



SMART WATER MANAGEMENT FOR FACILITIES

aquaFACILITY

powered by aquaWISE

www.vassarlabs.com

GOALS

About Us

Founded in 2014 by MIT and IIT Alumni, Vassar Labs is a company of 370 plus dedicated climate tech warriors. Vassar Labs leverages technologies such as IoT, AI, GIS, Cloud Computing, Remote Sensing, Big Data, and Digital Twins to build solutions for effective monitoring and management of Water, Power, Disaster, Agriculture, and Smart Cities.

Why Choose Us?

aquaFACILITY aims for water neutrality by balancing consumption with water saved, reused, or replenished. It promotes efficient use through advanced monitoring, ensures regulatory compliance, and supports STP management, rainwater harvesting, and groundwater management, contributing to sustainable water ecosystems and long-term water security.



Water Neutrality



Efficiency



Sufficiency



Compliance



Advisories

Digital Twin for Real-Time Monitoring

Digital Twin



A digital replica of the facility's water system is created to monitor supply, storage, and utilization. Real-time visualization of these operations enhances overall operational visibility.

Source Water Monitoring



Track water quality using sensors to monitor the health of water from various sources, including groundwater, rainwater harvesting, and municipal supplies, ensuring balanced water usage across the facility.

Water Storage Monitoring



Monitor and manage water sourced from different tanks/ water storage structures within the facility. .

Water Quality Monitoring



Track essential water quality parameters like pH, Turbidity, CL, etc to ensure safe and clean water supply

Waste Water Management



Monitor and optimize treatment of sewage and grey water within the facilities, improving efficiency, and reducing environmental impact by recycling and safe discharge.



Water Reuse & Optimization



Optimize water reuse with analytics on recycled water for facility's use, measure water loss and effectively conserve and reduce strain on freshwater resources.

Audit and Analytics

Water Usage Trends



Analyze water usage patterns throughout the facility, identifying trends that inform better strategies to optimize resource allocation for pools, gardening, cleaning, and more.



Leak Detection System



Detect and pinpoint leakages in real-time to minimize water wastage, supporting water neutrality within the facility.

Demand Forecasting



Analyze historical data to forecast future water demand block-wise at facilities like IT parks, societies etc.

Water Auditing



Monitor and analyze the amount of water collected and used across various facility functions, including pools, gardening, and cleaning activities ensuring efficient water management and resource utilization.

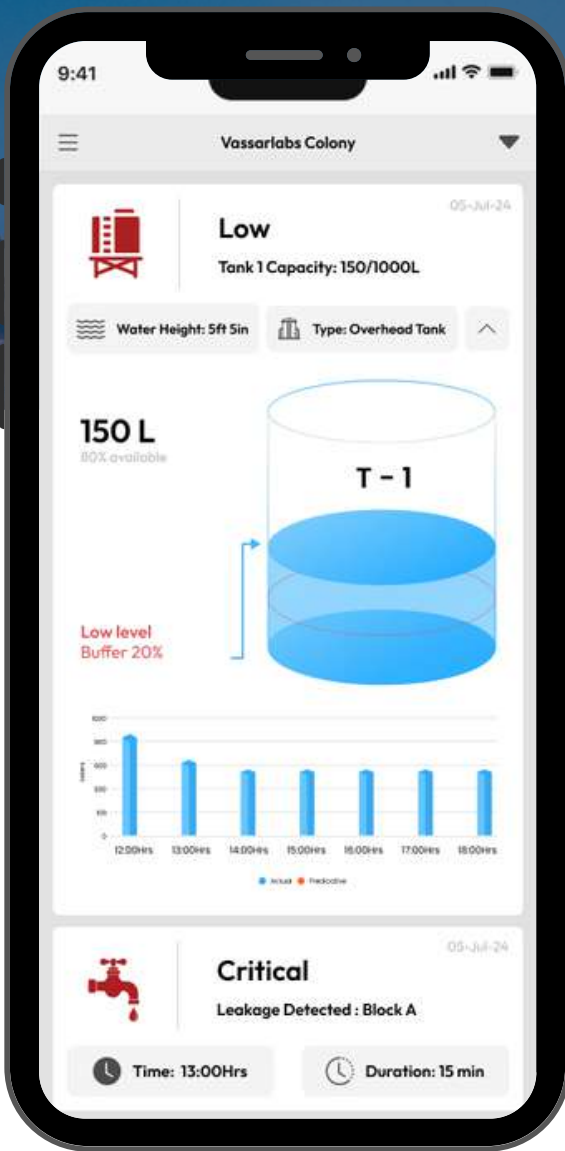
Automated Asset Control



Enable automated control of water management systems, including pumps and sensors, across the facility to enhance operational efficiency and reduce manual intervention.



Compliance



Regulatory Compliance Tracking



Integrate end-to-end digital workflow for new connections, manage existing customers and track SLAs & KPIs in realtime.

Alerts and Notifications



Provide timely alerts for excess water usage, low tank levels, potent leakages etc.

Asset Health Monitoring



Get predictive maintenance alerts on the remaining useful life of assets like pumps, valves etc deployed across the facility. Detect anomalies and potential equipment failures.

Facility Benchmarking



Compare your water utilization against similar facilities to evaluate performance and identify opportunities for improvement.

Optimization Models

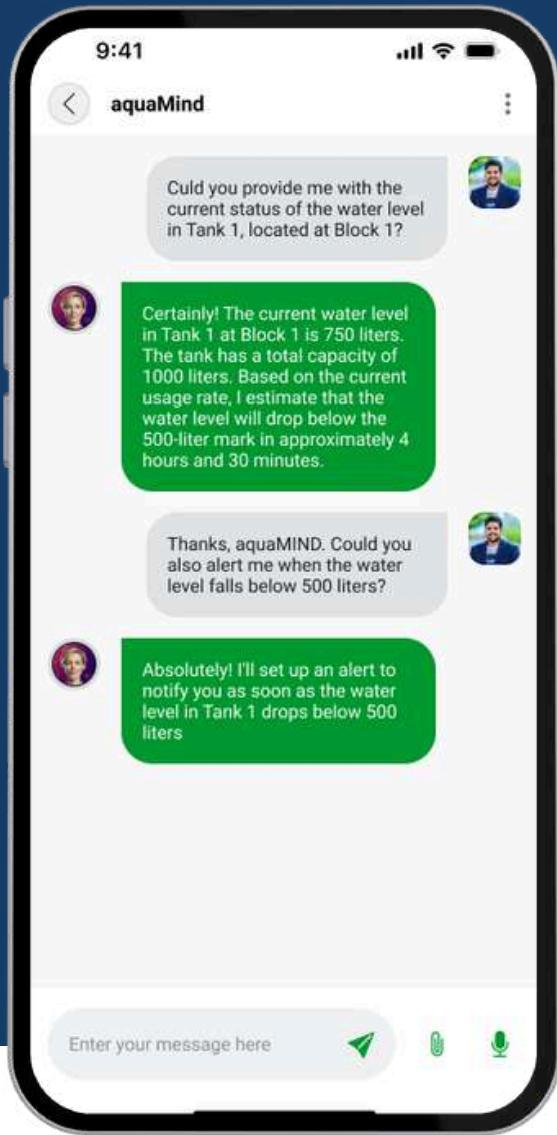


Assists in efficient resource allocation, leak detection, and cost minimization while ensuring regulatory compliance. Enhances demand forecasting, and optimizes resource use.

Customer Grievances



Real-time tracking and allocation of grievance requests to service professionals. Admins can track real-time progress.



GenAI Assistant for Water Management

aquaMIND is a GenAI-based smart co-pilot that provides real-time insights into water availability, demand, supply, and usage across the facility at any given time

On Demand Queries



Ask aquaMIND about any queries from the whole water network, be they about connection, grievances, asset monitoring, etc.

Listening Mode



The co-pilot can also be a listening assistant that transcribes meetings, creates reports, and corrects facts. It sends reports about water demand, availability, and usage directly to your mobile phone.

Real-time Alerts



Get near-real-time alerts on water leakages, along with location of the leak detected, also get insights into any asset that might have malfunctioned.

Hourly Updates



Hourly updates regarding the status of water across all active connections network along with insights on key events of past hour.





aquaFACILITY

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