

## INTEGRATED SOLUTIONS TACKLE THE NATION'S TOUGHEST CONDITIONS FOR FLORIDA POWER & LIGHT COMPANY

FPL's unique service area presents challenges.



counties covered — including —

miles of coastline



environment

Fastest vegetation arowth



2<sup>nd</sup> in world for rate of liahtnina



**FPL** developed and implemented a comprehensive plan to improve reliability.



Redefined system performance to include storms and other major events



Installed 4,000 IntelliRupter® PulseCloser® Fault Interrupters that gently test for faults and segment feeders to small outage areas



Added 80,000 TripSaver® II Cutout-Mounted Reclosers that test for faults on neighborhood lines, preventing outages and unnecessary truck rolls



Accelerated grid reconfiguration with localized decision-making from IntelliTeam® SG Automatic Restoration System software



Dedicated a response team with S&C to assess and repair damaged equipment after storms



Hardened their grid, including undergrounding lines

"It's not simply one solution but several solutions that come together to make significant change. Extraordinary results come from a larger, multiple-item strategy."

- Ron Critelli, Senior Director of Power Delivery Engineering & Technical Services, FPL



Reduced overall SAIDI by 15 minutes



Hardened feeders performed 46% better on blue-sky days



recovery brought \$8 billion in GDP back into Florida's



**71% drop** in momentary outages and 93% drop in complaints in 11-year period



S&C IntelliRupter fault interrupters saved 4.2 million interruptions within first 6 years



reclosers saved within first 4 years



Successes led to collaborating with S&C 8.500 interruptions to invent VacuFuse™ Self-Resetting Interruptor



Customer power 30% below the national average

Hurricane Restoration Improvements	Saffir-Simpson Scale	Maximum sustained wind	# of customers affected	% of customers affected	50% of customers restored	95% of customers restored	100% of customers restored
Hurricane Wilma (2005)	Category 3	120 mph	2.1 million	75%	5 days	15 days	18 days
Hurricane Irma (2017)	Category 4	130 mph	4.4 million	90%	1 day	7 days	10 days