SMART WATER

Overview

The Smart Water System is made up of smart nodes distributed over the entire water network, plus the GIS-based SCADA which provides overall control over the entire infrastructure. The system is a "Smart Grid" idea incorporated into water infrastructure. This is a new and innovative way of making the use of water resources more optimal and secure.

System Components

- Communication server
- Central SCADA station
- Operator workstations
- Local Operator Workstations
- RTUs
- Central Nodes
- Transmission Node
- Distribution Node
- Consumption Node

System Functions

- Detailed monitoring data from remote locations
- Distributed quality analysis for the entire infrastructure
- Real-time monitoring and control of pumps and valves
- Isolation of faulty areas to avoid water leakage or pollution
- Differentiated water tariffs
- Historical data for future analysis
- Identification of pollution sources in the infrastructure
- Local web interface
- Alarms handling and monitoring
- Different authentication levels

Benefits

- Effective organization of water treatment process
- Identification of pollution sources in the infrastructure
- Increase of water security for customers
- Effective transmission of water resources
- Lower loses and leakages of water
- Lower maintenance cost
- Faster fault identification and repair
- Higher water quality

NATIONAL INSTRUMENTS | Silver Alliance Partner

ԲԻԹԼԻՍ-ՄԵՆ
BITLIS-MEN™