

Collaboration Deal with Sumitomo, Nano One to Boost LFP Cathode Production in Canada

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Nano One Materials Corp. (TSX: NANO) operates the sole North American lithium iron phosphate (LFP) production facility located in Candiac, Quebec, with plans to convert the existing facility to the One-Pot process for production up to 2,000tpa by the end of 2024. The company will expand the production in Quebec to meet demand and its business model incorporates licensing and joint ventures for global expansion.

Dan Blondal of Nano One Talks about the \$10M Gov't Grant to Accelerate the Cathode Plant Targeting NA Lithium-ion Battery Demand

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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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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. 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 SDTC and the Government of Canada and the Government of British Columbia.

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

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Nano One's Dan Blondal on the Umicore joint development agreement and scaling up the battery materials space

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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.

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

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Understanding why the Nano One JDA with Umicore is significant in the battery materials world

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Unfortunately, a publicly traded company can't do much about the timing of news as they are required to disclose material

information pretty much immediately. When you put out a press release on December 21st, when everyone is seemingly obsessed with holiday travel issues and winter storm warnings, it can potentially fly under the radar of investors. Pile on a market that was visited by the Grinch for all but one day in the last two weeks (ironically the best day in that period for the S&P 500 was Dec 21) and you can see how there is the potential for a very meaningful piece of news to appear to get lost in the shuffle.

I'm referring to [recent news](#) from [Nano One Materials Corp.](#) (TSX: NANO) that stated it had entered into a Joint Development Agreement (JDA) for production process technologies for cathode active materials (CAM) for lithium-ion batteries with Umicore.

This is a really big deal for Nano One, but before I explore why that's the case let's look at why I think the market appears to have either missed it or ignored it. Sure the stock rallied almost 8% the day the news came out, but as I noted above, it was a good day for the market overall and many stocks saw substantial gains that day. In the case of Nano One, the volume traded that day was not out of the ordinary, and the share price has subsequently sold off to below where it was trading when this news first came out. More telling (at least to me), is that there isn't a noticeably above average trading volume day since this news. Yes, overall market volume has been below average for the last few days, but if a company puts out material news, somebody will take notice, and it appears (based on trading volume) no one has.

At this point, you might be thinking I'm the one missing the point and perhaps the news isn't as big a deal as I'm making it out to be. I can live with that but I'll let you be the judge as I flesh out what this could mean for Nano One.

Let's start with who the JDA was signed with – Umicore. Belgium-based [Umicore SA](#) is a significant player in the battery materials world, with revenues of €2.1 billion (turnover of €13.8 billion) in the first half of 2022 and currently employs 11,350 people. It is a leading circular materials technology company with an extensive expertise in the fields of material science, chemistry, and metallurgy. Umicore is the largest producer of cathode material outside of Asia, and they are far and away the Western world's largest recycler of technology metals. They are a dominant player in LCO batteries and nickel rich cathode materials. Canadian readers may recall the [July 13th announcement](#) of plans to build a C\$1.5 billion battery supply chain plant near Kingston, Ontario. Additionally, Umicore has a joint venture with Volkswagen AG to build precursor and cathode material production capacities in Europe to supply Volkswagen AG's European battery cell production.

And what could all this mean for Nano One? If the JDA is successful in increasing throughput for high nickel NMC cathode active materials while reducing costs and environmental footprint, we could see Umicore making their cathode materials using Nano One's patented M2CAM® One-Pot process technology. Now you can see why it's important to understand who Umicore is and what they've got going on. This could be huge for Nano One, albeit both the Kingston facility and the Volkswagen joint venture aren't slated to be in production until 2025.

Nevertheless, Nano One is on a roll and continues to make material progress. When I [last discussed](#) Nano One in August, I commented on how years of hard work was starting to come together and that momentum was starting to snowball. At the time they had recently [acquired 100% of the shares of Johnson Matthey Battery Materials Ltd.](#) located in Candiac, Québec, [signing a joint development agreement](#) for lithium-ion battery materials

with industry giant BASF, and announced a [US\\$10 million equity investment](#) by one of the world's largest mining companies, Rio Tinto. This latest deal with Umicore brings further credibility to Nano One and signals that this well funded (almost C\$46 million in working capital), C\$235 million market company appears to be headed in the right direction.

Nano One's Dan Blondal talks about their unique high-voltage cobalt-free battery and many partnerships

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In a recent InvestorIntel interview, Peter Clausi talks to Dan Blondal, CEO, Director & Founder of [Nano One Materials Corp.](#) (TSXV: NN0) about their recent news about their unique high-voltage cobalt-free battery. Dan Blondal explains how their breakthrough LNM material, also known as high voltage spinel, is a cobalt-free, low-cost cathode material that provides improved efficiency, thermal management and power.

"Our process is to develop the processes for making these cathode materials," Dan Blondal says in the interview, "the cathode materials themselves, batteries that use the cathode materials, and then license that technology, or joint venture with partners on manufacturing." He went on to explain how Nano One's LNM cathode is a leading candidate for next generation lithium-ion and solid-state batteries because its durability and

dimensional stability enable a stable interface.

In this InvestorIntel interview, which may also be [viewed on YouTube](#), Dan went on to say “Our DNA is in process innovation,” he continued, “and we look to partner with people who understand how to control supply chain” as well as “understand manufacturing and have the supply channels.”

Asked about partnerships, Dan said: “We have about 20 groups we are actively working with.” They include the Asian development partner announced this August. “Volkswagen is one of our announced partners, but we are also working with a bunch of their peers.” These partners and opportunities are “a big part of the story, and my job is to convert those into real and meaningful deals.”

To watch the full interview, [click here](#).

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