



# Understanding water usage is the first step to solving water scarcity

Even Saudi Arabia's extremely harsh climate is no problem for Saft's high performance batteries.

## Key benefits for IoTsens

- Performance, reliability and long-life of LSH 20 cells in harsh outdoor conditions enabled IoTsens to meet the project's return on investment requirements.
- Risk mitigation by selecting a field-proven Saft solution for wireless metering applications.

## Saft solutions features

- High and stable operating voltage
- Wide operating temperature range (-60°C/+ 85°C) compatible with all outdoor conditions.
- Unique customer support with an application engineering team that provides comprehensive and bespoke technical solutions, including lifetime calculations based on Saft's proprietary model

## The challenge: Providing reliable power for data loggers in harsh environments

IoTsens creates and develops integrated solutions for Smart Cities including the 'Watchmeter' that enables customers to monitor their own water consumption. This data logger has an exceptional monitoring frequency of up to 50 Hz and enough storage to track more than one million events.

The Watchmeter is being used to record water consumption data as part of a vast project in the Kingdom of Saudi Arabia (KSA) that

aims to optimize and streamline consumption of the country's drinkable water, as this critical resource becomes increasingly scarce.

The success of the project depended on IoTsens finding the right power source that would enable the Watchmeter to function reliably in the tough outdoor working conditions found in the KSA.

## The solution: Saft's high power 3.6 V primary lithium batteries (Li-SOCl<sub>2</sub>)

IoTsens identified Saft's LSH 20 primary

lithium battery as the ideal solution thanks to its exceptional pulse capability and long design life that builds on Saft's 30-year plus expertise in Li-SOCl<sub>2</sub> technology. The LSH 20 also has the proven capability to deliver high performance over the wide operating temperature range in Saudi Arabia.

*“We needed a solution that could work in the tough conditions experienced in Saudi Arabia. Saft's unique LSH 20 cells were simply the only solution.”*

**Miguel Angel Royo, CEO of IoTsens**



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