

USE CASE

IoT in Water Management

Adding IoT devices can help improve the health, management and planning for water utilities.

The problem

The survival of humanity depends on the availability of water resources. Water stress has fast become a major cause for concern in various regions, largely due to decreasing freshwater reserves.

Water shortages are a reality and there is a real need to better monitor the usage, supply, and treatment of both supply water and waste-water networks. Many challenges arise in the cleaning and treatment of water to be safe for human consumption, such as:

- Undetected equipment failures
- Undetected pipe leaks
- Accessibility and management of remote rural treatment sites
- Bacteria monitoring and control
- Monitoring and record keeping

The solution

Digitization of the water industry is a must via the use of smart sensors across all areas of its water networks.

IoT has been a pioneer in developing solutions that are rich in monitoring, analytical, and automation features.

Ultimately, these innovative features allow industries to optimize operational methodologies, boost overall equipment effectiveness, and automate processes that are generally performed manually.

Our end-to-end IoT solution makes provision for multiple monitoring points enabling the effective management of the storage, distribution, supply and treatment of water.

Unique benefits of the solution

1

Custom Alerts

We enable you to customize alerts for all the conditions you care about. Decide which unusual conditions trigger a text, email, or call alert.

2

Prevention Power

We enable you to identify problems immediately and avoid setbacks that could have a severe impact on your bottom line. Our remote monitoring gives you the real-time status of each part of your operation, instantly.

3

Simple Automation

We provide an easy to use solution that allows you to manage a range of dispersed devices.

4

Scalable

We enable you to grow your system as your operation grows. Our remote monitoring solutions have delivered millions of readings.

USE CASE

How IoT can make Water Management Effortless

IoT Solutions, such as **Hellothing** can help prevent the waste of one of our most precious resources, help keep workers safer and more productive, and prevent contaminants from reaching consumers.

Water management actions taken today will determine the sustainability of our quality of life, the global economy, and our ability to adapt to a changing environment.

What we measure

In order to properly monitor water quality, the following need to be monitored:

- Water level, Pressure, Temperature
- Flow speed, leaks
- Suspended solids
- BOD and COD (Biochemical and Chemical Oxygen Demand)
- Ammonium, nitrates and phosphorus
- Conductivity
- pH level

Benefits of a Connected Smart Water solution

- **Preventative Maintenance** - Based on detection of out of spec values and analytics. Identify future problem areas before they cause down time.
- **Critical Alarms** - The monitoring of various sensors will allow you to configure alerts for predefined conditions and will notify key personnel by email or text message should any threshold be exceeded.
- **The Asset Management Portal** - Monitoring a water plant will result in live updates on the Hellothing platform. Analytics are performed using the current and historic trends on the various dashboards provided by the water management portal. The portal is secure and allows user entry on different permission levels.

Our Customers Include:



HOSHIZAKI



Scotsman
Ice Systems