



Discover **KarIoT's** **Residential** **Solution**

ENABLE Smart Water
Management for your home



About Us

Water sustainability is a pressing global concern, and a transformative shift is needed to make a meaningful impact. KarIoT is committed to driving this change steadily but surely, particularly in the residential sector. our KarIoT gateway solution harnesses IoT (internet of things) technology, offering customization with multiple integration options that go beyond the confines of specific meters or sensors available in the market.

This smart gateway solution efficiently collects data from various physical devices, transmitting it to the cloud, and making it accessible on any smart device. users can access the application to effortlessly view, monitor, receive alerts, and remotely manage their residential water systems.

Our platform employs advanced AI (artificial intelligence) algorithms to analyze data, presenting actionable insights in easily understandable graphs and patterns. our customizable solution offers a comprehensive 360° view of real-time water distribution systems.

With two years of experience in the market, we've successfully provided solutions to esteemed clients in the residential sector, among others.

Problem Statement

Inefficient Water Consumption


Many residential areas lack the means to monitor and regulate water consumption effectively.


 8%
Rainstored Water

 55%
Lack households

Water Scarcity and Resource Depletion


Water resources have become scarcer due to urbanization and climate change.

 by 2030
Water Demand
will be Doubled

 70%
Freshwater Resources
Contaminated

Undetected Leaks and Wastage

Unnoticed water wastage and overflow cause substantial damage or lead to higher water bills.

 90%
Poor Irrigation
System

 600M+
High water
Stress

Manual Meter Reading and Billing

Prone to human error, billing disputes, and delays in identifying unusual consumption patterns.

Lack of Data-Driven Decision Making

Prevents informed decision-making on resource allocation, conservation, and maintenance scheduling



KarIoT-How it Works

Automate Motor & Valve operations



Manage valves, check water levels, and schedule ON/OFF actions remotely and automatically.

Automated Water Readings & billing



Simplify the billing process with automated invoicing, payment options, and reduce administrative tasks.

Energy Audit & Data Analysis



Monitoring the status of inflow and outflow, analyzing equipment functionality, and energy audits.

Pay-Per-Usage



Precise, fair, and automated billing system based on the individual resident's water consumption.

Automatic tanker Lorry Management

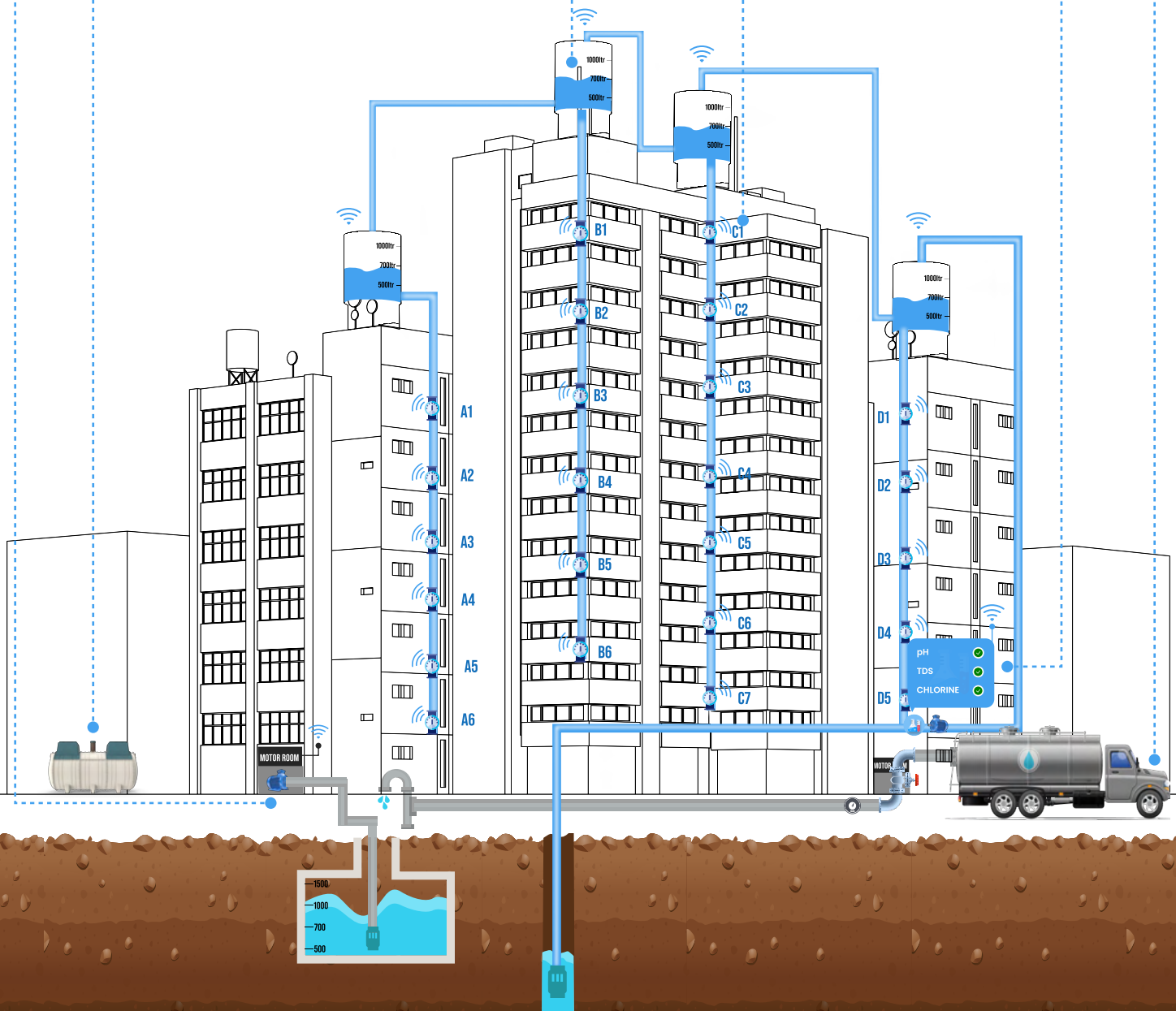


Monitor, manage, and automate processes involved in procuring and receiving tanker water.

Water Quality Monitoring



Measure pH, TDS, Chlorine, etc., content in water and trigger instant alerts for anomalies.



Residential Benefits of Implementing KarIoT

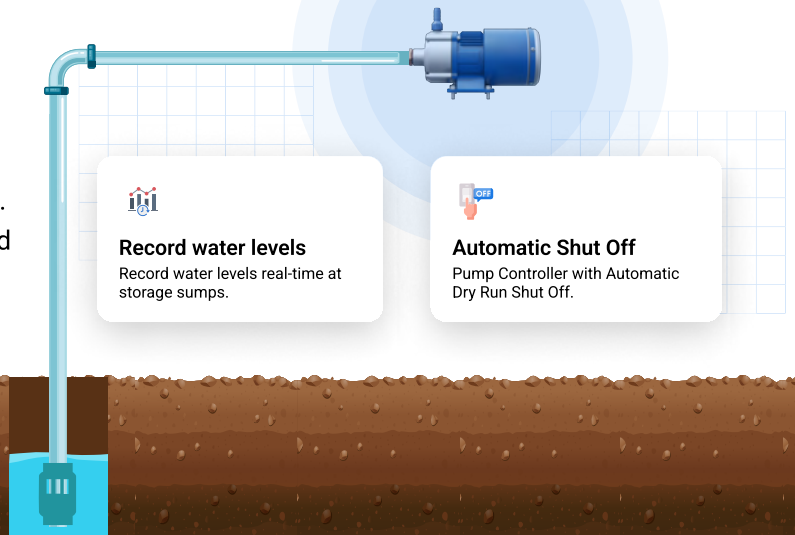


Enhanced transparency by giving residents visibility into their water usage and associated costs. Allowing remote operations of water systems, such as motor/valve control, for added convenience and energy savings.

Initial investment in the KarIoT solution can quickly pay off through reduced operational expenses.

01 Extended Motor Usage and Maintenance

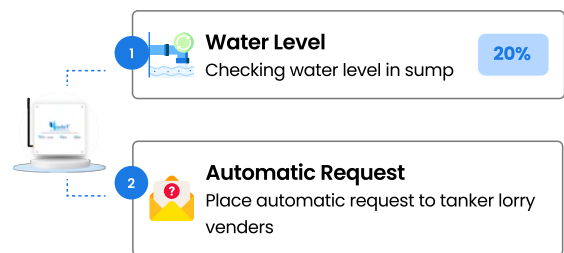
Intelligent control of water pumps, motors, and valves by smart scheduling and remote operation. Activated only when necessary, reducing wear and tear, and prolonging lifespan.



02 Automated Tanker Lorry Management

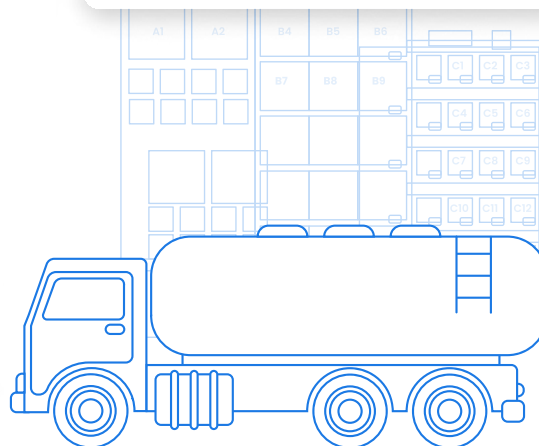
Intelligently managing and streamlining the procurement and delivery of water tankers and ensuring the effective distribution of water.

Tanker Lorry management



Loads Day wise

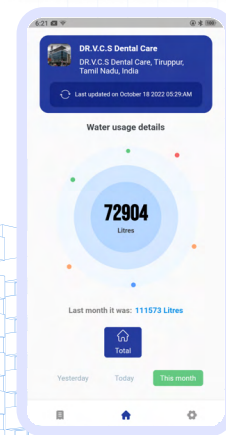
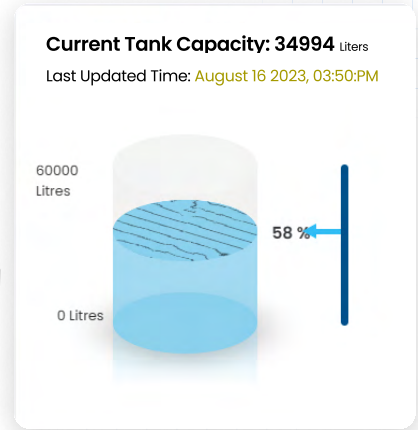
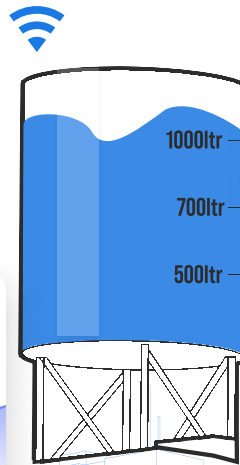
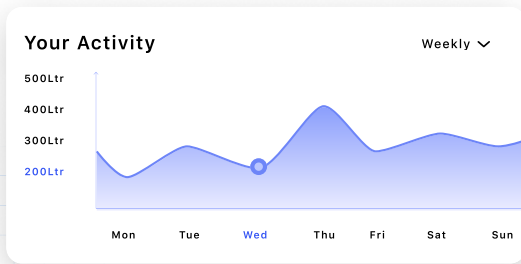
Date	No of Loads	unloaded(m3)	Export	View
2023-08-03	6	66.37	Export	View
2023-08-03	9	74.82	Export	View
2023-08-03	8	56.82	Export	View
2023-08-03	6	67.88	Export	View



03

Real-time Water Level Monitoring

Continuously monitor water levels in overhead tanks, sumps, and borewells, providing instant updates on water consumption and availability.

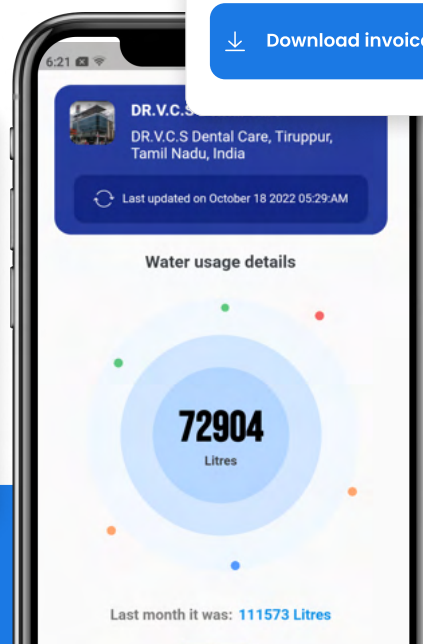


04

Usage-Based Billing

A billing model that charges consumers based on their actual usage of water encourages mindful consumption leading to cost savings.

Bill Cycle	October Current month	September Last Month
Total water Uage	72904Ltr	114678Ltr
Total water Uage	Rs 3836	Rs 9174
Amount Spent	Rs 3836	Rs 9174



September 2023		#KAR24235
Total consumption	14905	Bill amount
		298.1
Download invoice		PAID

05

Water Quality Monitoring & Management

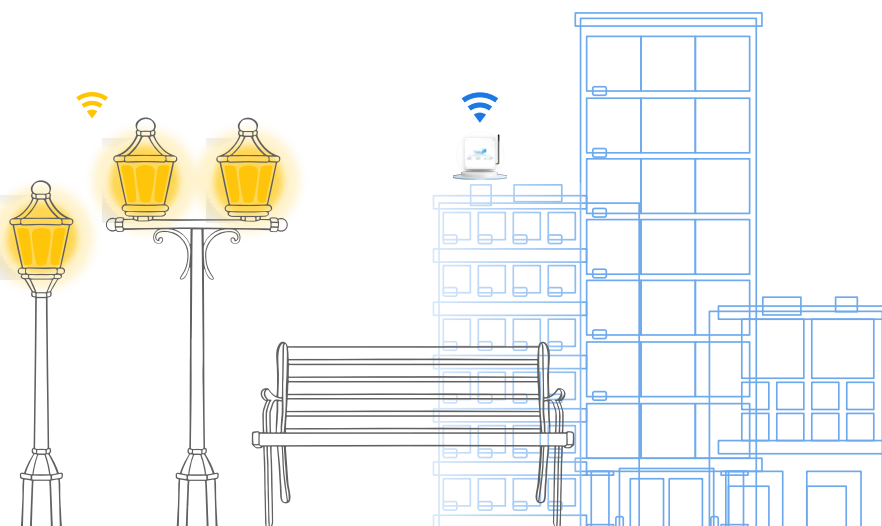
Continuous assessment and measurement of various quality parameters to determine the suitability and to ensure a safe reliable water supply.



06

Scheduled Smart Lighting Solution

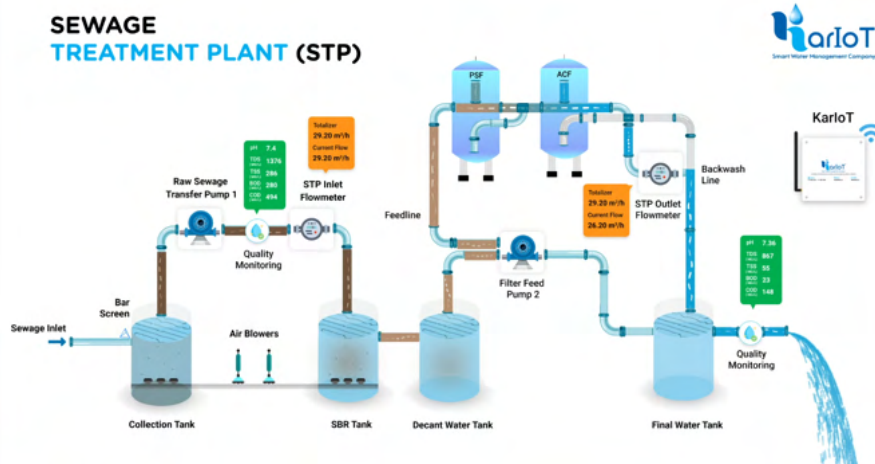
Efficiently managing energy consumption by precisely scheduling lighting systems ON/OFF and automated control in shared areas like hallways, entrances, and communal spaces



07

Automation of Water Treatment Facilities

Precise tracking and measurement of critical parameters, including chlorine, pH, TDS, BOD, COD, and TSS. Consistent and unmatched efficiency in water treatment plant STP/WTP operations.



08

Immediate ROI (Return on Investment)



Maintenance Cost Reduction

Predictive maintenance via smart water solutions slashes costs by up to 12%.



Energy Savings

Lower water use equals reduced energy costs, often 30% of a utility's budget.



Data-Driven Decision-Making

Real-time insights from smart water solutions enable cost-effective water distribution.

Add Schedule

Motor Name
PS Motor_1

Motor On Time: 06:20 AM

Motor Off Time: 08:20 AM

Schedule

Remote Control
Save Time & Man Power

Reduced Energy Cost



Remote Monitoring and Control

Remote control saves time and labor, simplifying water management.

09

Multi-User Dashboard for Association Members

A centralized platform with the capability to analyze, visualize consumption patterns, generate bills, efficiently monitor, and track anomalies thereby minimizing manual efforts.

Usage Information

- Today Consumption: 3650 L
- This Month Consumption: 251996 L
- This Month Bill Amount: Rs 30890

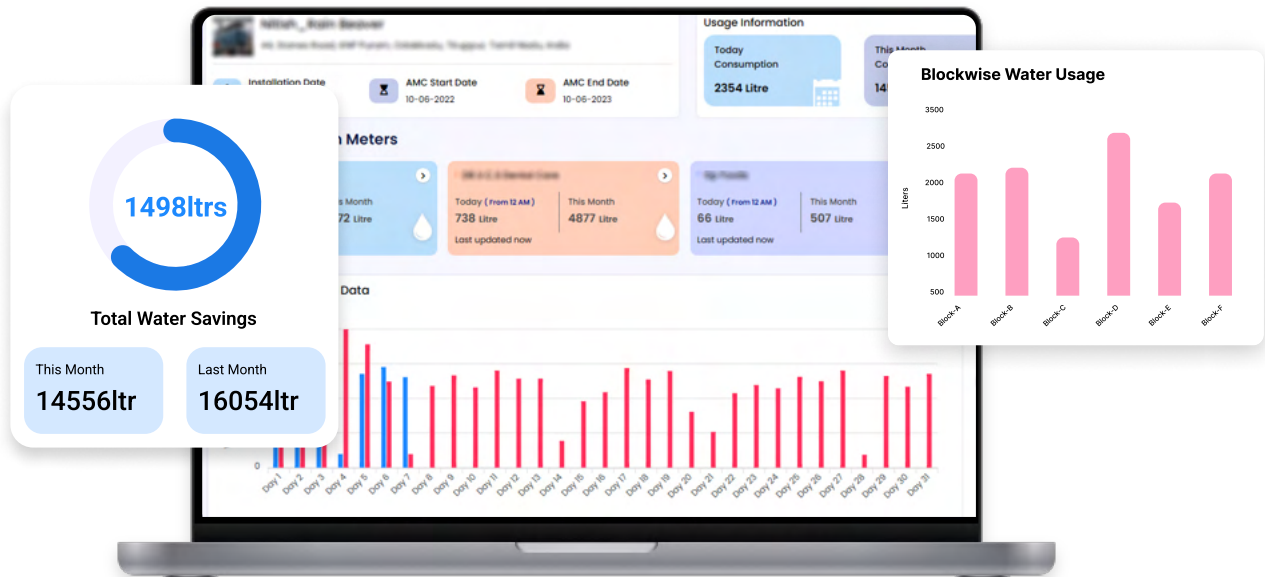
Top Consumption Meters

Zone	Consumer Name	Consumer No.	Current Flow (m ³ /hr)	Today Consumption (L)	Month Consumption (L)	Action
FLATS	Flat F1 - 2 BHK	1	0.02 (normal) Last updated on (2023-08-16 03:18 PM)	97	5047	
FLATS	Flat F2 - 2 BHK	1	0.10 (normal) Last updated on (2023-08-16 03:18 PM)	85	5672	
FLATS	Flat F3 - 2 BHK	1	0.07 (normal) Last updated on (2023-08-16 03:18 PM)	64	5248	
FLATS	Flat F4 - 2 BHK	1	0.07 (normal) Last updated on (2023-08-16 03:18 PM)	77	5220	



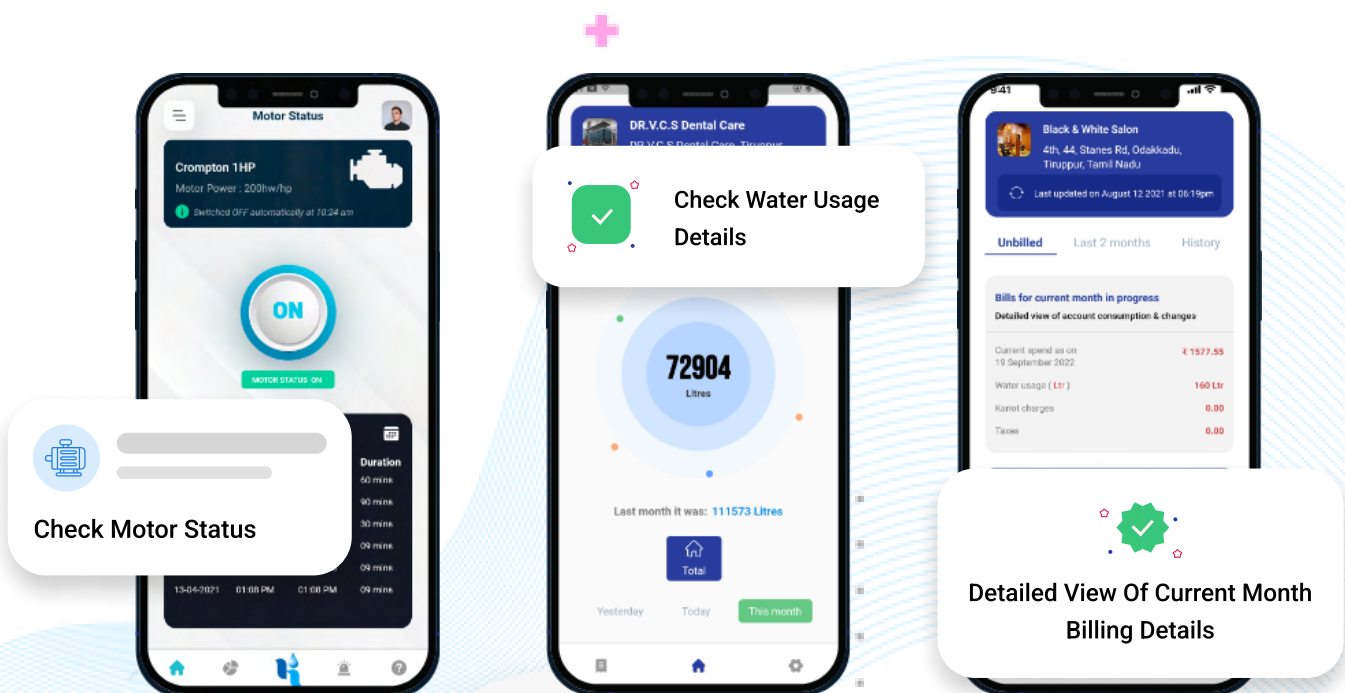
Web Dashboard

Data is presented in a simplified graphical and visual format, making it easy for users to quickly comprehend information



Mobile App Screens

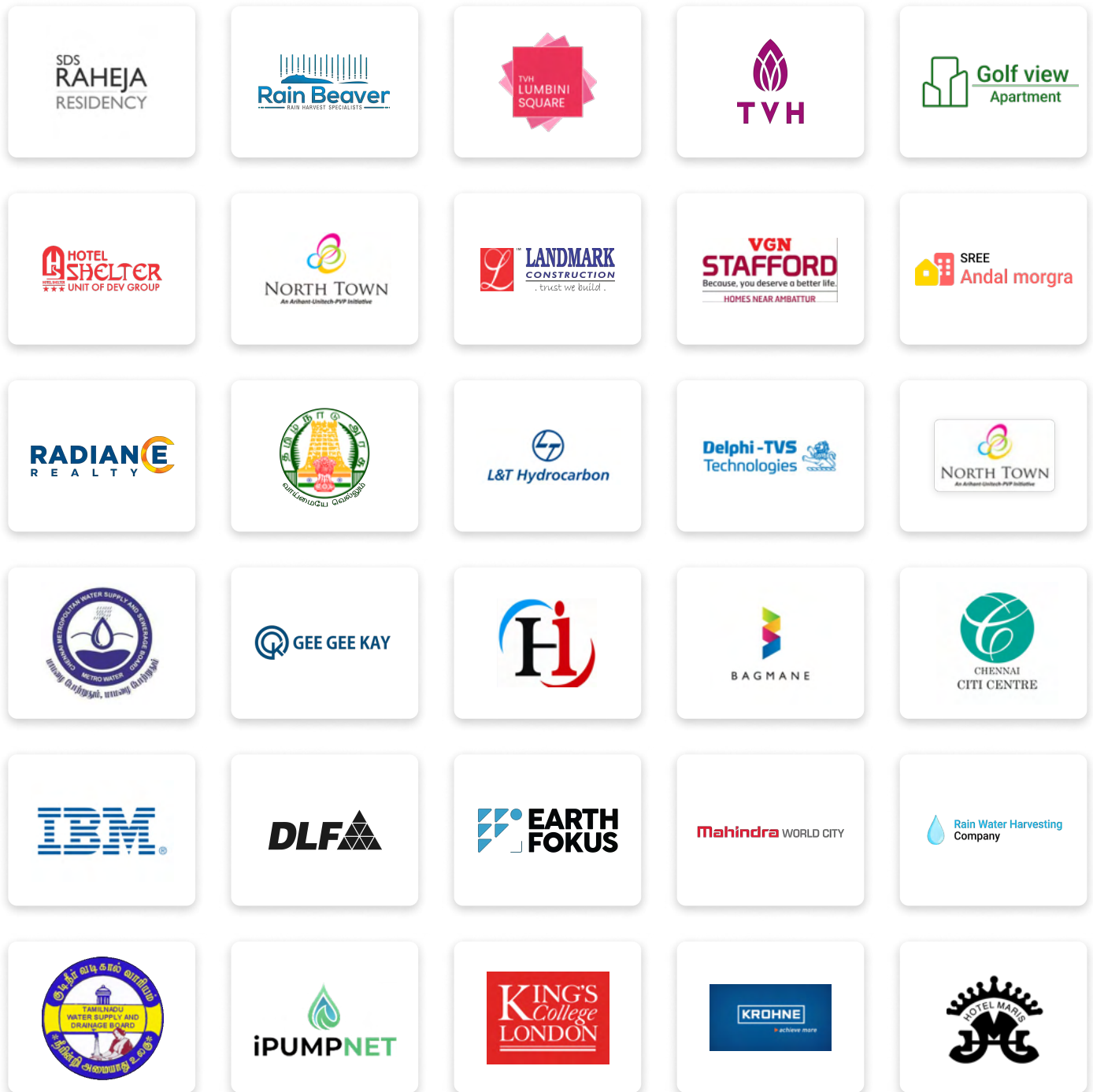
Conveniently control operations from anywhere using Android or iOS devices with an intuitive and user-friendly interface.



Our Valued Clients



KarIoT is building robust and enduring relationships with our clients, which is pivotal in driving our growth and sustaining success. We take pride in our solution which is designed to streamline water management and deliver exceptional performance in diverse environments.





Save every
drop
with
kariot Technology!

400+
Installation

100+
Clients
(All Sectors)

350+
Flowmeters

100+
Sensors

950MLD+
Real-time Data Capture



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