



January 29th, 2023

C2M2A — A Year in Review 2022

(Progress Report No. 5)

Thank you to all those who have expressed an enthusiastic interest in the Canadian Critical Minerals & Materials Alliance and its articulated Vision & Mission. I am pleased to report on the significant progress being made as we drive C2M2A's strategies and outreach opportunities.

Federal Policy – Budget, Parliamentary Appearances

C2M2A continues to work with representatives with NRCanada and ISED in addition to submitting briefs and comments on the Canadian Critical Minerals Strategy. C2M2A had also appeared before the Parliamentary Committee on Natural Resources on the subject of Just Transitions in the resource sector. In addition, we have participated in the 2022 and provided input into the 2022-launched three-year CANMet R&D Program, having served as co-chair of the previous six-year R&D effort.

Media

C2M2A continues to be approached by media and trade associations for comments, including: the Wall Street Journal, The Hill, Financial Post, pre & post budget Mining Suppliers Trade Association's, Peartree, Envirolink, Newsweek, CBC News, Innovation News Network, Investorintel, and others. C2M2A's primary messages focused on Canada's natural resource potential and in fundamental importance of building innovative REE material processing techniques, domestic mid- and downstream new customer base. C2M2A also reinforced the need to embrace ESG and circular economy principles.

Collaborating with other Canadians

ACCELERATE - Zero Emission Vehicle (ZEV) Supply Chain Alliance

C2M2A in discussions with a group of industry organizations interested in establishing a ZEV Supply Chain Alliance, a 5-year national initiative bringing together key players across Canada, from mining to mobility, from R&D to commercialization, and from vehicle assembly to infrastructure. The alliance would be focused on establishing a forum for members to collaborate, strategize and advocate for priorities that will support the accelerated development of a ZEV supply chains in Canada. It is strongly believed that Canada can capitalize on the global move to zero emission vehicles by leveraging its strengths in the emerging ZEV supply chain, not only retaining its automotive footprint but expanding into new areas of value-added manufacturing. C2M2A believes it is important that companies along the supply chain organize and align themselves on the policies, programs, and support needed to ensure its growth and success.

www.acceleratezev.ca. Three workshops on critical materials supply chain development were facilitated at MaRS



Battery Metals Association of Canada (BMAC)

C2M2A participated in a one-day virtual workshop hosted by BMAC on March in support of bringing together industry, academia and government in building a collaborative approach under the banner *Maximizing Canada's battery metals sector – building a thriving 'mines to the mobility' supply chain*, ultimately providing industry white paper and sector eco-system map. Discussions focused on needed tax incentives, exports and regulations to support market development, and R&D. This initiative

NGen Critical Materials

NGen is the industry-led, non-profit organization leading Canada's Global Innovation Cluster for Advanced Manufacturing. One of five national networks supported by Canada's ambitious Global Innovation Clusters Initiative. C2M2A worked with NGen as it framed its inaugural grant proposal call focused on critical material technologies.

<https://www.ngen.ca/>

ISO Standards – Critical Minerals & Materials, REEs and Lithium

TC298 REEs: Significant progress continues to be made with some seven standards, including a Traceability standard, the development jointly led by Canada and Australia have already been published. The Working Group focused on Testing & Analysis continues to be very active with nine individual standards under development. Canada has significantly increased the number of its engaged experts as the international REE Technical Committee effort expands further mid- and downstream matters subjects as metals, alloys products and sustainability.

C2M2A also successfully worked with NRCan secure funding for the CSA Group to administer the complex ISO protocols & procedures for REEs, critical materials (SAG) and lithium committees.

Strategic Advisory Group (SAG): Canada has actively sits on the main committee and consultative group (the latter on behalf of the REE Technical Committee). The primary goal of this ad hoc effort is to rationalize efforts across different critical materials supply chains (e.g., Sustainability, some testing & analysis techniques).

ISO/TC333 Lithium: Canada is one of 18 Participating Member countries to this more recently launch ISO effort to develop standards in the areas of lithium mining, concentration, extraction, separation, conversion to useful lithium compounds/materials (including oxides, salts, metals, master alloys, lithium-ion battery materials, etc.), recycling and reuse. Lithium battery standards are not covered under TC333. C2M2A has shared its experience as several experts from the Canadian and main committees also sit on the lithium initiative.

Canada - European Union Collaboration

In February, C2M2A participated in a widely broadcasted EUCCAN-hosted hour-long panel discussion, along with Neo Performance Materials & Dr Roland Gauß, Head of



Innovation and Business Intelligence, EIT Raw Materials GmbH. In June, during PDAC in June, C2M2A participated on moderated panel on German Day. In November, C2M2A and several of its members also participated in European Raw Materials Week with a focus on 'EU-Canada's Partner for Supply Chain Diversification' initiatives. During that week, C2M2A was also invited to present and participate in the discussions during the 14th meeting of the 'Pentalateral' Critical Materials meeting (historically the Trilateral Meeting among EU-US-Japan who recently welcomed Canada & Australia)

Rare Earth International Association (REIA)

C2M2A continued to serve on the Advisory Board and participation at REIA sponsored events. Several of C2M2A's members have now joined REIA directly., securing other Board and Committee seats.

Canada-UK Collaboration

Building on a successful two-day webinar hosted by C2M2A and the UK's Critical Minerals Association (CMA) in December 2021, UK Innovation sent an exploratory to Canada which included a one-day workshop, organized by the UK High Commission & C2M2A, attended by some 100 Canadian & UK experts. In May 2022. This mission was followed up by a visiting senior UK policy makers in July.

COM2022 Critical Mineral Processing

Launched in 2012 as the REE Symposium; this bi-annual internationally recognized critical material symposium focused on hydrometallurgical processing, hosted by the Metallurgical Society of Canada again presented some 40 well-received peer reviewed papers in August.

Our efforts in advocacy and championing Canada's interest in critical mineral & material supply chains could not have been achieved without the commitment and active engagement of its members and partners. For that... Thank you.

Until soon - Be well, Be safe and Be kind.

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