



CONSORTIUM FOR
**BATTERY
INN+VATION**

**Membership brochure:
advanced lead battery
research and innovation**

The Consortium for Battery Innovation

The Consortium for Battery Innovation is the only global pre-competitive research organization funding innovation in lead batteries for all applications, from energy storage and automotive, to industrial and motive power.

Our work

+ Research

Improving lead battery performance through pre-competitive research

+ Testing/Standards

Ensuring lead battery merits are recognised in key global tests and standards

+ Marketing

Improving recognition of lead battery benefits by end-users in all applications

+ Communications

Demonstrating innovation in lead batteries and the key role the technology will play in meeting future electrification and decarbonization goals

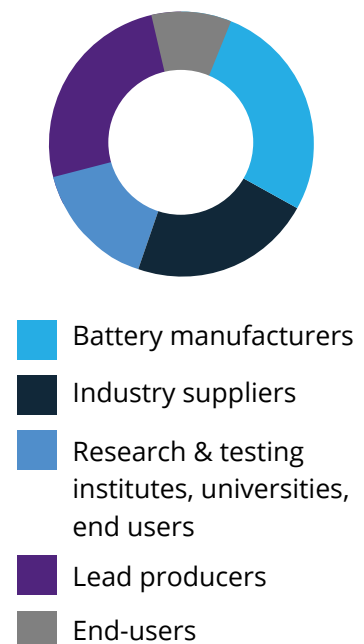
Membership

Our membership comprises the whole value chain associated with lead batteries, with over 100 members globally.

Map of members



CBI member representation



Benefits of membership:

Research

- + Access to cutting-edge research and innovation in lead battery technology at a fraction of the cost of dedicated in-house research programs
- + Opportunities to form collaborative partnerships with lead battery manufacturers, suppliers and world-leading research institutes
- + Ability to submit projects for funding from CBI core research program
- + Opportunity to become involved, and in some cases obtain funding, through government funded projects such as in Europe and the U.S.
- + Access to over 25 years of lead battery research

Networking & Communications

- + Excellent networking and engagement opportunities worldwide with the lead battery industry, with regular meetings and workshops held in Europe, North America and Asia
- + CBI membership is an excellent way of promoting your company and raising awareness of your work to the lead battery industry
- + As a member, CBI is able to promote your company and work through our communications program, including videos, blogs and articles

Membership benefits

- + Access to annual CBI market data report
- + Opportunity to actively participate in CBI committees and drive the direction of Consortium work
- + CBI members are helping to ensure a sustainable future for the lead battery industry

Technical Roadmap

In an expansive Technical Roadmap newly launched in 2021, our market-driven research priorities are covering all of the applications of lead batteries.

From increasingly electrified vehicles to renewable energy storage, from industrial batteries for UPS and telecoms to motive power, there is huge potential to enhance the performance of advanced lead batteries.

Feeding directly into the CBI technical program, our members will be contributing to a new level of innovation within the technology.

The Technical Roadmap will drive research and innovation within the advanced lead battery industry to deliver next-generation batteries.

Research objectives

+ **Automotive** (start-stop/micro-hybrid)

Ensure that recent improvements in Dynamic Charge Acceptance (DCA) are maintained, whilst improving high-temperature performance and ensuring no trade-offs in key parameters such as Cold Crank Amps (CCA) and water loss

+ **Automotive** (low-voltage EV)

Improve DCA and charge acceptance, whilst increasing charging efficiency and lifetime

+ **Energy storage systems** (ESS)

Improving cycle life, calendar life and round-trip efficiency whilst reducing acquisition and operating costs

+ **Industrial applications**

Improving cycle and calendar life, whilst reducing battery costs

+ **Motive power**

Lowering total cost of ownership by increasing cycle life, recharge time, and producing maintenance-free batteries

+ **UPS/Telecoms**

Improving cycle and calendar life, whilst reducing battery costs

Leadership

The Consortium is led by scientists with extensive expertise in the lead and lead battery industries. Our expert advisory group is made up of senior battery scientists from across the globe.

Dr Alistair Davidson (Director, CBI)



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“ There are boundless opportunities for advanced lead batteries to play a significant role in the transition to a clean energy future as governments and societies across the globe strive for decarbonization and electrification. By engaging in pioneering research driven by the latest market analysis, members of the Consortium for Battery Innovation are at the forefront of boosting the performance, capability and sustainability of advanced lead batteries. Our research is driving next-generation advanced batteries that tick all of the boxes for a low-carbon future: safe, reliable, fully recyclable, cost-effective and high-performing. ”

Dr Christian Rosenkranz PhD is responsible for the European Industry and Governmental Relations EMEA at Clarios. During his 22 years of industry career, Christian had several assignments with increasing responsibility in the functions of research and development, business development and general management for the European Li-Ion system integration center. Dr Rosenkranz holds a PhD in Electrochemistry and has studied in Hannover and London.

Dr Christian Rosenkranz (Chairman, CBI) Vice President Industry and Governmental Relations EMEA – Clarios



Dr Christian Rosenkranz (Chairman, CBI)



Events

The Consortium for Battery Innovation holds regular global events providing excellent networking and engagement opportunities worldwide with the lead battery industry.

These include:

- + Multiple regional technical workshops per year (US, Europe and Asia)
- + Yearly General Assembly meeting in US and Europe/Asia
- + Meetings organized in combination with global standardization committees such as CENELEC, and European car manufacturers







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Advanced lead batteries: the future of energy storage

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