



Reliable power protects Saudi Arabia's water resources

Saft batteries are reliable power supply for wireless monitoring systems

Key benefits for IoTsens

- Proven reliability in harsh environment
- High quality and in real time information on water usage
- ROI objectives met with liters of water saved
- Risk mitigation with the choice of mature technology

Features of Saft's power solution

- Wide operating temperature range (-60°C / +85°C)
- High pulse capability allowing frequent transmissions
- Proprietary mathematical model gives accurate lifetime calculation
- 30-year track record in Li-SOCl₂ primary lithium battery technology

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

Because drinking water is a scarce resource in Saudi Arabia, the country's government has established a project to optimize and streamline consumption. An important part of this is the network of Watchmeter data loggers supplied by IoTsens, that creates and develops integrated solutions for smart cities.

By sensing and monitoring high-frequency vibration in the water distribution

network, the Watchmeter units monitor consumption patterns without having to break into water mains to install an inline meter. The result is that customers can monitor and control their own consumption.

However, the Saudi climate represents a challenge as heat causes many batteries to experience premature ageing.

The solution: Saft's high power LSH batteries

IoTens turned to Saft's high-power

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-SOCl₂ technology. The LSH 20 also has the proven capability to deliver high performance over extreme temperatures in tough and remote environments.

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

Ignacio Llopis,
Managing Director of IoTens



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