



AI & IOT SMART WATER

ENABLED

MANAGEMENT SYSTEM

Digitize & Smartly operate your water Infrastructure



Sustaining the
Elixir of Life



Problem Statement

We have systematically identified water management problems that impact revenue and sustainability.

55 % 

of households lack access to drinking water

90% 

of the water used in agriculture is due to poor irrigation systems

600M+ 

People face high water stress



70% 

of freshwater sources are contaminated.

by 2030 

demand will double that of the supply

8%

of rainwater is stored



Over exploitation of water



Zero-loss Preventive Measures



Lack of Data Transparency



Scarcity of Quality Water



Higher Cost Investment

KarIoT an Intelligent Solution

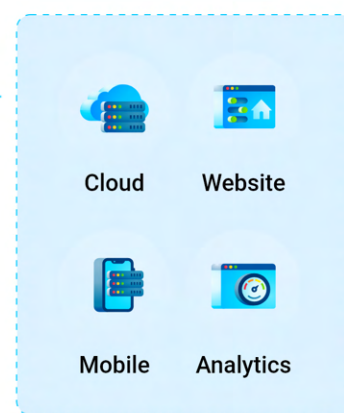
MONITOR

MEASURE

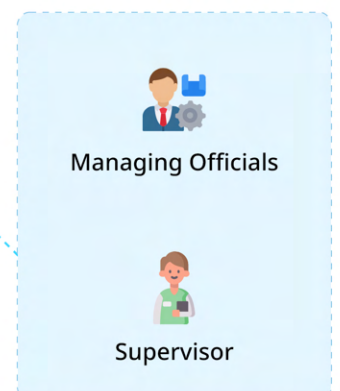
MANAGE



Auto-operate motor, tank, pipeline and valve functions remotely



Real-time recording of data, accessed via smart devices



Remotely manage water systems without physical intervention

1 Government Sector

KarIoT provides 360° view of the supply and distribution of water system. Govt. officials can make informed decisions to ensure correct LPCD is provided with the required quality of water

Customizable Dashboard

Key KPIs can be instantly analyzed via graphical and pictorial reports, depending on customized problem statements or use cases.

Remote Operations

No manual intervention is required. The entire city's water distribution can be viewed, operated, and managed remotely.

Real-time Alerts

Location-wise triggers can be identified and alerted for leakages and overflows; thereby reducing the overall downtime, and wastage.



2 High Rise Building

Gated communities and individual homes can leverage metered water usage, reduced energy consumption and ensure a continuous water supply

Pay-Per-Usage

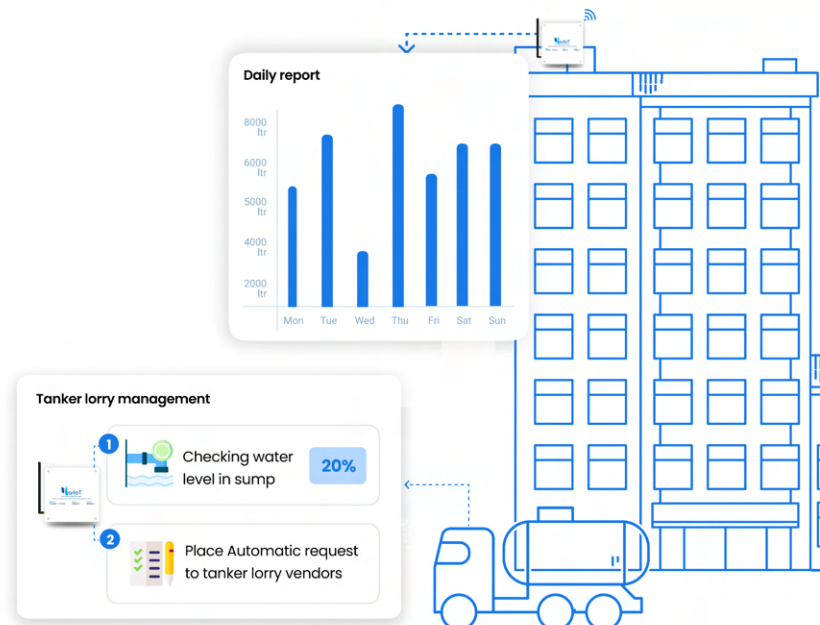
Automatic bill generation as per consumption of every household.

Automatic Tanker Lorry Management

Monitor, manage and automate processes involved in procuring and receiving tanker water.

Motor & Valve ON-OFF

Remotely operate and control valves, check overhead tank level and automatically schedule ON/OFF actions.



We provide services to

3 Industrial

Industries can ensure smooth operations with high efficiency and reduced downtime. No manual readings with auto-report generation and remote operation.

Energy Audit & Analysis

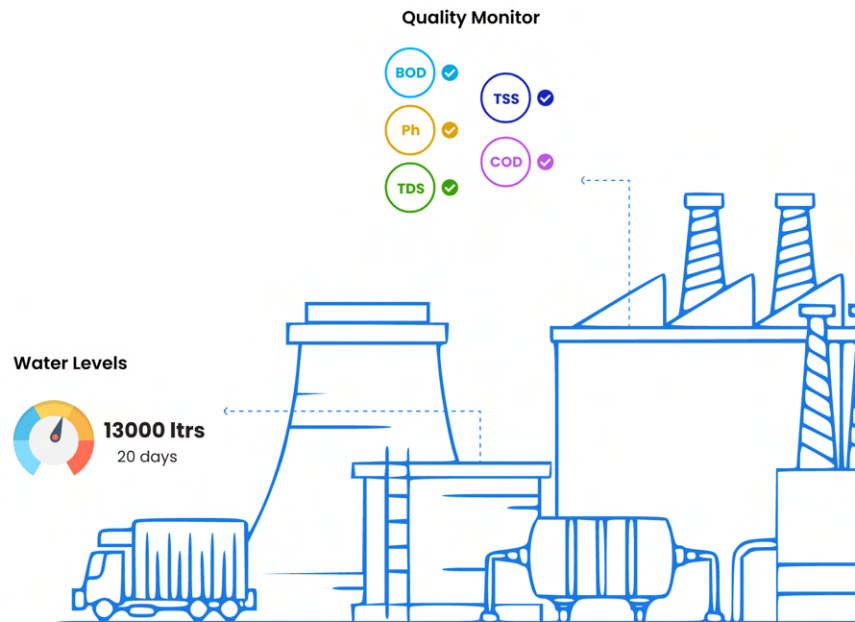
Monitor and audit inlet and outlet functioning of treatment plants - STP, WTP, & ETP.

Water Quality Monitoring

Measure pH, TDS, BOD, COD, Nitrate, Chlorine, etc., and trigger notifications instantly.

Increase Productivity

Reduce downtime due to failures and save operational expenses upto 30%.



4 Commercial

Hassle free maintenance and management of water system on a mobile and web device. The Building Manager can operate with reduced manpower and enhance the efficiency of water usage.

Smart Water Consumption & Distribution

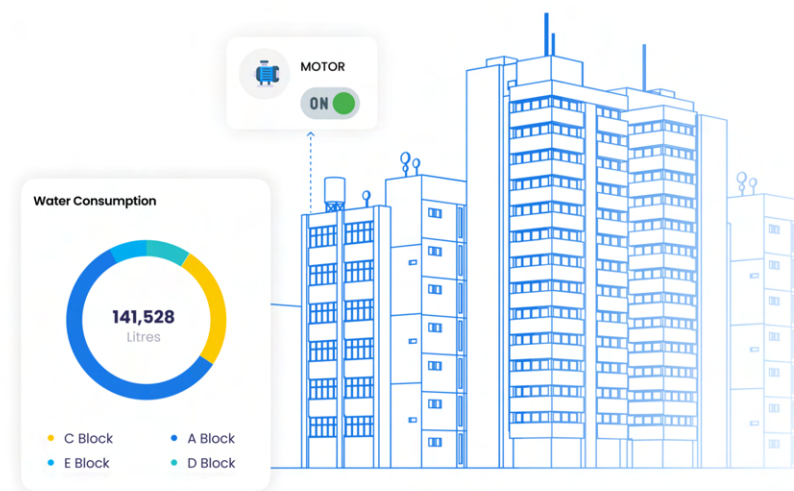
Remotely monitor, analyse and get daily report of the water consumption, level, pressure and quality of the water.

Instant Alerts on Device

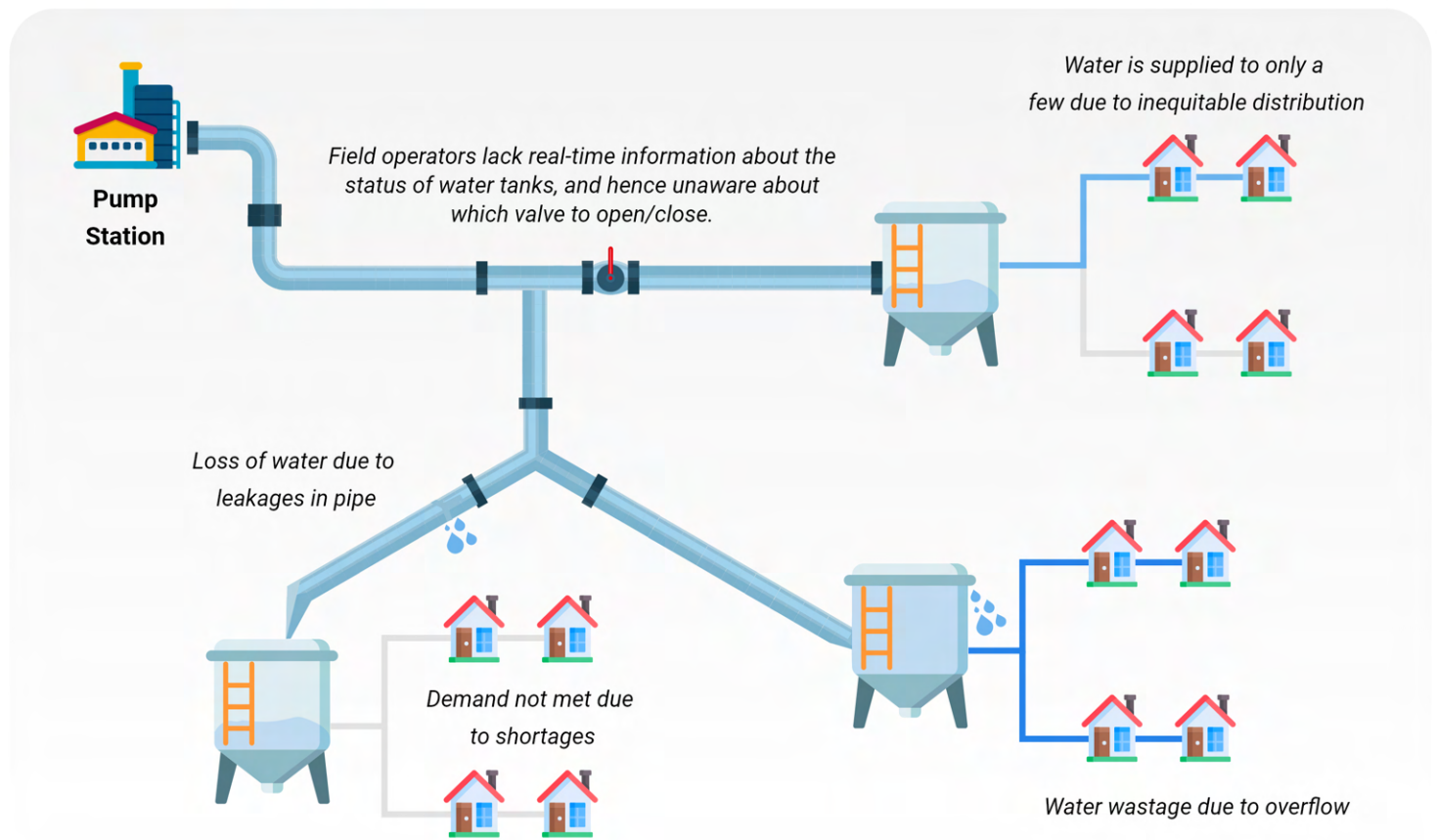
Provide real-time alerts, get notified on water quality fluctuations, and reduce water leakages/overflows.

Sustainability/ Green Building Management

Optimize energy efficiency, cautious water usage, and generate less wastage.



Current Scenario



Use Cases (Municipality)

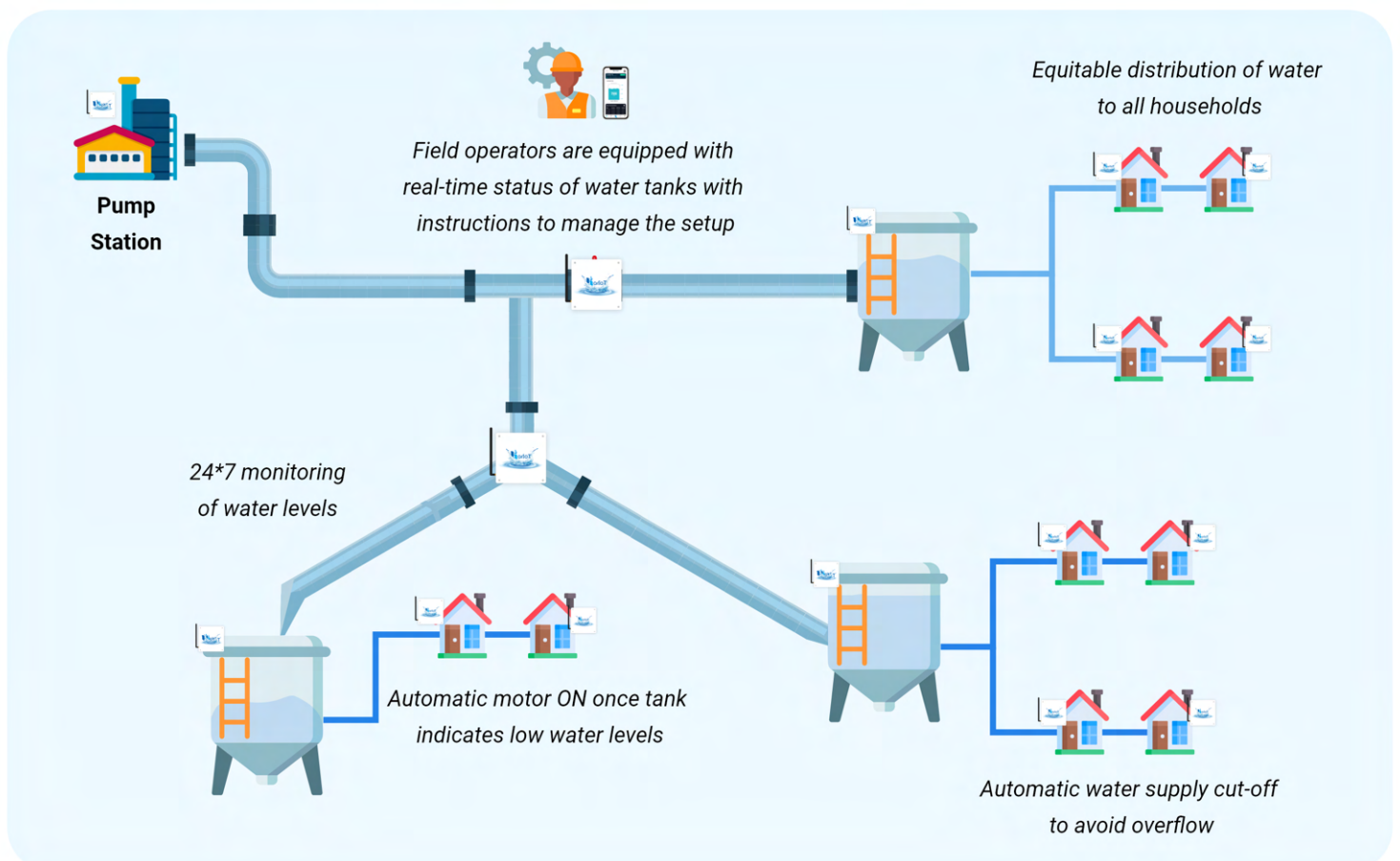
Remote monitoring and operation of pumps



KarIoT Device

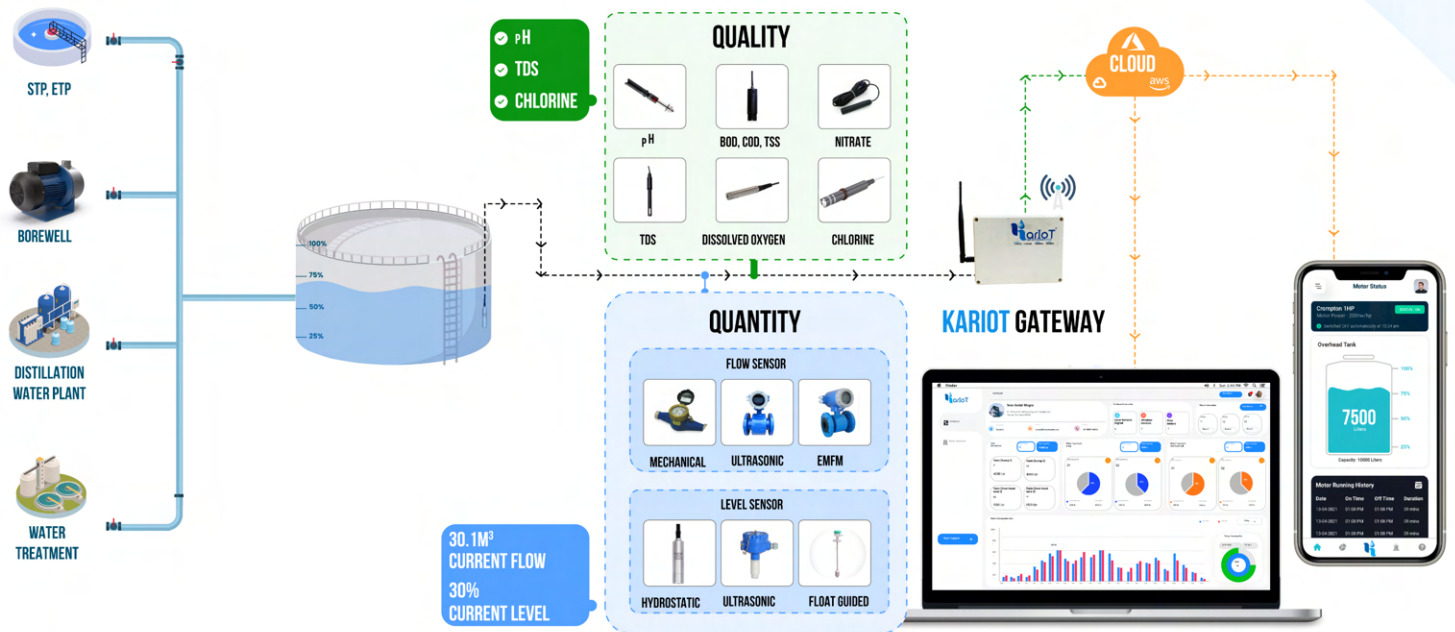


KarIoT App



Product Architecture

KarIoT's solution is customized to resolve a number of problems in various sectors, leveraged with curated dashboards as per specific users' requirements.



Our Clients

Government Sector



Private Sector



Web Platform

Data is represented in a simplified graphical and pictorial form for any user to grasp information within seconds.



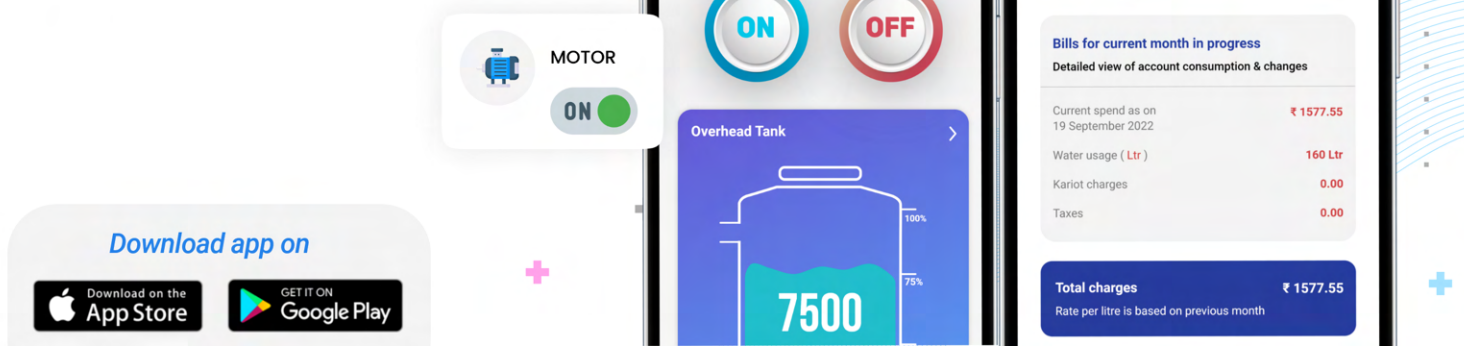
App Platform

Ease of use and control operations from the comfort of anywhere with the use of Android or iOS devices.

- Instant alerting system on fluctuations.
- Auto-operations pump & valve ON/OFF.
- Consumption management & monitoring.
- Real-time recording of water readings.



Save Water
with us on our App!



Awards & Recognition



**START-UP
STARS
AWARDS
Winner**

**Best energy tech startup
of the year 2021**



KarIoT - a Technology Recommended By



जल शक्ति मंत्रालय /
पेयजल और स्वच्छता विभाग

MINISTRY OF JALSHAKTI
DEPARTMENT OF DRINKING WATER & SANITATION



Office of the Principal Scientific Adviser
to the Government of India



Har Ghar Jal
Jal Jeevan Mission



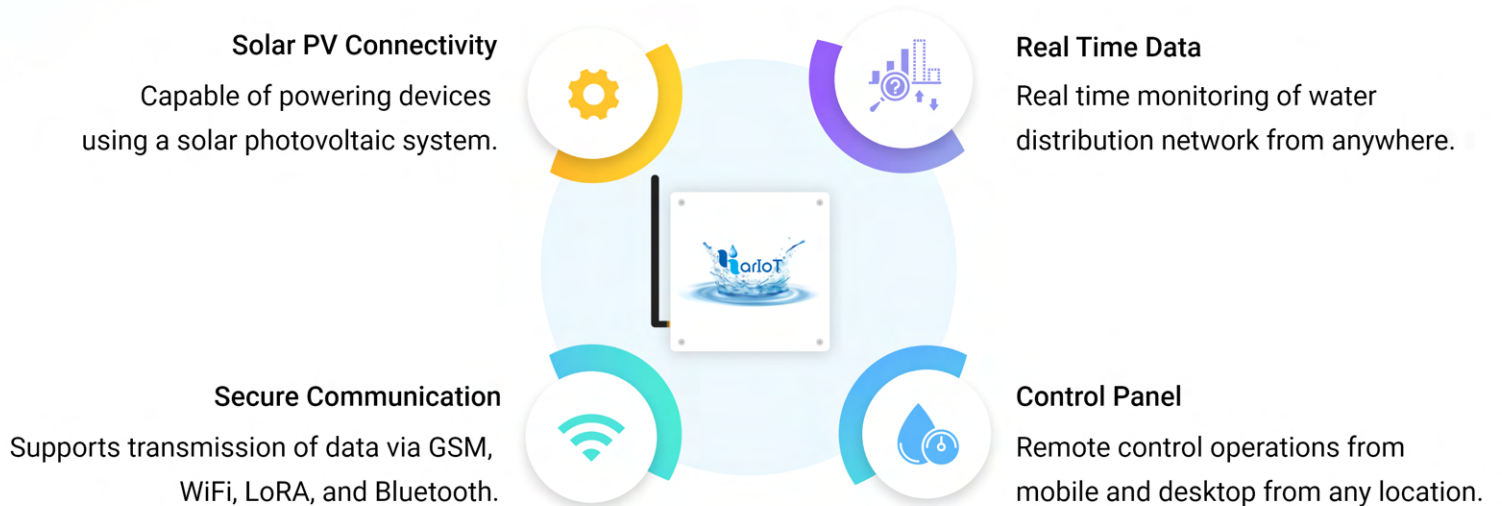
MADE IN



Benefit of our Smart Water Solutions



Our Device



Why are Meters Important

a system without meters is like a taxi without a fare counter



Demonstrate Accountability

They allow the system to demonstrate accountability. They make it possible to charge customers in proportion to the amount of water they use



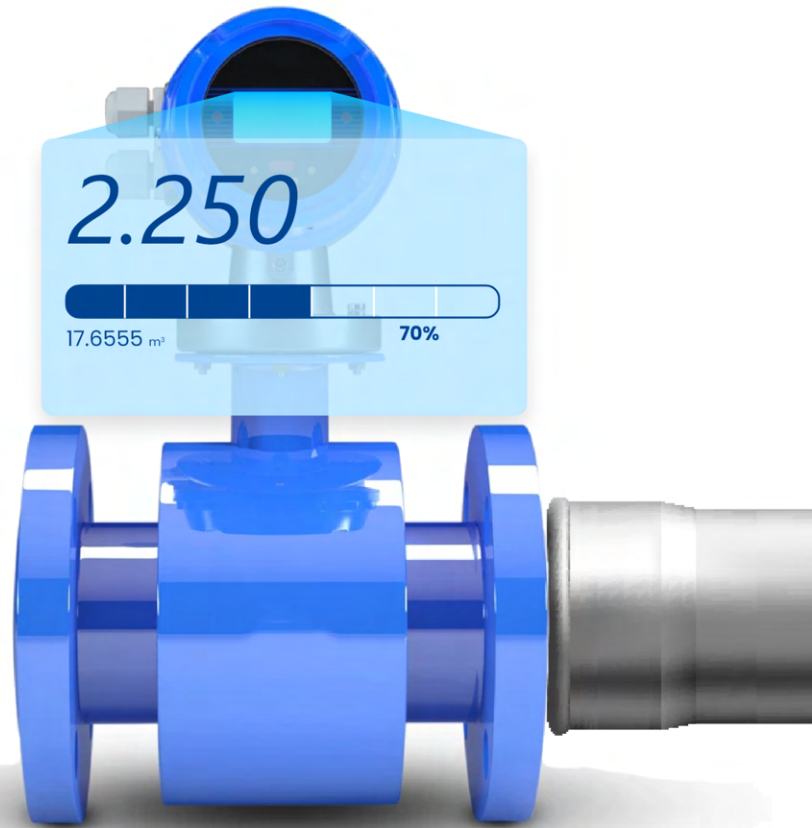
Record Specific Usage

They are fair for all customers because they record specific usage

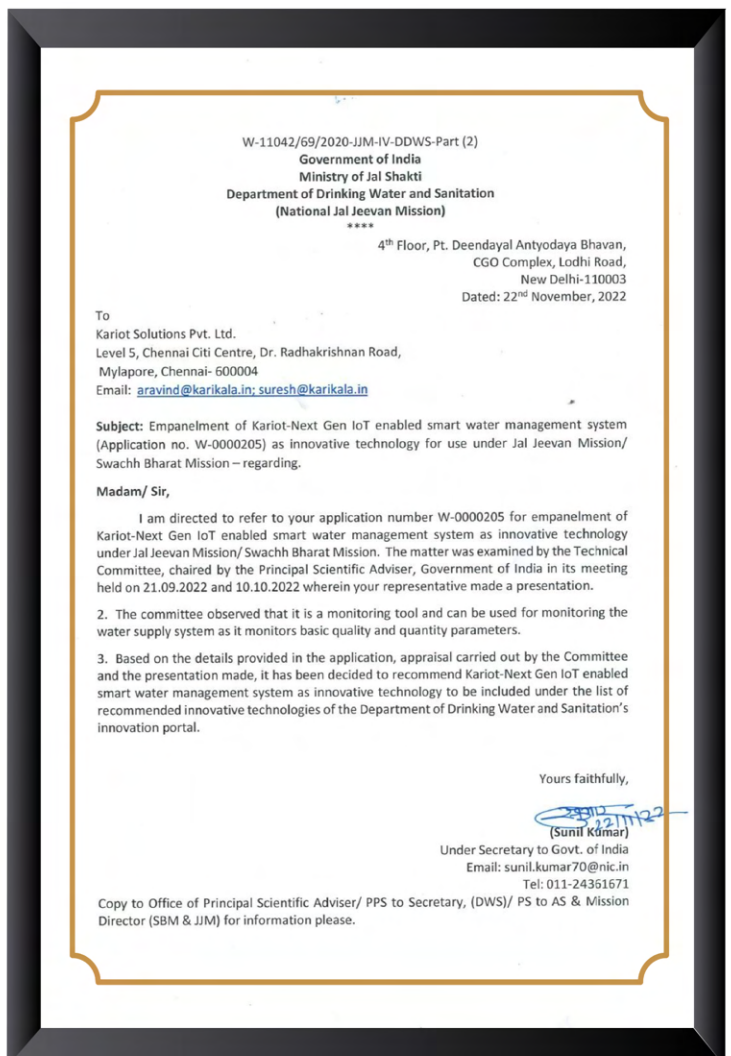


Detect Leakage

They aid in the detection of leaks and waterline breaks in the distribution system.



Empanelment of KarIoT - IoT enabled smart water management system as innovation technology Under Jal Jeevan Mission / Swachh Bharat Mission.



Panchayat Of Tiruchendur Tamil Nadu (12 OHD tanks in 8 habitations)

Our Vision is to make water management digital, sustainable and economical for every individual.



Location

Udangudi



Industry

Government Sector

- ✓ Digitally-enabled water supply infrastructure will help in real-time monitoring and evidence-based policymaking
- ✓ Automated alerts to notify the key personals of inconsistencies, malfunctions and anomalies
- ✓ Monitoring and auditing of water/energy consumption from pumps, filtering plants, etc.
- ✓ Automated and remote control of water valves

Urban Portfolio

CMWSSB

Project with Chennai Metropolitan Water Supply and Sewerage Board to monitor the entire Water Distribution System



Location

Chennai



Industry

Government Sector



- ✓ Remote and scheduled motor operations according to set time intervals.
- ✓ Customized reports, analytics and location-based tracking.
- ✓ Dashboard logins for officials to get updated on real-time data.
- ✓ Instant download of reports based on different data points by unskilled personnel.

HECS is using KarIoT for Complete Remote Monitoring.



Location

All over Tamilnadu



Industry

STP Treatment plant

- ✓ Remote monitoring of the flow, levels, condition, and quality of treated water.
- ✓ 24*7 monitoring of equipment functioning that boosts maintenance and instant triggers for any sudden breakdown.
- ✓ Tracking of motors, pumps, air backwash blowers, etc., to regulate energy consumption.
- ✓ Instant report generation on the complete treatment process in accordance with the central Pollution Control Board.
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KarIoT Intervention in GEE GEE KAY's Chemical Industry

Our Vision is to make water management digital, sustainable and economical for every individual.



Location

Thoothukudi



Industry

Agricultural chemical manufacturing company

- ✓ Reduce infrastructure cost for real time monitoring over the Scada solution by 60%
- ✓ Providing real-time data via a cloud server and accessible on web and mobile devices.
- ✓ Automated all manual operations with regular shift-based reports. Drastically reduce manual efforts and labor cost.
- ✓ Alert on fluctuations thereby reducing the overall product loss.

Commercial Portfolio

Ganesh Towers

Ganesh Towers is a shopping mall with showrooms, retail shops and restaurants. It acts as the business centre and an hub for commercial rental spaces



Location

Tiruppur



Industry

Commercial Sector

- ✓ Data collection of the water consumption process is done manually.
- ✓ The existing pulse meter was not in working condition.
- ✓ Calculating the water consumption on each floor of the commercial building was difficult.
- ✓ Automated and remote control of water valves
- ✓ The billing system was taking place manually



Government Portfolio

Ripon Building

Greater Chennai Corporation Office



Location

Chennai



Industry

Government Sector

- ✓ IOT sensors enable instant and remote monitoring of the flow, levels, condition, and quality of treated water.
- ✓ Efficiency monitoring and tracking of motors, pumps, air backwash blowers, etc., to regulate energy consumption.



50+ Locations

All over india



Recent Locations

- Standard Chartered Pvt limited
- IEC Fabchem limited
- Mattest Research Academy
- CMWSSB
- L&T TLT Kanchi
- Transpek Industry Limited
- Anjan drugs private limited
- L&T HYDROCARBON
- Rippon building
- Kasipalayam CET
- Delphi Tvs Technologies
- Hotel Maris
- TVH
- SDS Raheja Residency
- North Town
- TWAD Board recruitment
- Gilbarco Veeder-Root
- KS Smart Solutions
- Jave Group

Reach us

+91 90947 60054 | +91 90947 60051

info@karikala.in

www.karikala.in



ASK Towers, Plot No.183, Sri Sai
Nagar 3rd Main Road, Okkiyam
Thoraipakkam Chennai - 600097