

# Nano One's Dan Blondal on reducing the carbon footprint in the lithium-ion battery supply chain

In a recent InvestorIntel interview, Chris Thompson spoke with Dan Blondal, CEO, Director & Founder of Nano One Materials Corp. (TSXV: NNO) about Nano One's M2CAM (metal to cathode active material) technology that can reduce cost, waste, and carbon footprint in the lithium-ion battery supply chain.

In this InvestorIntel interview, which may also be viewed on YouTube (click here to subscribe to the InvestorIntel Channel), Dan went on to explain how Nano One's patented One-Pot process can produce cathode materials directly from metal using nickel, manganese, and cobalt metal powder feedstocks eliminating the need for costly and energy-intensive conversion of nickel, cobalt, and manganese to sulfate, and lithium to hydroxide. He said that the process can "transform the supply chain and make it much cleaner and greener and cheaper because we eliminate the steps in between."

Nano One recently achieved TSX Venture 50 recognition as a top-performing company and is focused on improving the performance of the cathode materials and ultimately the durability of lithium-ion batteries. "We have a process of making cathode materials and we can make all the different types of chemistries that are applicable to any type of lithium-ion battery you can think of," Dan added.

To watch the full interview, click here.

**About Nano One Materials Corp.**

Nano One is developing patented technology for the low-cost

production of high-performance battery materials used in electric vehicles, energy storage, consumer electronics, and next-generation batteries. The processing technology addresses fundamental supply chain constraints by enabling wider raw materials specifications for use in lithium-ion batteries. The process can be configured for a range of different nanostructured materials and has the flexibility to shift with emerging and future battery market trends and a diverse range of other growth opportunities. The novel three-stage process uses equipment common to industry and Nano One has built a pilot plant to demonstrate high volume production and to optimize its technology across a range of materials. This pilot plant program is being funded with the assistance and support of the Government of Canada through Sustainable Development Technology Canada (SDTC) and the Automotive Supplier Innovation Program (ASIP) a program of Innovation, Science and Economic Development Canada (ISED). Nano One also receives financial support from the National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP). Nano One's mission is to establish its patented technology as a leading platform for the global production of a new generation of nanostructured composite materials.

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

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If you have any questions surrounding the content of this interview, please email [info@investorintel.com](mailto:info@investorintel.com).

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

In a recent InvestorIntel interview, Peter Clausi talks to Dan Blondal, CEO, Director & Founder of Nano One Materials Corp. (TSXV: NNO) 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](#).

YouTube ([click here](#) to subscribe to the InvestorIntel Channel),

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

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# **Dan Blondal on Nano One's breakthrough in lithium-ion cathode materials and the 'million mile battery'**

"The idea of a single crystal cathode has been around for a while but the conventional methods for making them are very expensive. You want to spend as little time in the furnace as possible and we have developed a way to do that. Our crystals form very readily in the furnace and they self coat in the furnace so you don't have to have a secondary coating process. We have simplified the process. It is less complex and because the crystals form quickly we get an inexpensive way of making them that doesn't have the downside of spending too long in the furnace." States Dan Blondal, CEO, Director & Founder of Nano One Materials Corp. (TSXV: NNO), in an interview with InvestorIntel's Tracy Weslosky.

Dan went on to say that even with single crystal there is degradation but if you coat that single crystal the cathode material lasts four times longer. Dan further added, "by making the material more durable you can get many more charges out of it. The electric battery that goes into a car is somewhat restricted by the durability of the materials. If the material is not very durable then you have to make the battery a bit bigger. A more durable battery allows you to either drive a million miles which is important for taxi drivers, buses and utilities, or charge is much faster because as the battery is more durable it can take more aggressive charge or drive a little bit further everyday."

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

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## **Well partnered (and well-funded) with key battery suppliers, Nano One charges forward on 'Mission Possible'...**

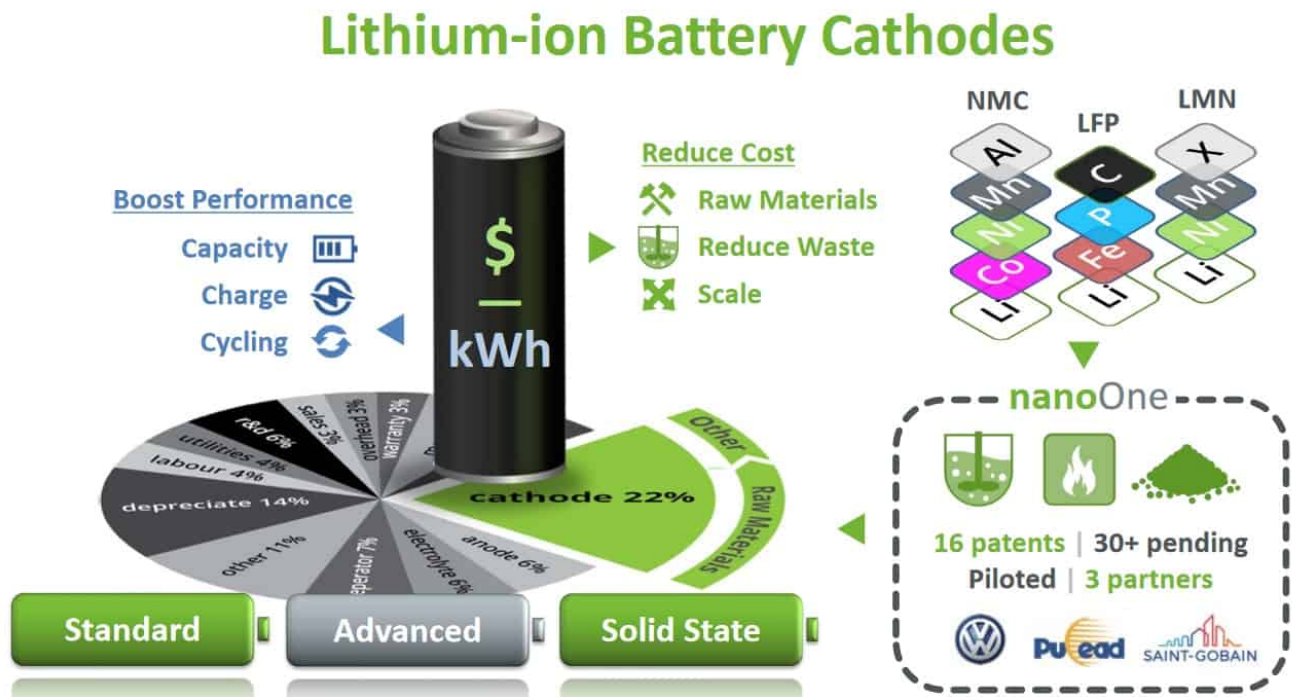
### **Nano One secures an additional \$11 million in cash to provide a multi-year funding runway for their work on lithium-ion battery cathodes**

For companies that are not yet producing revenues, the threat of running out of funding is a significant business risk. As the COVID-19 disruption deepens and some companies run low on cash, Nano One Materials has secured an additional \$11 million in funding which will provide them with "a multi-year runway extending over three years." This essentially removes the short-term funding risk making the stock a safer buy for investors.

Nano One Materials Corp. (TSXV: NNO) is working on making lithium-ion batteries better. Nano One has developed patented and scaleable industrial processes for producing low cost,

high performance, battery materials typically used in the battery cathode. The processing technology enables lower-cost feedstocks, simplifies production, and advances performance for a wide range of cathode materials.

**Nano One is working to make lithium-ion battery cathodes cheaper and better**



Source

### Nano One's recent funding success

- \$11m raised from private and institutional groups
- \$5.25m grant from Sustainable Development Technology Canada (SDTC)

In connection with the closing of the \$11m financing, Nano One issued 9,565,000 units at a price of \$1.15 per unit with each unit comprising of one common share in the capital of the Company (the "Shares") and one-half of one common share purchase warrant (the "Warrants"). Each whole Warrant is exercisable into one share at an exercise price of \$1.60 per until February 21, 2023.

The proceeds from the financing will be used for corporate

development, facilities expansion, technology advancement and general working capital.

Nano One CEO Mr. Dan Blondal stated:

*“We are thrilled with the capital market response to this latest placement. The proceeds from this financing will also be leveraged by an additional five million dollars in non-dilutive and non-repayable contributions, that was awarded to Nano One by Sustainable Development Technology Canada in May of 2019. **The sum of sixteen million dollars** enables us to accelerate business plans and co-development activities including those already underway with Volkswagen, Pulead, Saint-Gobain and other undisclosed global automotive interests.”*

Note: Nano One also receives financial support from the National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP).

### **Nano One – Why invest?**

**\$23B Battery Materials - \$1B Licensing Opportunity**

**Automotive, Grid & Consumer Electronics**

**more durability = increased safety, greater range & lower cost**

**16 patents with 30+ pending**

**VW, Pulead, Saint-Gobain and other Undisclosed Partners**

**Piloted with full-scale engineering plans**

### **Nano One's development partners**

Nano One is very well partnered into key battery suppliers and some car manufacturers, including several big names – Pulead, Saint-Gobain and Volkswagen. Nano One is working with Pulead to develop better LFP batteries, with Saint-Gobain to improve thermal processing and to develop enhanced high temperature



cathode processing, and with Volkswagen to develop advanced materials for next generation batteries.

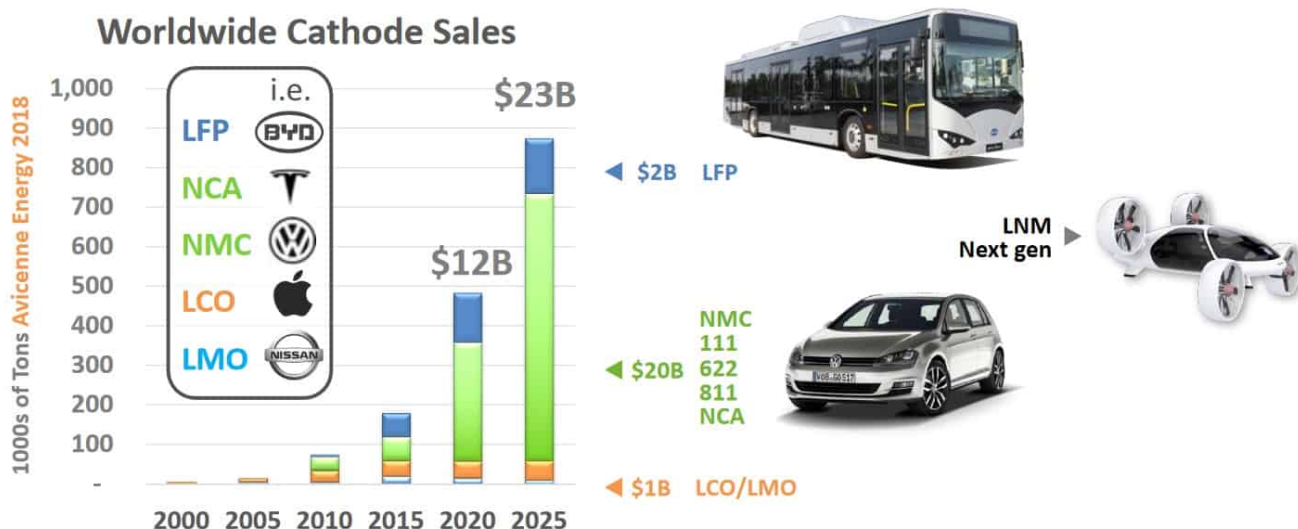
Apart from the partnerships discussed above and other undisclosed opportunities, Nano One has 16 patents with 30+ patents pending.

### Nano One's business model

Nano One's goal is to achieve up to \$1 billion in licensing fees revenue for their patented cathode technologies, by tapping into the rapidly growing cathode market that is forecast to be worth \$23 billion by 2025.

**Nano One is tapping into the battery cathode market which is forecast to be worth \$23 billion in revenues by 2025**

## \$23B Cathode Market



Source

### Closing remarks

Nano One is ticking all the right boxes.

- Great patented technology – Check.
- Industry leading partners (Pulead, Saint-Gobain and Volkswagen) – Check

- Funding secured (\$16 million in total) – Check
- Government backing – Check

With a potential up to \$1 billion licensing fees opportunity and a market cap of just C\$80 million, it is not too late for investors to get on board. If Nano One succeeds it will have been a great time for investors to have bought in now after the recent dip. Execution risk remains, but the rewards look large if Nano One can pull it off.

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## **Nano One's Dan Blondal on improving the performance, durability, and safety of lithium-ion batteries**

“We use a process that is environmentally friendly, we have no waste stream, we combine all of the coating and crystallization and all of the preparation of nickel, manganese, and cobalt all into one step. So there are fewer steps, there's less energy consumed, less waste, and results in a longer-lasting battery material that could lead to more durable battery.” States Dan Blondal, CEO, Director & Founder of Nano One Materials Corp. (TSXV: NNO), in an interview with InvestorIntel's Ron Wortel at PDAC 2020.

Dan went on to say that Nano One has developed intellectual property and patents to make battery materials that can improve the performance, durability, and safety of batteries. Dan also spoke on Tesla's million-mile battery. He said that Tesla has used cathode material supplied by a Chinese manufacturer in the battery. Dan continued, “Nano One has

intellectual property and patents that have nanocrystalline coated material which is very much akin to what they were using except ours is commercially viable.” Dan also provided an update on Nano One’s other battery technologies. He said that the company is working on lithium iron phosphate batteries used in electric buses, grid storage, etc. Nano One is also working on cobalt-free battery material which is aimed at next-generation solid-state batteries.

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

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## **Dan Blondal on oversubscription and the increasing market support for Nano One’s lithium-ion battery technology initiatives**

In an InvestorIntel interview during PDAC 2020, Tracy Weslosky secures an interview update with CEO, Director & Founder Dan Blondal on Nano One Materials Corp. (TSXV: NNO), a technology company with patented technology for the low-cost production of high-performance lithium-ion battery cathode materials used in electric vehicles, energy storage, and consumer electronics.

Dan spoke on Nano One's patented technology which can improve the durability of battery cathode materials and could enable electric vehicle manufacturers to significantly increase the lifespan and driving range of their batteries. Market interest is coming back into the battery materials sector with the rise in electric vehicle demand. Dan continued, "We have done a fantastic job by bringing Volkswagen and government funding into the company, and other partners. All that happened last year when it was really hard to get..."

Dan also provided an update on Nano One's recently closed private placement which was oversubscribed by 80%. In addition to the proceeds from the private placement, Nano One has also received \$5 million in non-dilutive and non-repayable contributions from Sustainable Development Technology Canada.

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

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## **Nano One Materials' Blondal on the joint development agreement with Saint-Gobain**

"The agreement we have with Saint-Gobain is to jointly develop technology that will enhance, the thermal processing of cathode materials for lithium-ion batteries. Ideally we will develop this technology and have an offering, a thermal processing offering for cathode manufacturers. This will be in the lithium-ion battery market and obviously it will be with a multinational company that brings a great deal of credibility

to the table.” States Dan Blondal, CEO, Director and Founder of Nano One Materials Corp. (TSXV: NNO), in an interview with InvestorIntel Corp. CEO Tracy Weslosky.

**Tracy Weslosky:** Congratulations on your joint development agreement with Saint-Gobain. We are so excited for Nano One Materials. Can you tell us more about this deal please?

**Dan Blondal:** Yes. Saint-Gobain is a large multinational corporation. They have got a 350 year history and they have deep roots in materials and ceramics that are used in buildings, aerospace, energy. Nano One, as some of your listeners will know, is a technology company. We are focused on the production of cathode materials for lithium-ion batteries. What this deal is, is about where our business interests collide. We meet at the final stage of cathode production process. That is where cathode patterns undergo a high temperature process in a furnace. It is as simple as that. We are delighted to be collaborating with a company like Saint-Gobain. Obviously they are very large and they have a very big presence. It is a testament to Nano One, to our innovative technology and of course to our people and the know how that we bring to the table.

**Tracy Weslosky:** I could not agree with you more. How would you describe the benefits for Nano One with this collaboration? Can you tell us a little bit more about that?

**Dan Blondal:** The agreement we have with Saint-Gobain is to jointly develop technology that will enhance, the thermal processing of cathode materials for lithium-ion batteries. Ideally we will develop this technology and have an offering, a thermal processing offering for cathode manufacturers. This will be in the lithium-ion battery market and obviously it will be with a multinational company that brings a great deal of credibility to the table.

**Tracy Weslosky:** Perhaps you can talk a little bit more about

how Nano One stands to benefit from this collaboration and joint development agreement.

**Dan Blondal:** We stand to benefit because we will be able to enhance our cathode materials. We will enhance our thermal processing offering so that is one stage of our process for making these materials. Obviously we believe we can improve the performance, we can bring cost efficiencies to the table and we bring a world-class partner to the table as well, as we start to roll our technology out in a commercial way.

**Tracy Weslosky:** You have had a lot of really substantial good news this last year Dan, you and your team at Nano One Materials. I noticed you also just put out an announcement for your 10<sup>th</sup> patent. Tell us a little bit more about that.

**Dan Blondal:** That is our 10<sup>th</sup> patent. We now have patents in the U.S. and in Canada and Japan, Korea and Taiwan as well. We also have 30 more patents that are currently pending in jurisdictions all over the world, but primarily in the battery important jurisdictions so that would also include China and Europe as well. We are very confident in our patent portfolio and its ability to position us in the marketplace and protect the technology that we have moving forward.

**Tracy Weslosky:** Of course, looking back on your news for the year Dan, is there anything else you would like to draw our viewers' attention to?...to access the complete interview, click here

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