City of Fulton

Fulton, Missouri

Improving Utility Service Through AMI Technology

Advanced Metering Infrastructure

Coverage Area

Area 11.4 Sq Miles

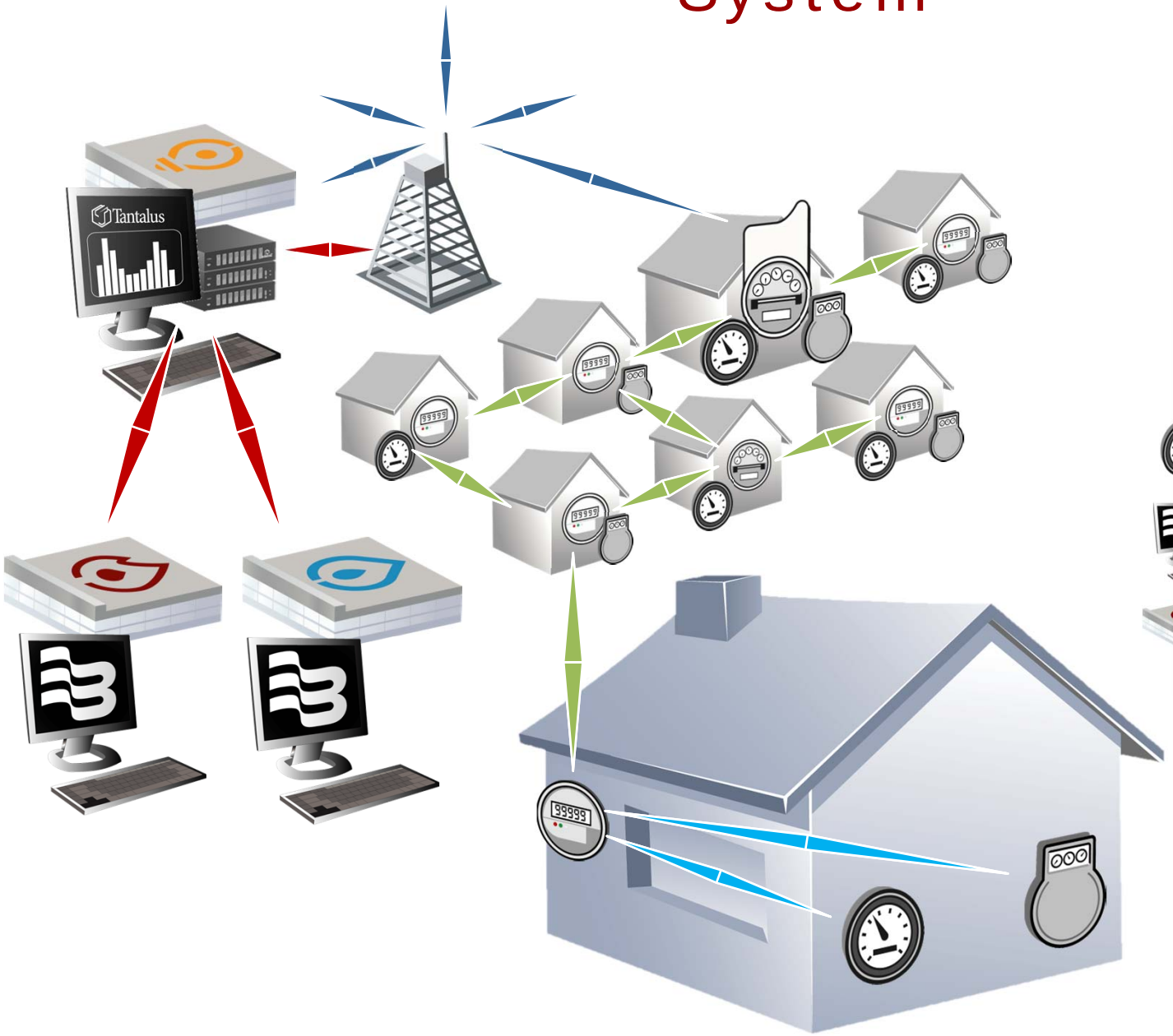
CITY OF FULTON DEMOGRAPHICS

Total Population	*12,790*
Median Age	*31.3 Yrs*
Median Household Income	$32,635

Project Basics:

- 5,700 AMI Electric Meters (Residential meters equipped with Remote Disconnects)
- 4000 AMR Natural Gas Meters
- 4500 AMR Water Meters
- 100 Programmable Thermostats

AMI & AMR Radio Communication System



- E / W / G
- TUNet serves as backbone network for all E/W/G meter data
- Badger ORION water & gas meters communicate with TUNet electric meters
- Badger ORION water & gas meters transmit via 900 MHz
- TUNet interfaces with Badger CONNECT / READCENTER software
- Operates within multi-commodity utilities or with separate utilities

What are we doing with the Data:

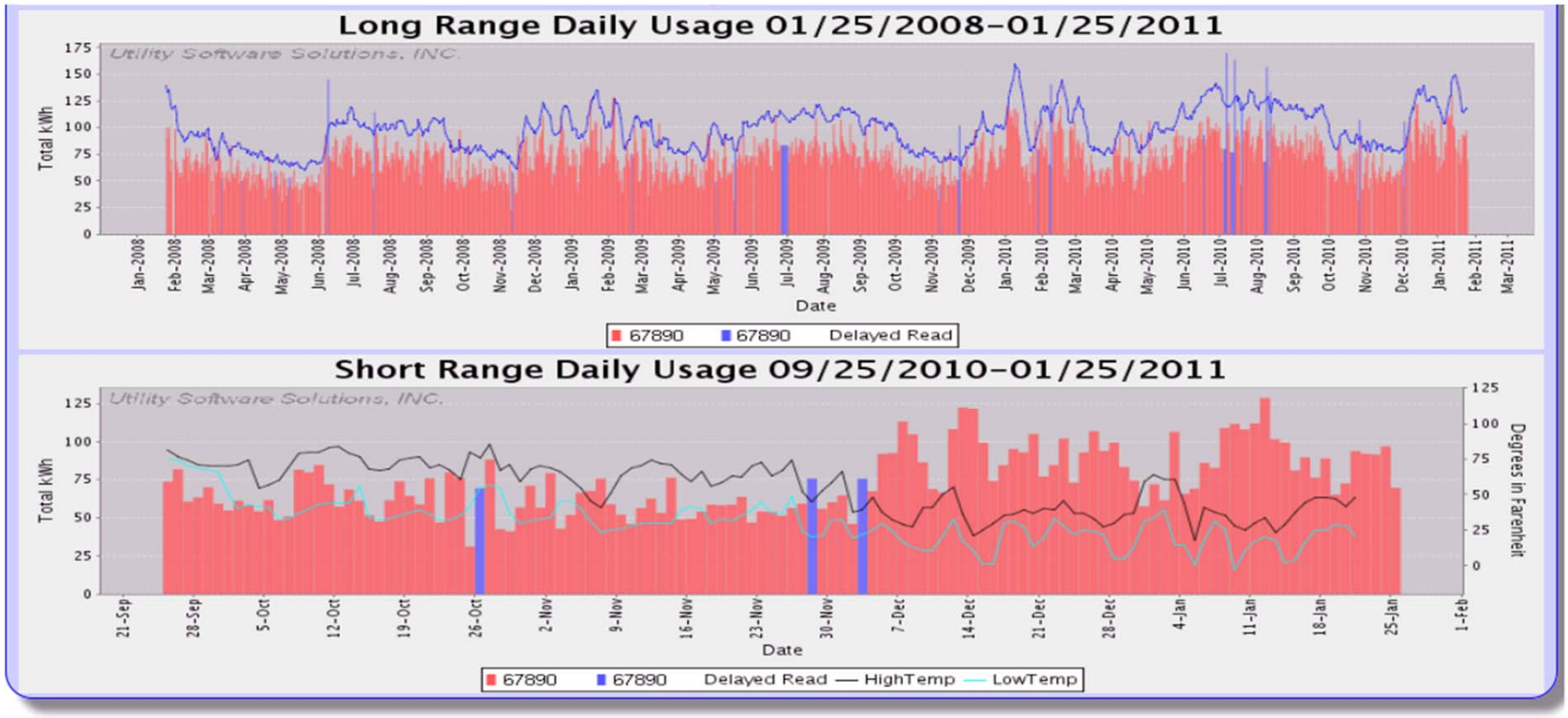
- Validating and Storing
- Customer Web portal
- Time of Use Pricing Program
- Load Management via Programmable Thermostats
- Voltage Monitoring
- Outage Management

How are we doing it?

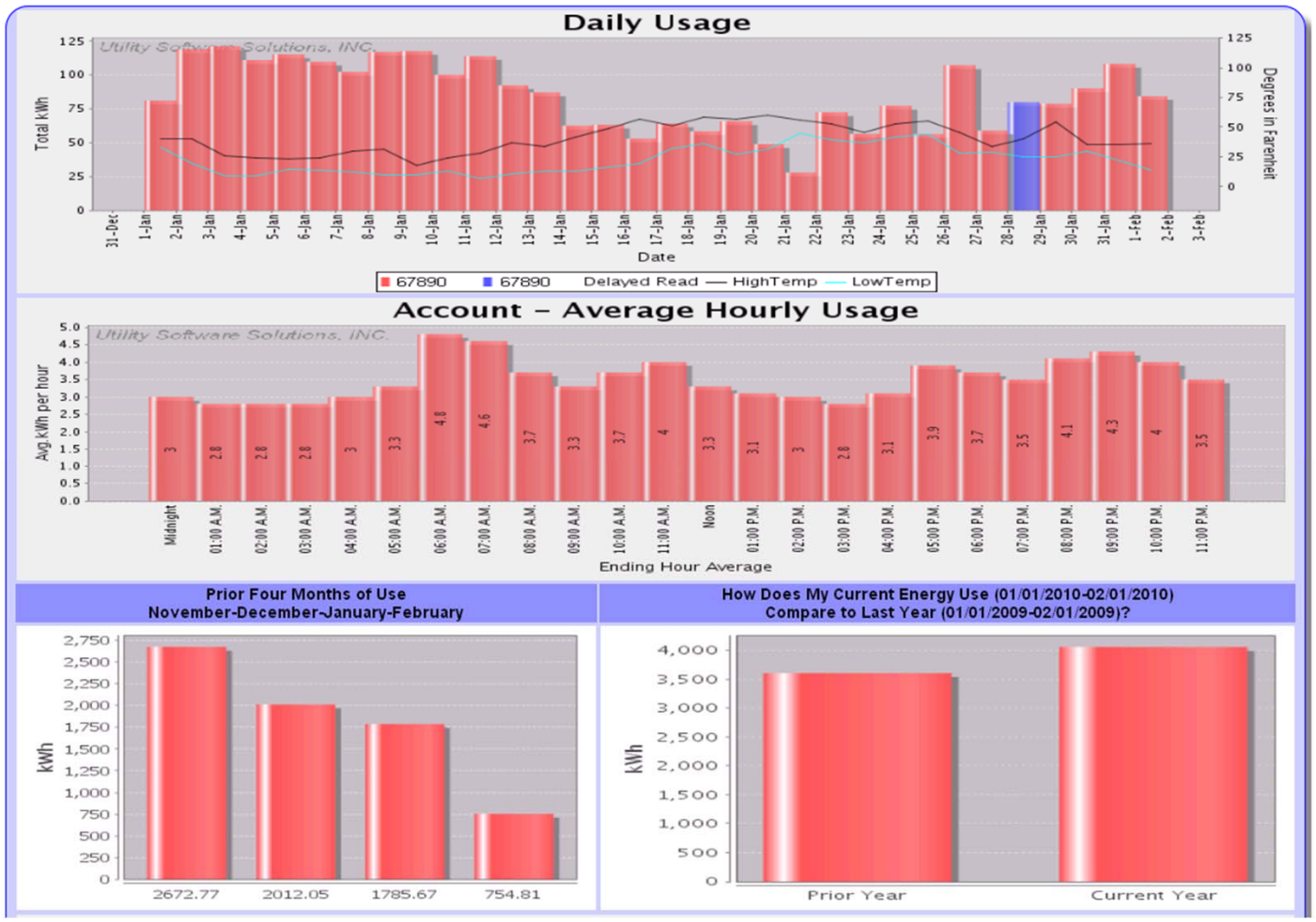
Vendors/Partners:

- Springbrook (billing)
- Survalent (SCADA)
- Tantalus (Communication)
- GE & Itron (Meters)
- USSI (MDM)
- Mpower (Outage Mapping and GIS)
- NDimension (Cyber Security)

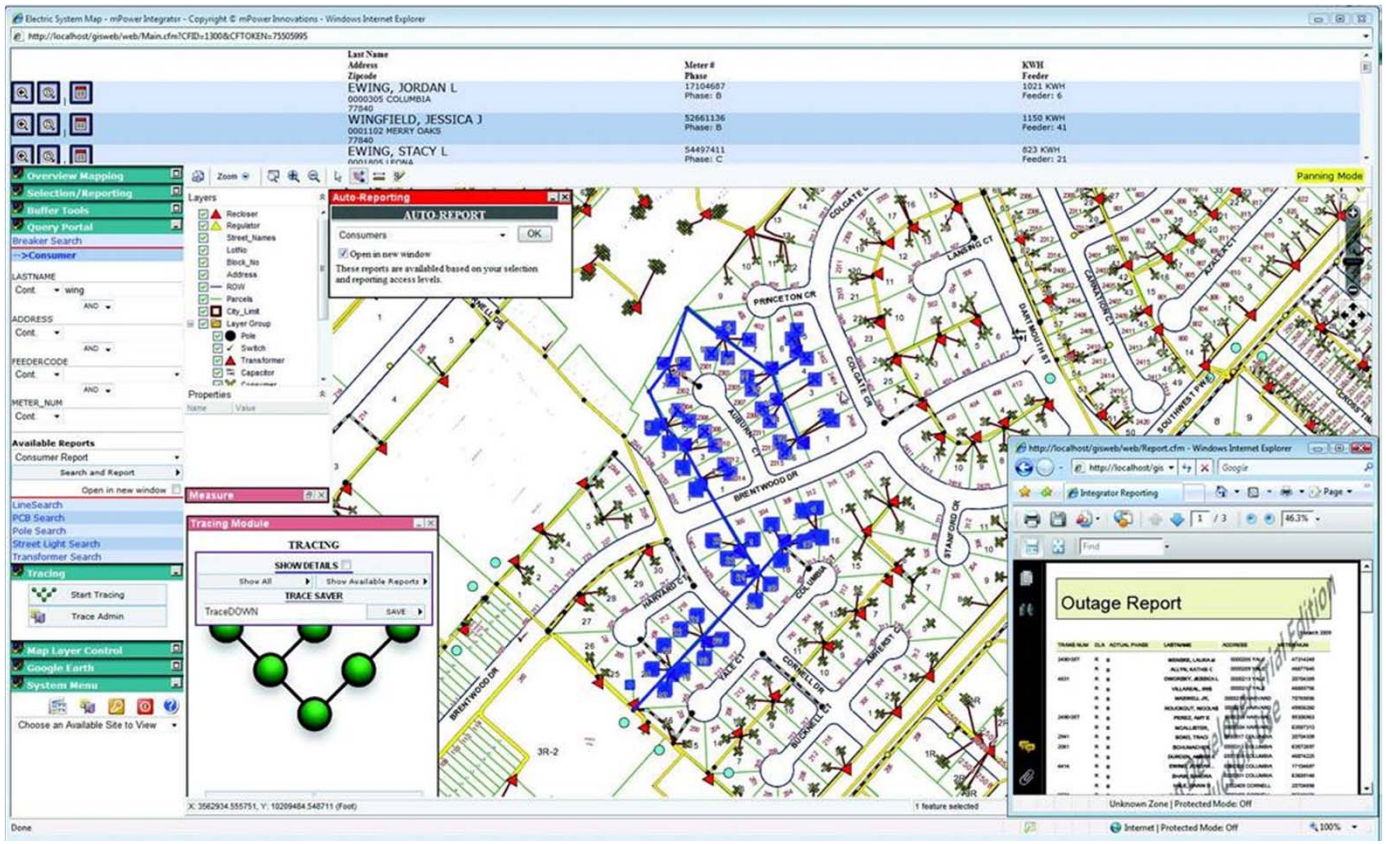
USSI Meter Data Management



USSI Continued



mPower OMS/GIS



Current State:

- City Staff has deployed 95% of Electric Meters in the field.
- 100 gas and water still in test phase.
- Electric System has been accurately mapped.
- System integration is in the works.
- 5 customers (0.1 % of the Customer base) have expressed concern over health affects of the meters.

What we would Change the Most?

- Wasted Time Writing RFP
- Demand for more onsite presence by vendors

Questions?