

# CANADA: YOUR OPPORTUNITY TO ACCESS CRITICAL MINERALS

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Paris • September 27, 2023



invest  
IN  
CANADA



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This pitchbook aims to share information about the critical mineral projects featured at the *Canada: Your Opportunity to Access Critical Minerals* event on September 27, 2023.

Please note that this pitchbook does not contain a comprehensive list of advanced critical mineral projects in Canada.





## Message from the CEO of Invest in Canada, Laurel Broten

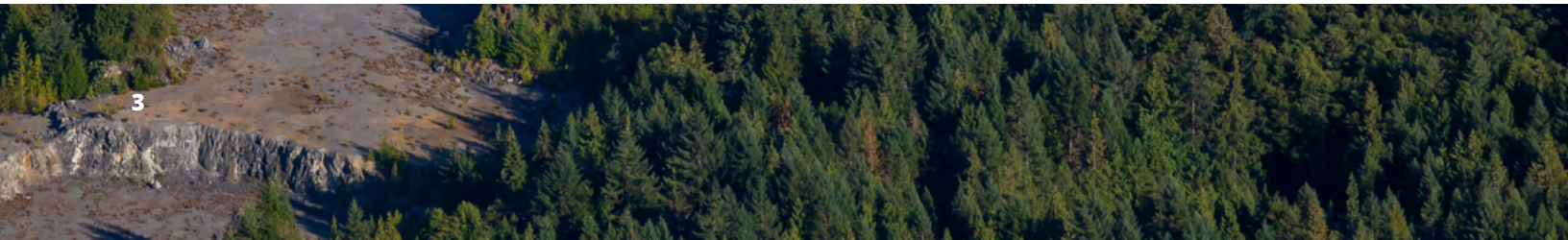
Canada is a mining powerhouse, offering many investment opportunities for global companies looking to expand and build the economy of the future.

As CEO of Invest in Canada, I am pleased to present this curated list of investment-ready critical minerals projects across Canada. In addition to representing strategic minerals and metals, the projects place an emphasis on practicing sustainable mining and serving the supply chains of the future. These opportunities align with the strategic priorities of global investors seeking to decarbonize transportation and accelerate the clean energy transition.

Our team is here to provide more detailed information about these projects, or to connect you with the project proponents. We are also pleased to answer any of your questions about investment opportunities in Canada.

Canada is an exciting investment destination, with diverse and highly skilled talent, an inviting business climate and strong support for innovation across a range of industries. As Canada's federal investment promotion and attraction agency, we work directly with global companies to facilitate and coordinate significant investments in Canada. We look forward to being part of your investment journey.

**Laurel Broten**  
*Chief Executive Officer*  
*Invest in Canada*



## CANADA: YOUR OPPORTUNITY TO ACCESS CRITICAL MINERALS



It is my great pleasure to welcome you to this important event for our two countries. It is important because countries that are as technologically advanced as France and Canada must be leaders in the energy transition needed to halt climate change and reconcile humanity and the planet. However, for the energy transition to be possible, production of essential minerals such as nickel, lithium, graphite and cobalt must increase considerably in the coming years. Critical minerals that are found in Canada must be made accessible.

Thus, the importance of our seminar in Paris including the presence of the Honourable Jonathan Wilkinson, Canada's Minister of Natural Resources.

With abundant resources, electricity that is 82% decarbonized, excellence in mining, a qualified workforce and an ecosystem that promotes innovation, Canada is in fact an ideal place to invest in the critical minerals needed to produce renewable energy, clean technologies, batteries and cutting-edge manufacturing solutions.

The Government of Canada is developing international partnerships and attracting investment to contribute to our common goal of building resilient and sustainable critical mineral supply chains that comply with environmental, social and governance (ESG) practices. For that purpose, Canada wants to work with France in a way that will greatly benefit both our countries.

In my role as Canada's ambassador to France and in the face of these issues, I am pleased to welcome you to this event today, which will give you the opportunity to begin discussions with the leaders of Canadian mining projects who, I hope, will become your partners for tomorrow. To propel the worldwide transition to net-zero emissions, France can rely on Canada, a democracy, an ally and a friend.

A handwritten signature in blue ink, which appears to read "Stéphane Dion". The signature is fluid and cursive.

**The Honourable Stéphane Dion**  
*Ambassador of Canada to France and the Prime Minister's Special Envoy to the European Union and Europe*



# YOUR CANADIAN ADVANTAGE

## CRITICAL MINERAL HIGHLIGHTS

### Critical minerals to create a new economy

Canada's critical minerals form the building blocks that make modern technology and a greener world possible. In all Canada produces 60 metals and minerals, including 21 critical minerals.

Under its first Critical Minerals Strategy, launched in December 2022, Canada is investing nearly \$4 billion to increase the supply of responsibly sourced critical minerals and support the development of domestic and global value chains for the green and digital economy.

### Battery minerals to power EVs

Canada is the only country in the Western Hemisphere with all the minerals needed to produce batteries for electric vehicles. It's part of Canada's unique EV value chain that extends from mineral exploration through to battery recycling.

## GOVERNMENT OF CANADA PROGRAMS

With **clean technology tax credits** announced in March 2023, that investment has become \$10 billion over 10 years. Key areas of focus under the strategy include stimulating research, innovation and exploration; accelerating project development; and enhancing global security and partnerships with allies.

Federal government programs include some of the most generous, multibillion dollar incentives like the **Scientific Research and Experimental Development (SR&ED)** tax credit.

The **Industrial Research Assistance Program (IRAP)** helps small and medium companies build their innovation capacity and bring their solutions to market.

The **Strategic Innovation Fund (SIF)**, which supports large innovation projects (over \$10 million) has \$1.5 billion in targeted funds earmarked for the development of critical minerals projects.

The **Clean Growth Hub** provides customized services to help companies at all stages of clean tech innovation and adoption to take advantage of the best-suited funding opportunities.

**Sustainable Development Technology Canada** is an arms-length organization that invests in Canadian clean technologies that have the potential to provide significant environmental and economic benefits.

Companies can also leverage joint funding and research collaboration opportunities with the **National Research Council** and **CanmetMINING**.

# YOUR CANADIAN ADVANTAGE

## INCENTIVES

The **Investment Tax Credit for Clean Technology Manufacturing** is a refundable tax credit equal to 30% of the cost of investments in new machinery and equipment used to extract, process or recycle critical minerals.

The **Canada Growth Fund** will use investment tools such as concessional loans and contracts for difference to reduce price and other risks in Canada's upstream critical minerals development. The fund's aim is to attract billions of dollars in new private capital to seize on opportunities provided by the net-zero economy.

**Accelerated Capital Cost Allowances (ACCA)** can provide for a depreciation allowance of up to 100% of the asset cost.

The **Mineral Exploration Tax Credit (METC)** helps exploration companies raise equity funds by passing on tax credits to investors on eligible expenses. The 15% non-refundable tax credit can be applied against investors' federal income tax.

The **Critical Mineral Exploration Tax Credit (CMETC)** is a new 30% tax credit for certain exploration expenditures targeted at 15 key

critical minerals: nickel, lithium, cobalt, graphite, copper, rare earth elements, vanadium, tellurium, gallium, scandium, titanium, magnesium, zinc, platinum group metals or uranium.

**Flow-Through Shares (FTSs)** allow foreign investors to transfer eligible exploration and development expenses to their beneficial owners, which can then be applied for tax credits for these expenditures.

The **Scientific Research and Experimental Development (SR&ED)** program provides income tax credits and refunds for expenditures on eligible R&D activity in Canada.

**Canadian Exploration Expense Claims (CEEs)** and **Canadian Development Expense Claims (CDEs)** are separate federal income tax deductions for expenses related to mining exploration and mining development.

The **Canada Infrastructure Bank's Critical Minerals investments** will facilitate the construction of enabling and supporting infrastructure like access roads, clean power generation and transmission along with wastewater management facilities in remote areas of Canada.

**“Take advantage of the innovation that is here and all the know-how in the ecosystem.”**

*– Dan Blondal, CEO, Nano One*





# **OPPORTUNITY PROFILES**



# ARIANNE PHOSPHATE

## BUSINESS DESCRIPTION

Arianne Phosphate Inc. is a Canadian mineral exploration company focused on developing its Lac à Paul greenfield project.

The geology of Arianne's deposit allows it to produce a high-purity, low-contaminant concentrate that can be used for technical grade applications and is a key ingredient in production of lithium-iron-phosphate (LFP) batteries.

The Lac à Paul deposit is rare due to its geopolitically safe location and geological structure.

In production, Arianne will be the major supplier to the West of this critical element and a counterbalance to China's dominance of the LFP industry.

## LAC À PAUL

Situated in mining-friendly Québec, Arianne Phosphate is developing its world-class Lac à Paul phosphate deposit. Fully permitted and shovel-ready, Arianne has the world's largest greenfield deposit, capable of 3 million tonnes annual production for 25 years (50 years including inferred non 43-101 resource). As well, due to the very rare igneous nature of the deposit, Arianne can produce a very high purity phosphate concentrate free of deleterious elements often found in most of the world's phosphate deposits. Over the past 18 months, the company has been working with several battery companies and already successfully met specifications required for phosphate use in LFP batteries. LFP today represents over 30% of all batteries, with demand set to grow dramatically. Over 90% of LFPs today are produced in China.

The project is located north of the Saguenay region in Québec and enjoys access to required infrastructure as well as a highly skilled workforce. Arianne has contracted for its life-of-mine supply of energy from a hydro-electric dam situated 30km away from site and this will provide for 75% of all energy requirements, making the project very ESG-friendly. As well, there is strong social acceptability among the population and a collaboration agreement in place with the First Nations. The Government of Québec is strongly in favour of the project, owning 6% of Arianne.

Currently Arianne is in discussions with potential partners, offtakers and financiers to develop the project and has received commitments of debt financing. As well, the company is looking to enhance its already strong economics by vertically integrating operations.



## HIGHLIGHTS

**Primary Commodity:** Phosphate: High-purity concentrate  
Purified Phosphoric Acid

**Development Stage:** Fully Permitted/Shovel-Ready

**Most Recent Mining Study:**

CapEx update: March 2023

Purified Phosphoric Acid Study: March 2023

Bankable Feasibility Study: Completed

**Estimated Mine Life:** 25 yrs. @ 3Mt/yr (BFS); inferred supports 50 yrs. \*non 43-101

**Capital Costs:** US\$1.25B for upstream operation (net)

**Internal Rate of Return:** ~21% pre-tax

## RESOURCE INFORMATION

ZONE	CUT-OFF (% P2O5)	CATEGORY	TONNAGE (MILLIONS)	GRADE (% P2O5)
<b>Paul + Extensions</b>	3.5	P&P	472.1*	6.88
	4.0	Measured & Indicated	702.7**	7.16
	4.0	Inferred	26.0	6.58
<b>Manouane</b>	2.43	Measured & Indicated	163.8	5.90
<b>Nicole</b>	3.5	Inferred	78.2	5.34
<b>Traverse</b>	3.5	Inferred	17.0	5.98
<b>South TraMan</b>	3.5	Inferred	146.0	5.30

**Seeking:** Offtake, financial partnership, financing; partnership in downstream production

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# AVALON ADVANCED MATERIALS INC

## BUSINESS DESCRIPTION

Avalon Advanced Materials Inc. is a Canadian mineral development company focused on vertically integrating the Ontario lithium value chain. The company is currently developing its Separation Rapids lithium deposit near Kenora, Ontario while continuing to advance other projects in its portfolio. In addition to extraction activities, Avalon is executing on its key strategic objective of developing Ontario's first midstream lithium hydroxide processing facility, a vital link bridging upstream lithium production and downstream EV battery manufacturing, helping fortify North American energy security.

## SEPARATION RAPIDS DEPOSIT & LITHIUM HYDROXIDE PROCESSING FACILITY

Avalon Advanced Materials is focused on executing a dual-market strategy serving the glass-ceramics market via our tier-one Separation Rapids lithium deposit northwest of Kenora, Ontario, as well as supplying feedstock to a state-of-the-art lithium hydroxide processing facility currently under development in the strategically located port city of Thunder Bay, Ontario.

Production activities at Separation Rapids have been capitalized through a joint venture with Sibelco, a global leader in glass ceramics manufacturing. To construct its lithium hydroxide processing facility, Avalon has partnered with Metso of Finland, which has pioneered best-in-class innovative processes and sustainable technology.

We are actively engaged in seeking additional partnerships with OEMs, battery makers, auto manufacturers and other strategic partners to further our strategy of completing Ontario's first vertically integrated value chain for battery-grade lithium.

Mined in Ontario, refined in Ontario and sold in Ontario is our strategic mantra.

Social responsibility and environmental stewardship are corporate cornerstones. We are committed to building constructive relationships and economic opportunities for indigenous communities within our operating footprint.



## HIGHLIGHTS

**Primary Commodity:** Lithium

**All Commodities:** Rare Earth, Tantalum, Cesium

**Development Stage:** PEA Complete, DFS beginning Fall '23

**Most Recent Mining Study:**

PEA, 2016

PEA, 2018

**Capital Costs:**

Lithium Hydroxide Facility: USD \$900M

Mine: USD \$250M

**Estimated Mine Life:** 13 years

**Seeking:** JV partner(s) for lithium hydroxide processing facility and associated capital investment.

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# CANADA NICKEL COMPANY INC

## BUSINESS DESCRIPTION

Canada Nickel is currently focused on its 100% owned flagship Crawford Nickel Sulphide Project in the heart of the prolific Timmins, Ontario mining camp. Crawford is the world's largest nickel sulphide discovery since the early 1970s, would be one of the five largest nickel sulphide operations if in production today and is targeting completion of a bankable feasibility study by September 2023. Anglo American has also become a strategic investor into Canada Nickel, investing C\$24 million for a 9.9% stake. Crawford hosts a large, scalable Nickel Sulphide resource of 5Mt with potential for zero carbon production. Further, the company's In Process Tailings (IPT) Carbonation process, at lab scale, achieves Net Zero carbon target in < 36 hours and stores 21 tonnes of CO2 per tonne of nickel. Carbon capture test work confirms ability to store one million tonnes of CO2 annually.

## CRAWFORD NICKEL-COBALT PROJECT

The flagship Crawford deposit is the largest nickel sulphide discovery since the early 1970s (5 million tonnes of contained nickel).

- Adjacent to all required infrastructure just 45 km north of Timmins
- Feasibility study, led by Ausenco, to be completed by September 2023
  - Successfully completed 1st stage federal permitting – on track for mid-2025 permits
  - Project funding team led by Scotiabank, Deutsche Bank, Cutfield Freeman

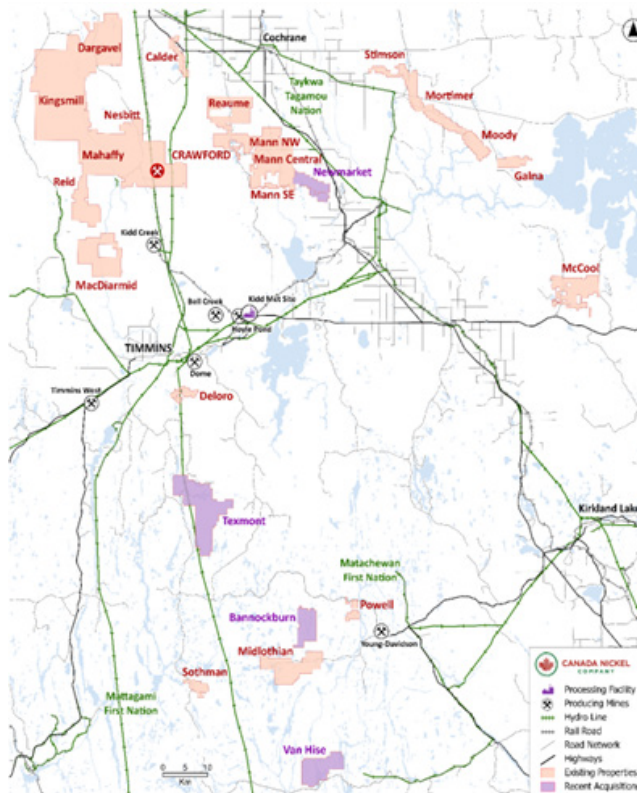
Timmins Nickel district consolidated by Canada Nickel, with 20+ nickel targets with target geophysical footprint 25 times scale of Crawford, has potential to be world's largest nickel sulphide district (a multiple of Sudbury nickel endowment - 18 million tonnes)

- Company has 11 targets larger than Crawford and already made multiple discoveries at Reid, Sothman, Bannockburn, Deloro, Midlothian and recently Mann NorthWest
- Tailings and waste rock from ultramafic nickel deposits can capture and store CO2 – company is including in feasibility study the ability to store 1 million tonnes per annum of CO2

Recently acquired Texmont property provides high grade, near-term, low capex production potential – targeting 3-5ktpa nickel by 2025. Resource & PEA coming by year-end



**CANADA NICKEL**  
COMPANY



### HIGHLIGHTS

**Primary Commodity:** Nickel Sulphide  
**All Commodities:** Nickel Sulphide, Cobalt, Iron, Chrome  
**Development Stage:** Prefeasibility  
**Most Recent Mining Study:** Preliminary Economic Assessment (2022)  
**Capital Costs:** \$1.2 billion initial Capex  
**Estimated Mine Life:** 25 years

### RESOURCE INFORMATION

**Reserves:** 5Mt  
**Measured & Indicated Resources:** 3.5Mt  
**Inferred Resources:** 1.55Mt  
**Seeking:** Offtake, Private Equity, Strategic Partnerships

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# CANADIAN MANGANESE COMPANY INC

## BUSINESS DESCRIPTION

Canadian Manganese Company Inc. (“CDMN”) is focused on the exploration and development of its wholly owned manganese project in Woodstock, New Brunswick (“Woodstock Project”). Our goal is to become the global leader in supplying high purity manganese sulphate monohydrate (“HPMSM”) to the lithium-ion battery industry. The Woodstock Project is strategically located near the U.S. border, the St. Lawrence Seaway and the Atlantic Ocean, making it well-positioned to support the domestic lithium-ion battery supply chain.

## THE WOODSTOCK PROJECT

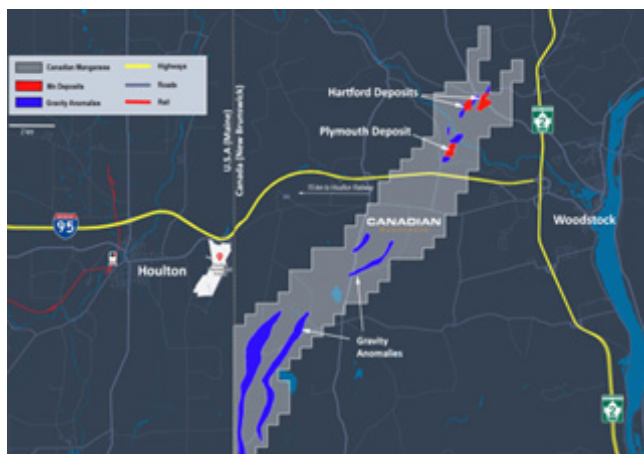
The Woodstock Project is located in western New Brunswick, approximately 5 km west of the town of Woodstock and 15 km east of the town of Houlton, Maine, USA. The extensive manganese mineralization in the Woodstock area is well documented. Bryan Way’s master’s thesis estimated the existence of approximately 194 million tonnes of manganese in banded iron formations, with over 75% of this contained within CDMN’s Woodstock Project.

The Woodstock Project contains three historically identified deposits which have been estimated to be very similar in size and grade, illustrating globally significant district scale potential. The primary focus has been on the advancement of the Plymouth deposit, with an updated 43-101 resource outlining a fundamentally unparalleled manganese carbonate deposit completed in March 2023. Additionally, an extensive initial drill program at the North Hartford deposit was completed, with the initial results supporting the historical comparisons to Plymouth.

Strategically located in a knowledgeable and historic mining jurisdiction with access to established key infrastructure (power, rail, ports, etc.), positions CDMN to best support the developing North American and European battery supply chains through stable long-term supply.

Current activities are focused on advancing a feasibility study on the extraction at Plymouth and continued environmental studies. The evaluation of potential processing location and partners is active and additional exploration programs are planned over the next 12 months.

# CANADIAN MANGANESE



## HIGHLIGHTS

**Primary Commodity:** Manganese

**Other Commodities:** Iron

**Development Stage:** Feasibility

**Most Recent Mining Study:**

April 19th, 2023

Technical Report (NI 43-101)

## RESOURCE INFORMATION

**Measured & Indicated Resources:** 56,700,000 tonnes at 10.07% Mn

**Inferred Resources:** 17,700,000 tonnes at 10.02% Mn

**Seeking:** Strategic financial and/or industry partnership/joint venture

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# E3 LITHIUM LTD

## BUSINESS DESCRIPTION

E3 Lithium is a leading Canadian lithium developer aiming to power the growing electric vehicle revolution. We are focused on creating long-term, sustainable value for the future by creating a world-class, large-scale, long-life lithium production company. We will be focusing on safe operations, maintaining a strong balance sheet and taking advantage of the enormous potential across our world-class asset base.

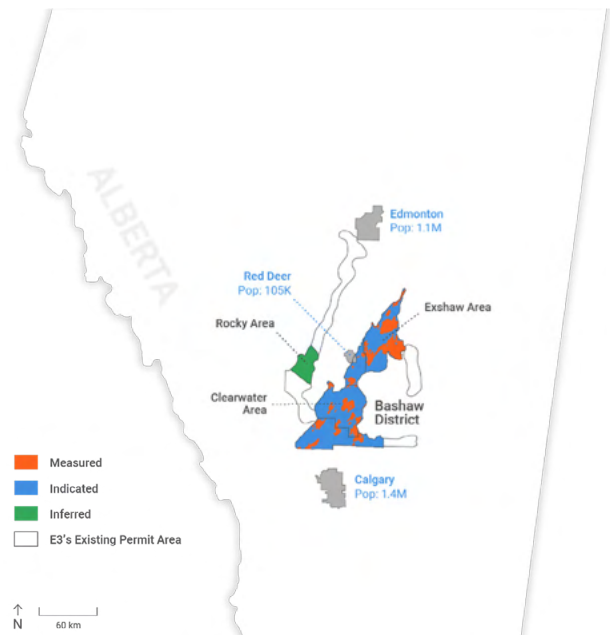
## CLEARWATER PROJECT (BASHAW DISTRICT)

**World-class assets:** E3 Lithium is a lithium resource company with a current focus on commercial development of lithium extraction from brines contained in its mineral properties in Alberta. E3 Lithium is poised to produce sustainable battery-grade lithium from brine products from one of the largest resources globally in the world-class Leduc Reservoir. Based in Alberta, E3 Lithium's Clearwater Project is being developed on the backbone of the mature and sophisticated oil industry that will allow the Company to catapult its development.

**Direct Lithium Extraction (DLE) Field Pilot Plant:** Our field pilot is on target to be operational during Q3 2023, where we will demonstrate ion exchange DLE technology under real world operating conditions. Through the successful scale up towards commercialization, E3 Lithium's goal is to produce high purity, battery grade, lithium products. With a significant lithium resource and innovative technology solutions, E3 Lithium has the potential to deliver lithium to market from one of the best jurisdictions in the world.

- Phase 1 Plan: 20,000 tonnes LHM/year with potential to expand up to 150,000 tonnes LHM/year

**Strategic partners:** Imperial Oil and Pure Lithium



## HIGHLIGHTS

**Primary Commodity:** Lithium  
**Development Stage:** Field Pilot  
**Most Recent Mining Study:** Preliminary Economic Assessment (PEA)  
**Capital Costs:** \$600 million  
**Estimated Mine Life:** 20 years  
**Internal Rate of Return:** 32% (pre-tax)  
**Net Present Value (NPV 8%):** US\$1.1 billion (pre-tax)

## RESOURCE INFORMATION

**Reserves:** 5Mt  
**Measured & Indicated Resources:** 16.0 million tonnes LCE  
**Inferred Resources:** 0.9 million tonnes LCE  
**Seeking:** Strategic development partners and offtakers

**Leigh Clarke, Vice President, Corporate Development**

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# ELECTRA BATTERY MATERIALS CORPORATION

## BUSINESS DESCRIPTION

Electra Battery Materials is in the process of developing and expanding its hydrometallurgical lithium-ion battery recycling and cobalt sulfate complex in Ontario, becoming an integral part of the North American battery supply chain, providing low-carbon, sustainable and traceable raw materials for the region's fast growing electric vehicle industry.

## ONTARIO BATTERY MATERIALS PARK

Electra is a processor of low-carbon, ethically-sourced battery materials. Currently advancing a black mass refinery and a cobalt sulfate refinery at its industrial complex north of Toronto, Electra is executing a multipronged strategy focused on onshoring the electric vehicle supply chain. Keys to its strategy are integrating black mass recycling with cobalt and nickel sulfate production, advancing Iron Creek, its cobalt-copper exploration-stage project in the Idaho Cobalt Belt and expanding cobalt sulfate processing to Bécancour, Québec.



### HIGHLIGHTS

**Primary Commodity:** Cobalt / Black mass

**All Commodities:** Lithium, Nickel, Cobalt, Graphite, Copper, Manganese

**Development Stage:** Construction

**Capital Costs:** US\$ 60 million

### RESOURCE INFORMATION

**Measured & Indicated Resources:** 4,451,000 tonnes grading 0.19% Co and 0.73% Cu (Indicated)

**Inferred Resources:** 1,231,000 tonnes grading 0.08% Co and 1.34% Cu

**Seeking:** Strategic partners and investors; private equity

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# GIGA METALS CORPORATION

## BUSINESS DESCRIPTION

Giga Metals Corporation is advancing the Turnagain Project, a very large nickel-cobalt sulphide deposit in British Columbia. Giga Metals and partner Mitsubishi Corporation are completing a Prefeasibility Study, target Q3 2023. Giga Metals is listed on the TSXV & OTCQX and is looking for strategic partners to advance the project.

## TURNAGAIN NICKEL PROJECT

### Project Description

- Open pit mine plus concentrator
- Very large deposit: long mine life at significant scale
- Low strip ratio mine for efficient high-rate mining with low waste (<0.2)
- Simple froth flotation circuit to produce 18% nickel sulphide concentrate product
- Low-impurity product suitable for smelting or direct refining to battery precursors
- Good relationships with regional First Nations (Tahltan, Kaska Dena)
- Low-GHG project in mining-friendly jurisdiction (B.C. grid hydroelectric power)
- Carbon sequestration in mine tailings could lead to carbon-neutral operations; potential to partner with direct air capture facility for additional sequestration
- Mitsubishi Corporation acquired 15% interest (2022); Giga maintains 85% and is the project operator

### Location

- 65 km east of Dease Lake, northern British Columbia, Canada
- 75 km access from paved highway; 450 km to ice-free port (Stewart); 550 km to rail



### HIGHLIGHTS

**Primary Commodity:** Nickel  
**All Commodities:** Nickel, Cobalt  
**Development Stage:** Prefeasibility  
**Most Recent Mining Study:** Preliminary Economic Assessment (2021)  
**Capital Costs:** PEA: \$1.4 billion Phase 1  
**Estimated Mine Life:** 35+ years  
**Internal Rate of Return:** 4.9% post-tax at \$7.50/lb nickel (PEA base case)  
12.6% post-tax at \$11/lb nickel

### RESOURCE INFORMATION

**Measured & Indicated Resources:** 1.5 billion tonnes containing 7.0 billion pounds Ni and 433 million pounds Co  
**Inferred Resources:** 1.2 billion tonnes containing 5.5 billion pounds Ni and 325 million pounds Co  
**Seeking:** A strategic partner to invest at the project level for US\$50M. Potential partners include major mining companies, OEMs and battery companies.

### Mark Jarvis, CEO & Chairman

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# LI-CYCLE

## BUSINESS DESCRIPTION

Li-Cycle is the largest sustainable pure-play battery recycler in North America and now investing heavily in expanding our presence across Europe. Our innovative end-of-life solution for all lithium-ion batteries creates local, environmentally friendly, closed-loop supply chains for recycled battery grade materials.

## TECHNOLOGY

Li-Cycle was founded in 2016 to solve a glaring challenge in the lithium-ion battery supply chain and the future of global electrification: the lack of a truly economically and environmentally sustainable recycling solution.

Li-Cycle's Spoke & Hub Technologies™ are safe, sustainable and scalable. This innovative process can recycle battery-grade materials from lithium-ion batteries and battery manufacturing scrap, enabling an overall recovery rate of up to 95%. Importantly, Li-Cycle's technology is adaptable to lithium-ion batteries of all sizes, chemistries and form factors. The company can recycle battery manufacturing scrap and full electric vehicle packs without the need for discharging, disassembly and thermal processes.

Compared to traditional mining and refining methods, Li-Cycle's process significantly reduces emissions, with up to 67% reduction in CO<sub>2</sub>, 86% reduction in SO<sub>x</sub> and 89% reduction in NO<sub>x</sub> emissions per tonne of battery input. Additionally, water usage is reduced by up to 97%.

Using the successful model deployed in North America, Spoke development is underway in Germany, Norway and France as well as a Hub in Portovesme, Italy in partnership with Glencore. Germany is live and operational, with Norway and France following in 2024 and expected start of commissioning of our Hub operation in Portovesme in late 2026 or early 2027.



**Tom Wadsworth: Commercial Director, EMEA**

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# NANO ONE MATERIALS

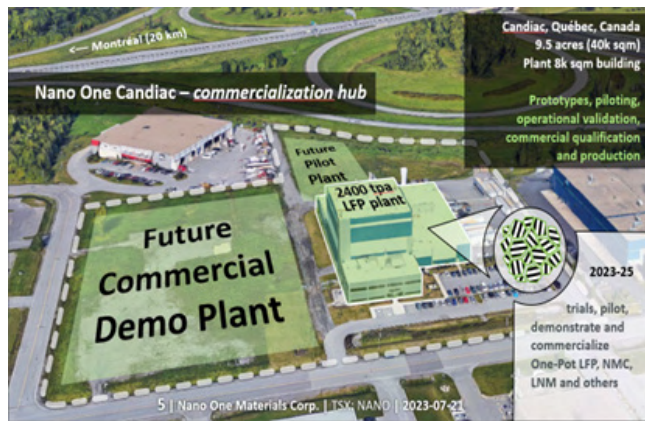
## BUSINESS DESCRIPTION

Nano One® is a technology company with a patented and scalable industrial process for the production of low cost, high performance cathode powders used in lithium-ion batteries. These unique materials are being designed to add value to electric vehicles and grid storage batteries in the global push for a zero-emission future.

## TECHNOLOGY

Nano One Materials Corp. (Nano One) is a clean technology company with a patented, scalable and low carbon intensity industrial process for the low-cost production of high-performance lithium-ion battery cathode materials. With strategic collaborations and partnerships, including automotive OEMs and strategic industry supply chain companies like BASF, Umicore and Rio Tinto, Nano One's technology is applicable to electric vehicles, energy storage and consumer electronics, reducing costs and carbon intensity while improving environmental impact. The company aims to pilot and demonstrate its technology as turn-key production solutions for license, joint venture and independent production opportunities, leveraging Canadian talent and critical minerals for emerging markets in North America, Europe and the Indo-Pacific region.

Nano One is based in Burnaby, British Columbia, where its innovation centre is located. The company has a production plant in Candiatic, Québec, where is located the only commercial LFP (lithium-iron-phosphate) production in North America. The plant is currently being converted to a new production process invented by Nano One that uses less water, less power, has no waste by-product and uses inputs more easily available in North America and Europe than the traditional process, which is largely based in China. A new larger LFP plant is planned in Candiatic, as well as a new pilot plant for other battery chemistries.



## RESOURCE INFORMATION

**Seeking:** Strategic investor (energy transition, industrial partner, automotive, cell manufacturer and/or family office)  
Partners seeking to license/joint venture our patented, low cost cathode active materials manufacturing processes and/or supply of cathode active materials

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# NICKEL CREEK PLATINUM CORP

## BUSINESS DESCRIPTION

Nickel Creek Platinum Corp. is a Canadian mining exploration and development company focused on advancing its 100%-owned Nickel Shāw Project towards becoming Canada's next world-class nickel sulphide mine.

Our vision is to create value for our stakeholders through development of the Nickel Shāw Project into a leading North American nickel, copper and PGM producer

## NICKEL SHĀW PROJECT

- Located in Yukon Territory, Canada within 14 km of the Alaskan highway that is maintained 12 months of the year.
- Route to market through all year operated port in Skagway, Alaska
- 18 km strike of host ultramafic within 146 sq km land package
- Advanced metallurgical work completed to an FS level to produce saleable nickel and copper concentrates
- Non-acid generating tailings with potential for carbon dioxide absorption credit through carbon sequestration process
- Current agreement with Kluane First Nation covering pre-construction phase
- Strong shareholder support from Electrum with 34% of shares
- Next stage is Feasibility Study and start of permitting



## HIGHLIGHTS

**Primary Commodity:** Nickel

**All Commodities:** Copper, cobalt, platinum, palladium, gold, rhodium

**Development Stage:** PFS complete

**Most Recent Mining Study:**

PFS – August 2023 Release

**Estimated Mine Life:** +19 years

## RESOURCE INFORMATION

**Measured & Indicated Resources:** 436,695 ktonnes

**Inferred Resources:** 114,016 ktonnes

**Measured & Indicated Containing:**

• 0.26% Ni - 1,120,000 mt Ni

• 0.13% Cu - 580,000 mt Cu

• 0.5 g/t Pt/Pd/Au - 7 million TrOz Pt/Pd/Au

**Seeking:** Investment at project level of 10-20% to fund feasibility study

**Stuart Harshaw, CEO & President**

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# NORTHERN GRAPHITE CORPORATION

## BUSINESS DESCRIPTION

(TSX-V: NGC) – Suite 500, 1000 Innovation Drive, Ottawa ON

**Focus:** become a world leader in producing natural graphite and upgrading it into high value products critical to the green economy including anode material for lithium-ion batteries/EVs.

**Goal:** integrate downstream to manufacture carbon-based materials specifically designed for use in energy applications such as lithium-ion batteries (LiBs) and fuel cells.

**Seeking:** technology partnerships and project financing

## GRAPHITE PROJECTS

Northern Graphite's mine-to-market strategy is to integrate downstream to manufacture carbon-based materials specifically designed for use in energy applications such as lithium-ion batteries (LiBs) and fuel cells. To speed up such development and to leverage the most advanced technologies, Northern Graphite is engaging with leading technology companies in the space to partner with as we build North America's largest battery anode materials plant. Northern Graphite also has an agreement to acquire an ownership interest in NeoGraf Solutions, a leading provider of specialty, value added products manufactured from natural graphite. Northern Graphite is set to become the world's 3rd largest non-Chinese graphite producer. The Company's strategy is to expand production at its existing mine, bring a second mine on stream next year and advance two large scale projects towards development while also developing down-stream capacity to produce anode material for use in EVs and LiBs in North America and Europe. Our projects: **Lac des Iles (LDI) – Québec, Canada** – currently operating at 15,000tpy based on existing reserves. Plant capacity of 25,000tpy. Intends to update resource estimate on recently acquired Mousseau property and current exploration drilling at LDI. **Okanjande – Namibia** – scheduled to start operations in 2024 at 31,000tpy. **Bissett Creek – Ontario, Canada – PEA** for 44,000tpy operation planned for 2025. Northern plans to build a 200,000tpy battery anode material plant in **Baie-Comeau, Québec** to supply the battery and auto industry in North America and Europe.

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## HIGHLIGHTS

**Primary Commodity:** Graphite

**Development Stage:** Northern's Lac des Iles has been producing & processing graphite for 30+ years. It currently has a 25,000tpy capacity. A new drill program is underway to open up potential new sources of graphite. The Okanjande graphite mine in Namibia will be back online in 2024 with a 31,000tpy capacity. Northern's Bissett Creek graphite property in Ontario is an advanced staged project – 1.2Mt graphite in M&I resources – targeting production of 44,000tpy by 2025 pending financing.

**Capital Costs:**

Bissett Creek - \$120M

Baie-Comeau – Phase 1 estimated \$268M

**Net Present Value (NPV 8%):** US\$1.1 Billion (pre-tax)

## RESOURCE INFORMATION

Okanjande Namibia: 1.6Mt graphite in M&I resources grading > 5.0%(1)

Lac des Iles, Québec: Currently producing 15,000tpy of graphite concentrate based on remaining reserves, new drill program underway

Bissett Creek Ontario Project: 1.2Mt graphite in M&I resources

**Seeking:** As a company whose ambition is to grow with the energy transition and to be a significant supplier of graphite and battery anode material for the upcoming boom in demand for battery minerals, Northern Graphite's financing needs will be significant in the coming years; the company is planning a combination of financing instruments involving public debt, equity, offtake and other agreements with OEMs and government funding for critical minerals.

### Guillaume Jacq

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# INVEST IN CANADA SERVICES

Invest in Canada is a global investment attraction and promotion agency – bringing together industry, community partners and all levels of government – to provide a seamless business expansion service in Canada.

## #1 Investigation Phase

**Government Liaison:** We remove barriers, collect information and coordinate efforts across federal, provincial and municipal departments to support a company's investment needs.

**Proposals & Information Gathering:** We equip companies with the business case for expanding in Canada, providing unique needs-based business solutions including insights and data on specific sectors.

**Advice and Support:** With a pan-Canadian network, we identify public-private partnerships including linkages to education, government and business – everything from assistance in pooling talent to facilitating strategic alliances.

## #2 Decision Phase

**Strategic Engagement Plan:** Positioning companies for success, we propose key connections across sectors, government, customers and service providers.

**Design Site Visits:** Face-to-face connections make the difference, with custom site visits to help company executives tour the ecosystem and meet industry partners, potential customers and government officials.

**Local Events:** We find and monitor relevant municipal departments to support a company's business events and reach out to ensure company leaders are aware of opportunities.

## #3 Implementation Phase and Beyond

**Ribbon Cutting:** Open an office with ease. Our team will help each step of the way, from real estate referrals to securing executive presence.

**Ongoing Support and Aftercare:** We are here to champion the company's success in Canada. From securing talent to fostering innovation. Investor Services Advisors will help convey positive results and enhance the experience in Canada.

**Feedback:** Serving as a channel through which companies can share their experiences in Canada, we collect feedback, submit it to relevant government departments and use it to inform our own decision-making.

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## YOUR NEXT BUSINESS DESTINATION

Invest in Canada offers tailored and confidential services that make it easier for global companies like yours to choose Canada for your next business expansion. Should you need additional information, please contact us at:

[www.investcanada.ca/contact](http://www.investcanada.ca/contact)








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