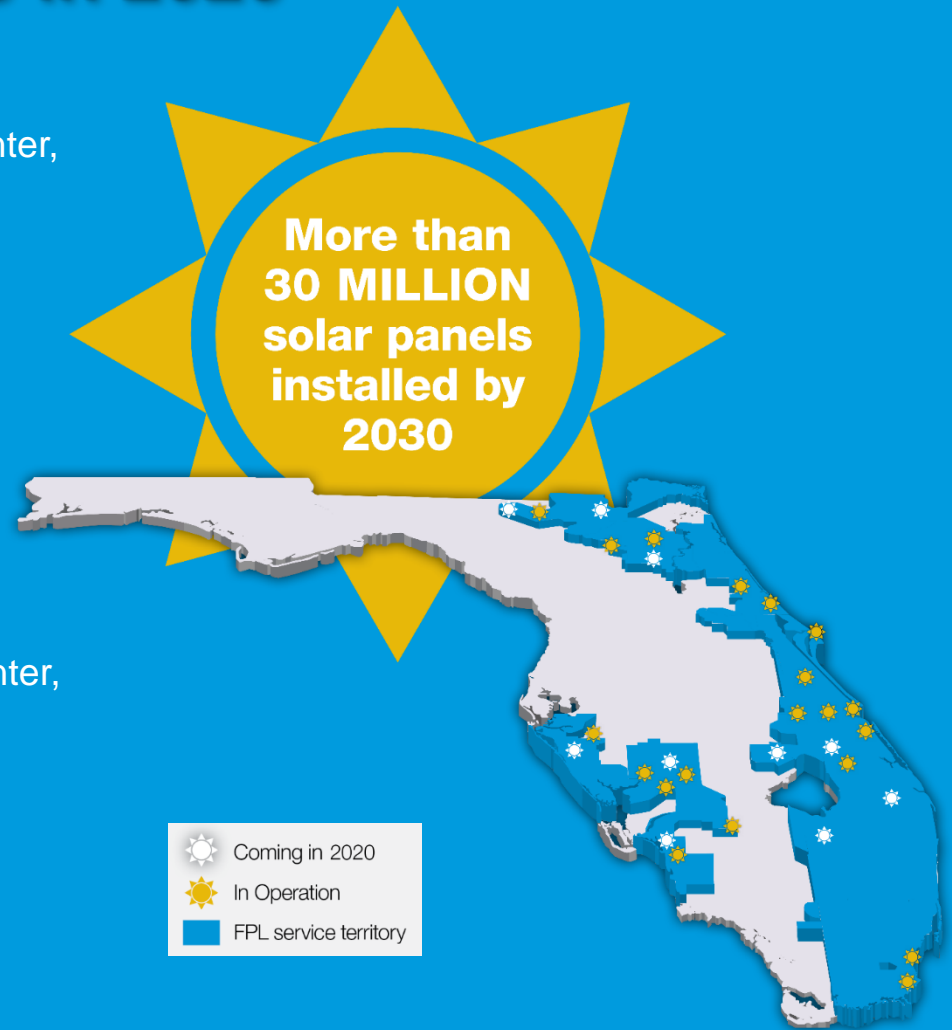
Enough solar panels to
circle Earth almost twice



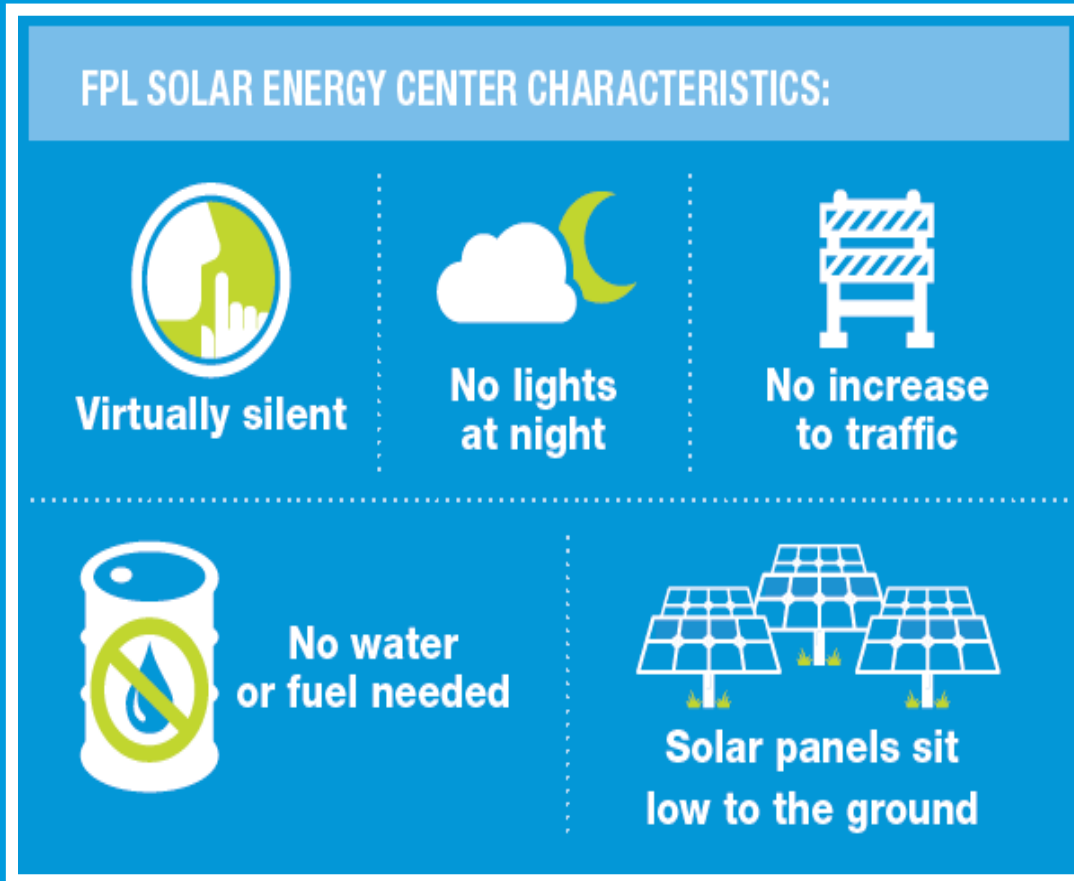
FPL operates 18 major solar power plants with **ten more** coming online in 2020

- New sites now under construction:

- FPL Babcock Preserve Solar Energy Center, Charlotte County
- FPL Blue Heron Solar Energy Center, Hendry County
- FPL Cattle Ranch Solar Energy Center, DeSoto County
- FPL Echo River Solar Energy Center, Suwannee County
- FPL Hibiscus Solar Energy Center, Palm Beach County
- FPL Northern Preserve Solar Energy Center, Baker County
- FPL Okeechobee Solar Energy Center, Okeechobee County
- FPL Southfork Solar Energy Center, Manatee County
- FPL Sweetbay Solar Energy Center, Martin County
- FPL Twin Lakes Solar Energy Center, Putnam County



Solar energy centers make great neighbors



Zero-emissions generation:

- Powers ~15,000 homes
- Equivalent to removing ~12,000 cars from the road each year
- Creates ~200-250 jobs during construction, indirectly supports local businesses

...and that's a lot of sheep!



Protecting Florida's water resources

☀ We're working to minimize wetland habitat loss and protect Florida's water resources

- Solar Field Design

- Avoids and minimizes wetland impacts
- Integrates existing natural wetlands as part of the stormwater system



- Water Use

- Zero water use for generation
- Zero water use for maintenance
- In 2018 FPL had 1,200 MW of solar capability which generated over 1.8 Million MWhs offsetting approximately 541 MG of water consumption which would have been utilized in traditional fossil generation



Advancing solar energy responsibly

☀️ FPL works with local groups to incorporate environmental stewardship enhancements into site layouts

- **Solar Sanctuary Program:**

- Partnership with Audubon Florida in conjunction with other local ENGOs
- Site enhancements that will help protect and promote Florida's diverse ecosystem including:
 - Bird and other species habitat
 - Preserving wetlands and surface waters

- **Panther Friendly design:**

- Fencing option that enables prey to pass through and allows panthers to pass over



Leading the charge in battery storage technology

- Launched our **first battery storage** pilot projects in 2016
 - Total of 3.8+ MW primarily in Miami-Dade County
- **Additional 50 MW of battery storage approved in our 2016 base rate settlement agreement**
 - First 14 MW of battery storage in operation
 - 4 MW at FPL Citrus Solar Energy Center in DeSoto County
 - 10 MW at FPL Babcock Ranch Solar Energy Center in Charlotte County



Battery Storage at Citrus Solar Energy Center



Battery Storage at Babcock Ranch Solar Energy Center

FPL is building the world's largest solar-powered battery

409-MW FPL Manatee Energy Storage Center

4x

the capacity of
today's
largest battery

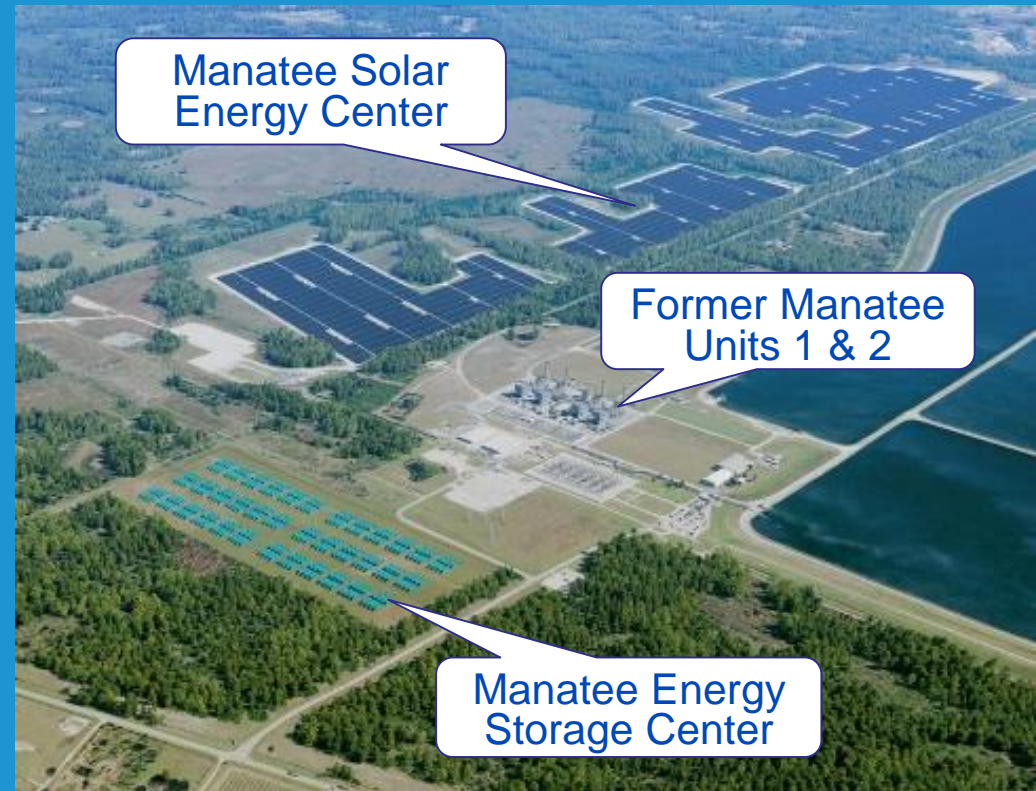
Metric	Equivalent to
FPL Manatee Energy Storage Center will cover a 40-acre parcel of land	25 square city blocks
	30 football fields
	130 Olympic-size swimming pools
FPL Manatee Energy Storage Center will be able to distribute 900 MWh of electricity	Powering 329,000 homes for 2 hours
	100 million iPhone batteries
	300 million AA batteries

The next generation of modernization

FPL Manatee Energy Storage Center (2021)

Innovative Plan

- Accelerates retirement of fossil fuel units
- Saves customers more than \$100 million
- Eliminates 1 million in carbon dioxide emissions
- Extends benefits of solar power even when the sun isn't shining







FPL®

Thank you!