



# Smoothing the flow of parking navigation in smart cities

Mathematical modelling allows smart cities to reduce CO<sub>2</sub> emissions while enhancing parking experience

## Key benefits for Urbiotica

- Minimized CAPEX as no installation of cabled power system
- Fit & forget solution thus reducing OPEX
- Risk mitigation with the choice of a mature technology
- Reliable solution even in tough environment

## Features of Saft's power solution

- Proposition of a comprehensive and bespoke technical solution including reliable lifetime calculation
- Unrivalled reliable solution requiring no maintenance
- 30-year track record in Li-SOCl<sub>2</sub> primary lithium battery technology
- Wide operating temperature range (-60°C / +85°C)

## The challenge: Delivering reliable, lifetime power with ultimate cost efficiency

Searching for a parking spot can be a major headache, which is why a logistic centre in Spain's capital city of Madrid implemented a smart parking approach for its 1,000 employees. Supplied by the Internet of Things (IoT) company Urbiotica, the system uses a network of sensors, routers and dynamic signage to guide drivers to unoccupied parking spots. In turn, the system

saves time for employees and improves working environment. Success depends on a reliable source of power for Urbiotica's wireless U-Flow parking space sensors. Urbiotica had to develop an autonomous, long life and reliable solution that offered the lowest TCO for the customer, avoiding the expense of installing power cables.

## The solution: Saft's LS long-life batteries

Since any need to replace batteries in the field would lead to high operating

costs, Urbiotica selected LS 33600 primary lithium batteries, after its mathematical model showed that it would operate without fail throughout a long service life, even in tough environments. This has helped to achieve the objectives of CAPEX, OPEX, and lowest possible TCO for the parking owner.

“*Our mission is to improve quality of life in smart cities based on our wireless integrated solutions. With Saft's proven experience in battery technology, we are able to provide our customers with the lowest Total Cost of Ownership.*”

**Josep Maria Torras, CEO of Urbiotica**



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