

XGARD BRIGHT WITH MPS SENSOR PROVIDES HYDROGEN DETECTION IN ENERGY STORAGE APPLICATION

CASE STUDY

SAFT has been energising the world for over 100 years, their longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers. Since 2016, SAFT has been wholly-owned subsidiary of TotalEnergies, a broad energy company that produces and markets energies on a global scale. As a leading battery company, SAFT's innovative, safe, and reliable technology delivers high performance on land, at sea, in the air, and in space. SAFT approached HYNN a national high-tech enterprise with collection of research and development, manufacturing, sales and services departments, as the equipment integration supplier.



WORKERS ARE EXPOSED TO A HIGH RISK OF HYDROGEN LEAKAGE AS A RESULT OF THE HIGH-ENERGY DENSITY STORAGE SYSTEM

The Need

As a battery manufacturer, workers are exposed to a high risk of hydrogen leakage as a result of the high-energy density storage system (ESS), in which battery explosion would lead to catastrophic consequences. Hydrogen gas is explosive at only 4% by volume in air, and most battery storage and charging facilities are enclosed areas. A poorly ventilated battery storage area can quickly lead to a dangerous situation when these minor hydrogen levels are attained. Properly implemented gas detection technology will increase safety and meet and exceed safety expectations in these areas.

SAFT needed gas detection technology, in their battery system cabin, that could provide accurate measurements along with fast response times, that is configured with online fixed detectors to provide early alarms in which can give a signal to an external fire protection system to disposal and reduce the loss.'



MPS™ PROVIDES A SOLUTION FOR HYDROGEN DETECTION WHILST REMOVING THE CHALLENGES OF TRADITIONAL SENSOR TECHNOLOGY.

The solution

Combined with an external fire protection system, our Xgard Bright with MPS™ sensor provides a solution for hydrogen detection, and the challenges faced with traditional sensor technology are completely removed. It is a long-life hydrogen sensor that does not require calibration throughout its life cycle, carries no risk of poisoning or false alarms, thereby ensuring working environments in SAFT's battery system cabin are continuously monitored to reduce the risk of fire. Coupled with the 5-year warranty coverage of the MPS™ sensor and its maintenance- and calibration-free nature, XGard Bright provides SAFT with a fixed detector that could be installed in place where it was required and can be left undisturbed for years at a time, without compromising safety or their own peace of mind.



A LONG-LIFE HYDROGEN SENSOR THAT DOES NOT REQUIRE CALIBRATION THROUGHOUT ITS LIFE CYCLE, CARRIES NO RISK OF POISONING OR FALSE ALARMS.

The outcome

SAFT required gas detection technology, in their battery system cabin, that could provide accurate measurements along with fast response times, that is configured with online fixed detectors to provide early alarms in which can provide a signal to an external fire protection system to disposal and reduce the loss. Our Xgard Bright with MPS™ sensor provides a solution for hydrogen detection, along with challenges from a traditional sensor technology being completely removed. With a long-life hydrogen sensor that does not require calibration throughout its life cycle, carries no risk of poisoning or false alarms, provides safe working environments through continuous monitoring to reduce the risk of fire.

XGard Bright provides SAFT with a fixed detector that can be installed in place where it was required and can be left undisturbed for years at a time, without compromising safety or their own peace of mind.



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 **CROWCON**
Detecting Gas Saving Lives