





"You can't possibly know where you are going, if you don't know where you are, and where you have been"



Florida Electrical History

Buildings

- ✓ 1883: St. James Hotel in Jacksonville
- ✓ 1886: Royal Palm Hotel in Miami
- ✓ 1887: Hotel Ponce de Leon in St. Augustine
- ✓ 1887: Edison's Winter Estates in Fort Myers
- ✓ 1891: Tampa Bay Hotel in Tampa
- ✓ 1897: Belleview Inn in Clearwater

Streetcars/Trolleys

- ✓ 1893: Tampa Street Railway and Power Co.
- ✓ 1893: Jacksonville Street Railway



















Energy & Electrification











Societal Demands Drive Energy Trends





Case Study Analysis

Hurricane Irma (2017)

- 6.7 million power outages
- \$77.2 billion in damage
- 134 fatalities*



 14 nursing home patients died as result of the power outage and lack of air conditioning

*A 2020 report titled "Association Between Exposure to Hurricane Irma and Mortality and Hospitalization in Florida Nursing Home Residents" concluded that **700** additional nursing home fatalities may have been directly related to the impacts of Hurricane Irma



Automatic Fire Alarm Association

Case Study Analysis

The power outages that followed Hurricane Irma affected 28,000 residents of Florida's nursing homes and led to a 25% increase in deaths a week after the storm made landfall.



REAKING NEWS HOLLYWOOD

Positive Outcomes

- Governor signs executive order requiring all 696 nursing homes and 3,131 assisted living facilities to be retrofitted with onsite emergency power source
- Agency for Healthcare Administration (AHCA), in cooperation with Department of Elderly Affairs, develop and implement emergency rules to comply with Governor's executive order
- 7th Edition (2020) Florida Building Code incorporates "Emergency Power Plan" rules for all new construction

Missed Opportunities

- Required emergency power systems are treated as an "optional standby system" in lieu of a "legally required standby system" or "emergency system" as defined in NEC
- Florida Building Commission rejected a proposal to add lightning and surge protection requirements to assisted living facilities similar to what is required for nursing homes
- Nursing homes and assisted living facilities are still permitted to be built and located in a FEMA special flood hazard area

































