

Battery Metals Association of Canada

RECAP & RECHARGE

**A Bold Vision for the
Battery Metals Value Chain**

Strategy

From detailed industry analysis to concrete actions forward, BMAC is mapping out the opportunities for Canada's battery industry.

Action

Connecting the industry, enhancing its profile and increasing its exposure, BMAC is stimulating collaboration and industry development.

PURPOSE

Bold Transformative Vision

In 2042, Canada's battery metals supply chain is a significant contributor to Canada's prosperity and the global energy transition. We know that we'll have been successful if the Canadian battery metals value chain:

- Is a sought-after supplier of battery metals and of value added, finished goods and exportable technologies that meet our decarbonization needs domestically and supports world markets.
- Sets world-leading ESG standards and transparency for the global industry in responsible and sustainable mining.
- Contributes significantly to the social and economic well-being in the communities we work in and the equity seeking groups we work with.
- Attracts, builds and retains talent through research, development & deployment.
- Serves to build and grow the value chain as a whole to expand opportunities for all.
- Collaborates North American-wide to commit to investment across nations in battery metal/mineral extraction and processing.
- Recycles and reuses materials and components as part of a geographically-optimized circular economy connected to the rest of North America.

WELCOME

Letter from the Executive Director

It is hard to believe that 2023 is now behind us, and as we are well on our way into 2024 and BMAC is already embarking on many new initiatives, we wanted to take the opportunity to look back at some of our work over the past year. This second annual edition of BMAC's Recap & Recharge year in review highlights some of the key work that BMAC has been engaged in, the collaborations we have been part of and the notable events we participated in. As you will see, it was a busy year.

And although it was busy, these efforts proved to be fruitful as they provided excellent opportunities to highlight the developments that have been happening across Canada's battery value chain, as well as the opportunities ahead. From presenting on BMAC's work to promoting member developments and even providing opportunities for industry stakeholders to connect and collaborate, BMAC's core focus has remained on supporting the battery value chain and helping to foster its growth.

Supporting the battery value chain & fostering its growth.

And with many successful initiatives now complete and behind us, it is on to another full slate of new initiatives ahead for BMAC in 2024. With many exciting things planned, BMAC's focus going forward will continue to be on promoting the development of and investment in Canada's rapidly emerging battery value chain, helping members to meet their 2024 objectives as well.

Of course, many thanks to all the BMAC members for their continued support and participation in this important work. We look forward to engaging with you on another busy year ahead!

Best regards,
Sean De Vries

WHERE WE'VE BEEN

Representing, Promoting & Advocating

- B** Critical Minerals Task Force
- B** Industry roundtables – End-of-Life Vehicles; EV Strategy & Battery Value Chain
- B** International Outreach – German Automotive Industry Association; Japanese Battery Association Supply Chain
- B** Mining and Prairie Economy Roundtable
- B** New Economy Canada
- B** Canadian Circular Economy Summit
- B** ZEV Showcase
- B** University of Ottawa Critical Minerals Roundtable
- B** Canada / UK Critical Minerals Industry Conference
- B** Canadian Embassy in Washington Critical Minerals Seminar
- B** Cobalt Congress



Industry Insights

A CASE FOR BATTERY HUBS: INDUSTRY BEYOND THE MINE

This interactive information session explored how a mining electrification ecosystem organically developed around the mines in the Sudbury, Ontario area. Evolving from a focus primarily on extraction of the local mineral deposits the region's focus expanded significantly into industrial development and innovation, which is supported by research and training from the academic sector and has resulted in a thriving, interconnected industrial hub. Sudbury's natural industrial development provided an excellent example of how emerging battery hubs in Canada can spur innovation and industrial development right across the value chain.

THE POTENTIAL OF CANADA'S LITHIUM BRINE INDUSTRY

*BMAC in the
News,
Innovation News
Network*

CATHODE CHEMISTRY & THE IMPACT ON A SUSTAINABLE SUPPLY CHAIN

Hearing from Nano One Materials about their unique One Pot method for producing battery cathode materials, and the environmental benefits compared to other processing methods, it is clear that not all cathode production is the same. Eliminating waste by-products, enabling the use of alternative forms of raw materials and reducing the number of processing steps all make a compelling case for this unique homegrown cathode process that is poised to make a significant impact (in the right direction!) on the industry.



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FROM MINE TO CATHODE: THE ESG CASE FOR PHOSPHATE & LFP

While there is much talk about nickel-based EV batteries, another interesting chemistry, lithium iron phosphate or LFP, is quickly gaining in popularity due to its characteristics related to safety, cost-effectiveness and battery longevity. With an ample supply of some of the world's purest phosphate and the ability to process it into cathode active material with much less environmental impact, this discussion covered the many significant advantages that Canada has in developing an LFP industry and producing a chemistry that some estimate could make up over 60% of the future EV battery market.

FLOW THROUGH SHARES & CRITICAL MINERALS

Although they have been around for many years and are a key tool used to finance junior mining exploration in Canada, flow-through shares are not well understood by many. In this informative presentation, Peter Nicholson, President & Founder of Wealth Inc., describes not only what flow-through shares are but how Wealth Inc. has used them to facilitate more than \$1 billion in financing for junior mining exploration, while enabling over \$350 million in charitable donations.

Working with our lithium brine member companies, and the Innovation News Network, BMAC helped map out Canada's potential to produce lithium from brine and the impact it could have on industry.

NEW PARTNERSHIPS

Global Battery Alliance

**GLOBAL
BATTERY
ALLIANCE**

BATTERIES POWERING
SUSTAINABLE DEVELOPMENT

BMAC started 2023 in a big way, by becoming a member of the Global Battery Alliance (GBA).

This partnership of 120+ businesses, governments, academics, industry actors, international and non-governmental organizations, is collaborating to ensure that battery production not only supports green energy, but also safeguards human rights and promotes health and environmental sustainability.

With such close alignment in work and missions, membership in the GBA is a logical fit for BMAC. It will also present an excellent opportunity to keep abreast of developments across the industry and around the world.

BMAC hopes to use this collaboration as a way to gain further insights on initiatives like the Battery Passport, to help members better understand how these requirements will apply to Canada's battery value chain.

The Global Battery Alliance (GBA) is a public-private collaboration platform founded in 2017 at the World Economic Forum to help establish a sustainable battery value chain by 2030.

The GBA has Action Partnerships working on several key industry initiatives:

- [Battery Passport](#)
- [Critical Minerals](#)
- [Energy Access & Circularity](#)



2 Industry
Networking
Cocktail Events

3 Mining
Innovation
Showcase
Webinars

4 Industry
Workshops

CONNECTING & COLLABORATING

B

FEBRUARY

Technology Showcase: A Case for Battery Hubs
Technology Showcase: Cathode Chemistry & the Impact
on a Sustainable Supply Chain

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MARCH

Critical Minerals & Cocktails
Technology Showcase: From Mine to Cathode, the ESG
Case for Phosphate

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APRIL

Ecosystem Map, V.2 Published

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JUNE

Webinar: Flow Through Shares & Critical Minerals

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OCTOBER

BMAC's CHARGED! Battery Conference
Workshop: Supporting Development through International
Expansion with IRAP International
Workshop: Opportunities for Academia & Industry
Partnerships with the University of Calgary

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DECEMBER

Workshop: BMAC's Metals Strategies, Series One

EVENTS

CHARGED! Battery Conference

From October 23rd - 25th, BMAC hosted our first annual **CHARGED! Battery Conference**. A long time in the making, the BMAC team was beyond excited to gather a group of over 125 attendees representing 70 different organizations at our much anticipated event.

The main event and cocktail reception took place on Tuesday, October 24th, while workshops hosted in partnership with IRAP International and the University of Calgary took place on the 23rd and 25th respectively.

A great big thank you to our wonderful sponsors and speakers, who helped make the event the success it was!

BMAC | Battery Metals
Association of Canada

CHARGED! BATTERY CONFERENCE

EVENTS

CHARGED! Battery Conference

BMAC's first annual Conference featured the following:

State of the Battery Industry

- Emma Jarratt, Electric Autonomy Canada
- Alla Kolesnikova, Adamas Intelligence

Industrial Strategy & the Tools for Building a Robust Battery Ecosystem

- Tom McCaffery, Emissions Reduction Alberta
- David Yiptong, Foresight Canada

Pathways to Success Through Indigenous Partnerships

- Miles Jolliffe, Kinetic Canada
- Philip Lee, Three Fires Group
- Tom Isaac, Cassels

Navigating Policy, Regulations & Permitting Requirements

- Mike Simpson, ADM AB Energy & Minerals
- Jeremy Baretto, Cassels
- Kelsey MacCormack, AB Energy Regulator
- Robin Boschman, E3 Lithium

Strategic Value Chain Opportunities for the West

- Michele Evans, ADM Prairies Economic Development Canada
- Dr. Muhammed Imran, Saskatchewan Research Council
- David MacLean, Alberta's Industrial Heartland

Project Funding, Grants & Incentives

- Kendra Johnston, PearTree Securities Inc.
- Reggie George, Three Fires Group
- Marc Leblanc, Natural Resources Canada
- Brian Bidyk, McCarthy Tétrault

Downstream Perspectives to Support End-Use Applications

- Laura Kennett, Grengine
- Spyros Gorgogiannis, Exro Technologies
- Daniel Breton, Electric Mobility Canada
- Brian Nicholson, Energy Futures Lab

➤➤➤ RECAP & RECHARGE

EVENTS

Critical Minerals & Cocktails

BMAC is thrilled to host another sold out event! We will be welcoming folks from Industry, Investment and Government.

➤➤ <<<

Monday, March 4th 2024



Platinum Sponsors



E3 LITHIUM



PearTree

Gold Sponsor



Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

New Members



Adamas Intelligence

Providing independent research and advisory services, Adamas Intelligence helps clients make informed decisions involving critical metals and minerals.

In 2022, our industry-leading research and advice guided over \$1 billion of investment commitments into the markets we cover.



At Daniola, we understand the importance of traceability in the mining supply chain and the need for tracking the provenance of minerals and metals. That's why we've built a platform that puts traceability and transparency at the forefront of its design.

With a focus on battery metal materials, our platform provides a secure end-to-end solution that allows you to track the journey of your minerals and metals from the mine to your hands, ensuring that you know exactly where your materials come from and how they were sourced.

Call2Recycle Canada, Inc.

Changing habits. Inspiring action.™

Call2Recycle, Inc. works on behalf of stakeholders to provide its battery recycling program, Call2Recycle®, at no-cost to consumers across Canada. Over 90 percent of people in Canada reside within a 15-kilometer radius of a Call2Recycle drop-off site – making battery recycling convenient and easy. Since inception, the program has recycled over 11 million kilograms of batteries, keeping them out of local landfills and recovering the valuable materials that can be used to create new batteries and other products. Call2Recycle meets the highest standards of responsible recycling.



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NEW MEMBERS



Founded in 2016, Energy Storage Canada (ESC) is a not-for-profit organization and the only national trade association in Canada dedicated solely to the growth and market development of the country's energy storage sector as a means of accelerating the realization of Canada's ongoing energy transition and Net Zero goals through advocacy, education, collaboration, and research.



Geoscience BC's independent, public geoscience is a first link in the supply chain for Canada's net-zero emissions economy.

Our critical minerals and metals, cleaner energy and geological carbon capture and storage research is funded by industry, government and others. It informs evidence-based decisions by industry, governments, Indigenous groups and communities.

Membership Benefits

- B** Connect & collaborate with industry thought leaders through BMAC events & activities
- B** Shape the vision & strategic direction of the burgeoning battery industry across Canada through concrete strategy & actions
- B** Contribute to & leverage the strength & learnings of the entire ecosystem from exploration to recycling
- B** Influence the strategic development of Canada's battery ecosystem
- B** Highlight your organization as an industry leader & demonstrate its commitment to the green energy transition

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NEW MEMBERS



Global Energy Metals Corp. offers investment exposure to the growing rechargeable battery and electric vehicle market by building a diversified global portfolio of exploration and growth-stage battery mineral assets.

Global Energy Metals recognizes that the proliferation and growth of the electrified economy in the coming decades is underpinned by the availability of battery metals, including cobalt, nickel, copper, lithium and other raw materials. To be part of the solution and respond to this electrification movement, Global Energy Metals has taken a 'consolidate, partner and invest' approach and in doing so have assembled and are advancing a portfolio of strategically significant investments in battery metal resources.



The Nickel Institute is the global association of leading primary nickel producers. Our mission is to advocate for the responsible supply and sustainable development of nickel and the nickel industry.

The NI grows and supports markets for new and existing nickel applications including stainless steel, and promotes sound science, risk management, and socio-economic benefit as the basis for public policy and regulation.

**Join the sector's
leading organizations
shaping Canada's
battery industry.**

Visit our [Membership](#)
page for details
about joining the
BMAC community!

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NEW MEMBERS



Q Battery Metals is a diversified Canadian mineral exploration company with operations primarily based in the Abitibi greenstone belt region of Quebec. Q Battery Metals Corp. holds 100% ownership in 7 separate Precious and Critical Elements Projects in Canada, and has acquired properties that are currently being explored for potential to host lithium, copper, nickel, cobalt, zinc, molybdenum, and PGE - all listed as critical minerals.



Tearlach Resources is creating a leading lithium company utilizing a world class management team to assess and grow its portfolio into a leading lithium mining company. Through targeted exploration paired with a methodical M & A and engineering rollout, Tearlach is able to lead the charge in the development of strategic supply from multiple projects in Canada.



Three Fires Group is focused on generating wealth and prosperity from economic and infrastructure opportunities for current and future generations. We lend our business capacity and technical expertise to fellow Nations within the Three Fires Confederacy traditional territories and external partners. Through investments and partnerships in major development projects, we support communities and industry to thrive in a modern and sustainable economy and advance reconciliation.

"Canadian innovators are leading the way toward a cleaner future. Today's investment will help to advance the development of a dynamic and competitive critical minerals sector."

***The Honourable Jonathan Wilkinson
Minister of Natural Resources***

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NEW MEMBERS



The University of Calgary (UCalgary) is leading a battery technology development initiative called the Western Canada Battery Consortium (WCBC) that will support Western Canadian efforts for sustainable energy development and economic diversification. Lithium is available in large quantities in brines in the Western provinces. Hence, Alberta has the opportunity to become a world leader from resource extraction over battery production to recycling of new energy storage technologies.



WEALTH (WCPD Inc.) is a boutique financial services firm specializing in tax reduction, philanthropy and financing for junior mining and critical mineral exploration in Canada. WCPD Inc is an acronym – Wealth, Creation, Preservation & Donation. And as the name implies, we create wealth, we preserve wealth, and for our generous clients, we help them donate wealth to charities that touch their hearts.



>>> OUR COMMUNITY

MEMBERS, COLLABORATORS & PARTNERS



ACTION

2024 - 2025 Key Initiatives

- Engage stakeholders to provide insight on Indigenous perspectives and opportunities for inclusion in Canada's Battery Value Chain
- Establish detailed battery metal strategies for: lithium, nickel, copper, graphite, rare earths, vanadium, iron and phosphate
- Coordinate stakeholders to identify and map opportunities for growth of the battery value chain in Western Canada
- Complete a full economic analysis and recommendations for the development of battery hubs in Canada's west
- Complete an analysis on circular strategies to improve efficiencies within the value chain and maximize metals recovery

Your voice is critical.

Join us to engage in
these important initiatives!

TEAM

Directors & Staff

Board of Directors

Chair	Eric Pelletier, Geologist, Matrix Solutions Inc.
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Director	David Redford, Partner, Cassels Brock & Blackwell LLP
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Director	Mitchell Smith, President & CEO, Director, Global Energy Metals Corp

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BMAC

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