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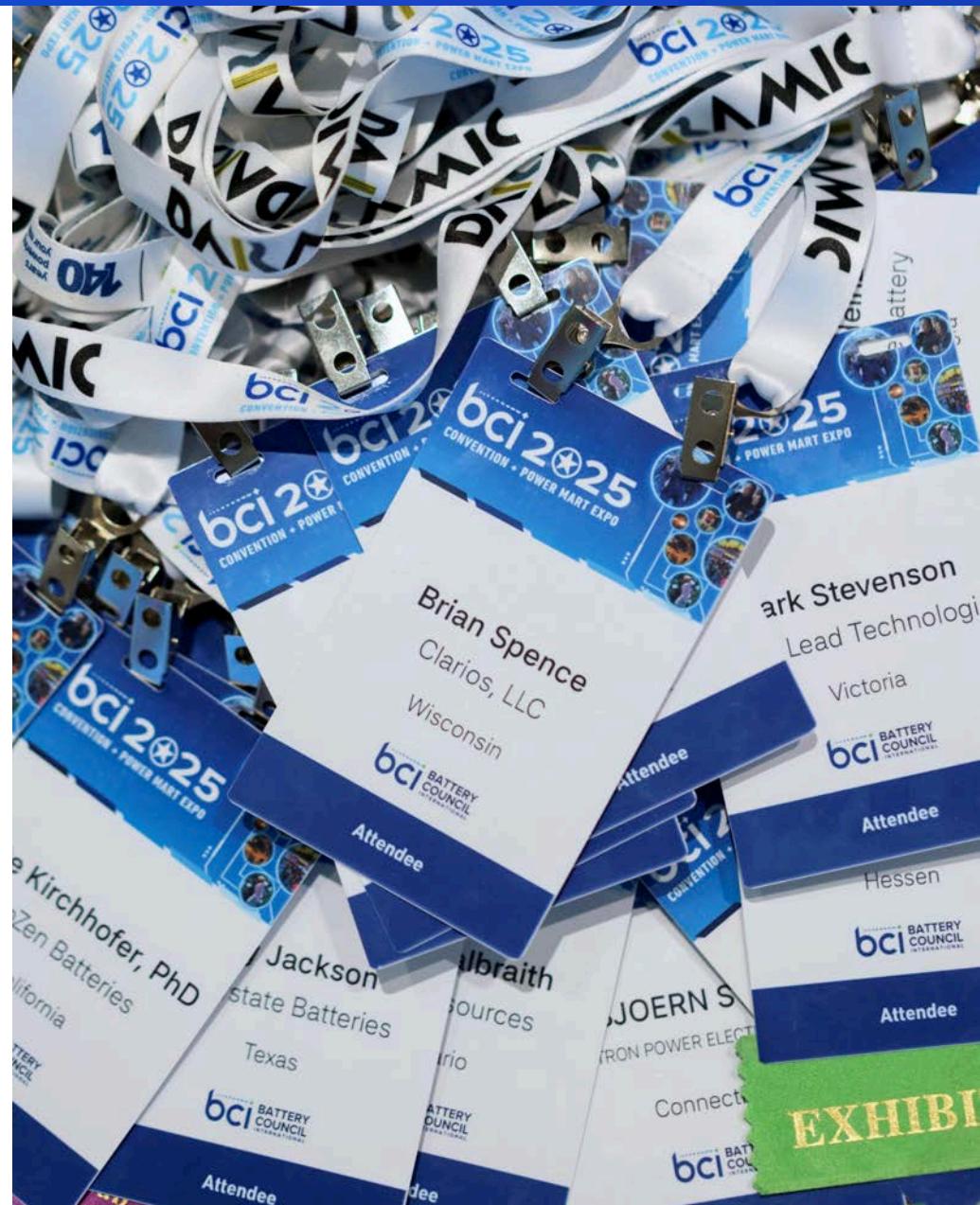
2025 BCI Annual Report



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A Letter From The President

Celebrating five big wins for BCI in 2025

After powering a year of tremendous progress, the industry has a bright future ahead

It has been a landmark year for Battery Council International (BCI) and the entire U.S. battery manufacturing industry. From historic policy wins to groundbreaking research collaborations, BCI continues to lead the charge in advancing energy storage technologies that strengthen America's energy independence, economic resilience, and environmental stewardship.

BCI's achievements in 2025 reaffirm the organization's leadership in powering the next generation of energy storage. As the U.S. battery industry continues to grow and evolve, BCI remains steadfast in its mission — ensuring that American battery manufacturing is safe, sustainable, and globally competitive. Here's a look back at five major achievements that defined BCI's year of impact and innovation.

1. Preserving the 45X manufacturing credit



In a powerful affirmation of America's commitment to domestic energy manufacturing, Congress and President Trump acted decisively in 2025 to [preserve the Section 45X Advanced Manufacturing Production Credits](#) for battery manufacturing as part of the One Big Beautiful Bill Act, signed into law on July 4.

BCI fought long and hard on behalf of our members on this issue, and the final legislation was a vital recognition of the battery industry's strategic importance to U.S. competitiveness and national security, and the ubiquitous need for batteries. The 45X credits have already spurred billions in domestic investment and created thousands of high-quality jobs across the nation.

The preservation of these manufacturing credits sends a powerful message that America is committed to building and maintaining the world's most advanced battery manufacturing ecosystem. These credits don't just support individual companies, they strengthen our entire domestic supply chain and national security.

2. Lead recognized as a critical mineral



Another big policy milestone was the U.S. Geological Survey (USGS) [designating lead as a critical mineral](#) — a long-overdue acknowledgment of its essential role in America's economy and infrastructure.

As the foundation of virtually all automotive batteries and a key material supporting communications, defense, and energy systems, lead's new designation ensures stronger policy support for domestic recycling and production.

BCI had worked tirelessly on this issue since the first critical minerals list was published in 2018, advocating for the inclusion of lead because of its essential role in batteries. This year's designation of lead as a critical mineral will help companies invest in production with confidence and support the world-class recycling network that keeps this critical resource onshore in North America.

3. Hosting North America's first flow battery conference



When BCI established our [Flow Battery Industry Group \(FBIG\)](#) in 2023, it was because we knew this innovative energy storage solution deserved more attention. We've built on the initial success of the FBIG in many ways over the last two years, but perhaps most publicly by hosting [Flow Batteries North America \(FBNA\)](#) — the first-ever conference in North America dedicated solely to flow battery technology.

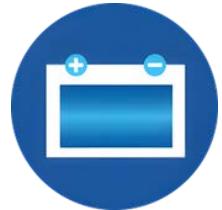
Held in Chicago from October 27-29 in partnership with Pacific Northwest National Laboratory (PNNL), the event convened over 150 leaders from across the energy ecosystem — utilities, researchers, manufacturers, and investors — to explore the frontier of long-duration energy storage.

To have a crowd that big in our first year says a lot about the promise of this emerging battery technology, and the importance of BCI in facilitating discussions about commercialization and innovation in energy storage.

A Letter From The President

Celebrating five big wins for BCI in 2025

4. Advancing next-gen battery research



Stakeholders from leading energy storage companies and three national labs began collaborating in earnest in 2025 as part of the [Consortium for Lead Battery Leadership](#), which is a public-private, pre-competitive research program managed by Battery Council International (BCI).

This effort aims to develop the next generation of lead batteries for grid-support applications through a research-driven focus on battery life, capacity, and cost-effectiveness.

Beyond the Consortium for Lead Battery Leadership, BCI continues to accelerate private-sector innovation in advanced battery science through its [American Battery Research Group \(ABRG\)](#). In 2025, ABRG's industry-funded research focused on novel "expander" molecules — or crystallization aids — that enhance the charge and discharge performance of lead-based batteries.

These collaborative efforts, involving Argonne National Laboratory and the University of Toledo, are driving breakthroughs that will improve battery performance, extend lifecycles, and reduce environmental impact.

5. Raising the bar for health and safety around the world



BCI never loses sight of the people and communities that make our members strong. BCI one again [held our bi-annual EHS Conference](#) in Anaheim on September 17-18, drawing roughly 100 participants from across the U.S. battery manufacturing and recycling sector. The meeting is the largest dedicated forum for EHS professionals from lead-using industries, and aims to share regulatory insights and support industry-led best practices in the battery industry.

BCI is proud of the strong record of health and safety among our members. But we're also driven to raise the bar for everyone to ensure the best-in-class practices

of North America's battery industry are shared around the world. That's why in 2025 we launched the [Lead Battery 360° Certification \(LB360\) program](#) — an international initiative promoting responsible sourcing and production practices in partnership with sister trade associations around the world.

The first cohort of eight facilities from Clarios, East Penn Manufacturing, Ecobat, and Boliden joined the program this year, committing to rigorous third-party assurance and continuous improvement under the LB360° Code.

We're eager to bring more partners on board in the years to come, and to build on the industry's record of continuous improvement in EHS practices worldwide.

There's clearly a lot for BCI and our members to be proud of over the last year. From advancing policy to promoting innovation to supporting a sense of community through our events, it has been a very busy year!

That said, I truly believe the best is yet to come. And BCI is investing in the next generation of industry leaders through our member training offerings, and the inaugural class of BCI Foundation scholarship recipients. As we close our 101st year of operation as the battery industry's leading trade association, we are energized by our successes and eager to build on this industry's legacy of success.

Thank you for your support of BCI in our mission, and I look forward to your continued partnership in 2026.



Roger Miksad
President & Executive Director,
Battery Council International

Policy & Advocacy

BCI's Government Relations Committee continued to meet on a bi-weekly cadence through November 2025 in response to key priority objectives for the Association. The Government Relations Committee works closely with the Communications Committee on many of the Association's key policy work, which included the following:

BCI provided legislators our [comprehensive policy recommendations](#) at the start of the 119th Congress, which were aimed at protecting America's vital battery manufacturing sector. The five-point plan addressed key areas in manufacturing, Department of Energy programs, and safety regulations.

Manufacturing: Maintain Section 45X Advanced Manufacturing Provision and Remove Tax Penalties for Domestic Battery Production

Department of Energy: Support Key DOE Programs

Safety: Set Workplace OSHA Regulations Based on Real-World Results and keep Workers Safe and Protect Domestic Supply Chains

With the domestic battery industry supporting \$8.1 trillion in economic output and 48 million jobs, BCI emphasized the critical need to maintain strong U.S. supply chains amid growing global competition. The recommendations focused on preserving manufacturing incentives, eliminating punitive taxes, supporting innovation, and enhancing workplace safety measures. [Learn more about BCI's policy recommendations here.](#)

At the top of the 2025 priority list was preserving of the existing Advanced Manufacturing Credits ("Section 45X" or "45X") for domestic battery production as a tool for U.S.-based battery manufacturers and suppliers to protect and grow their operations. The successful campaign to protect the 45X Credits within the One Big Beautiful Bill (PL 119-21) included a combination of direct BCI lobbying, BCI member company engagement, external communications, and partnerships developed with other similarly aligned organizations. The goals of BCI's advocacy efforts were to (1) protect the existing structure of the 45X tax credit, (2) advance the latest possible phaseout date, and (3) construct a Foreign Entity of Concern (FEOC) standard that would be acceptable to BCI member companies.

The final language included a phaseout date of December 2032, the existing structure of the tax credit was largely kept intact, and the FEOC standard aligned with BCI companies. This recognition of domestic battery manufacturing's strategic importance reinforced America's position as a global leader in energy storage technology. The 45X credits have already stimulated significant growth in domestic energy storage manufacturing over the past two years, generating billions in announced investments, including from BCI member companies.

These incentives are crucial to support American manufacturers facing foreign competition, maintain national security interests, and sustain good-paying jobs throughout the country's heartland.



As part of the campaign, BCI delivered a [one-page document](#) highlighting the importance of Section 45X Advanced Manufacturing Production Credit to the battery industry and U.S. domestic manufacturing. A product of the Communications and Government Relations Committees, this 45X document was intended to advance key messaging priorities and is available for all BCI member firms to use in appropriate meetings with policymakers.

Policy & Advocacy

BCI Advocacy in 2025 actively supported:

- +
- The USA Batteries Act (Rep. Meuser, PA-09) to remove excise taxes on essential raw materials used in the production of batteries.
- +
- EPA's work to complete its Battery Collection Best Practices Toolkit and use-case study on lead battery recycling.
- +
- USGS proposal to add lead to critical mineral list to protect U.S. supply chains.
- +
- Response DOE's request for public input for assessment on critical materials.
- +
- BCI letter to Trump supports public-private partnerships.
- +
- Comprehensive policy recommendations to Congress.
- +
- Development of new BCIS standard (BCIS-23) for long duration discharge capacity to be used when claiming Advanced Manufacturing Credits under Section 45X of the Tax Code.

LeadBattery360° (LB360) successfully launched

LB360 is a [global certification program promoting responsible production](#) and raw material sourcing in the battery supply chain. In collaboration with industry groups, LB360 will recognize leaders in sustainable practices, covering manufacturing, recycling, and lead production. The program encourages responsible sourcing, environmental health, and safety excellence, setting a high standard for global operations.

Public comments BCI submitted in 2025

| AGENCY | RULEMAKING/NOTICE |
|--------------------------------------|--|
| DOE | 2026 Critical Minerals Assessment |
| EPA | Secondary Lead NESHAP |
| MN OSHA | State Lead Standard (committee draft of proposed rule) |
| PHMSA | Hazardous Materials: Reducing Burdens on Domestic Companies Using Battery-Powered Equipment in Trades |
| U.S. Geological Service | 2025 Draft List of Critical Minerals |
| U.S. OSHA | Lead Standard (Respiratory Protections) |
| U.S. OSHA | (Coalition comments) Post-Hearing Comments on a Proposed Rule for Heat Injury and Illness Prevention in Outdoor and Indoor Work Settings |
| U.S. Trade Representative | USMCA Review |
| WA Department of Ecology | Battery Stewardship Program Rulemaking- Chapter 173-905 WAC |
| White House Office of Science & Tech | National Strategic Plan for Advanced Manufacturing |



Environmental, Health and Safety Regulations

BCI's Environmental, Health and Safety Committee continued to navigate the complex regulatory landscape affecting our industry's manufacturing, collection, and recycling operations.

Significant areas of focus throughout 2025 included:

- +
- The U.S. Occupational Safety and Health Administration's federal lead exposure standard revision remains ongoing. BCI, along with partner trade associations, initiated the Technical Feasibility Study that will inform our response to the eventual rulemaking. Once the Technical Feasibility is complete, work on the Economic Feasibility Study will convene.
- +
- The EHS Sustainability Subcommittee published an innovative Guidance document, Transferred Energy Claims, which could provide a valuable methodology for industry sustainability initiatives.
- +
- Monitoring and engaging on state-level battery Extended Producer Responsibility (EPR) legislation and regulatory matters
- +
- Ongoing efforts at the federal and state levels to enact Heat Injury and Illness regulations.
- +
- A successful 2025 EHS Conference

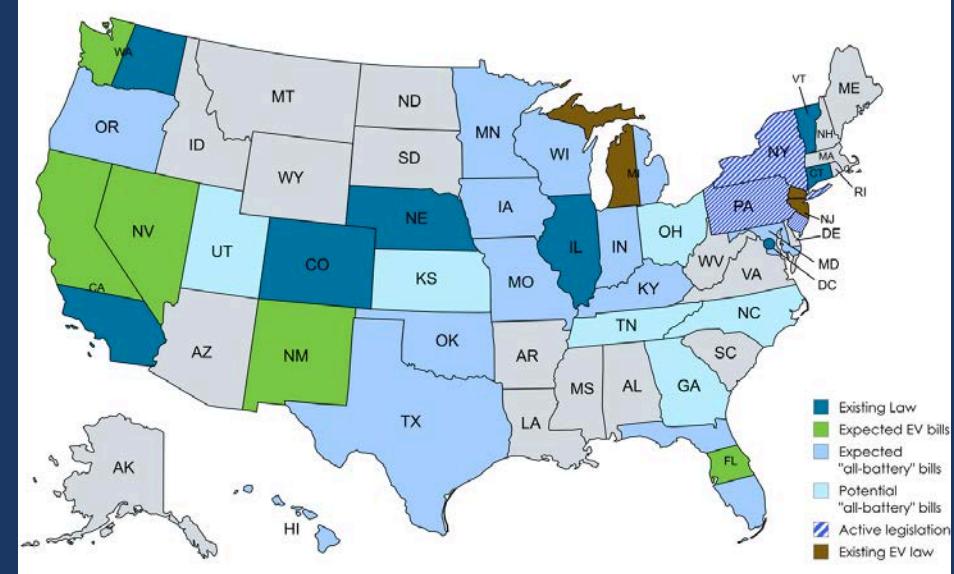
Engagement on state legislative and regulatory priorities:

The state trend with “all-battery” extended EPR bills continued in 2025 with 12 states introducing legislation and four states enacting new statutes. In 2026, we will likely see over 20 states take up the matter. The “all-battery” EPR bills, which initially focused on small format batteries, continue to incorporate medium and even large format batteries (state-depending).

BCI's advocacy efforts assisted in keeping lead batteries largely exempt, however there are increasing threats to the current battery collection system. Additionally, as member companies expand their portfolios into other chemistries, the battery EPR legislative trend is progressively important for BCI to engage in. The map to the right provides an overall picture of the current battery EPR landscape.

BCI is currently working to deploy the Battery Recycling Representative Organization (BRRO). The BRRO is a strategic initiative to protect the battery industry's remarkably successful battery collection and recycling system while positioning us proactively for emerging regulatory challenges. This "virtual PRO" model will leverage our existing 99% recycling rate and 400,000+ collection sites to demonstrate industry leadership without disrupting established business relationships.

CURRENT EPR LANDSCAPE

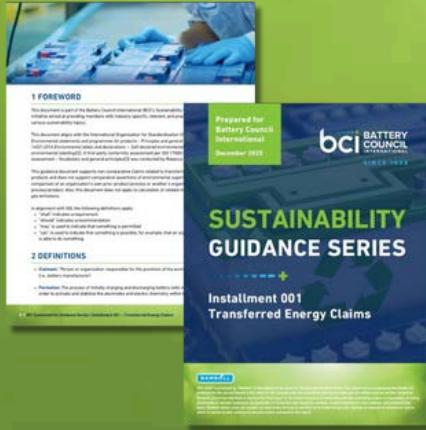


Environmental, Health and Safety Regulations

State Lead Standards

Minnesota's OSH agency distributed its proposed revisions to the state's Lead Standard (via a committee draft). Minnesota has taken California's lead on several aspects of the rule. Importantly—and a positive development for industry—the proposal keeps the PEL 50 ug/m³. MNOSHA proposed to lower the Action Level (AL) to 10 ug/m³.

The formal rulemaking process will begin once the notice is published in the state's Register. Oregon is working on a draft proposal and Washington is likely to pick up their previously stalled effort in the coming year.



BCI's Sustainability Guidance 001 - Transferred Energy Claims

[BCI's Sustainability Guidance 001 - Transferred Energy Claims](#) was published at the end of the year. This guidance document supports non-comparative claims related to transferred energy in battery products and does not support comparative assertions of environmental superiority, improvement, or comparison of an organization's own prior product/process or another's organization's process/product. Also, this document does not apply to calculation of related metrics, e.g., greenhouse gas emissions.

This document is part of BCI's Sustainability Guidance Series, an initiative aimed at providing members with industry-specific, relevant, and practical guidance on various sustainability topics.

2025 EHS Conference

The conference took place September 17-18 at the Hilton Anaheim, bringing together the nation's largest gathering of EHS professionals in the battery manufacturing and recycling industry. This bi-annual event offers two days of comprehensive educational sessions, panel discussions, and valuable networking opportunities. The conference [delivered exceptional value](#) with industry-leading environmental, health, and safety presentations, including an in-depth look at California's new Lead Standard, expert panels (BCI's Worker Blood Lead program and experience with OSHA inspections), federal regulatory updates, and California's sustainability landscape. Technical presentations covered engineering controls for air lead assessment and advanced safety solutions. The conference concluded with an exclusive—and very well-received—U.S. Battery Corona facility tour.



Communications & Marketing

In response to a rapidly changing policy environment, BCI increased its external communications to ensure our industry's impact was understood by policymakers and the general public. Among the major communications efforts of 2025 were:



BCI's first-ever comprehensive North American market forecast

Featuring data on industrial and transportation markets as well as metals markets. This publication was a comprehensive effort undertaken with our partners at CRU, and leveraged exclusive BCI data provided by our members.

- +
- [BCI and CRU publish first-ever report on future battery market trends](#)
- +
- [Industrial lead battery market stays strong as data centers and BESS drive growth](#)
- +
- [Lead batteries maintain growth trajectory in North American automotive battery market](#)
- +
- [North American battery recycling deficit causes need for lead imports amid supply issues](#)



Application-focused reports

Including a deep dive into the aerospace and defense sectors require power solutions supplied by BCI members as well as new resources related to stationary storage that is supporting artificial intelligence data centers and next-generation grid applications.

- +
- [Energy Storage for Critical U.S. Military Applications](#)
- +
- [NEW! BCI launches Stationary Energy Storage webpage](#)
- +
- [Common and Alternative Battery Chemistries](#)



"On the record" support of policy

Clearly stating BCI's support for initiatives in a public way. As the association has become more active with advocacy efforts, BCI is helping to build bigger coalitions of supporters through content that starts conversations with legislators and connects us with allies outside the industry.

- +
- [BCI applauds U.S. Congress and administration support for domestic battery manufacturing](#)
- +
- [BCI responds to Department of Energy RFI on critical minerals](#)
- +
- [BCI applauds the re-introduction of the USA Batteries Act](#)
- +
- [U.S. Battery Industry Asks Congress to Defend Domestic Supply Chains](#)
- +
- [DOE withdraws problematic battery charger efficiency rule after BCI engagement](#)

In addition to these major communications initiatives, BCI continued its regular publication of thought-leadership, community-building, and education articles through our various channels. [Sign up to receive alerts here.](#)



Supporting Next-Gen Battery Technology

Flow Battery Industry Group, Flow Batteries North America (FBNA) Conference, Sodium Battery Industry Group, American Battery Research Group, Consortium for Lead Battery Leadership



Flow Battery Industry Group (FBIG)

The [BCI Flow Battery Industry Group \(FBIG\)](#) is responsible for a broad scope of activities related to flow battery technology including among others, testing, safety, and statistics. It acts as a focal point for the application of flow batteries. The Flow Battery Industry Group monitors developments in North American flow battery manufacturing and reports findings to the Board of Directors. FBIG develops and executes initiatives to promote supply chain growth and market demand, educate stakeholders, and advance safety protocols and best practices for flow batteries and related products.

FBIG updates and establishes standard test specifications, application and component definitions, and consensus operating terminology for flow battery systems and related equipment.

Flow Batteries North America (FBNA) Conference

BCI, in partnership with Pacific Northwest National Laboratory, launched its [inaugural Flow Batteries North America \(FBNA\)](#) conference in Chicago (October 27-29) united 150+ stakeholders—utilities, researchers, manufacturers, and investors—to explore flow battery commercialization. Illinois Commerce Commission Chairman Doug Scott keynoted on flow batteries' importance for long-duration storage and grid resilience. Sessions covered advanced chemistry, deployment projects, commercialization pathways, and regulatory frameworks, addressing infrastructure modernization, data center energy needs, and renewable integration. The conference concluded with a tour of CellCube's vanadium redox flow battery facility in Bolingbrook, Illinois, marking North America's first dedicated flow battery technology summit. BCI thanks all of our incredible sponsors: Stryten Energy (Diamond), Sumitomo Electric (Gold), CleanTech Strategies (Silver), Leidos (Silver), Kustan (Bronze), and CellCube (Facility Tour).

Supporting Next-Gen Battery Technology

NEW! Sodium Battery Industry Group

Approved by the BCI Board in November 2025, the Sodium Battery Industry Group (SBIG) will convene in the New Year. The SBIG will be responsible for a broad range of activities related to the advancement of sodium battery technology and will act as a focal point for the application of sodium batteries. High on the list of SBIG's initial priorities is supply chain development and expansion and commercialization and therefore will seek to take on projects to encourage the development and expansion of U.S. supply chain for the availability of key components of sodium batteries, such as:

- + Cathode materials + Anode materials + Electrolytes and salts + Separators
- + Current collectors + Battery management systems (BMS) and pack components

The SBIG will also evaluate how to advance testing, safety, and statistics.



American Battery Research Group (ABRG)

The [American Battery Research Group \(ABRG\)](#), comprised of U.S. lead battery manufacturers and suppliers, was created to identify areas of scientific research to further the performance of lead batteries to meet U.S. energy storage goals. It operates under the auspices of Battery Council International.

Consortium for Lead Battery Leadership

The [Consortium for Lead Battery Leadership](#) brings together industry leaders and national labs to advance battery technology. With a focus on improving storage capacity and reducing costs, this collaboration aims to enhance energy storage solutions for a sustainable, resilient future.

BCI Travels Far & Wide

BCI leadership maintained an active global presence this quarter, advancing the organization's mission through strategic visits, industry conferences, and policy initiatives. From facility tours in Brazil and Germany to key presentations in Malaysia, India, and Europe, our team worked to strengthen partnerships, share technical expertise, and advocate for lead battery innovation and safety standards worldwide.



Miksad visits Moura Group, BCI team visits East Penn

BCI President and Executive Director Roger Miksad [visited Moura Group in Brazil](#), touring the local facilities and meeting with company leadership including Chairman Sergio Moura. BCI is proud of all of our member firms around the world, and we were impressed by all the great work being done by the Moura team to advance energy storage technology. Roger, Jeff Reeves, Katie Raymond, and Courtney Greco also [visited East Penn Manufacturing](#) to get an up-close look at the company's cutting-edge battery production, innovative R&D, and more. Shout out to Chris Pruitt, Donna Snyder, Joel Brady, Joel Palmer, Ben Reed, Barry Frain, Joshua Sanders, Perry Kramer, and the entire East Penn team!

Susan Bernard shares BCI policy priorities at Pb2025

BCI Vice President, Government Relations & Sustainability Susan Bernard [represented BCI at the Pb2025 International Lead Conference in Amsterdam](#), sharing key updates on North American policy, 2025 priorities, and federal initiatives. Bernard also contributed to the Lead Exposure Workshop, highlighting BCI's Voluntary Blood Lead Level Reduction program.

BCI attends 2025 DOE Annual Meeting and Peer Review

Battery Council International [was well-represented at the 2025 DOE Office of Electricity, Energy Storage Program Annual Meeting and Peer Review](#) in Tysons Corner, Va., on August 5-7. BCI's Technical Projects Manager Courtney Greco, BCI Technical Director Dr. Timothy Ellis and BCI's VP of Communications Jeff Reeves (shown here) were all in attendance at the annual event, and BCI sponsored a networking reception to help build our connections with attendees. The peer review assembles researchers from across the DOE landscape including national laboratories, industry, government, and academia to discuss the latest in energy storage research, development, and applications.

Miksad visits Kustan GmbH facility in Gelsenkirchen

Roger Miksad [visited Kustan GmbH's manufacturing facility in Gelsenkirchen](#), Germany, where he was hosted by Nick Hennen, Dr. Sascha Dobrowolny, and the Kustan team. Kustan manufactures critical equipment for battery production worldwide and is a valued member of the Flow Battery Industry Group. Nick Hennen will present Kustan's capabilities at FBNA 2025 this October.

BCI Travels Far & Wide

BCI attends ULAB workshop

This year, BCI staff participated in an "Action Lab" focused on mitigating global unsafe lead battery recycling practices. The Lab was facilitated by the Global Development Incubator (GDI) and was attended by about 35 people from NGOs and academia, including Pure Earth, UNICEF, Stanford, retired EPA, and the OEKO Institute. The overarching goal of the Lab was to come away with a tangible draft plan to eliminate unsafe ULAB recycling to reduce lead exposure in Low and Middle-Income Countries (LMICs) (within 10 years). The Lab focused on three priority regions: Africa, South Asia - India, and Southeast Asia – Bangladesh and Pakistan. The conversation was largely centered around the real-world (unsafe) scenarios that exist in some LMICs. The bifurcation between "formal" and "informal" collectors and recyclers was a key element of discussion and there is a clear desire to put a stop to the "informal" practices through incentivization and enforcement.

Susan Bernard joins ILZDA at the 2025 Lead and Lead Battery Conference in New Delhi, India

Susan joined the annual conference to share BCI's latest advocacy wins, updates on the regulatory and legislative landscape in the United States, and to provide an update on BCI's DOE grant project: The Consortium for Lead Battery Leadership in Long Duration Energy Storage (LDES). The conference was attended by about 150 delegates and focused on advancing lead batteries and environmental practices.



BCI Presents at 21st Asian Battery Conference in Borneo

BCI had an [outstanding week at the 21st Asian Battery Conference](#) in Kota Kinabalu, Malaysia, engaging with Asia's dynamic battery community. Roger Miksad delivered two impactful presentations: "Section 45X Battery Manufacturing Credits: Technical Requirements and Compliance Framework" and the "BCI Voluntary BLL Program Update" at RECYCLE100. These sessions connected industry leaders and manufacturers shaping the future of battery technology and sustainability practices. The conference fostered meaningful dialogue on regulatory compliance, manufacturing innovation, and environmental responsibility. Special thanks to Mark Stevenson for organizing this exceptional event that brought together thought leaders from across the region. Susan Bernard and Renee Langdon also represented BCI, strengthening relationships and exploring collaboration opportunities.

Jeff Reeves addresses battery market trends at ILZSG

BCI's Jeff Reeves traveled to Lisbon to participate in the International Lead and Zinc Study Group (ILZSG) annual meeting, offering a presentation on North American battery market policies and trends. The event welcomed about 150 individuals from ILZSG's member governments and industry representatives located in member countries as well as invited observer countries.

Bringing the Industry Together

BCI's 2025 Convention in San Antonio brought together industry leaders, innovators, and researchers for recognition, collaboration, and forward-thinking dialogue. From groundbreaking keynotes on deglobalization and grid resilience to prestigious awards honoring leadership and innovation, the event showcased the battery industry's commitment to sustainability, technological advancement, and inclusive growth.



Zeihan, Pugliese, Griffiths and more speak at BCI 2025

Peter Zeihan kicked off the BCI Convention with a powerful keynote, "Electricity at the End of the World," exploring how deglobalization will reshape North America's grid—and why the battery industry is central to its future. Karen Pugliese of C&D Technologies inspired with "The Power of Diverse Perspectives," showing how inclusive leadership drives innovation and long-term success in our industry. James Griffiths from CRU broke down lead's steady role in a volatile market, noting how its recyclability and resilience could unlock new opportunities during the energy transition. We're looking forward to seeing everyone at [BCI 2026 in Nashville!](#)

BCI honors Pruitt, Shaffer with its 2025 Distinguished Service Award

Chris Pruitt (East Penn Manufacturing) and David Shaffer (EnerSys) were [named this year's recipients of BCI's Distinguished Service Award](#). Both former BCI Board Chairmen were recognized for exceptional industry leadership. Pruitt, East Penn's President and CEO since 2018, led BCI from 2021-2025 and championed key regulatory initiatives. Shaffer, EnerSys CEO since 2016, provided crucial leadership during COVID as BCI President from 2019-2021. They were honored at BCI's Convention in San Antonio.



PNNL's Grid Storage Launchpad wins 2025 BCI Innovation Award

Pacific Northwest National Laboratory (PNNL) [received BCI's 2025 Innovation Award](#) for its Grid Storage Launchpad (GSL). The \$75 million DOE-funded research facility in Richland, Washington focuses on developing next-generation energy storage technologies vital to the U.S. economy and grid reliability. Daramic received Honorable Mention for their work on deep cycle battery separators.



Bringing the Industry Together



East Penn and Stryten Energy take top honors in 2025 BCI Amplify Awards

BCI has named East Penn Manufacturing and Stryten Energy this year's Amplify Award winners, recognizing outstanding achievements in battery industry communications. [East Penn won the Industry Leadership Award](#) for its "Mission Possible" video campaign, highlighting innovations in lithium and lead battery manufacturing and the importance of supply chain security and sustainability. [Stryten Energy earned the Product Marketing Award](#) for its bold "Grim Reaper" campaign promoting Enhanced Flooded Batteries, blending humor with a powerful message on performance and longevity. Honorable Mentions went to Pacific Northwest National Laboratory for its Grid Storage Launchpad campaign, and C&D Trojan for showcasing its Lithium OnePack battery in a high-performance golf cart climb up Pike's Peak.



BCI honors 2025 Poster Research Showcase winners

BCI extends [Congratulations to the winners of the 2025 Battery Poster Research Showcase!](#) Tim Fister (Argonne National Laboratory) for "Acoustic Characterization of Lead Acid Batteries" Cailin Buchanan (Argonne National Laboratory) for "Accelerating Redox Flow Battery Development through an Autonomous Flow Battery Cycler Station." A special congratulations to Cailin Buchanan, who also received the Women in the Global Battery Industry Poster Award.

Committee Week in Chicago

BCI's annual Committee Week [convened members to establish 2025 strategic priorities across nine committees](#): Product Information, Women in Battery Industry, Data Book, Industrial & Deep Cycle, Technical, Government Relations, Communications, Marketing, and Environmental Health & Safety. The gathering also honored Donna Snyder of East Penn Manufacturing, recognizing her exceptional 40+ years of industry contributions as she retires.

Bringing the Industry Together



FOUNDATION

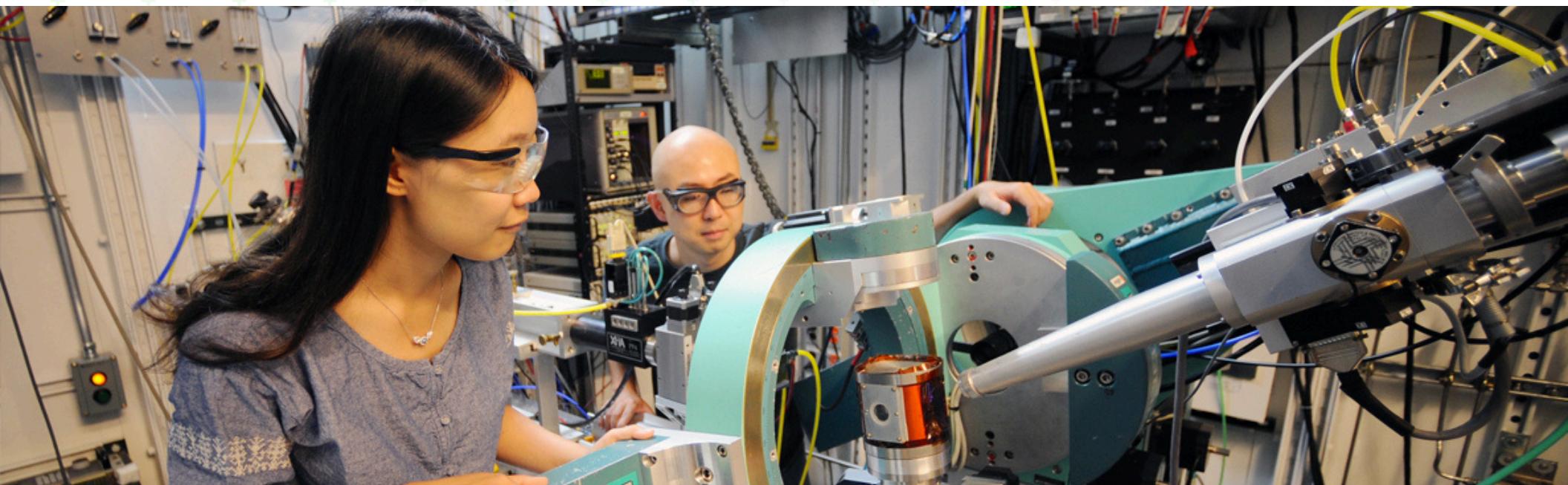
BCI FOUNDATION

Battery Council International (BCI) and the [BCI Foundation](#) are proud to announce the first class of BCI Scholars, a group of three students that were each selected for up to \$5,000 in financial aid to support studies in the 2025-2026 academic year. In recognition of Battery Council International's 100th anniversary on March 21, 2024, the BCI Foundation was established to support the next generation of leaders in the energy storage industry.

Congratulations to the 2025-26 Scholarship Winners!

First, the BCI Battery Chemistry and STEM Scholarship supports individuals studying electrochemistry, science, technology, engineering, mathematics, or a related technical discipline that will support energy storage applications. In partnership with Women in the Global Battery Industry (WGBI), BCI will ensure at least one woman recipient as part of BCI's efforts to foster diversity in the industry. This year's BCI Battery Chemistry and STEM Scholarship recipients are

Sophia Anderson of Schwenksville, Pa., and Leaf Evergreen of Hillsboro, Ore. Separately, The BCI Community Scholarship supports individuals who are an employee or direct family member of an employee currently working in a BCI-member company. Summer Sapp of Russell Springs, Ky., was the 2025 recipient of the BCI Community Scholarship.



Women in the Battery Industry (WGBI)



WGBI rang in 2025 celebrating a year of remarkable growth and impact across its four pillars: networking, professional growth, education, and mentorship. Through targeted events and programs, the organization has fostered meaningful connections and career development for women in the battery sector.

WGBI hosted a record number of in-person gatherings this year, including at:



WGBI launches NEW Latin America chapter!



WGBI also expanded into Latin America under chapter leader Grace Rocha, furthering its mission to empower women across the global battery industry and shape the future of energy storage.

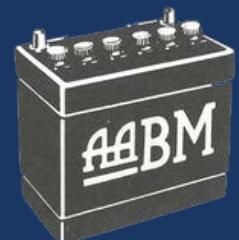
You can stay up-to-date on WGBI's latest news, announcements, and events by following our [LinkedIn page](#).

NEW! WGBI Member Spotlights



About BCI

Battery Council International (BCI) is the leading trade association representing the battery industry and is the premier authority on energy storage solutions. Celebrating its 100th anniversary in 2024, BCI advocates and educates on behalf of battery manufacturers and recyclers, marketers and retailers, suppliers of raw materials and equipment, and battery distributors.



BCI BATTERY COUNCIL INTERNATIONAL
SINCE 1924



New chairs named for BCI Communications + Marketing Committees



BCI's Communications Committee has elected Karen Shaw, Director of Corporate Communications at EnerSys, and Lisa Hartman, Vice President, Investor Relations and Corporate Communications at EnerSys, as Co-Chairs. Elizabeth Tate, Vice President of

Public Affairs & Sustainability at Clarios, will serve as Vice Chair. The BCI Communications Committee aims to increase awareness of the critical importance of energy storage solutions and support BCI's advocacy agenda.

Convention Planning Committee

The committee provides support to the Headquarters staff as part of the site selection process for convention locations, assists in identifying speakers for the convention program and helps coordinate selected onsite logistics (i.e. golf tournament, Quarter Century Club Breakfast, etc.).

Data Book Committee

The Data Book Committee supervises the compilation of the BCI's vehicle battery replacement database including the yearly Data Book. Working in conjunction with an external research organization, the committee recommends the creation of applicable new group sizes and supplemental information for BCI's application data. Meets three times per year – in January prior to the publication of the printed book, at the annual convention and in October during Committee Week.

Deep Cycle & EV Committee

The Deep Cycle and Electric Vehicle Battery Committee is responsible for a broad scope of activities related to EV technology including among others, testing, safety, and statistics. It acts as a focal point for the application energy storage technologies in the emerging electric vehicle market. Meets two times per year – at the Annual Convention and in October during Committee Week.

Energy Storage Systems Initiative (ESSI)

The BCI Energy Storage Systems Initiative (ESSI) advocates for and supports the growing market for grid-connected energy storage systems by engaging federal and state regulators and utility companies to promote investment in battery research, development and deployment. The initiative follows the guiding policy statements: In considering energy storage options, federal and state policymakers should evaluate all of the following: cost, reliability, safety, performance, full life-cycle impacts, recycle rates, and scalability. Federally funded research into battery storage technologies should prioritize domestic battery industries, particularly those that have an established and comprehensive circular infrastructure in place. Utilities should be encouraged to consider battery storage options in their integrated resource planning. BCI supports market-driven policies that provide a framework for storage resources to participate in organized wholesale electricity markets and compete on a level playing field.

Environmental Health and Safety Committee

The Environmental Health and Safety Committee maintains an awareness of, and reports to the Board of Directors, developments related to: Acceptable methods of waste disposal from battery factories and related operations such as smelter operations; and control of the establishment of allowable limits of pollutants in both air and water; Occupation lead exposure and like materials including the means of controlling lead in working areas; Materials pertaining to the safety of batteries and related products which affect the industry, including packaging and labeling as required by Federal regulations or deemed helpful by the committee. Product safety education programs, working in conjunction with the technical and other BCI committees, to disseminate product safety information.

Government Relations Committee

The Government Relations (GR) Committee is responsible for working with BCI staff to advocate for the interests of the battery industry with federal policymakers and regulators. This allows BCI to effectively represent its members' interests and concerns to policymakers with the goal of shaping legislation and regulation in a way that protects and—where possible—benefits the industry. The committee works closely with BCI's federal lobbyist, Charles Cooper (Brumidi Group), on these issues.

BCI Committees

Industrial Battery Charger Committee

The Industrial Battery and Charger Technical Committee considers all matters of a technical nature affecting the industrial battery industry; and updates and establishes standard test specifications and procedures for industrial battery chargers, motive power and valve regulated standby batteries. The committee works in conjunction with the Industrial Battery Committee and other committees in developing and distributing, through publications and other channels, information on the design, manufacturing, marketing, distribution usage and disposal/recycling of industrial batteries.

Marketing Committee



BCI's Marketing Committee has elected Joel Brady, Assistant Vice President of Marketing at East Penn Manufacturing, as its new Chair. The Marketing Committee analyzes industry trends and practices, and provides strategic input on the branding of the association as well as internal communications to BCI's membership.

Product Information Committee



Ellen Maxey, Director of Strategy, Components at Clarios, has been named Chair of BCI's Product Information Committee (PICOM), with David Corey of East Penn Manufacturing stepping into the Vice Chair role. The Product Information Committee (PICOM)

oversees BCI's shipping statistics program (both transportation and industrial) as well as the BCI recycling rate report, and other ad hoc statistical publications. The leadership duo will oversee BCI's shipping statistics program and recycling rate report, taking over from longtime chair Mark Kelley following his retirement. Together, they are committed to guiding the committee and providing industry-wide opportunities to comment on product releases, statistical publications, and ensuring every segment has a voice.

Sustainability Subcommittee

The Sustainability Subcommittee is responsible for a broad scope of activities related to BCI's commitment to sustainability. It acts as a focal point for the development of BCI's sustainability priorities, maintain an awareness of developments related to new and emerging sustainability regulatory requirements and related advocacy, communications and resources created by the Subcommittee, and BCI's annual industry sustainability report highlighting the association's commitment through environmental accomplishments, innovation, and member efforts.

Technical Committee

The Technical Committee considers all matters of a technical nature affecting the industry; continues to establish and update standard test specifications and procedures for all classes of batteries manufactured for which our membership has a need; and works in conjunction with the Product Information and other committees to develop and distribute, through publications and other channels, information on the design, manufacturing, marketing, distribution usage and disposal/recycling of lead-acid batteries.



BCI Members

MANUFACTURERS

Advanced Battery Concepts
Acumuladores Duncan, C.A.
Battery Builders
Bulldog Battery
Camel Energy Inc
C&D Trojan
Clarios
CMBlu Energy
Crown Battery Mfg. Co.
East Penn Mfg Co
EnerSys
ENERYA SA De CV
Eternity Technologies, Inc.
Hankook & Company ES America Corp
Interspace Concorde Battery Company
JYC Battery
Leoch Battery Corporation
Stryten Energy
Superior Battery Mfg Co
Surrette Battery Company Ltd.
Terra Supreme Battery
U.S. Battery Mfg. Co.
Yacht Battery Co. Ltd.
Yuasa Battery, Inc.
QuantumShield Technologies, Inc
TerraFlow Energy
CSB Energy Technology Co., Ltd.

SUPPLIERS

Abertax Technologies Limited
Accuma Corporation
Acumuladores Moura, S.A.
ACE Green Recycling
Acumulad
Abertax Technologies Limited
Accuma Corporation
Acumuladores Moura, S.A.
ACE Green Recycling
Acumulad
Ahlstrom Tempere Oy
All4 Inc.
Atomized Products Group, Inc.
Auto Meter Products, Inc.
B2Q Technologies
Banner GmbH
Bernard Dumas, S.A.S.
BioZen Batteries
Borregaard USA, Inc.
Brown & Brown Business Dev. Inc.
Cadre Wire & Cable
Cameron Connect
Canadus Power Systems
Centrifugal Castings
CleanTech Strategies LLC
Corporacion Pipsa Sa de Cv
Cyclonaire
Daramic, LLC
DHC Specialty Corporation
Eagle Oxide Services
Ecobat
ENTEK
ESCA Tech, Inc.
Ferriere Di Stabio
Flow-Rite Controls, Ltd.
Froetek Plastic Technology Corp. USA
Gauthier Non-Ferrous Products Inc.
Gopher Resource, LLC

Greenwich Metals Inc.
Gridtential Energy
Hammond Group, Inc.
Hazelett Corporation
Hollingsworth & Vose Co.
Hydra-Matic Co., Inc.
International Thermal Systems LLC
JBI Corporation
Kustan GmbH (Formerly Inbatec)
M. A. Industries, Inc.
M3 Resources, USA
MAC Engineering & Equipment, Inc.
Magnera
Mate Guage
Microporous, LLC
Oak Press Solutions
Omni Oxide Corporation
Otter Lake Technologies
Palico Instrument Laboratories (CalT)
Penox Mexico, S.A. de C.V.
Polymer Solutions International
Powerlab, Inc.
PRO Charging Systems
Quexco, Inc.
Ramboll
Rosendahl Nextrom GmbH
Sanders Lead Company, Inc.
Sorfin Yoshimura Ltd.
Storion Energy
Tamarac Medical
TBS Engineering Limited
Teck Metals Limited
Terrapure Environmental
The Poppins Group
UnitX
WEGMANN Automotive
Wirtz Mfg. Co. Inc.
Wood Mackenzie

ASSOCIATES

AAA, Inc
Advance Auto Parts
Autel US Inc.
AutoZone Inc.
Aztech Energy LLC
Batteries Plus
Batt-Tek Consulting
Best Battery Co., Inc.
Canadian Energy
Club Assist
Continental Battery Mfg Co
Factory Motor Parts
GridFlow, Inc
GS Yuasa Energy Solutions, Inc.
Hangzhou Haijiu Battery Co., LTD.
Harris Battery Company Inc
Interstate Batteries
LCB Battery LLC
Lubrication Technologies (Lube Tech)
Magnacharge Battery Corporation
Northeast Battery & Alternator
Performance USA
Prairie Battery
Ramcar Batteries, Inc.
Remy Battery Co., Inc.
Robert Bosch LLC
Sask Battery
Staab Battery Mfg Co
Sterling Battery Co., Inc.
Universal Power Group, Inc.
VCA Solutions
Voltz Power, LLC



2025-2026 Board of Directors

BCI appointed Stryten Energy CEO Mike Judd as its new Board Chairman, with leadership support from Vice Chairman Shawn O'Connell (EnerSys), Treasurer Rick Heller (C&D Trojan), and Secretary Bill Moll (GS Yuasa). The officers were sworn in at BCI's Convention + Power Mart Expo. BCI President & Executive Director Roger Miksad noted the appointments come at a pivotal time as the battery industry undergoes transformation through new technologies, changing trade dynamics, and growing energy storage demand. Seven additional members were elected to two-year Board terms, joining nine continuing directors.



Mike Judd
Stryten Energy



Shawn O'Connell
EnerSys Inc.



Rick Heller
C&D Technologies, Inc.



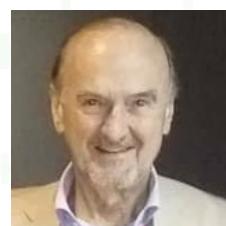
Bill Moll
GS Yuasa Energy Solutions



Terry Agrelius
U.S. Battery



Thomas Bawart
Banner GmbH



Silvano Gelleni
Acumuladores Duncan



Hal Hawk
Crown Battery



Larry Keith
ENTEK International



Daniel Leach
Gopher Resource



Julie McClure
MAC Engineering



Sergio Moura
Acumuladores Moura SA



John M. Reeves
Microporous



Christian Rosenkranz
Clarios



Chad Schuchmann
Daramic



Thomas Slabe
Ecobat



Pete Stanislawczyk
East Penn Mfg.



Nick Starita
Hollingsworth & Vose



James Surrette
Surrette Battery Co., Ltd.



John Wirtz
Wirtz Manufacturing Co.

Meet the BCI Team



Roger Miksad
President & Executive Director



Susan Bernard
VP, Gov Relations & Sustainability



Jeff Reeves
VP, Marketing & Communications



Renee Langdon
Director of Events



Katie Raymond
Manager, Comms & Marketing



Courtney Greco
Technical Projects Manager



Dr. Timothy Ellis
Technical Director, ABRG



Keely Anderson
Director, Membership & Operations

Keeping the Industry Informed

With the assistance of industry experts from BCI committees, BCI publishes books and manuals that are crucial for individuals in the industry. All BCI members receive discounts on these publications, which include:



[Member Resource Document](#)

Make the most of your [BCI Membership](#) and learn how to get involved in our organization through advocacy, our various communications channels, committees and working groups, event & award participation, and catch up on the latest BCI publications and resources.



[Membership Prospectus](#)

Become an integral part of the vibrant and essential world of battery manufacturing and recycling by joining BCI. With a century of unparalleled industry leadership, BCI stands as the beacon promoting the interests of the battery manufacturing and recycling sectors into a sustainable and innovative tomorrow.



[Source BCI](#)

The digital Source BCI contains everything in the printed Data Book, plus additional battery data from industrial road equipment, power scrubbers, and aerial lifts. Updated quarterly, it provides current industry information.



[Battery Service Manual](#)

Battery Council International presents this revised Fifteenth Edition of the Battery Service Manual, offering updated industry expertise to address your battery problems and questions. Special thanks to BCI members and the Technical Committee for their valuable contributions.



[Battery Labeling Manual](#)

This manual provides recommended practices for hazard warnings, markings on lead batteries and packaging, plus labeling and testing requirements for acid packs, reflecting major health, safety, and environmental standards.



[Battery Technical Manual](#)

This reference book serves users of automotive industrial-type lead batteries, featuring laboratory analyses and standardized test methods for evaluating battery performance, component parts, and raw materials.



[Lead Battery State Retail & Recycling Laws](#)

This compilation covers laws and regulations in all 50 states governing lead battery retail sale and recycling, providing detailed requirements, explanations of key elements, and citations to relevant state regulations.



[BCI Statistics Program](#)

This program provides exclusive access to automotive, industrial battery shipment data through monthly reports, benchmarking, and market decisions from North America's only manufacturer-sourced volume data.

Keeping the Industry Informed

BCI is committed to informing both consumers and industry professionals of the safety, essentiality, sustainability and reliability of batteries. Additionally, BCI gathers and reports industry statistics that reflect the vibrant state of the industry. Our consumer resources help to improve the perception of lead batteries to the everyday consumer.

PUBLIC REPORTS

[Policy Recommendations for the 119th Congress](#)



- The low-voltage battery industry is essential to America's economy and national security.
- With 125+ years of domestic production, U.S. battery companies need Congressional support against global threats.

[BCI Guide to Automotive & Industrial Battery Applications](#)



Batteries are designed for automotive mobility, energy storage, and material handling applications. Each requires unique performance characteristics to meet evolving market needs.

[BCI Sustainability Guidance: Transferred Energy Claims](#)



- This series addresses transferred energy claims in battery manufacturing, providing standardized methodology to calculate electricity consumed during production and quantify energy transferred to customers in finished products.

[Economic Contribution of U.S. Lead Battery Industry](#)



A new study reveals the dramatic economic impact of the U.S. lead battery industry, including 106,000 direct jobs and over \$35 billion in business output nationwide, demonstrating the sector's critical contribution to the American economy.

[Energy Storage for Critical U.S. Military Applications](#)



- America's military needs rugged, reliable batteries and dependable domestic suppliers. U.S. battery companies meet these challenges with 125+ years of proven performance through onshore operations.

[Common and Alternative Battery Chemistries](#)



This BCI report examines common and alternative battery chemistries—lead-acid, lithium-ion, nickel, sodium, and flow batteries—comparing energy density, performance, applications, costs, and emerging technologies.

MEMBER WEBINARS

[Peeling Back the Curtain on Advocacy](#)

WGBI and BCI hosted an exclusive webinar on effective advocacy strategies for the battery industry. Speakers Susan Bernard, Roger Miksad, Charles Cooper, and Jeff Reeves shared insights on policy advancement, strategic communications, and practical advocacy tools.

[Navigating CA's Climate Disclosure Laws](#)

On behalf of BCI, Ramboll experts Abby Kirchofer, Grace Cook, and Ross Beardsley presented a members-only webinar on California's new climate disclosure laws—SB 253, SB 261, and SB 219—effective January 1, 2026.

[EU Batteries Regulation](#)

BCI and Ramboll experts Ferdinand Zott and Thomas Berlinghof presented an exclusive webinar on the EU Batteries Regulation, covering implementation status, compliance obligations, and priorities for North American manufacturers.

[CRU Webinar on lead battery market trends](#)

BCI and CRU hosted an exclusive webinar analyzing North America's lead battery market. Analysts James Griffiths and Martin Jackson shared forecasts, proprietary data, and key trends shaping the industry.

BCI 2026 Convention + Power Mart Expo



Powering the Future, Amplified in Nashville!

Registration is NOW OPEN for the [BCI 2026 Convention + Power Mart Expo!](#) **Join us May 3-6, 2025 in Nashville, Tennessee**, as BCI launches into its next century of innovation and industry leadership. The BCI Convention + Power Mart Expo is the premier gathering for the global battery industry where the battery industry comes together to set priorities, share solutions, and spark the collaborations that move business forward.

From thought-provoking sessions to an expo floor filled with innovation, the convention delivers unmatched opportunities to learn, connect, and engage with the leaders shaping the future of energy storage. For more than 100 years, BCI has united leaders, innovators, policymakers, and decision-makers to exchange insights, build partnerships, and shape the future of energy storage.

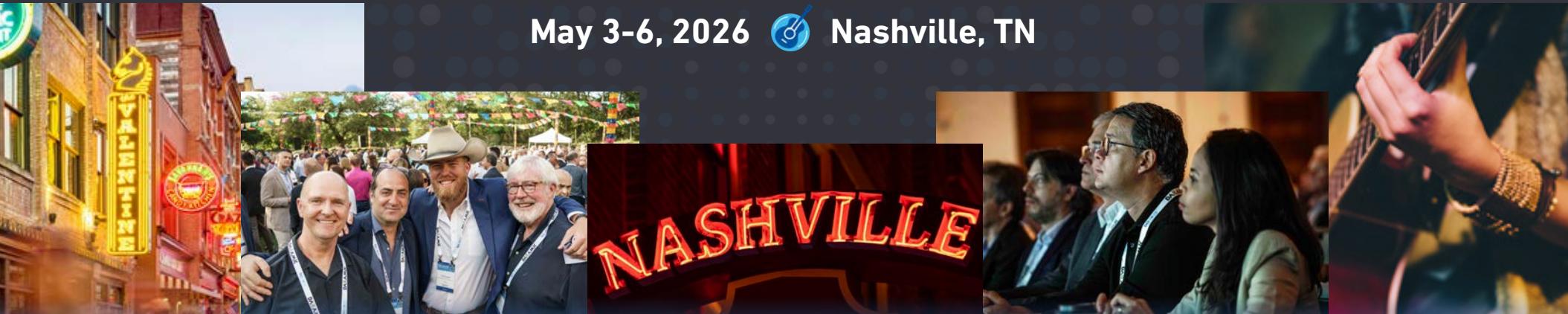
**REGISTER
TODAY!**

bcⁱ 2026

CONVENTION + POWER MART EXPO



May 3-6, 2026  Nashville, TN





SINCE 1924

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