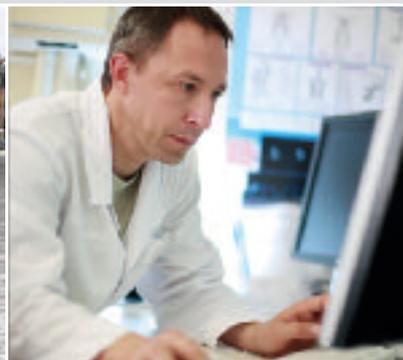




E-supervision helps Sodetrel optimise its ferryboat battery systems +



Electric mobility operator keeps operating costs down and extends lifetime with Saft's web-based monitoring and diagnostics tool.

The customer

Sodetrel is a leader in electric mobility. The subsidiary of EDF is responsible for the operation and maintenance of a fleet of electric cars, trucks, buses, trains and ferry boats across France, as well as electric vehicle charging infrastructure.

The fleet includes the lithium-ion (Li-ion) battery systems on two diesel-electric hybrid shuttle boats on the Garonne river in Bordeaux, which are equipped with Saft Li-ion battery packs, each capable of storing up to 70 kWh to provide six hours of autonomous, fully-electric operation with the objective of ensuring low emissions of CO₂, NO_x and SO_x and reducing diesel consumption.

Key features

- Real-time access to key operating data
- Simple access to historic operating data
- Enables easy analysis of trends
- Creates alerts highlight any performance issues

Key benefits

- Minimises Total Cost of Ownership of battery systems
- Minimises emissions by reducing reliance on diesel engine
- Identifies potential problems early to avoid outages
- Optimises servicing by specialist technicians





Real-time supervision and proactive maintenance

A key driver for Sodetrel is to maximize and optimize the use of the sophisticated battery systems and ensure reliable operation.

Sodetrel already operates a successful web portal for real-time online supervision and management of its electric vehicle charging points.

It wanted to emulate the approach for the battery systems on board its electric ferryboat services in Bordeaux.

Online E-supervision portal

Data collectors integrated into the batteries on board the two catamaran shuttles collect data and transmit it to Saft via GPRS communication.

This enables real-time access to key battery operating data from any location via PC, tablet or smartphone.

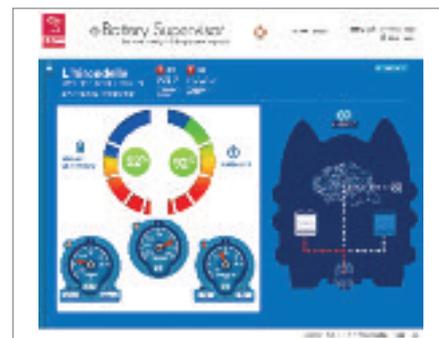
The web-based E-supervision tool gives Sodetrel access to vital battery information such as state of charge (SOC),

GPS location, available power, voltage and temperature, meaning that Sodetrel's maintenance team can monitor any unusual behaviour and flag an alert. Monitoring the status and behaviour of the battery systems gives Sodetrel's technicians deeper understanding of their operation, enables proactive support and improved diagnostics.

only when required rather than when dictated by routine calendar visits. Second, battery health and performance data can be used to adjust the operating regime of the ferry boats so that charging and battery operation is optimised for long battery life.

Minimising Total Cost of Ownership (TCO)

The E-supervision tool is enabling Sodetrel to optimise the TCO of the sophisticated Li-ion battery systems in two ways. First, remote monitoring reduces costs as technicians visit site



"Saft's E-supervision means that Sodetrel can monitor its operation remotely to ensure that the batteries operate with maximum performance, safety and reliability while driving down service costs."

Saft's vision for service

Saft has always been known for the quality and technology of its products. These are now complemented with quality and timely service of battery systems. Training, installation, maintenance, fleet management and e-supervision are all included under Saft's growing 'Service' umbrella.



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