

Roger Miksad | BCI President & Executive Director



BCI - Serving the Industry Since 1924

Members include manufacturers, recyclers, suppliers, distributors, retail, marketers, and consultants.

Our work touches every lead battery company that <u>does business</u> in North America.

140+ Members

\$33 billion+
member footprint

Manufacturers: Battery Builders,

Bulldog Battery, Bosch, Clarios, Crown,

C&D/Trojan, East Penn Manufacturing,

EnerSys, Enerya (Gohner), Leoch,

Moura, Stryten Energy, Surrette, U.S.

Battery, Yuasa, & more

Recyclers: Clarios, Corporacion

Pipsa, East Penn, Ecobat, Element

Resources, Gopher Technologies, M3

Resources, Sanders, Teck, Terrapure,

& more





North America's battery industry includes



SLI and low-voltage applications in automotive, marine, and power sports



Motive power in industrial and material handling equipment



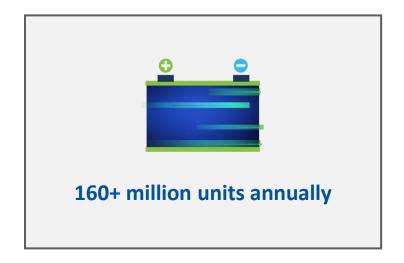
Stationary storage for local backup power, grid-scale support and UPS

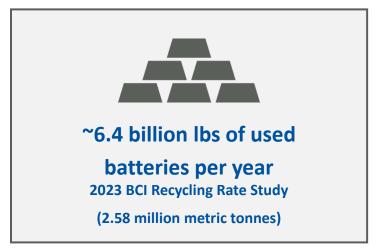


Next-gen energy research, from AGM to flow, sodium, zinc, and lithium.



Statistics on U.S. Lead Battery Market







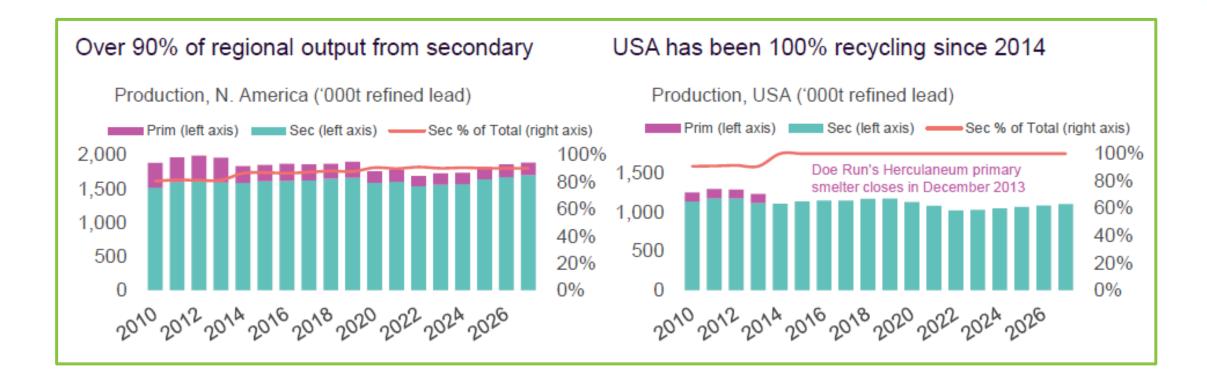








North American Lead Production

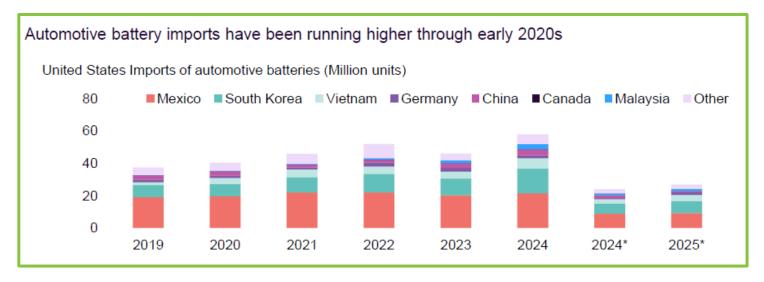


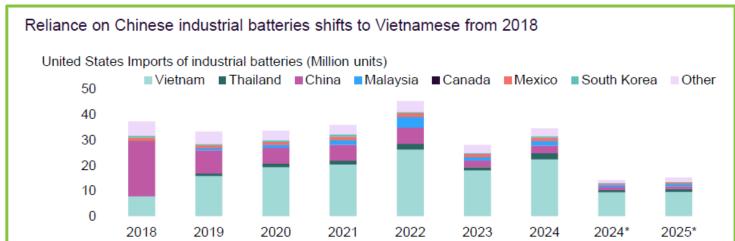
North America does not achieve 100% lead demand through recycling alone

US Federal Government designating lead a Critical Mineral in 2025



Statistics on U.S. Lead Battery Market





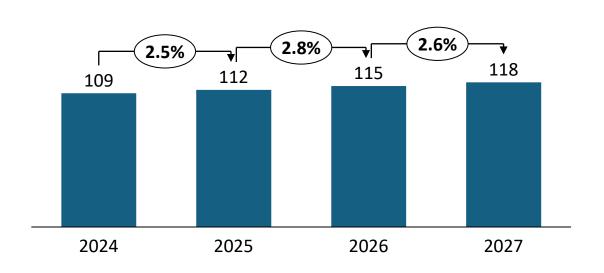
While tariffs have created uncertainty, the long-term trends shows key trade relationships...

- China
- Malaysia
- Vietnam
- Thailand
- South Korea

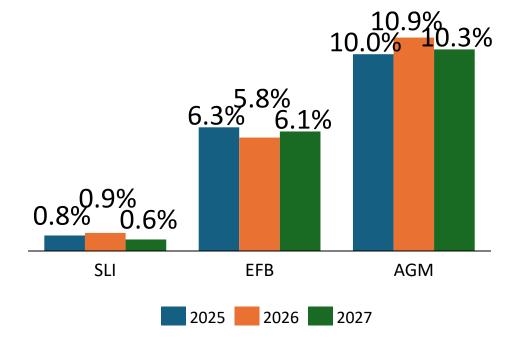


BCI Member Survey – 3-Year Automotive Forecast

North America Shipment Forecast (M Units)



Forecasted % Growth by Technology





Section 45X Production Tax Credits

Battery Component Credit Amounts

- Battery Cells: \$35 per kilowatt-hour of capacity
- Battery Modules (with cells): \$10 per kWh capacity
- **Electrode Active Materials:** 10% of production costs incurred



Credit Phase-Out Timeline

2025-2029

Full credit amounts available

2030

75% of full credit value

2031

50% of full credit value

2032

25% of full credit value



Technical Requirements - Capacity and Documentation





Capacity Measurement Standards

- Recognized Standard: IEC 60086-1, USABC Battery Test Manual, or equivalent
 - o BCIS 25 (Ed. 1, 2025)
- Capacity Limitation: 100 Wh/L energy density minimum
- Third-Party Verification: Independent testing and certification required
- Technical Documentation: Specifications and testing protocols mandatory



Key Implementation Requirements

- **US Production:** Final manufacturing must occur in United States or US territories
- Ex-US Components Allowed: Minumum US-domestic content thresholds
- Substantial Transformation: Complete manufacturing process, not assembly only
- Unrelated Person Sales: Components must be sold to non-related entities



Substantial Transformation - Qualifying Activities

Manufacturing Activities That Qualify

- Battery Cell Production: Complete electrochemical assembly including electrode preparation
- Module Integration: Combining cells with electrical interconnections and thermal management
- System Assembly: Integration with battery management electronics and protective housing

Activities That Do NOT Qualify for Credits

- "Form and Finish": Adding electrolyte to pre-manufactured dry cells
- Minor Assembly: Installing external casings on completed battery modules
- Superficial Modification: Surface treatments, painting, or product labeling
- Simple Packaging: Combining finished components without functional integration





FEOC Definitions - Listed Entities and Foreign-Influenced



Specified Foreign Entity Categories

- Government entities and instrumentalities of covered nations (China, Russia, Iran, N. Korea)
- Entities organized under laws of covered nations
- Citizens/nationals of covered nations (non-US residents)
- Entities controlled by covered nation governments or citizens



Foreign-Influenced Entity Thresholds

- Single SFE Ownership: Greater than 25% entity ownership
- Multiple SFE Ownership: Greater than 40% aggregate ownership
- **Debt Holdings:** Greater than 15% of outstanding debt held by SFEs
- Control Rights: Authority to appoint officers or exercise effective production control





Qualifying Non-FEOC Materials and Components



Raw Materials from Non-FEOC Sources

- Battery Metals: Lithium, cobalt, nickel, manganese from qualifying suppliers
- Carbon Materials: Graphite and carbon compounds from compliant entities
- Processing Chemicals: Electrolyte salts and solvents from non-FEOC manufacturers
- Structural Materials: Aluminum, steel, and housing materials from qualifying sources



Manufactured Components from Non-FEOC Entities

- **Cell Components:** Separators, current collectors, and electrode materials
- Electronic Systems: Battery management components and monitoring equipment
- Assembly Materials: Adhesives, thermal interface materials, and packaging components
- Processing Services: Material refinement and purification from compliant providers



Material Assistance - Non-FEOC Content Requirements

Escalating Domestic Content Thresholds







BCI 2026 Convention + Power Mart Expo

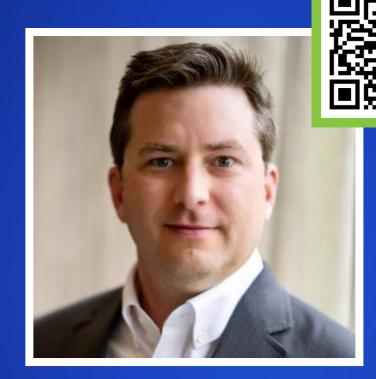
Registration Opens Soon Booths Available Now







Thank You!



Roger Miksad

President & Executive Director

Battery Council International



SINCE 1924



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