



## Smart Metering Systems

Monitoring, reading and work order management

### OVERVIEW

Utility companies have long realized that 'smart metering' offers a lot of benefits for household customers. A couple of benefits are a) it puts an end to "estimated bills," which are a major source of complaints, b) it helps customers reduce their water, gas and electricity consumption - by providing up-to-date information on their consumption patterns - and there by reducing their energy purchases.

### GOALS

Our goal is to replace all gas, electric and water meters in cities such as Cedar Park, Texas, Burnsville, Minnesota, Monroe, Iowa. New 'smart meters' will replace the old water meters saving both the cities and customers money. The smart meters will have the capability to send reads and alarms over low-power communication links. Various analytical algorithms can be applied over different periods of time - hour, day, month, year - to deduct various consumption patterns which provide better management capabilities to the utility companies, cities and end customers. Automated alert systems that are deployed with these smart meters can give real-time notifications of the status there by allowing problems to be fixed as quickly as possible before they become an inconvenience or become a threat. The field service technicians make use of the mobile platform that lets them get work orders on their mobile devices and helps them complete the work as they are filling out the order on their mobile devices, there by reducing paper work, improving accuracy and, most importantly, improving efficiency.

### SOLUTION

We have implemented over 50 plus projects for various Utilities. Projects ranged from swapping out old meters with new smart ones. Our systems monitor 1,000 to 30,000 meters based on the size of the deployed projects. The features include GIS based scheduling, field data capture, synchronization with major/custom billing systems.