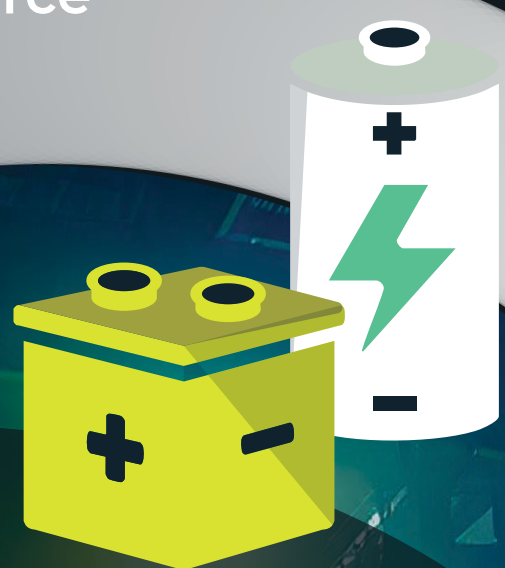


Batteries are the silent driving force behind our daily life activities.

In some conditions, however, the use of traditional batteries is not possible.

**Harsh operating environments** and **high temperatures** require new portable battery solutions.



**BATTERY GLOBAL MARKET**

**90%**

+\$64,84 Billion in 2023

CAGR 23,33% from 2024 to 2032

**LI-BASED BATTERY MARKET**

**HIGH-TEMPERATURE BATTERY MARKET**

**PORTABLE BATTERIES OPERATING RANGE**



**10%**

+\$442 Million by 2028

CAGR 6,4% from 2022 to 2028

High-temperature limitations for batteries



**SIZE**



**SHORT BATTERY LIFE**

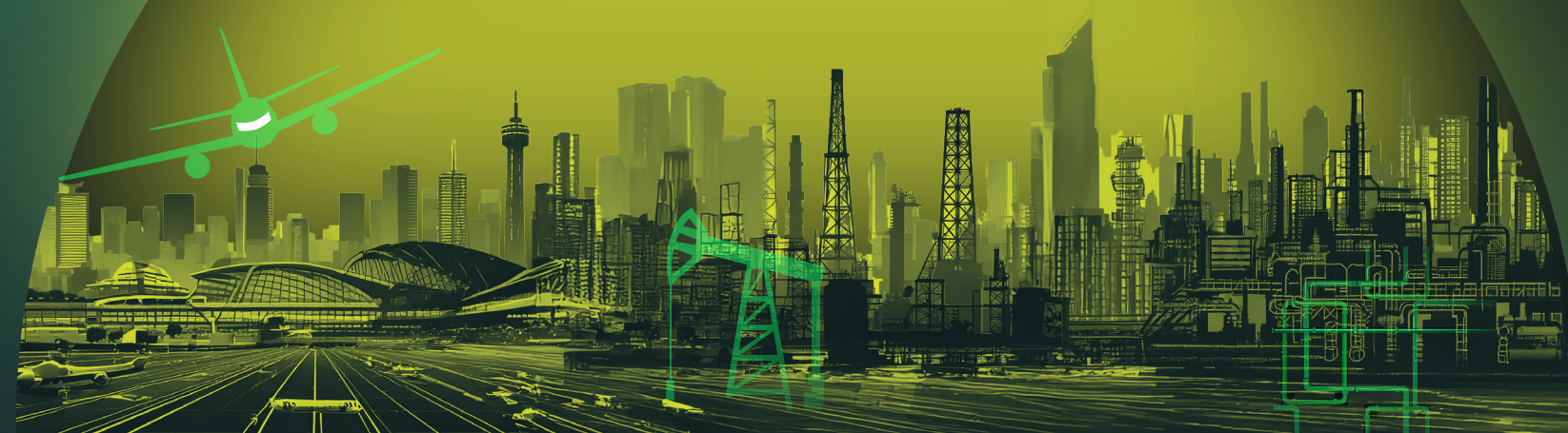


**HIGH COSTS**



**SAFETY**

These limitations prevent the use of batteries in energy-intensive industries.



**+100K factories**

around the world need to implement predictive maintenance systems.

Nowadays, over 100k factories globally are not able to adopt tools for predictive maintenance and process monitoring due to the lack of sensing solutions capable to withstand harsh environments with high temperatures. These processes include manufacturing of iron, steel and cement, chemical and petrochemical products, etc.

**Additional application scenarios**



**Aeronautics and aerospace**



**Automotive**



**Smart piping**



**Oil and gas drilling**



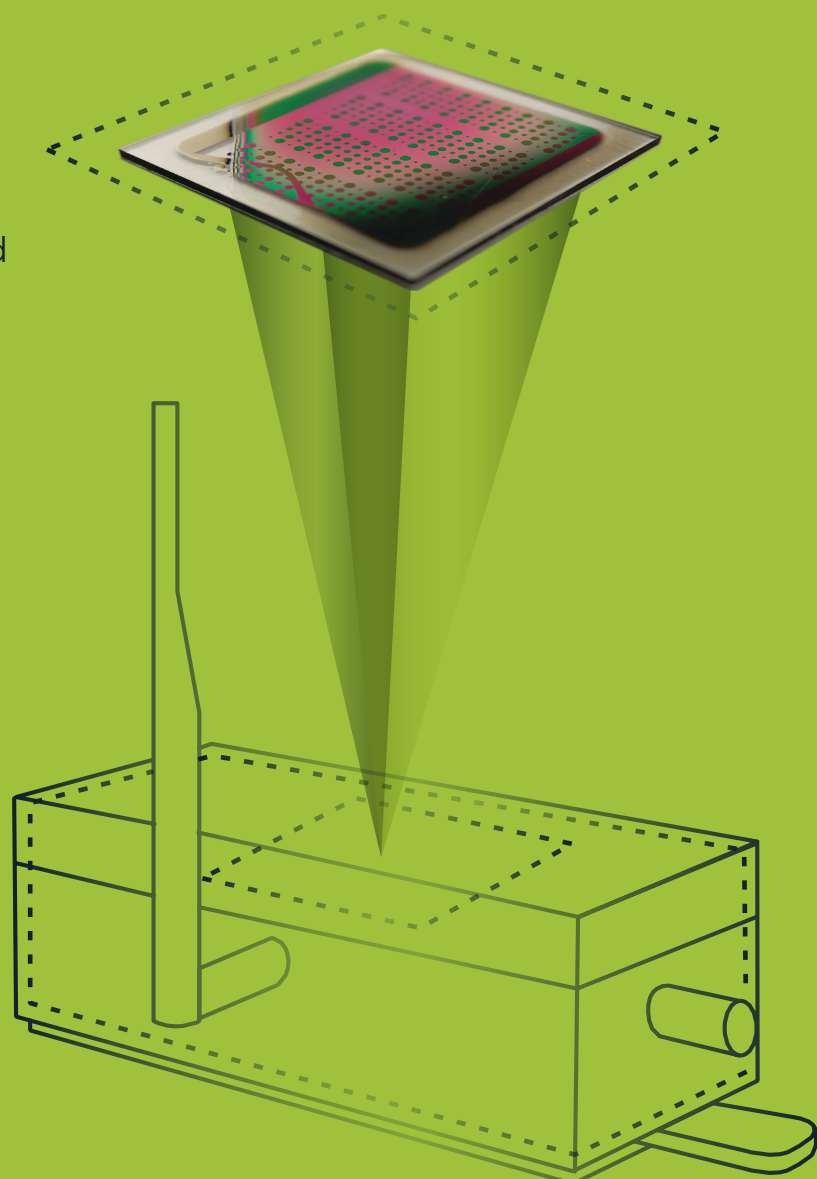
**OXYBATT**

OxyBatt is a EU funded project that aims at the development of a rechargeable high-temperature oxygen-ion battery (HT-OiB) that operates safely and continuously between 200°C and 400°C.

The battery is portable and will be able to operate under vibrations and moisture.

HT-OiBs are the ideal candidate for powering the new generation IIoT (Industrial Internet of Things) solutions for harsh industrial settings.

OxyBatt's HT-OiB will enable process monitoring in harsh industrial environments, offering a safe and sustainable solution for the important market of predictive maintenance based on modern IIoT (Industrial Internet of Things).



**We develop unique high-temperature batteries designed for the Industrial Internet of Things.**

**Predictive Maintenance is key:**

**-30% maintenance costs**

**-70% breakdowns**

**-40% downtimes**

**Partners**



**Get in touch**

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



European Innovation Council  **Funded by the European Union**

The Oxybatt Project was funded by the EU Commission in the framework of the Horizon Europe – EIC Transition Open programme. Grant agreement 101158721