

# Canoochee EMC Smart Lighting

Southeast Georgia | *Deployed on 4G LTE*

## SCENARIO

Canoochee EMC monitors nearly 12,000 light points for Fort Stewart and Hunter Army Airfield. The electric cooperative realized it needed a smart lighting solution.

Maintenance costs have increased significantly, and regular reporting of energy uptime and outage response has become a very manual and labor-intensive process. Legacy infrastructure lacked the flexibility and real-time alerts necessary to address the military installations' lighting issues. Finally, as the remote nature of the service territory precluded network buildouts, Canoochee EMC needed to find other ways to achieve cost-effective service.

## SOLUTION

Canoochee EMC partnered with Ubicquia on a modern, real-time lighting control solution leveraging existing LTE networks. The electric utility replaced its legacy lighting solution with Ubicquia Ubicells, nodes that plug into the NEMA sockets of existing lighting fixtures for immediate commissioning once powered up.

The Ubicquia solution give the bases control and metrics for the lighting network and Canoochee EMC revenue-grade metrology for the lights to measure energy consumption. The LTE networks provide sufficient cellular coverage for real-time reporting and control of the lighting platform.

## RESULTS

With several thousand nodes now installed, Canoochee EMC reports increases in both system uptime and annual energy savings. Notably, the electric utility has reduced its response time to outages on the military bases by 75%.

### THE POWER AND POTENTIAL OF SMART LIGHTING

- + **Multiple platforms:** LED lightning retrofit, advanced lighting controls, utility-grade energy metering, tilt and vibration sensors, third-party sensor integration
- + **Wide-ranging benefits:** Reduced energy use, reduced emissions, improved public safety

(AT&T)