



# **WATER MANAGEMENT**

**OPTIMIZE POWER & WATER**



## WATER MANAGEMENT

Xenius enabled fluid flow management helps monitor and control water, gas etc. parameters through an analytics dashboard presenting data in near real time for instantaneous and cumulative flow and level. The data can be accessed from anywhere & anytime. Detailed reports for day, month or year are available, helping in analyzing and optimizing consumption.



## About Radius Synergies International Private Limited

We believe in making lives better by 'Humanizing Machines' with a vision of smart living and connected world.

We have a dedicated team, with expertise, experience and attitude to deliver and fix any issue. One can be assured of unparalleled product and customer support. For fast and proactive resolution, we have 24x7 NOC Support. Our 250+ committed employees continuously monitor the health of local devices and back-end resources ensuring a flawless experience for our customers.

A dedicated facility for the prepaid metering system at Noida, Sector 63 combined with a 50+ strong in-house R&D team. Our commitment to service our customers with highly skilled technical support, high precision, and quality products set us apart from the rest.

We uphold the highest standards of integrity, and honor the promise of transparency to our customers. The products and services we offer are fully compliant with various industry standards and adhere to the guidelines set forth by competent authorities for an IoT/M2M Solution.

## FEATURES

- Remote monitoring of water level in overhead and underground tanks
- Remote monitoring of on/off status, phase wise voltage, current, and load on water pumps
- Historical on-demand reports of on/off time and running duration for water pumps
- Remote monitoring and historical on-demand report of grid and DG power consumption by water pumps
- Remotely switch on/off water pumps with click of a button or a tap on PC or mobile
- Automatic switch on/off and SMS alerts of water pumps by setting rules based on water level in tanks

## OVERVIEW

Water management for large societies, townships or and institutional/ commercial establishment is generally a complex and resource intensive task. Using its state of the art patent pending solutions and contemporary technologies like IoT/M2M, Radius Synergies International Pvt Ltd (RSIPL) has come up with a Smart Water Management solution that is proving its worth at several installations.

Smart Water Management solution provides an integrated platform for monitoring and control of various equipment's like bore well motors, pumps, motorized valves, level sensors etc. in an optimized manner for fulfilling the water related needs. The automated system helps reduce any wastages on the part of water as well as the energy utilized by various equipment.

This has the potential of significant reduction of the expenses being incurred as well as getting closer to green concepts and reducing carbon footprints for a sustainable future. Based on the specific needs of an establishment, a suitable solution gets designed to meet the requirements.

All hardware components used are of industrial grade quality that can withstand extreme weather and climatic conditions. The modules carry standard certifications and are IP 55 or IP 65 depending on the field requirements

## HOW IT WORKS

The Smart Water Management solution comprises of integration of Xenius Adaptors, Xenius Bridges and Xenius Gateway for capturing real time data of various water storage resources like underground and overhead tanks and operate the equipment's like borewell motors, pumping motors and motorized valves in a synchronized manner for optimal efficiency. At the installation site, multiple network configurations operate for capturing of the required data from various sub-systems involved and passing it on to the backend platform.

- A suitable communication mechanism helps fetch level data from various underground and overhead tanks. The data from various sub-systems is collected by the respective **Xenius Adaptors** on a pre-defined time frequency. Several such wired networks operate in a tower / premises
- **Xenius Bridges** helps coordinate the activities across various sub-systems through pre-defined rule based intelligence. Bridges also help communication with **Xenius Gateways** that help communicate all the data to the backend **Xenia Cloud** for further processing, analytics, display and persistence
- Several Adaptors and /or Bridges form a network mesh operating on RF 865 Mhz free band. Depending on the premises layout and number of various types of tanks to be managed, there could be one or more such RF networks configured and implemented per premises and communicate independently amongst themselves without any interference. All data for a RF network or sub-system gets aggregated on the Gateway managing that network and subsequently communicated to the backend platform on a secure GPRS private APN
- **Human Machine Interface:** These are in the form of internet web interface or mobile applications. Usually, for B2B clients, web interface is available and for B2C, mobile apps are used. The HMI facilitates near real time access, reports, analytics, alerts and notifications to respective user community

## CLIENTS

