Miami

Create a greener and more efficient city

KEYS TO SUCCESS

Reduce energy consumption

Smart energy projects such as LED street lighting can lower your city's energy consumption to meet environmental regulations and initiatives. Automated dimming and reduced runtime through network control drive additional energy savings. Residential and commercial demand response improve the stability and reliability of the energy distribution grid.

Ensure regulatory compliance

Use smart city projects to increase energy efficiencies and meet requirements for reduced CO_2 emissions and other regulatory mandates.

Lower maintenance needs

By automating management and delivering more precise outage information, networked street lighting can increase operational savings by reducing the need for mobile crews.

Florida Power & Light is deploying North America's largest networked street lighting program to connect and control more than 500,000 streetlights. The approach:

Case Study

- IPv6-based multi-application network – leveraging the same network for multiple applications, including advanced metering, distribution automation and smart streetlights
- Itron's Streetlight.Vision software – controlling and managing streetlights with adaptive lighting approaches that adjust light levels based on motion or presence levels
- Efficient operations – reducing call center load, enabling faster outage response and restoration, better asset management and network performance

CUSTOMER

Florida Power & Light (FPL)

SERVICE TERRITORY

Florida, USA

GOALS

- Modernize and network FPL's power delivery system
- Accelerate event response and service restoration
- Reduce streetlight operations and maintenance cost

SOLUTION

- 5.0 million smart meters
- 500k smart streetlights with SELC control nodes
- 19k remote fault indicators
- 1,300+ capacitor banks
- 2,000+ automated feeder switches 750+ line/transformer monitors

BENEFITS

- 5.1M customer interruption minutes avoided per year[1]
- $46M estimated annual opex savings[1]
- 25% improvement in service reliability since 2010[2]
- 10k customer outages avoided by detecting transformer issues in advance[1]
- 100k avoided field visit
- Accelerated service restoration for streetlights

[1] 1 U.S. DOE Report – Smart Grid Investments Improve Grid Reliability, Resilience, and Storm Response; Innovations from Across the Grid, Edison Foundation, Dec. 2014

[2] Metering & Smart Energy International: http://www.metering.com/news/fpl-smart-grid-switches-outages/?utm_source=Spintelligent+Publishing+mailer&utm_medium=email&utm_campaign=MSEI+Daily:+21+July&utm_term=http://www.metering.com/news/fpl-smart-grid-switches-outages/

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