



CONSORTIUM FOR
BATTERY
INNOVATION



Discover how CBI
is contributing to
**advanced lead batteries
research in the U.S.**

**ELECTRICAL
PERFORMANCE**



**MANUFACTURING
& OPERATION**



**AUXILIARY
APPLICATIONS**

**ARY
ICATIONS**



**RESEARCH &
INNOVATION**



**ENERGY STORAGE
APPLICATIONS**



**ELECTRICAL
PERFORMANCE**

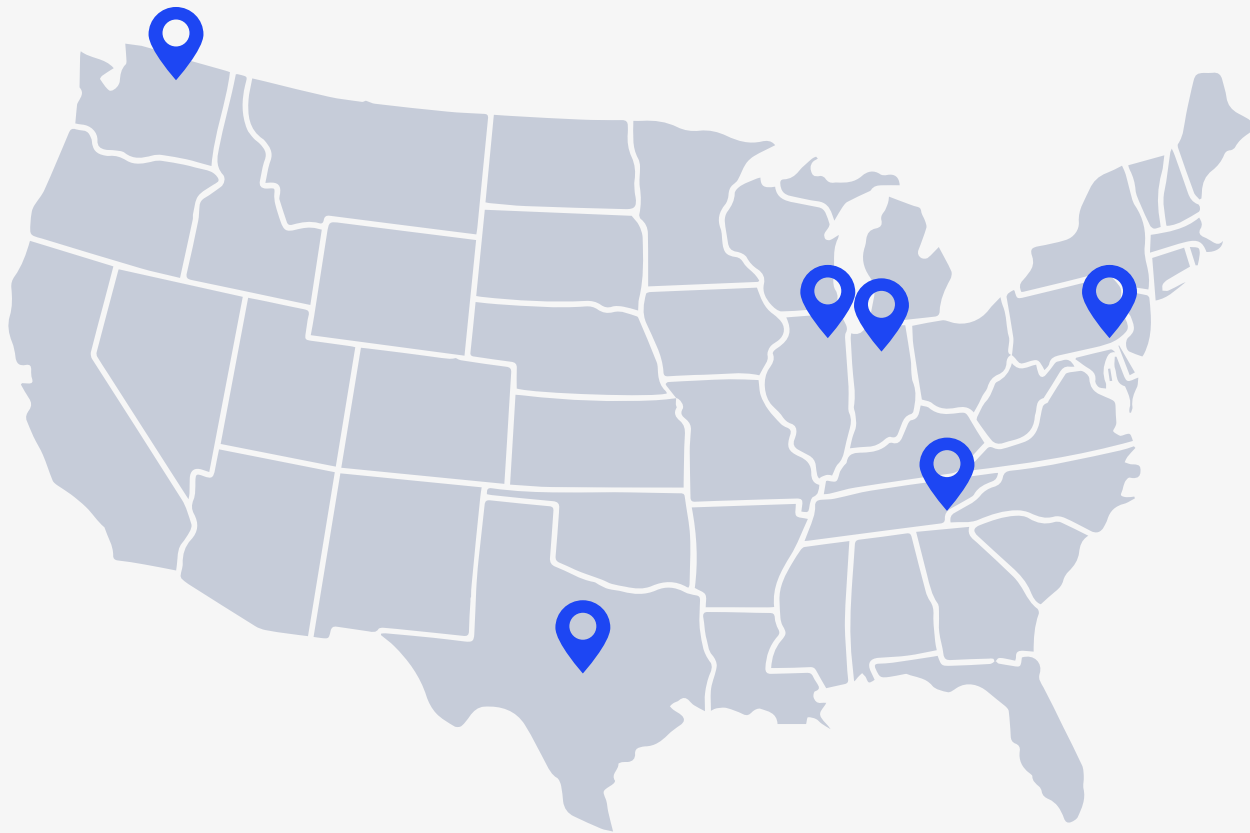


**MANUFACTURING
& OPERATION**



**AUXILIARY
APPLICATIONS**

CBI conducts projects across many different programs. They can be part of the **CBI Technical Program** or **US government funded** work.



CONSORTIUM FOR
BATTERY
INN+VATION-



TECHNICAL PROGRAM



Project Title: Linking Structure, Performance and PAM Integrity in Advanced Lead Battery Designs

Location: Austin, Texas

CBI Members involved: Black Diamond Structures

Duration: 2 years

Focus: Energy Storage Applications



Studying structure and electrical behavior to improve design-performance relationships in lead batteries



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TECHNICAL PROGRAM



Project Title: Mechanical Characterization of Lead Batteries for Energy Storage Applications

Location: Philadelphia, Pennsylvania

CBI Members involved: East Penn and Villanova

Duration: 3 years



New techniques to monitor and analyze lead batteries during manufacturing and operation



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TECHNICAL
PROGRAM



Project Title: Novel Metal Silicates for Enhanced Lead Battery Performance

Location: Hammond, Indiana

CBI Members involved: Hammond and the Bulgarian Academy of Sciences

Duration: 2 years



Looking at additives for the positive electrode for auxiliary applications



CONSORTIUM FOR
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OE 960 (U.S. Energy
Department Program)



Project Title: Consortium for Lead Battery Leadership
(Conducted by Battery Council International)

Location: 3 National Labs (PNNL at Richland, Washington;
ORNL at Oak Ridge, Tennessee; ANL at Chicago, Illinois)

CBI Members involved: Advanced Battery Concepts,
Crown, C&D Trojan, Stryten Energy, East Penn
Manufacturing, Gridtential Energy, Clarios, EnerSys

Duration: 3 years



This project will take US-made
stationary lead batteries and
optimize performance for
resiliency and 10+ hour durations



CONSORTIUM FOR
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U.S. National
Regulatory Commission



Project Title: Feasibility of VRLA in Class 1E

Applications: Qualification, Monitoring, and Failure
Mode Analysis

Location: Rockville, Maryland

CBI Members involved: Enersys, C&D Trojan, East
Penn, Stryten, Hoppecke

Duration: 15 months



Project looking at VRLA in Class
1E Nuclear Backup Apps
(Advisory Group)



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To learn more about
CBI research projects visit
batteryinnovation.org

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