

Multi-Tenant Deployment Griffiss Utility Services Rome, New York



"...67 meter nodes installed in only four days, plus multiple hopping removed all distance and RF obstacles." Joe Rosenberger, Sophnet

Eka's solution identified distribution losses and improperly wired meters. In addition, the system correctly billed customers that were previously under-billed for their energy consumption. Solving these problems guaranteed a ROI of less than 10 months for GUS.

Griffiss Utility Services uses EkaNet™ Wireless AMR Solution to bill commercial and industrial tenants on a time-of-use basis

Griffiss Utility Services ("GUS") provides electricity and steam to tenants of the Griffiss Industrial and Technology Park. With over 230 meters, ease of installation and minimal network oversight were critical issues to GUS. The ability to integrate distribution transformer meters to reduce GUS' "lost & unaccounted for" energy was also important. Eka's solution met all the key criteria:

- **Time-of-Use Billing** - 15-minute interval data
- **Power Quality Information** - Voltage, current, power factor, and reactive power
- **Customer Profiling** - Customer access to usage information
- **Integrated Framework** - Complete system for both metering and SCADA
- **Distribution System Monitoring** - Load information from distribution transformers
- **Electric and steam meters** – Integrate various utilities into a single system
- **Easy to install and manage** – Limited training required to install and operate

For additional information, contact our marketing department at: info@ekasystems.com

GUS, via its subcontractor Sophnet, installed and deployed EkaNet Self-Organizing Wireless AMR and Energy Management Solution consisting of the following:

- **EkaNet Under Glass Wireless Meter Node (EMS-MM)** - for GE kV meters that communicate bidirectionally with other nodes as well as with the gateway. After routine installation, meters self-organize via mesh network and begin to relay information through the gateway to the back-office.
- **EkaNet Wireless Gateway (EMS-H200)** - collects and aggregates data from the wireless meter nodal mesh network and sends it to the back-end EkaNet EnergyInsight application software. The gateway has the capability to establish a connection via Ethernet; cellular modem, or wireline modem.
- **EkaNet Wireless Pulse/Relay Nodes (EMS-PM)** - an external wireless pulse meter module works with all pulse output meters including electric, steam, water and gas. EMS-PM mounts outside of the meter enclosure and enables EkaNet to connect to any meter with a pulse output. Eka's wireless split-core CT meter permits easy sub-metering.
- **EkaNet Network Manager (EMS-NM)** - facilitates management of the wireless meter nodes and gateway through a user-friendly graphical interface. It provides a view of the network and access to the SQL database.
- **EkaNet EnergyInsight™ (EMS-EI)** - when combined with other EkaNet enabled meter nodes, offers a total energy management solution for commercial and industrial users. Facilities managers can view their energy usage profile, demand profile, and power quality information throughout their facilities and across multiple facilities.

EkaNet Wireless AMR Solution Architecture

