

**Trade
Commissioner
Service** 



**Global
Resources
Innovation
Expo**



TUESDAY 5 MAY

Canada-Australia Mining B2B Connect at GRX26

Canada's Trade Commissioner Service (TCS)

Canada's Advancing International Clean Technology Demonstrations (AICTD)

The Advancing International Clean Technology Demonstrations (AICTD) initiative helps small and medium-sized enterprises (SMEs) showcase and deploy their clean technologies across the dynamic and fast-growing Indo-Pacific region. Jointly led by the Trade Commissioner Service (TCS), the National Research Council of Canada Industrial Research Assistance Program (NRC IRAP), and Innovation, Science & Economic Development Canada (ISED), the AICTD opens doors to new global opportunities.

This mission focuses on sustainable mineral processing, extraction technologies, and clean-energy innovation for remote mining operations. It addresses urgent needs such as reducing diesel use, improving energy efficiency, and optimizing operations.

It connects Canadian cleantech innovators with mining stakeholders in Australia and Indonesia who are actively seeking solutions to reduce diesel reliance, enhance mineral processing efficiency, and strengthen energy resilience in remote operations. Through targeted engagements at the Global Resources Innovation Expo (GRX26) conference and a tailored business program in Perth and Jakarta, the mission helps advance pilot and demonstration project opportunities that allow Canadian SMEs to validate and adapt their technologies in real-world conditions.

The mission also fosters strategic partnerships that support Canada's broader Indo-Pacific Strategy and contribute to global efforts toward sustainable resource development.

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The Trade Commissioner Service helps Canadian businesses grow by connecting them with its funding and support programs, international opportunities, and its network of trade commissioners in more than 160 cities worldwide. Learn more at tradecommissioner.gc.ca.

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Acceleware

acceleware.com

Katherine Tourigny

VP, Decarbonisation

kate.tourigny@acceleware.com

+1-403-619-7660

Direct RF heating cuts energy intensity for many mine-scale thermal applications by 40 - 60%, enabling lower operating cost and improved yield for processes like leaching, plus electrification.

Acceleware has developed a new radio frequency (RF) power-to heat technology that could reduce energy use by 40-60% and significantly improve thermal mining application economics while electrifying them. The company has a critical minerals dryer project underway in Canada and paid feasibility studies in progress in Australia and Chile for heap heating and iron-ore drying, with other projects in discussion, including pelletization. Customers include major mine operators looking to reduce energy and improve throughput for mine-scale heating and drying processes while lowering operating cost.

Acceleware seeks mine operators and engineering partners to deploy mine-scale radio frequency process heat that can cut energy intensity by 40-60%, lower operating costs, and decarbonize mineral processing. Preferred partners are Tier-1 or mid-tier producers with significant energy use in drying, moisture control, or leaching, as well as engineering, procurement and construction firms and original equipment manufacturers able to integrate and scale electrified heating systems. Acceleware's core technology is TRL 9, with a TRL 6/7 (potash/fines dryer); and additional paid studies underway across several mining applications.

Correct-AI

correct-ai.com

Siamak Akhlaghi

Chief Executive Officer

siamaka@correct-ai.com

+1-780-903-8307

Correct-AI redefines industrial safety by merging high-precision sensing with real-time intelligence to eliminate blind spots and optimize performance in complex environments.

The company specializes in enhancing industrial safety through artificial intelligence (AI) and proprietary sensing technology. Its primary product, PROX-EYE, is an advanced proximity detection system that uses Light Detection and Ranging (LiDAR) and computer vision to provide heavy-equipment operators with real-time situational awareness. These solutions help eliminate blind spots and distinguish between humans, vehicles, and obstacles in harsh environments. Correct-AI serves customers in the mining, construction, and agricultural sectors.

Correct-AI seeks partners in Australia and Indonesia who possess deep technical expertise in heavy machinery integration and industrial automation. Ideal partners include established mining equipment, technology, and services (METS) providers and specialized industrial distributors with a strong local presence. These organizations should have experience delivering safety solutions to the mining, construction, or oil and gas sectors. Preferred partners are medium-to-large firms capable of providing on-site technical support, maintenance, and training for advanced AI-driven systems.

Exterra Technologies

exterratechnologies.com

Olivier Dufresne

Chief Executive Officer

olivier.dufresne@exterracarbon.com

+1-514-962-5728

Exterra's ARC technology regenerates chemicals inputs on-site to lower operating costs, eliminate tailings, and enable low-carbon critical mineral production across Australia, Indonesia, and beyond.

Exterra is a Canadian mining technology company developing ARC (Acid Regeneration Cycle), a process that regenerates chemicals inputs on site to reduce operating costs, minimize waste, and support low-carbon production of critical minerals. It provides flowsheet development through its lab, pilot and pre-commercial facilities, and advances toward licensing to mine developers and processors.

The company solves market barriers — chemical supply volatility, capital intensity, and operational risk — that slow mining decarbonization, positioning it as an enabler of critical mineral production.

Exterra seeks partners who own or develop critical mineral projects facing high operating costs, tailings constraints, remote logistics, or chemical supply chain volatility. Ideal partners can supply representative ore, share data, and co-invest in paid test programs progressing from lab to pre-commercial runs. Partners benefit from de-risking their processing strategy and validating efficiency before full-scale deployment. Organizations must demonstrate strong technical capability, clear decision-making structures, and intent to advance toward long-term technology licensing and commercial deployment.

e-Zinc

e-zinc.ca

James Larsen

Chief Executive Officer

james.larsen@e-zinc.ca

+1-416-735-1946

e-Zinc provides low-cost, safe, modular zinc batteries delivering 10–100+ hours of clean energy storage at any size, enabling resilient, affordable, fully renewable power systems.

e-Zinc is a Canadian energy storage company that has developed a breakthrough zinc–air battery for long-duration applications. Its technology stores energy for multi-day use, offering a safe, cost-effective, and sustainable alternative to lithium-ion systems. The company's modular solution helps industrial and remote energy users reduce emissions and operating costs by increasing renewable energy use and decreasing dependence on diesel generation.

e-Zinc is interested in partners with experience deploying and operating energy infrastructure for remote mining and industrial sites. Preferred partners include mining operators, engineering and integration firms, microgrid developers, and energy service providers capable of supporting pilot and demonstration projects, system integration, and long-term operations and maintenance.

GRI Simulations

grisim.com

Desmond Greene

Project Manager

des.greene@grisim.com

+1-709-747-5599 ext. 204

Advanced simulation and digital twin solutions enabling cleaner, more efficient, and lower-risk mining operations.

GRI Simulations Inc. develops advanced simulation and digital twin platforms that support decision-making in complex industrial systems. Its solutions enable mining organizations to model operations, test scenarios, and optimize energy use, logistics, safety, and environmental performance. GRI works with mining, infrastructure, and public-sector organizations to reduce emissions, improve efficiency, and manage uncertainty in remote and resource-intensive environments through high-fidelity modeling and data-driven analysis.

GRI Simulations is seeking partners with expertise in mining operations, energy systems, mineral processing, and digital infrastructure. Preferred partners include mid-to-large-scale mining companies, technology integrators, research organizations, and solution providers capable of supporting pilot and demonstration projects. Ideal partners have experience operating in remote environments and a strategic interest in emissions reduction, energy transition, and digital transformation.

Litus

litus.ca

Nedal Marei

Vice-President Technology

nedal.marei@litus.ca

+1-587-500-5082

Litus delivers field validated, low footprint lithium extraction from brines and battery recycling using proprietary nanocomposites to enable secure, sustainable critical minerals supply.

Litus is a Canadian clean technology company that provides Direct Lithium Extraction (DLE) systems and services to recover lithium and other critical minerals from brines. It also offers battery recycling processes for end of life lithium ion batteries. Its customers include lithium producers, oil and gas and geothermal operators, and battery value chain firms.

Litus prefers partners who operate lithium, brine, produced water, geothermal, or battery recycling assets and can provide representative samples or feedstock and a clear site for pilot testing. Ideal partners have strong operations and engineering teams, engaged decision-makers, and the ability to support data sharing, safety and logistics, and timely execution. Litus is open to collaborating with mid-sized to large operators, as well as well-funded developers, who are focused on commercialization and long term deployment.

Mangrove Lithium

mangrovelithium.com

David Novitski

Director Technical Sales

davidnovitski@mangrovelithium.com

+1-604-710-0894

Clear-Li™ electrochemical refining converts spodumene and other lithium feedstocks into battery-grade carbonate and hydroxide with lower cost, waste, and complexity for miners and CAM producers.

Mangrove Lithium is a Canadian cleantech company that has developed Clear-Li™, an electrochemical refining platform that converts various lithium feedstocks into battery-grade lithium carbonate and lithium hydroxide. Its continuous, modular technology integrates with hard-rock mines, concentrators, and mid-stream processors to reduce reagents, waste, and energy use while improving product quality and ESG performance. Mangrove Lithium's customers include lithium miners, mid-stream processors, and cathode active material producers seeking reliable, low-carbon lithium chemical supply.

Mangrove Lithium seeks partners who own or develop hard-rock lithium projects or mid-stream processing assets, such as spodumene mines, concentrators, and lithium chemical plants interested in integrating innovative refining technologies. The company also welcomes collaborations with cathode active material producers, engineering firms, and research organizations that can support pilot or demonstration projects, product qualification, and scale-up of low-carbon lithium refining solutions in Australia and Indonesia.

NTWIST Inc

ntwist.com

Chowdary Meenavilli

Chief Executive Officer

cmeenavilli@ntwist.com

+1-780-807-4023

NTWIST helps mines cut energy and emissions intensity by turning ore variability into stable, actionable mine-to-mill decisions that improve throughput and recovery.

NTWIST is a Canadian software company that provides artificial intelligence (AI) decision support for mining and mineral processing. Its main products help operations track ore movement, manage stockpiles and blending, forecast plant feed, and improve production stability and efficiency. NTWIST's customers are mine owners and operators and their technical teams.

NTWIST seeks a mid-to-large mine owner/operator with an operating metal mine and process plant in Australia or Indonesia, and a clear need to reduce variability and improve energy efficiency. The preferred partner can provide access to operational data, subject matter experts, and a site champion. Potential partners should be willing to run a time-bound pilot with agreed key performance indicators (KPIs) and a path to scale-up.

SYMX.AI

symx.ai

Ash Agarwal

Chief Executive Officer

ash@symx.ai

+1-872-341-6313

SYMX.AI delivers a single end-to-end AI platform for mobile assets, combining productivity gains (+6% haul cycles) and cost savings with measurable reductions in CO2 and environmental impact.

SYMX.AI provides an end-to-end Artificial Intelligence (AI) and Industrial Internet of Things (IIoT) platform for mobile assets in mining. The platform is used by leading open-pit and underground mining operators to collect, transmit, and analyze equipment data through on-board devices, patented mesh and satellite connectivity, and cloud software. SYMX.AI's solutions have demonstrated up to 9% fuel reduction and 6% productivity improvement.

SYMX.AI seeks project partners with strong operational presence in mining or adjacent resource industries and experience supporting mobile equipment fleets. Preferred partners include organizations active in mining contracting, equipment maintenance, fuel management, tire services, or industrial connectivity. Ideal partners have established customer relationships, regional deployment capability, and the ability to co-deliver pilot projects. SYMX.AI values long-term collaboration focused on improving operational efficiency, sustainability and productivity.

Tersa

tersa.earth

Barinder Rasode

Co-founder and Chief Executive Officer

barinder@tersa.earth +1-604-805-3272

Tersa optimizes mining operations by improving downstream water treatment, neutralizing Acid Rock Drainage (ARD), removing toxic metals, and enabling metal recovery from waste using a self-sustaining biological process.

Tersa's product, the TersaClean system, is delivered as modular on-site bioreactor units and remediation services that neutralize ARD, remove toxic metals, recover metals for sale, and serve as a lithium pretreatment step where applicable. Its customers include mining operators and their water-management value chain. The main incumbent is lime treatment, which does not enable mineral recovery. Alternative approaches such as electrowinning, ion exchange, and filtration involve trade-offs in cost, chemistry fit, treatment scope, and recovery capability. TersaClean is designed to overcome all these limitations.

Tersa is seeking partnership with mining operators looking to optimize their operations by recovering metals from tailings and adopting alternatives to conventional water remediation. TersaClean integrates at the tail end of operations to recover valuable metals, neutralize ARD, and remove toxic metals. It can also serve as a pretreatment to lithium processing by removing contaminant metals and other impurities. Ideal partners are mid-to-large operators (or multi-site owners) with active and closed tailings facilities that contain valuable recoverable resources.

TUGLIQ Energy Corporation

tugliq.com

Pierre Rivard

Executive Chairman

PRivard@TUGLIQ.com

+1-418-809-5396

TUGLIQ Energy Corp. is a specialized independent power producer delivering turnkey diesel-abatement solutions to remote mines and islanded grids, and to their neighboring communities.

TUGLIQ is a specialized independent power producer delivering diesel-alternative solutions using local and proximity resources. The company creates clean energy landmarks in some of the toughest climates and most remote locations, supporting mining operations and communities, and promoting proximity local resources and collective achievements.

TUGLIQ seeks partners for an energy technology demonstration at a remote location typical of major mining operations in Australia, employing energy systems to reduce dependence on diesel generators.

TUGLIQ's partnership goal is to integrate its hybrid renewable-and-storage solution directly into a functioning islanded grid to validate performance metrics such as diesel fuel displacement, reliability under extreme thermal and load conditions, grid stability, and maintenance costs compared with traditional diesel generation

Westgen Technologies Inc.

westgentech.com

Chris Roche

Vice-President – Business Development

chris.roche@westgentech.com

+1-403-860-2282

Westgen's purpose is to empower the energy evolution. We are a sales and customer service company. We nurture strong and trustworthy relationships. Our clients are our family and we treat them as such.

Westgen Technologies is a Canadian energy solutions provider specializing in hybrid and off-grid power. Its Engineered Power On Demand (EPOD) systems combine propane or natural gas generation with solar photovoltaic (PV) and battery storage to reduce fuel use, emissions, and maintenance. Westgen serves, oil and gas, mining, telecoms and agriculture customers in remote settings. Competitors include traditional fuel based power generation methods and various solar only power generation methods.

Westgen's staff includes APEGA accredited engineers and in house certified technicians. The company's main source of revenue is from the North American oil and gas sector. Its team includes 10 full-time employees and 3 contractors. Preferred potential project partners include onshore oil and gas producers, mining companies, and stakeholders in agriculture and other industries requiring reliable remote power.

National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP)

The National Research Council of Canada Industrial Research Assistance Program (NRC IRAP) has been Canada's premier innovation funding assistance program for over 75 years, stimulating wealth creation for Canada through technology innovation. This is largely accomplished by providing advice and targeted funding to small and medium-sized enterprises (SMEs) at all stages of the innovation process, to build their innovation capacity.

NRC IRAP's international initiatives are focused on providing support in a number of key areas, including direct support to SMEs with international interests, technology partnering and joint research and development projects. NRC IRAP works with Canadian organizations and other government departments, such as Global Affairs Canada, to collaborate on international activities that help Canadian firms compete in the global marketplace.

canada.ca/nrc-irap

Canadian Trade Commissioner Service (TCS)

Driving International Innovation and Clean Technology Growth

The **Canadian Trade Commissioner Service (TCS)** is Canada's global business development network, with over 1,000 professionals in 161 offices worldwide, including in Sydney and across the Indo-Pacific.

As part of Global Affairs Canada, the TCS helps Canadian companies grow internationally by providing:

- Market intelligence and strategic advice
- Connections to qualified local contacts
- Support for international R&D and innovation partnerships
- Guidance on navigating foreign regulations and business culture
- Resources for international partners looking to establish or expand operations in Canada

Supporting Clean Technology Collaboration between Canada and the Indo-Pacific

Through the Advancing International Clean Technology Demonstrations (AICTD) initiative, the TCS works with National Research Council of Canada (NRC), and Innovation, Science and Economic Development Canada (ISED) to:

- Identify and support leading Canadian cleantech firms in priority subsectors
- Facilitate high-touch missions to Indo-Pacific markets, including Australia
- Connect Canadian innovators with prominent local end-users and buyers
- De-risk pilot and demonstration projects through a dedicated funding program

Leverage successful demonstrations to drive exports and long-term partnerships in the region

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