Nano One's Dan Blondal on making longer-lasting, longer-range battery materials for electric vehicles

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"Cathode manufacturing is about taking sources of lithium, nickel, manganese, cobalt, iron, phosphorous and combining them into a mixed metal oxide. Basically it is a ceramic powder. Each of the little kernels of powder is a composite crystal structured material that has layers lithium, nickel, manganese, and cobalt that allows you to charge and discharge… What we do differently at Nano One is we have developed a way to make these materials. We have not changed the formulation of the material but we have changed how we make the underlying crystals. It is the formation of those crystals and the raw materials that we choose to put in which help reduce the cost. The number of steps we use is far less than the number of steps the industry uses…We add everything together, coatings included. We eliminate a bunch of steps as a manufacturing advantage. The crystal structures that come out of our process are highly purified crystal structures that are less susceptible to cracking and degradation mechanism when you assemble them into a battery and when you charge and discharge the battery. We are shooting to improve the longevity and durability of those materials. By doing that, we are enabling electric vehicle manufacturers and battery producers to make a longer-lasting and longer-range battery for electric vehicles." States Dan Blondal, CEO, Director and Founder of Nano One Materials Corp. (TSXV: NNO), in an interview with InvestorIntel's Jack Lifton.

Dan went on to provide an update on Nano One's joint development work with Pulead Technology. He said that Nano One and Pulead are working together to design a next-generation manufacturing facility for the production of lithium iron phosphate (LFP) cathode materials. Lithium iron phosphate batteries have a very strong future because they are the safest, longest-lasting and security of supply is high.

To access the complete interview, click here

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