

# Resilience Planning in Tampa Bay, Florida

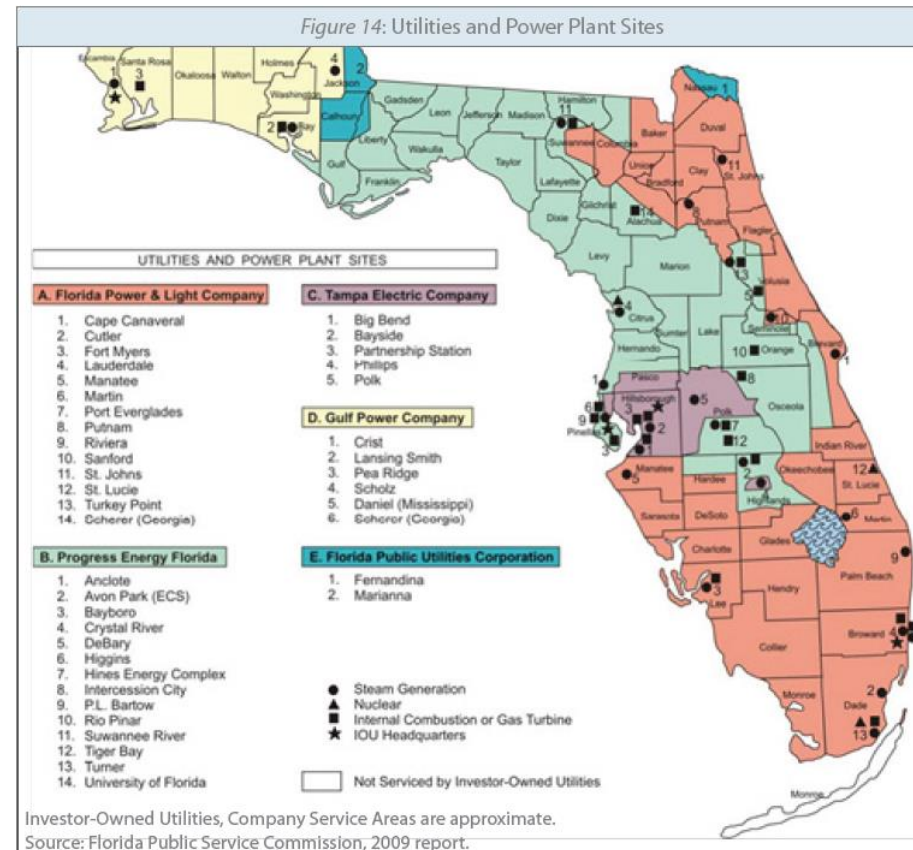
NADO 19<sup>th</sup>-20<sup>th</sup> Washington ,DC



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# Vulnerabilities

- Tampa Bay estuary—productive but vulnerable to runoff and urban uses
- Sea level rise. Since 1946, sea level has increased by more than 6 inches
- Hurricanes and evacuation routes
- Major storm events knock disrupt energy transmission, can shut down plants
- -Heavy reliance on natural gas



# re·sil·ience

\rə'zilyəns\

The capacity of our social, economic, built and natural systems to prepare, respond and recover from change.



# Success Story

- Orange County Convention Center
  - Largest rooftop solar installation in the Southeast
  - 200,000 SF,
  - 6,000 solar panels
  - Energy production is live monitored
  - Generated 1.5MkWh electricity (=150 homes)
  - Avoided 3.4 million pounds of carbon emissions
  - ROI of 6.3 million with a 14 year payback

# The Federal Role

- Need for \$\$\$\$ to leverage best practices
- A Network of Communities with Interests in Common
- Leadership

# Looking Forward to the Future

- Energy efficiency educations
- Build databases of retrofit opportunities
- Conduct a State Energy Infrastructure Assessment
- Facilitate a home energy program
- Invest in Smart Grid technology with real time power management and pricing (DOE grant to Talquin plant)