

Use Case

Advanced Metering Infrastructure (AMI) & Automated Meter Reading (AMR) system

CHALLENGE

Telangana State Southern Power Distribution Company (TSSPDCL) was facing challenges with collecting the data from the different make HT meters. This was a manual process having high cost of labor and also frequent manual data entry errors. Also, another major challenge was to monitor voltage and current missing issues from remote location.

OUR SOLUTION

AMI is an integrated system of smart meters, communications networks, and data management systems that enables two-way communication between utilities and customers. The system provides a number of important functions that were not previously possible or had to be performed manually, such as the ability to automatically and remotely measure electricity use, connect and disconnect service, detect tampering, identify and isolate outages, and monitor voltage.

AMR is the technology of automatically collecting consumption, diagnostic, and status data from water meter or energy metering devices (gas, electric) and transferring that data to a central database for billing, troubleshooting, and analyzing.

Utthunga implemented its IIoT platform Javelin – AMI solution to address the customer's challenges. The components of Javelin deployed were uConnect (data acquisition unit) and uViz (visualization and analytics)

The meters at various geographical locations published the data to a central repository for storage and further integration with the billing system

BENEFITS

Increased the profitability of the utility:

The solution enabled the utility to get instantaneous alerts in cases of energy meter tampering.

Reduction in manual labor and costs:

Automation of billing system and elimination of losses due to manual error.

TS SPDCL key coordinates

- SE projects - Hyderabad metro region
- DE to CMD
- DE projects – Hyderabad metro region

