

ADVANCING TECHNOLOGY TOGETHER

CBI IS ALWAYS EXPLORING NEW PARTNERSHIPS TO PUSH THE BOUNDARIES OF LEAD BATTERY RESEARCH TO SUPPORT CLIMATE ADAPTATION OBJECTIVES AND FACILITATE THE ROLL-OUT OF SUSTAINABLE ENERGY STORAGE FOR KEY FUTURE BATTERY MARKETS.

The Consortium for Battery Innovation (CBI) thrives on support from stakeholders to drive advancements in lead battery technologies that address global energy challenges. Our stakeholder-supported projects aim to improve battery performance, reduce costs, and promote environmentally friendly solutions.

By collaborating with industry leaders, academic institutions, and government bodies, CBI implements cutting-edge technologies and innovative approaches for overcoming technical and economic challenges associated with energy access, clean cooking solutions, agricultural productivity and long-duration energy storage.

Together with a diverse range of stakeholders, we are setting new standards in the lead battery industry by creating reliable, resilient, and sustainable energy solutions.

CONSORTIUM FOR BATTERY INNOVATION:

STAKEHOLDER-SUPPORTED PROJECTS

FORMING PARTNERSHIPS FOR BATTERY INNOVATION

100+

STAKEHOLDERS
COLLABORATING
ACROSS ALL
PROJECTS

€25M

RECEIVED IN
FUNDING

8

AWARDS FOR
TECHNOLOGIES
IN DEVELOPMENT

MESCH

Funding: Innovate UK
Duration: April 2024 - April 2026

MESCH will develop a modularised hybrid energy storage system with battery-electrolyser technology for hydrogen production, providing electricity and clean cooking fuel supply. The system will be tested in Bulgaria and installed at a hospital in Malawi to minimise disruption to essential lifesaving services and reduce indoor air pollution during cooking.



LOCEL-H2

Funding: Horizon Europe
Duration: January 2023 - December 2026

LoCEL-H2 is developing a new solution to increase energy access in remote communities.

It comprises a prosumer solar microgrid, HPPL lead battery energy storage system and lead battery-electrolyser for hydrogen production, providing renewable electricity and clean cooking fuel with minimal environmental impact.



AFTRAK

Funding: Innovate UK and Milken-Motsepe Prize in Green Energy
Duration: April 2023 - April 2024

Aftrak is a green electricity solution for rural communities that combines a solar energy microgrid with a micro electric tractor for land preparation, supported by advanced lead battery energy storage systems. The system has been successfully deployed in Malawi and is expected to significantly increase crop yields and smallholder incomes.



CONSORTIUM FOR LEAD BATTERY LEADERSHIP IN LDES

Funding: U.S. Department of Energy
Duration: January 2023 - December 2026

The Storage Liff project includes techno-economic analysis, materials science research, and battery testing to improve lead battery performance to achieve the Long Duration Storage Shot described as 10+ hours of storage at \$0.05/kWh Levelized Cost of Storage by 2030.



U.S. MILITARY MICROGRID

Funding: U.S. Department of Defense
Duration: January 2021 - May 2023

The project developed transportable and robust lead battery energy storage systems that can be integrated into military microgrids.

These systems were designed to ensure a reliable energy supply for tactical operations, enhancing the resilience and efficiency of military bases worldwide.

