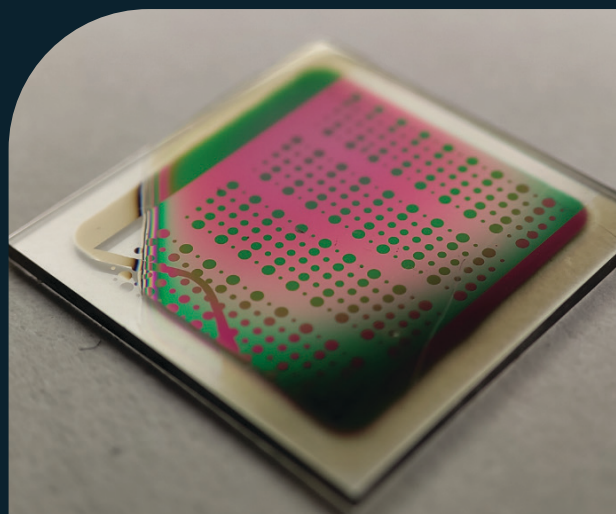


Our innovative battery technology is designed to power sensors and devices in the most demanding environments, ensuring reliable performance and seamless connectivity.



### Partners



# OXYBATT

Beat the Heat



### Get in touch



[www.oxybatt.com](http://www.oxybatt.com)

European  
Innovation  
Council



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**High-temperature  
oxygen batteries**  
for Industrial Internet of Things.

*The Industrial Internet of Things (IIoT) is transforming industry as we know it. By integrating connectivity, real-time reconfiguration, and controlled production, IIoT is enhancing safety and boosting productivity across various sectors. However, IIoT solutions can nowadays not be applied in harsh environments such as energy-intensive processes due to safety concerns and technical limitations.*

The EU-funded project OxyBatt will enable IIoT and Industry 4.0 approaches in diverse industrial settings where traditional IIoT solutions fall short.



### High Temperatures

HT-OIBs can continuously operate at higher temperatures between the range of 200° and 400°C, without the need for costly and heavy cooling systems.



### Safety

Our batteries present an all-solid state architecture based on ceramic, non-flammable materials, eliminating safety concerns.



### Integrable

We use advanced thin-film technology to achieve a miniaturized, lightweight design that can easily be integrated for powering IIoT devices.



### Maintenance Free

HT-OiBs work just like any other rechargeable battery. Uniquely to HT-OiBs, at the end of life the initial performance can be easily restored by exchanging oxygen with the atmosphere, ensuring exceptional device lifetime.



### Minimized environmental impact

Energy is stored in the form of oxygen ions, with no use of scarce and geolocalized elements such as Li and Co, a current concern for the EU.



### Storage Capacity

The energy storage capacity is comparable to state-of-the-art Li-based batteries.

*During the project, the product will be integrated into a commercial IIoT device demonstrating the potential to enter the important market of predictive maintenance in harsh industrial environments as a safe and sustainable solution.*



### Smart piping

HT-OiBs enables the implementation of sensing devices for pipe health management or control of operation and the access to previously inaccessible data.



### Aeronautics, aerospace and automotive

Implementing HT-OiBs allows for the monitoring of currently inaccessible information.



### Oil and gas drilling

HT-OiBs enable the use of electronic sensors or gauges for measurement-while-drilling (MWD) and logging-while-drilling (LWD) applications.