

2023 BCI Annual Report

2023-2024 BCI Board of Directors



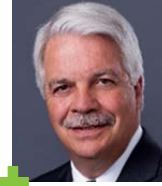
Chris Pruitt
Chairman
President and CEO, East Penn Manufacturing Co., Inc.



Bill Moll
Vice Chairman
President, GS Yuasa Energy Solutions, Inc.



Rick Heller
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President and CEO, Hammond Group



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Vice President of Global Sourcing and Supply Chain, Clarios



Thomas Bawart
Technical CEO, Banner GmbH



Silvano Gelleni
President, Acumuladores Duncan, C.A.



Hal Hawk
President, Crown Battery



Larry Keith
CEO, ENTEK International



Daniel Leach*
SVP and Chief Business Development Officer, Gopher Resource



Julie McClure
President, MAC Engineering & Equipment



Sérgio Moura
Chairman of the Board, Acumuladores Moura SA



Marcus Randolph
Executive Chairman, President and CEO, Ecobat



Chad Schuchmann
President, Daramic



David Shaffer
President and CEO, EnerSys Inc.



Nick Starita
Division President, Energy Solutions, Hollingsworth & Vose



James Surette
President, Surette Battery Co., Ltd.



Tim Vargo
Chairman of the Board, Stryten Energy

* New Board member in 2023

About BCI

Battery Council International (BCI) is the leading trade association for the North American battery industry. Established in 1924, BCI unites battery manufacturers, recyclers, marketers, retailers, suppliers of raw materials and equipment, as well as battery distributors across North America and globally.

Our passion is educating people on the critical role of batteries in powering our daily lives – and unlocking the tremendous potential of energy storage, especially for achieving a low carbon future. Above all, our members are committed to safe, responsible battery manufacturing and sustaining the world's most successful circular economy.



\$8.1T

U.S. industrial economic output tied to the battery industry and adjacent businesses¹

\$32.9B

Annual economic impact generated by the U.S. lead battery industry, supporting 121,000 diverse American jobs²

99%

Lead battery recycling rate from BCI's members in the U.S. — a model of sustainability and circularity³

¹"The Battery Fueled Economy: U.S. Domestic and Supported Canadian Activity," compiled by EBP for Battery Council International.

²"Economic Contribution of the U.S. Lead Battery Industry in 2021," compiled by EBP US for Battery Council International.

³"National Recycling Rate Study, 2023" compiled by Vault Consulting for Battery Council International.

"BCI plays a critical role in the advancement of the global circular economy for lead batteries and provides clarity for its members in the evolving regulatory and legislative initiatives. As a cohesive council, BCI brings together our industry leaders to maximize best practices and provide support for all members."

– David Shaffer, President and CEO, EnerSys Inc.

Advocacy

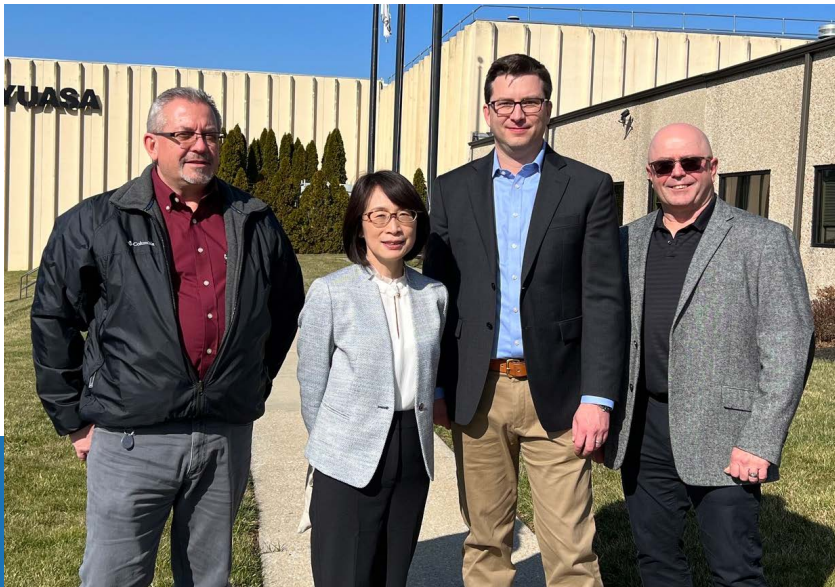
Leading Policy Voice of the Battery Industry

BCI is the leading voice of the battery manufacturing and recycling industries in Washington, D.C., Sacramento and state capitals across the nation. BCI advocates for programs and policies that recognize the importance of the battery industry and criticality of batteries to the nation's economy.

BCI represents the industry before regulators and legislators to ensure that regulations impacting the industry are rational and in accordance with the law.

2023 Highlights and Accomplishments

In 2023, BCI continued representing the industry before regulators and legislators to ensure that regulations impacting the industry are rational and in accordance with the law. With the most important



developments having been the re-emergence of significant federal rulemaking activity at the U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA), as well as in California, BCI's priority was to provide insights and feedback on rule and standards changes and meet with leaders and decision-makers behind the changes, among other legislative happenings. BCI also worked with several additional federal agencies, including the Department of Energy (DOE), Department of Transportation (DOT) and Internal Revenue Service (IRS) throughout the year.

EPA

BCI and its members have been active on environmental regulations. For example, BCI provided extensive comments to the EPA as it worked to publish its revisions to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), which cover existing lead battery manufacturing facilities, and the New Source Performance Standards (NSPS), which cover new and modified plants.

BCI also partnered with Association of Battery Recyclers (ABR) and International Lead Association (ILA) to review the EPA's published Integrated Science Assessment for Lead (ISA) update — part of the National Ambient Air Quality Standards (NAAQS) review — and submit commentary in June.

Other ongoing matters before the agency that BCI kept watch on in 2023 included impending review of lead under the Toxic Substances Control Act (TSCA) program, the EPA's voluntary program for best recycling and labeling practices for batteries and more.

Advocacy (continued)

OSHA

In response to OSHA's initiation of its revisit of the occupational lead standard through its advanced notice of proposed rulemaking (ANPRM) for Blood Lead Level for Medical Removal — which took the form of 60 questions soliciting input — BCI filed 75-plus pages of extensive comments responding in detail to OSHA's questions and requests. BCI staff and OSHA counsel met with OSHA leaders to discuss BCI's position on the impending rulemaking and ways to maintain open lines of communication between the agency and the association.

Federal Legislation

BCI's Environmental, Health and Science Committee continued to collaborate closely with BCI's Government Relations Task Force to address federal legislative matters. This included working together to engage with the IRS to ensure BCI's concerns about the implementation of the Superfund Excise Taxes on multiple chemicals, including lead, were heard and to try and obtain relief from the tax at a legislative level.

Additionally, BCI and its members successfully helped shepherd the introduction of the USA Batteries Act in front of legislators, and BCI submitted a comment letter in January to the IRS regarding the newly enacted renewable energy credit for manufacturers of battery cells and battery modules.

State Legislation

Several states introduced all battery and packaging Extended Producer Responsibility (EPR) bills in 2023. BCI participated in stakeholder meetings and legislative hearings on behalf of the association to ensure any new laws and regulations are feasible for members.

EPA

- National Ambient Air Quality Standards (NAAQS)
- National Emission Standard for Hazardous Air Pollutants/New Source Performance Standards (NESHAP/NSPS)
- Toxic Substances Control Act (TSCA)

OSHA

- Lead Standard
- California OSHA Standards Process

DOE

- Battery Charger Standard
- Funding Opportunities

State Advocacy

- California Standards and Legislation
- State Legislation Extended Producer Responsibility

Materials Stewardship

- BCI Sustainability Subcommittee
- Lead Battery 360°

"As a Canadian manufacturer, BCI's continued stewardship and regulatory efforts, in conjunction with international collaborations with Erobat and ILA, are immensely valuable to our organization."

- James Surrette, President, Surrette Battery Co., Ltd.

Strategic Communications

BCI's Advancing Lead Batteries Communications Initiative (ALBCI) is in its seventh year and continues to identify new programs and tools to advance the industry's advocacy goals with policymakers and other stakeholders.

Strengthened BCI's Brand and Messaging

In May, ALBCI led the effort to merge the Essential Energy Everyday (EEE) website with the BCI website to create one, holistic and user-friendly website to engage and inform U.S. policymakers, federal regulators, staff, policy influencers, BCI members and other stakeholders. The new site boasts 96 main content pages and more than 475 posts, resources, publications, case studies and events.

This work was rewarded with a Gold dotCOMM Award for website redesign. Since the May 1 launch through September 30, the site received 22,120 users from the United States, China, India, Canada and the United Kingdom, with more than 70,000 pageviews.

The website launch was accompanied by an update of BCI's graphic identity to align with the association's increased advocacy and Capitol Hill presence. A new BCI logo was part of a branding refinement project that moved the EEE brand under the BCI umbrella, while retaining equity built through the ALBCI.

2023 advocacy was aligned with Congressional priorities with a focus on:

- The essentiality of lead batteries to national security and infrastructure
- The unique U.S.-based supply chain/manufacturing system
- The unrivaled sustainability and circular economy of lead batteries

These messages were delivered directly to policy makers on May 10 during a briefing on Capitol Hill titled "U.S. Battery Manufacturing: Meeting Domestic Energy Storage Demands for Electrification, Grid Resiliency and Low-Carbon Solutions." Representative Daniel Meuser (R-PA) introduced the stellar panel of senior executives from Hammond Group, ENTEK International, East Penn Manufacturing Co. and EnerSys.

96

Main content pages on the new website

Posts, resources, publications, case studies, and events on the new website

475



Strategic Communications (continued)

Two Major Reports Released

BCI published two major reports during the year that demonstrated the impact of the industry on the economy and sustainability. The Economic Contribution of the U.S. Lead Battery Industry in 2021, was compiled by Boston-based EBP Group who found that the industry makes a \$32.9 billion annual economic impact and provides more than 121,000 jobs. The National Recycling Rate Study, prepared by Vault Consulting, confirmed that lead batteries are the most recycled consumer product in the U.S. with a recycling rate of 99%.

ALBCI published 35 blog posts during the year, which were amplified through social media.

Geofence ads, narrowly focused to reach specific buildings and geographies in D.C. and other areas, were used for four campaigns and proved highly effective. They included:

- Economic Impact Study
- National Recycling Rate Study
- DOE ESGC Summit (Atlanta)
- Washington Times op-ed on need for equal R&D investment in lead batteries

The thought leadership program, Essential Insights, and the Essential Energy Tour campaigns continued to position industry executives and BCI member companies at the forefront of energy storage and innovation.

Award-Winning Team Achievement



ALBCI was recognized with a Platinum dotCOMM Team Achievement Award for its body of work since 2017.

The honor acknowledged the years-long program to educate policymakers and stakeholders on the facts of lead batteries as a critical, sustainable energy storage solution. The award was shared by the communications staffs of BCI and member companies Clarios, East Penn Manufacturing Co., Ecobat, EnerSys, Interstate Batteries, Redland Energy Group, Stryten Energy, The Doe Run Company and Teck Resources Limited as well as the group's marketing partner Activated Growth.

Events

EHS Conference

The biannual BCI Environmental, Health and Safety (EHS) Conference is the largest meeting of lead battery manufacturing and recycling industry EHS professionals in the United States.

BCI hosted its 2023 Environmental, Health and Safety (EHS) Conference from September 21-22 in Nashville, Tenn., with more than 80 BCI members and non-members in attendance. This two-day conference focused on current hot topics related to the lead battery industry, including insights on EPA and enforcement trends, a presentation from NIOSH, best practices for handling an EHS compliance inspection, updates on the blood lead health science (SPHRL and ILA/BCI PbPk analyses), regulatory updates for North America and the EU. Several member-led panel sessions focused on best practices for training programs, blood lead worker improvement, medical considerations (e.g., ADA, workers comp) and member experiences with inspections.



New to the conference this year, BCI offered a half-day Lead EHS Bootcamp that was designed for new employees and those new to the lead industry. Sessions in the bootcamp included Lead EHS 101, OSHA Requirements for Facilities Handling Lead Today and Under Future Cal-OSHA and Worker Hygiene Program Fundamentals.

Committee Week

BCI relies on the expertise of its members through participation in committees to develop and maintain the primary industry standards and represents the industry before state and federal regulatory bodies, standards-setting organizations, policymakers and the media. This year, Committee Week included a joint breakfast with all participating committee members to preview the upcoming 100th Anniversary Celebration for 2024.

2023 EHS Sponsors:

- Esca-Tech
- State Safety and Compliance

Events (continued)

BCI Convention + Power Mart Expo

The 2023 BCI Convention + Power Mart Expo was held from April 24-26, at the Louisville Marriott Downtown in Louisville, Ky. for the largest gathering to date of battery industry executives. Over three days, more than 450 top executives in the battery industry from 20 countries and 33 exhibiting companies came together to network, share their experiences and insights, and gain access to valuable knowledge and industry trends.

Chris Pruitt, 2023 chairman of the BCI Board of Directors and CEO and president of East Penn Manufacturing Co., shared in his opening remarks that “our world is hungry for energy and energy security like never before. It’s going to take all of us working together to find solutions [that] help optimize it, conserve it and sustainably store it.”

Sessions throughout the event supported that goal of advancing solutions in this critical era of essential energy storage. Presenting companies for the convention’s general sessions included Clarios, East Penn Manufacturing Co., Fire Rover., Hollingsworth & Vose Co., Stryten Energy and Teck Metals.

Read a portion of the leading thoughts and research shared at the 2023 Convention in two roundup pieces: 1) expert Nick Starita’s (Hollingsworth & Vose Co.) [North American industrial battery market forecast](#) and 2) [transportation market update from Rebecca Conway](#) (Clarios)



BCI also hosted its Technology and Innovation Summit Workshops at the Convention with 11 presenting organizations including American Electric Power, Argonne National Laboratory, Batt-Tek Consulting, LLC, CleanTech Strategies, CMBlue Energy, Gridtential Energy, Invinity Energy Systems, Oak Ridge National Laboratory, Stryten Energy, Thermal Hydraulics Group and the University of Toledo.

Last, with an eye toward the future, researchers in university, governmental and commercial settings participated in the Battery Poster Research Showcase and shared cutting-edge science and technology for this critical industry.



2023 Convention Sponsors:

- ENTEK International
- Haijiu/Skyrich
- Hollingsworth & Vose
- Microporous
- Daramic

Events (continued)

Quarter Century Club

Hal Hawk, president of Crown Battery, former chairman of BCI and Half-Century Club member hosted the annual Quarter Century Breakfast, inducting seven quarter-century members and one half-century member. The keynote speaker, Fred Wehmeyer of U.S. Battery Manufacturing Co., hit on an integral part that defining the battery industry is not a one size fits all. Over the years, through developing technologies and projects, it has allowed us to reflect on some of the best attributes of batteries.

2023 Quarter-Century Year Club Inductees

- **Joel Brady**, East Penn Manufacturing
- **Tim Connolly**, Hollingsworth and Vose Company
- **Marc Desautels**, Terrapure Environmental
- **Maurice Jauregui**, Sorfin Yoshimura
- **Eric Miller**, Daramic
- **Christian Papmahl**, INBATEC GMBH
- **Steve Stack**, Terrapure Environmental

2023 Half-Century Year Pin Recipient

- **Fred Wehmeyer**, U.S. Battery Manufacturing Co.

579

Quarter-Century Club Members

39

Half-Century Club Members



Award Recipients

BCI Innovation Award



INNOVATION AWARD
In honor of Sally Breidegam Miksiewicz

Each year, the BCI Innovation Award, presented in honor of Sally Breidegam Miksiewicz, showcases the gold standard in lead battery innovation. Congratulations to the 2023 BCI Innovation Award winner, Gopher Resource!

Gopher Resource has been recognized for its patent-pending SCRUM process, which efficiently separates tin and lead from lead blast furnace slags with 99% selectivity. The process produces LME-grade tin and lead bullion for new batteries, leaving behind environmentally-friendly SCRUM Slag with potential commercial applications. Gopher Resource, an environmental solutions provider, is dedicated to transforming waste lead batteries into reusable materials, contributing to a circular economy and addressing waste minimization, water reuse, and greenhouse gas emission goals in the battery recycling industry.

Learn more about the companies that competed for the 2023 BCI Innovation Award by watching this [video](#).

BCI Amplify Award



Each year, the BCI Amplify Award recognizes a highly effective and top-rated internal or external campaign, program or communication that serves to inform, educate and promote lead battery products, components, services or the industry based on four key pillars: innovation, sustainability, essentiality and safety. In 2023, C&D Technologies was awarded the Amplify Award for communications excellence.

Discover the remarkable impact of C&D Technologies' campaign, featuring the "Power of the Plus." Designed to educate and engage data center engineers, this transformative campaign highlights the innovative Pure Lead Plus (PLP) Battery. With captivating visuals, engineers gain insights into PLP's unrivaled reliability, performance and sustainability benefits. The integrated campaign surpassed sales goals and delivered exceptional results. Unleash the potential to reduce costs and optimize data center efficiency with C&D Technologies' "Power of the Plus" campaign. Learn more [here](#).

[Learn more](#) about all of the companies that submitted for the 2023 BCI Amplify Award.



Battery Council International

**Distinguished
Service Award**

The BCI Distinguished Service Award is BCI's highest honor recognizing individuals who have made a sustained, long-term and meaningful contribution to the advancement of both the association and the battery industry. Given the prestige of this award, there is not an honoree selected every year, rather only as determined by the award committee.

Women in the Global Battery Industry (WGBI)



Women in the
Global Battery Industry

Women in the Global Battery Industry (WGBI) was launched in 2022 to promote and develop the growth of women professionals in the battery industry and to inspire industry leaders of the future.

The mission of the organization is to bring women in similar industries together to derive benefit for themselves and their companies through relationship building, education and knowledge sharing. WGBI's programs and activities aim to enhance members' skills and experience, address challenges confronting the industry and promote members' career growth with the goal of increasing the number of women employed in the battery industry. Membership is reserved for women who are career-oriented and seek opportunities for professional growth and achievement.

WGBI has over 200 members and is comprised of both the professional and academic segments of industry.

WGBI's 2024 goal is to create a global organization across all battery chemistries. Members benefit from educational offerings, networking events, informal discussion groups, a mentorship program and more.

WGBI Program Highlights

Mentor program: WGBI sponsors a mentor program for its members. The program strives to provide members an opportunity to connect with and learn from experienced women in the industry, grow leadership skills and receive and provide career advice.

Webinars: WGBI hosts quarterly webinars for members. The webinars are focused on industry and career development related issues and challenges. The webinars are well received, attracting a large number of active members.

Energizing Conversations: WGBI members meet every other month for an informal discussion on topics selected by and led by members. In advance of the "conversation," participants are asked to read a brief article or listen to a TED-style Talk to enhance the member exchange of ideas. The conversations have been centered around career and personal development topics. Typically, the conversation is related to a brief article or TED-style Talk.

Membership Development and Recruitment: Since its first year, WGBI has grown to over 200 members. Looking forward, the organization's goal is to develop global membership through targeted outreach in Europe, South America and Australia.

Marketing: 2023 was an exciting year for WGBI with the launch of our own signature website, WomenInBatteries.org, and the release of several new pieces of collateral, which are proving valuable as we broaden our marketing efforts. We look forward to continuing to support the growth of WGBI in 2024.

WGBI (continued)

In-Person Events

WGBI hosts a business meeting and networking reception each year during the BCI Convention + Power Mart. The gathering is open to WGBI members, potential members, and allies. This provides an opportunity for members to gather in person and hear from the Steering Committee about the work that is done on behalf of our members. The networking reception that follows is a great opportunity to mingle with female executives and members of the community.

In addition to the annual networking reception at the BCI Convention + Power Mart Expo, WGBI hosts events at different battery conferences and events, including the European Lead Battery Conference (ELBC), Asian Battery Conference (ABC), BCI Committee Week and other venues. Members and non-members alike enjoy the opportunity to be briefed on WGBI year-to-date accomplishments and meet other professionals and members of the academic and professional communities.

Leadership

Steering Committee:

- President – Julie McClure, MAC Engineering
- Vice President/Treasurer – Virginia Archibald, Surrette Battery
- Secretary – Ellen Maxey, Clarios
- Treasurer – Terri Grocela, Hollingsworth & Vose Co.

Subcommittees and Chairs:

- Membership Recruitment – Teresa Grocela, Hollingsworth & Vose
- Member Education – Ellen Maxey, Clarios
- STEM Education – Negin Salami, Clarios
- Marketing – Rebecca Conway, Clarios

Staff:

- Susan Bernard, Director



New BCI Members in 2023



100
YEARS OF
.....+
INDUSTRY
LEADERSHIP

Celebrating BCI's 100-Year Anniversary in 2024

2024 is a big year for BCI, as it marks its 100th anniversary. BCI is starting to plan for this momentous 100-year celebration with revamped education, trade resources and member-only benefits pertinent to the lead battery industry. We can't wait for you to join us at this historic celebration!

Stay tuned for more information on the celebration plans!

Member Resources

BCI Statistics Program

Stay ahead of the curve with data that informs your business. The BCI Statistics Program provides BCI members access to an exclusive set of data featuring automotive and industrial battery shipment volumes. Subscribers receive monthly reports that allow you to benchmark your performance to make informed decisions on the market. The program is the only North American source of battery shipment volumes based on data provided by battery manufacturers. This valuable data is available to BCI members and free for manufacturers that contribute data.* Subscribe today to receive the year-end report with insights to drive your business decisions in 2024.

**BCI members ineligible to participate in the program can access the monthly reports by subscribing to the BCI Statistics Program. Battery manufacturers and importers that participate in the data-reporting program receive access to the monthly reports at no additional cost.*

Source BCI

[Source BCI](#), the digital version of the Data Book, includes over 85 years of data for more than 160,000 vehicles. Source BCI is updated quarterly so you're equipped with accurate information year round. Purchase your Source BCI annual subscription and receive instant access to the newly redesigned [SourceBCI.com](#) website.

Lead Battery State Retail and Recycling Laws Guidebook

The [BCI Lead Battery State Retail and Recycling Laws Guidebook](#) provides a comprehensive compilation of the laws and regulations in all 50 states that govern the retail sale and recycling of lead batteries.

Since 1990, BCI has supported the adoption of state laws that encourage the responsible recycling of lead batteries and has published the [BCI Model Legislation](#). Today, most U.S. states have adopted the BCI Model Legislation, or similar legislation, but each state's implementations vary. To help keep members and retailers on top of the varying requirements, each state's requirements are presented in detail, with explanations of key elements, and citations and links to the relevant state laws and regulations.

For a high-level summary of each state, visit the [BCI State Recycling Laws page](#).

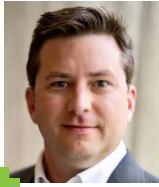
BCI Online Store

For even more member resources, check out the Online Store, where you'll find access to Technical Manuals, Labeling Manuals and more.

"With improved cooperation among stakeholders, increased research funding, and by following the circular economy example of lead batteries, the U.S. can regain domestic supply chain security and advance a low-carbon and renewable energy future."

– Dr. John Uhrie, Vice President of Exploration, Research and Technical Development, The Doe Run Company

Meet the BCI Team



Roger Miksad

President and Executive Director, EHS Steering Committee, Energy Storage Systems Initiative



Susan Bernard

Director of Regulatory and Technical Affairs, EHS Steering Committee, Technical Committee, Industrial Battery Charger Committee, Deep Cycle and EV Committee, Flow Battery Industry Group



Jeff Reeves

VP of Communications and Marketing, Advancing Lead Batteries Communications Initiative (ALBCI)



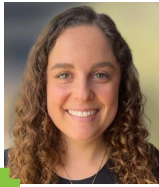
Meg Czaikoski

Director of Membership and Operations, Convention Planning Committee



Andrew Hamill

Associate Director of Operations, Data Book Committee, Product Information Committee, EHS Steering Committee, Energy Storage Systems Initiative



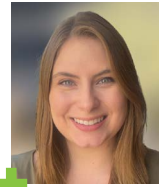
Lauren Miller

Events Manager



Anna Brooks

Events Coordinator



Liz Orr

Tradeshaw Coordinator



Renee Riedel

Senior Coordinator, Education and Learning

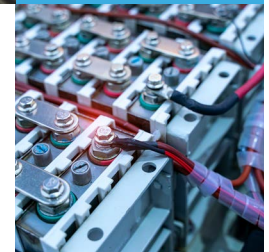
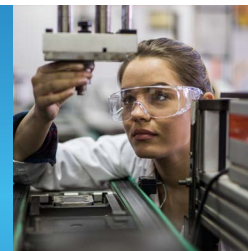


ESSENTIAL ENERGY EVERYDAY

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BCI 2024 Convention + Power Mart Expo



100 years is just the start.

April 21-24, 2024

Fort Lauderdale, Florida

