

John Passalacqua on First Phosphate Meeting the Demand for Battery-Grade LFP Cathode Active Material

written by InvestorNews | April 25, 2024

April 25, 2024 – In a recent InvestorNews interview, host Peter Clausi spoke with John Passalacqua, CEO and Director of [First Phosphate Corp.](#) (CSE: PHOS), a mineral development company dedicated to the extraction and purification of phosphate for the LFP battery industry. The discussion highlighted significant advancements at their Bean L Marsh property, where a comprehensive 25,000-meter drill program is almost complete. The company has started receiving promising drill results, with phosphate grades on par with the top-producing mines globally. “We’re seeing phosphate grades over 10-12%, which positions us well for developing an effective open pit operation,” Passalacqua remarked.

The interview also covered the company’s strategic partnership with a local indigenous group, a collaboration that aligns with First Phosphate’s commitment to responsible and sustainable mining practices. This partnership is crucial, not only for community integration but also for supporting the project’s role in global decarbonization efforts. First Phosphate is actively developing over 1,500 sq. km of royalty-free district-scale land claims in the Saguenay-Lac-St-Jean Region of Quebec, Canada. These properties consist of rare anorthosite igneous phosphate rock, typically yielding high-purity phosphate material.

Passalacqua also discussed the competitive edge of lithium iron phosphate (LFP) batteries in the market, particularly their role

in reducing costs for electric vehicles and stationary energy storage, aligning with the Inflation Reduction Act in the United States. He highlighted the strategic importance of this for First Phosphate, stating, “We are rapidly positioning to meet North American LFP battery producers’ needs for battery-grade LFP cathode active material from a consistent and secure supply source.”

To access the complete InvestorNews interview, [click here](#)

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About First Phosphate Corp.

First Phosphate is a mineral development company fully dedicated to extracting and purifying phosphate for the production of cathode active material for the Lithium Iron Phosphate (“LFP”) battery industry. First Phosphate is committed to producing at high purity level, at full ESG standard and with low anticipated carbon footprint. First Phosphate plans to vertically integrate from mine source directly into the supply chains of major North American LFP battery producers that require battery grade LFP cathode active material emanating from a consistent and secure supply source. First Phosphate holds over 1,500 sq. km of royalty-free district-scale land claims in the Saguenay-Lac-St-Jean Region of Quebec, Canada that it is actively developing. First Phosphate properties consist of rare anorthosite igneous phosphate rock that generally yields high purity phosphate material devoid of high concentrations of harmful elements.

To learn more about First Phosphate Corp., [click here](#)

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Dan Blondal Positions Nano One for Major Share in Expanding LFP Market

written by InvestorNews | April 25, 2024

During an engaging interview at PDAC 2024 with Tracy Weslosky of InvestorNews, Dan Blondal, CEO, Director, and Founder of [Nano One Materials Corp.](https://www.nanoonecorp.com) (TSX: NANO), shared insights into the company's innovative strides and strategic partnerships, notably with Sumitomo Metal Mining. Blondal described Sumitomo as a "fantastic class one partner" with extensive experience in cathode manufacturing and technology, highlighting the partnership's role in enhancing Nano One's position in the battery materials market. With a robust patent portfolio of 40 patents and over 50 pending, Blondal emphasized the importance of continuous innovation in strengthening the company's technological leadership and shareholder value. Government

support, particularly from Sustainable Development Technology Canada (SDTC), totaling around \$25 million in funding, underscores the strong backing Nano One has received, further solidifying its stance in the industry.

Blondal highlighted three competitive advantages of Nano One: its unique position with the only North American LFP production facility outside Asia, its one-pot process that reduces cost, complexity, and environmental impact, and a strategic expansion plan aiming to deploy its technology globally through a “Design-Once-Build-Many” approach. These strengths, according to Blondal, place Nano One in a prime position to capture a significant share of the growing LFP market, which is crucial for electric vehicles and energy storage solutions. The feasibility study for Nano One’s first commercial plant and the progress at its Candiatic pilot plant exemplifies the company’s commitment to scaling up its technology to meet global demands efficiently.

Blondal’s vision for 2024 emphasizes expanding Nano One’s customer base, advancing a feasibility study to solidify financial and operational plans for their commercial plant, and securing critical raw material supplies. This approach highlights the company’s strategy to scale its patented technology, aiming for a significant impact on the electric vehicle and energy storage sectors, supported by robust partnerships and government engagement.

To access the complete interview, [click here](#)

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About Nano One Materials Corp.

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 Sumitomo Metal Mining, 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 has received funding from SDTC and the Governments of Canada and British Columbia.

To learn more about Nano One Materials Corp., [click here](#)

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John Passalacqua on First Phosphate's Strategic Collaboration with Sun Chemical

written by InvestorNews | April 25, 2024

In an Investor.Coffee interview series hosted by Jack Lifton, Co-Chairman of the Critical Minerals Institute (CMI), and guest John Passalacqua, CEO and Director of First Phosphate Corp.'s (CSE: PHOS | FSE: KD0), Jack commends John for First Phosphate's exceptional operation and strategic alliance recently announced with Sun Chemical Corporation.

Dan Blondal on how Nano One's Partnership with Sumitomo Paves the Way for Sustainable

Cathode Materials for Electric Vehicles

written by InvestorNews | April 25, 2024

In a recent InvestorNews interview, host Brandon Colwell spoke with Dan Blondal, Founder, CEO, and Director of Nano One Materials Corp. (TSX: NANO), about Nano One's collaboration agreement and \$16.9 million strategic investment from Sumitomo Metal Mining. Dan emphasized the importance of this partnership, highlighting Sumitomo's position as one of the world's leading vertically integrated miner, refiner and producer of cathode active materials.

First Phosphate's John Passalacqua on the significance of securing a LOI for \$170M from EXIM

written by InvestorNews | April 25, 2024

In a recent InvestorNews interview hosted by Tracy Weslosky, [First Phosphate Corp.](#)'s (CSE: PHOS | FSE: KDO) CEO and Director, John Passalacqua, talks about their recent news release on securing a [letter of interest](#) for up to USD \$170 million from the Export-Import Bank of the United States (EXIM). Highlighting the significance of this development, John explains how it aligns perfectly with the critical minerals strategy to produce

phosphate and Lithium Iron Phosphate (LFP) batteries in North America.

John emphasized the non-dilutive nature of the EXIM financing and how the credit line is mostly guaranteed towards the purchase of US goods and services by First Phosphate to develop their project in Quebec, Canada.

The timing couldn't be better, as First Phosphate recently signed an [MOU](#) with American Battery Factory Inc. for the onshoring of up to 40,000 tonnes of LFP Cathode Active Material production in North America. John explains how the EXIM line of credit will play a pivotal role in realizing their ambitious vision of producing LFP Cathode Active Material for North American battery manufacturers.

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Innovations for Tomorrow: The Must-Attend InvestorTalk Series of August 2023

written by Tracy Weslosky | April 25, 2024

As we catapult into a future shaped by quantum cybersecurity, green hydrogen, and state-of-the-art EV battery technology, the

next week's InvestorTalk events stand as your passport to the bleeding edge of innovation. Set your calendars; these sessions are brimming with insights and revelations.

Quantum eMotion Corp. (TSXV: QNC | OTCQB: QNCCF): On August 15, delve deep into the fabric of quantum mechanics with Francis Bellido. As cyber threats evolve, Quantum eMotion is ensuring our digital fortresses stand impregnable. Their patented Quantum Random Number Generator capitalizes on quantum unpredictability, heralding a new dawn in hardware security. Targets? Everything from Blockchain to Quantum Cryptography.

[Click Here to Register for this InvestorTalk](#) at 9 AM EST.

SunHydrogen, Inc. (OTC: HYSR): Imagine powering tomorrow with sunlight and water. On August 16, Tim Young introduces us to the SunHydrogen Panel technology. With an ambition to fuel the emerging \$12 trillion hydrogen economy, SunHydrogen aims to drive the future – emission-free.

[Click Here to Register for this InvestorTalk](#) at 9 AM EST.

Nano One Materials Corp. (TSX: NANO): That same day, at 4 PM EST, Dan Blondal unveils the green magic behind efficient lithium-ion battery cathode materials. With giants like BASF and Rio Tinto as allies, Nano One's technology eyes the vast expanse of electric vehicles, energy storage, and consumer electronics

[Click Here to Register for this InvestorTalk](#)

The Grand InvestorTalk at The National Club: August 17 is an ensemble of visionaries:

- **Spencer Huh** from [NEO Battery Materials Ltd.](#) (TSXV: NBM | OTCQB: NBMFF): Unearthing the potentials of silicon in EV lithium-ion batteries.
- **Bundeep Singh Rangar** of [Fineqia International Inc.](#) (CSE: FNQ): Navigating the future web with digital assets,

tokenization, and more.

- **Stephen Burega** from [*Romios Gold Resources Inc.*](#) (TSXV: RG | OTCQB: RMI0F): From precious metals in the “Golden Triangle” of BC to global mineral explorations – it’s a golden journey.
- **Thomas Smeenk** of [*Hemostemix Inc.*](#) (TSXV: HEM | OTCQB: HMTXF): Introducing blood-based stem cell therapeutics that have the potential to revolutionize healthcare.

RSVP for this event that kicks off at 9:30 AM EST by sending an email to tracy@investornews.com

Diving Deeper:

NEO Battery Materials Ltd.: Based in Vancouver, they’re redefining EV battery materials, particularly silicon anode materials, promising enhanced efficiency and capacity over traditional graphite anodes.

Romios Gold Resources Inc.: This Canadian mineral giant, with its vast claims spanning from BC’s “Golden Triangle” to Nevada, merges tradition with innovation in gold, copper, and silver explorations.

Hemostemix: A pioneer in autologous stem cell therapy since 2003, this World Economic Forum Technology Pioneer Award winner is scaling blood-based stem cell therapeutics, which promise groundbreaking treatments.

Fineqia: At the crossroads of the digital revolution, Fineqia is capitalizing on tokenization, blockchain tech, NFTs, AI, and fintech. From managing debt securities in the UK to investing in next-gen Internet technologies, they’re forging digital frontiers.

Prepare for a week of revelations and insights. Whether you’re a

seasoned investor, an innovation enthusiast, or someone curious about tomorrow, next week's InvestorTalks is a trove of enlightenment. Mark your schedule and be part of this journey into the future.

The Nano One manufacturing hub represents a game-changing opportunity to secure sustainable and clean battery supply chains in NA

written by InvestorNews | April 25, 2024

One of the largest gaps in the North American EV metals supply chain is the need for 'western supply' of lithium iron phosphate ("LFP") cathodes used in most standard range electric cars, smaller electric cars, commercial vehicles, and stationary energy storage. These demand areas are set to surge this decade, yet where is the non-China supply of LFP going to come from?

First Phosphate Unlocking

High-Purity Phosphate for the Rapidly Expanding EV LFP Battery Industry

written by InvestorNews | April 25, 2024

Lithium iron phosphate (“LFP”) batteries are rapidly gaining market share

A major trend in the world of batteries and electric vehicles is the move towards lithium-iron phosphate (“LFP”) batteries. Not only do they cost less than rival nickel manganese cobalt (“NMC”) batteries, but they last approximately 2-times longer and are much safer (almost zero risk of fire).

The one drawback is their energy density, meaning an electric car’s range with LFP is less than the comparable NMC batteries. However, advancements in LFP technology now mean a base model (rear-wheel drive) Tesla Model 3 with LFP batteries has an EPA range estimate of [272 miles or 438 kilometers](#). That range is more than enough range for most people.

This explains why LFP battery sales are surging globally and now account for close to [30% market share](#). Most auto OEMs in China offer LFP battery EVs and globally [Tesla Inc.](#) (NASDAQ: TSLA), [Ford Motor Company](#) (NYSE: F), [Volkswagen AG](#) (Xetra: VOW3 | OTC PK: VWAGY), [Rivian Automotive, Inc.](#) (NASDAQ: RIVN), [Mercedes-Benz Group AG](#) (Xetra: MBG | OTC PK: MBGAF), [Hyundai Motor Co. Ltd.](#) (KRX: A0053850 | OTC: HYMTF), and others are also recently embracing the technology.

FIGURE 1: Tesla Model 3 RWD comes with an LFP battery

TESLA

US



Model 3

Est. Delivery: May 2023

[Enter Delivery ZIP Code](#)

Purchase Price

Potential Savings*

272 mi

Range (EPA est.)

140 mph

Top Speed

5.8 sec

0-60 mph

Rear-Wheel Drive

Source: [Tesla website](#)

The [IEA](#) Global EV Outlook 2023 states:

“Lithium iron phosphate (LFP) cathode chemistries have reached their highest share in the past decade. This trend is driven mainly by the preferences of Chinese OEMs. Around 95% of the LFP batteries for electric LDVs went into vehicles produced in China, and BYD alone represents 50% of demand. Tesla accounted for 15%, and the share of LFP batteries used by Tesla increased from 20% in 2021 to 30% in 2022.....LFP batteries contrast with other chemistries in their use of iron and phosphorus rather than the nickel, manganese and cobalt found in NCA and NMC batteries. The downside of LFP is that the energy density tends to be lower than that of NMC. LFP batteries also contain phosphorus, which is used in food production. If all batteries today were LFP, they would account for nearly 1% of current agricultural phosphorus use by mass, suggesting that conflicting demands for phosphorus may arise in the future as battery demand increases.”

In the next part of the article, we shift our focus to a company poised to supply the phosphate (“P”) in LFP batteries.

First Phosphate Corp.

[First Phosphate Corp.](#) (CSE: PHOS | FSE: KD0) is the only publicly-listed mineral development company that is fully dedicated to extracting and purifying phosphate for the production of cathode active material for the LFP battery industry.

The Company plans to vertically integrate from the mine source directly into the supply chains of major North American LFP battery producers that require battery-grade LFP cathode active material.

First Phosphate has more than 1,500 square kilometers (370,000 acres) of royalty-free land claims in the Saguenay-Lac-St-Jean Region of Quebec, Canada. The claims contain rare 'anorthosite igneous phosphate' rock that generally yields high-purity phosphate material devoid of high concentrations of harmful elements.

First Phosphate states:

"95% of the World's Phosphate is found in heavy metal laden Sedimentary Rock.

Only 4% of the World's Phosphate is found in Clean Igneous Carbonatite Rock.

Only 1% of the World's Phosphate is found in Even Cleaner Igneous Anorthosite, found mostly in Quebec, Canada."

This means that First Phosphate has a rare type of phosphate and hence a first mover advantage to become a western supplier of pure phosphate for the LFP cathode manufacturers.

Lac à l'Original, Mirepoix, Vanel Trilogy flagship project

First Phosphate's flagship project (Lac à l'Original, Mirepoix, Vanel Trilogy) has an Indicated pit-constrained Mineral Resource of [15.8 million tonnes \(Mt\) at grades of 5.18% P₂O₅ \(phosphorus pentoxide\), 4.23% TiO₂ \(titanium dioxide\), and 23.90% Fe₂O₃ \(iron oxide\)](#) and an Inferred pit-constrained Mineral Resource of 33.2 Mt at grades of 5.06% P₂O₅, 4.16% TiO₂ and 22.55% Fe₂O₃.

There is also resource upside potential at the Project and with more than 1500 km² of additional phosphate-bearing land claims.

Metallurgical test work indicates an anticipated apatite grade of at least 38% P₂O₅ at [over 90% recovery](#). The Lac à l'Original Deposit contains very low levels of potentially hazardous components, such as arsenic, heavy metals, and radioactive elements.

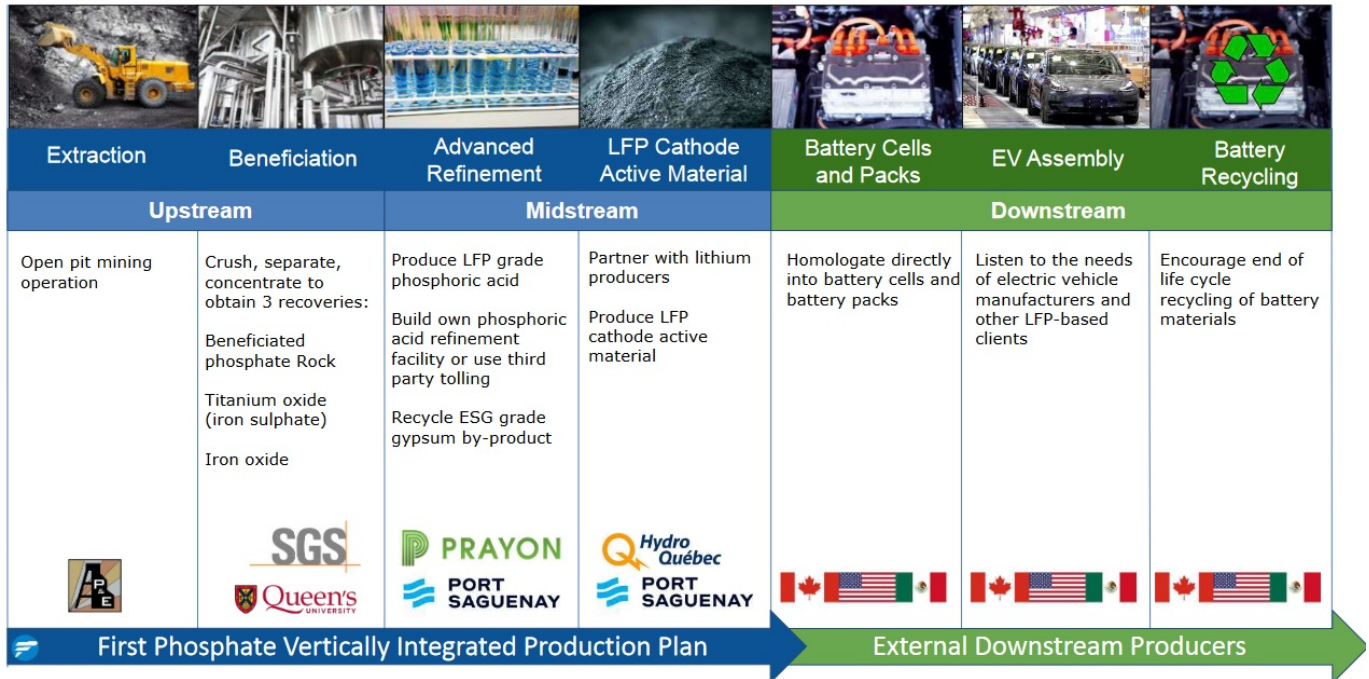
The Project site is accessible and usable in all four seasons, with heavy-haul road access, and is 140 km driving distance from the deep water, Port of Saguenay. There is access to clean Quebec hydroelectricity.

First Phosphate plans to develop midstream phosphate refining (purification) and LFP cathode active material production at the Port of Saguenay in Quebec.

The Company is currently working on its Preliminary Economic Assessment ("PEA").

FIGURE 2: First Phosphate Corp.'s vertically integrated production plan to produce LFP cathode active material

First Phosphate in the ESG-Driven LFP Battery Ecosystem



Source: [First Phosphate Corp. company presentation](#)

FIGURE 3: Reasons to buy First Phosphate Corp.

Reasons to Buy First Phosphate

1. Geographic Advantage

Flagship property with exploration upside
(>1500 km² of royalty-free claims)



- Quebec, Canada is a friendly mining jurisdiction and electric vehicle hub for North America
- Strong government support for industry
- Meets Inflation Reduction Act Requirements

2. The Right Type of Phosphate

World's cleanest source of phosphate rock from igneous anorthosite



- Devoid of harmful elements, low sulphur
- Produces large amounts of LFP battery grade purified phosphoric acid
- Environmentally clean, circular advanced mining and refinement methods. Solventless phosphate extraction

3. Driven by EV Battery Market

Phosphate with characteristics to go from mine to LFP cathode active material



- Process using clean Quebec Hydro
- Traceable, ethical, ESG, secure supply source
- Ability to supply across North America from Saguenay-Lac-St-Jean

Source: [First Phosphate Corp. company presentation](#)

Closing remarks

The trend towards a greater market share of LFP batteries used in EVs and energy storage is extremely strong.

In the past, the LFP demand and supply chain was entirely in China. This changed significantly in 2022 and continues to gain momentum in 2023 with almost all major Western auto OEMs embracing LFP battery technology for their standard-range electric cars.

Due to issues surrounding LFP patents, the West was largely unable to manufacture its own LFP batteries, but this has now changed. New LFP cathode plants are now being [planned](#) and soon will be built in the West. This includes Ford's recently announced [US\\$3.5 billion](#) plan to build an LFP battery facility in the USA licensing CATL's technology.

The high-purity phosphate supply chain will need to try to keep pace with these changes. Leading the charge is First Phosphate, trading on a market cap of [C\\$21 million](#). Be sure to take a look at this company, preferably sooner rather than later.

Dan Blondal of Nano One Talks about the \$10M Gov't Grant to Accelerate the Cathode Plant

Targeting NA Lithium-ion Battery Demand

written by InvestorNews | April 25, 2024

In this InvestorIntel interview, Tracy Weslosky talks to [Nano One Materials Corp.](#)'s (TSX: NANO) Founder, CEO, and Director, Dan Blondal about being awarded \$10 million in non-dilutive, non-repayable contributions from Sustainable Development Technology Canada ("SDTC").

Using the funds to fast-track the conversion of its Candiatic lithium iron phosphate ("LFP") facility (North America's only LFP plant) to its patented One-Pot process, Dan explains how Nano One is progressing towards securing supply chains for the North American lithium-ion battery ecosystems.

Speaking about Nano One's strategic partnerships with Rio Tinto, BASF, Umicore, CBMM, and undisclosed automotive OEMs, Dan discusses how the Candiatic facility will help them accelerate licensing and offtake agreements that would then enable the Company to scale the facility larger and lead to commercial production and revenues.

To access the full InvestorIntel interview, [click here](#)

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people at its innovation and commercialization hubs in British Columbia and Québec, including the only LFP plant and production team in North America. It has strategic collaborations and partnerships, that include Rio Tinto, BASF, Umicore, CBMM, and various automotive OEMs.

Nano One's technology is applicable to electric vehicles, energy storage, consumer electronics, and next-generation batteries in the global push for a zero-emission future. Its One-Pot process, its coated single crystal materials, and its Metal to Cathode Active Material (M2CAM®) technologies address fundamental performance needs and supply chain constraints; they also reduce equipment and raw material costs, operating expenses, and carbon intensity; and they eliminate a significant waste stream for a much-improved environmental footprint.

The Company aims to pilot and demonstrate its technology as turn-key CAM production solutions for license, joint venture, and independent production opportunities. This leverages Canadian talent, critical minerals, renewable energy, and a thriving ecosystem with access to large emerging markets in North America, Europe, and the Indo-Pacific region. Nano One has received funding from SDTC and the Government of Canada and the Government of British Columbia.

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If you have any questions surrounding the content of this interview, please contact us at +1 416 792 8228 and/or email us direct at info@investorintel.com.

Nano One’s Dan Blondal on the

Umicore joint development agreement and scaling up the battery materials space

written by InvestorNews | April 25, 2024

Tracy Weslosky chats with [Nano One Materials Corp.](#)'s (TSX: NANO) Founder, CEO, and Director, Dan Blondal, to discuss their recent [Joint Development Agreement](#) with Umicore. Nano One and Umicore have entered into a joint development agreement to improve the throughput and cost of cathode manufacturing with the goal of making Umicore's cathode materials using Nano One's patented M2CAM® One-Pot process. Umicore is a massive company in the battery materials space, with €2.1 billion (turnover of €13.8 billion) in revenue in the first half of 2022, making this announcement exciting for the Nano One team.

Dan goes on to say, "We can't get to terawatt hours of batteries and electric cars in everybody's driveways unless we solve some of the big problems associated with the scale up of this industry." The agreement leverages both parties' technologies for cathode materials to drive down cost, complexity, and environmental footprint. Nano One shareholders can anticipate seeing impacts on the bottom line in years, as the project is measured in multiple phases with go/no-go milestones.

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process for the low-cost production of high-performance lithium-ion battery cathode materials. It employs approximately 120 people at its innovation and commercialization hubs in British Columbia and Québec, including the only LFP plant and production team in North America. It has strategic collaborations and partnerships, that include Rio Tinto, BASF, Umicore, CBMM and various automotive OEMs.

Nano One's technology is applicable to electric vehicles, energy storage, consumer electronics and next generation batteries in the global push for a zero-emission future. Its One-Pot process, its coated single crystal materials, and its Metal to Cathode Active Material (M2CAM®) technologies address fundamental performance needs and supply chain constraints; they also reduce equipment and raw material costs, operating expenses, and carbon intensity; and they eliminate a significant waste stream for a much-improved environmental footprint.

The company aims to pilot and demonstrate its technology as turn-key CAM production solutions for license, joint venture and independent production opportunities. This leverages Canadian talent, critical minerals, renewable energy, and a thriving ecosystem with access to large emerging markets in North America, Europe and the Indo-Pacific region. Nano One has received funding from the Government of Canada and Government of British Columbia.

To learn more about Nano One Materials Corp., [click here](#)

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If you have any questions surrounding the content of this interview, please contact us at +1 416 792 8228 and/or email us direct at info@investorintel.com.