Danny Huh on Neo Battery Materials' Process Innovation, 9th Patent and Position in NBM Korea

written by InvestorNews | April 4, 2024

In a recent enlightening interview with Tracy Weslosky of InvestorNews, Danny Huh, the Senior Vice President of Strategy and Operations at NEO Battery Materials Ltd., (TSXV: NBM | OTCQB: NBMFF) detailed the company's strides in silicon anode technology for lithium-ion batteries, underlining their consistent progress over the past three years. Particularly notable was the discussion around the application for their 9th patent a month ago, marking a technological leap aimed at significantly enhancing their silicon anode materials' production capacity and efficiency.

NEO Battery Materials Focuses on EV Market Transformation with Silicon Anodes

written by InvestorNews | April 4, 2024

In this InvestorIntel interview, Tracy Weslosky talks with NEO Battery Materials Ltd.'s (TSXV: NBM | OTCQB: NBMFF) Strategy and Operations Manager Danny Huh about their South Korean commercial

plant to manufacture silicon anode materials for lithium-ion batteries. With the pre-construction phase expected to start in August 2023, Danny explains how NEO Battery Materials has accelerated its commercialization efforts with targeted completion of the South Korean plant by the first half of 2024.

Highlighting the need for expanded production capacity due to their growing customer pipeline, Danny discusses NEO Battery Materials' recent decision to upsize their R&D Scale-Up Centre in "one of the epicenters of battery production, as well as battery research, in South Korea."

Danny goes on to provide an update on their American subsidiary, NEO Battery Materials America LLC (NBM America), to market NEO Battery Materials' silicon anode materials in the US. Danny also discusses their plans to establish another R&D facility in either Ontario or Quebec, Canada, to establish closer ties with battery manufacturers and other battery material players involved in the Canadian EV battery supply chain.

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About NEO Battery Materials Ltd.

NEO Battery Materials is a Canadian battery materials technology company focused on developing silicon anode materials for lithium-ion batteries in electric vehicles, electronics, and energy storage systems. With a patent-protected, low-cost manufacturing process, NEO Battery enables longer-running and ultra-fasting charging batteries compared to existing state-of-the-art technologies. Building the first commercial plant in South Korea, the Company aims to be a globally-leading producer

of silicon anode materials for the electric vehicle and energy storage industries.

To learn more about NEO Battery Materials Ltd., click here

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Danny Huh of NEO Battery on EV Industry Attention as it Revolutionizes Silicon Anode Technology

written by InvestorNews | April 4, 2024

In this InvestorIntel interview, Tracy Weslosky talks with NEO Battery Materials Ltd.'s (TSXV: NBM | OTCQB: NBMFF) Strategy and Operations Manager Danny Huh about achieving a significant technology milestone in the nanocoating manufacturing process of silicon anodes that can increase the driving range of electric vehicles and enable ultra-fast charging.

Speaking about the high performance and cost-reduction capabilities of their uniform nanocoating technology, Danny discusses how there is an increased interest from ten companies, including global battery and electronic manufacturers and EV automakers, to use NEO Battery Materials' silicon anodes in their lithium-ion batteries.

Providing an update on its South Korean Commercial Plant construction that has completed the Request for Quote ("RFQ") process, Danny also discusses filing NEO's 6th patent to Korean

Intellectual Property Office for one-step nanocoating technology for silicon anodes.

Danny also talks about the recent appointment of Dr. S. G. Kim, a silicon/polymer material and chemical technology development expert, as NEO's Chief Technology Officer. Dr. Kim is the former Executive Vice President and Head of R&D of Hanwha Solutions Corporation (KSE: 009830), a multi-billion South Korean chemical manufacturing conglomerate.

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About NEO Battery Materials Ltd.

NEO Battery Materials Ltd. is a Vancouver-based company focused on electric vehicle lithium-ion battery materials. NEO has a focus on producing silicon anode materials through its proprietary single-step nanocoating process, which provides improvements in capacity and efficiency over lithium-ion batteries using graphite in their anode materials. The Company intends to become a silicon anode active materials supplier to the electric vehicle industry.

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Danny Huh of NEO Battery Materials Discusses Silicon Nanocoating on Anodes for the 1000-Mile EV Battery

written by InvestorNews | April 4, 2024

In this InvestorIntel interview, Tracy Weslosky talks with NEO Battery Materials Ltd.’s Strategy and Operations Manager Danny Huh about their ongoing commercialization and optimization process to achieve the 1000-Mile Electrical Vehicle Battery using silicon anode materials. Having achieved a significant technology milestone of uniform nanocoating capability on silicon anodes, Danny explains how their technology can help increase driving range of electric vehicles and enable ultra-fast charging.

NEO Battery Materials’ next generation EV battery is the focus of its new Korean R&D hub

written by InvestorNews | April 4, 2024

I’m going to make a bold prediction. The electric vehicles we see on the road today will be virtually obsolete in 5 years. The amount of capital and brain power being applied to battery

technology coupled with the desire/need for fewer and lower carbon footprint resources that go into those batteries is going to result in material step changes in vehicle range, speed of charging and hopefully the corresponding cost. Whether the electrical grid can keep up with this rapid transition to EVs remains to be seen but we can save that discussion for another day.

Imagine you want to go on a road trip in your EV, but every 300-400 miles you have to spend a few hours charging. What if the next generation of EVs could add 50+% to that range and fully re-charge in 15-30 minutes. How much would you be willing to pay for the old generation of EV versus the convenience of a new one? For sure there will still be a market for used EVs as some people only need it for their daily commute or trips to the grocery store and otherwise the vehicle sits idle for hours, at which point in time there is little to no inconvenience to charge it. But for me, as someone who likes to fish and hike in the great outdoors of the Rocky Mountains, I can assure you there is no chance I'm buying a current generation EV with its theoretical range that potentially leaves me stranded in the middle of nowhere when the actual range ends up being 25% lower than optimal operating conditions.

One company leading the charge into the next generation of batteries is NEO Battery Materials Ltd. (TSXV: NBM | OTCQB: NBMFF), a Vancouver-based company focused on lithium-ion battery materials for electric vehicle and energy storage applications. NEO has a focus on producing silicon anode materials through its proprietary single-step nanocoating process, which provides improvements in capacity and efficiency over lithium-ion batteries using graphite in their anode materials. The Company intends to become a silicon anode active materials supplier to the electric vehicle industry with their all-star management and technical advisory team cherry picked from LG Chem, Samsung and

various renowned universities.

The numbers are impressive both from a capacity/capability perspective and relative cost to their competition. In mid-2021 the Company announced that in a half-cell coin test that its nanocoated silicon anode allowed for a safe full charge within 5 minutes, which demonstrates the potential for scaling and implementation in larger cells such as those used in high power EV batteries. Through a mix of treatments and nanocoating materials, NEO utilizes pure metallurgical-grade silicon (Si) particles, which provide a 40-70% higher initial capacity compared to current competitors that employ SiOx, SiC, or other composite silicon materials. Due to NEO's advantage of retaining a higher initial capacity, on average, a 5% silicon weight loading of NBMSiDE™ can have the equivalent impact of a 10% loading of a competitor's materials. Initial coulombic efficiencies (ICE) – the ratio of the discharge capacity after the full charge and the charging capacity of the same cycle and is usually a fraction of less than 1 – for NEO's 100% micron-size level Si anode have exceeded the 86% level, and cycling performance presents excellent capacity retention after 300 charging/discharging cycles.

And all this technology is advancing beyond research lab theoretical work. The latest press release from the Company confirms an MOU with the Province of Gyeonggi (basically Seoul, South Korea, and the surrounding area) to establish grounds for investments and cooperation between NEO and the Province to advance the mass production of silicon anode materials for EV batteries. NEO Battery Materials will initially invest, over the next 5 years, 24 billion KRW or approximately C$25 million to support the construction and expansion of the silicon anode commercial plant located on a 107,000 sq. ft. site in Oseong Foreign Investment Complex, Pyeongtaek City, Gyeonggi-do. The Company aims to transform the Province into an essential

manufacturing and R&D hub of silicon anode materials. The first phase of the commercial plant will possess an initial annual production capacity of 240 tons of NBMSiDE, and the facility will be built as a 4-story office building with additional space that can accommodate production expansion to 1,800 tons annually of the Company's anode material.

I have no idea if NEO Battery Materials will be one of the success stories to advance the next generation of battery technology for EVs and energy storage. I do know that they have generated some interesting results and have NDAs signed with over 20 globally established industry players in the battery cell manufacturing, materials manufacturing, and automotive industries. With a market cap of roughly C$30 million, you can decide if this is one of the companies you'd like to hold if you are investing in the future of EVs.

Recharging a battery in 5 minutes is the starting block for NEO Battery Materials interest

written by InvestorNews | April 4, 2024

It seems like it was only last week that I was writing about nanomaterials and how they were going to save the world by making everything better. Oh wait, it was just last week. I guess the difference here is that this company has an actual resource (targeting silica in quartzites) that would supply

their proprietary nanocoating technology. Nope, that's almost the same as well. So to quote baseball's philosopher, Yogi Berra, it's déjà vu all over again. Today is another story about nanomaterials that look like they have the potential to improve the technology required to lower our carbon footprint and make the air we breathe a little cleaner.

The company being discussed this time around is NEO Battery Materials Ltd. (TSXV: NBM | OTC: NBMFF). A six-month chart of this stock will tell you that there is plenty of buzz around what is happening, given it has traded in a range of $0.14/share to as high as $1.31, closing yesterday at $0.89. Most of this activity is being driven by the steady stream of exciting news that comes out on an almost weekly basis. Two of the biggest surges in the stock price came first in early June when the Company made the remarkable announcement that its nanocoated silicon anode allows for a safe full charge on small battery cells within 5 minutes leading to a two-day rally of 62%. Then this past Friday NEO reported the first prototype of silicon anode active materials has been successfully produced, and samples have been sent to partners for full cell evaluation and electrochemical characterization. The latest news causing the stock to surge 30% on the day with further follow through on Monday adding another 14% to the share price.

These are some pretty stunning moves so let's look a little closer at what this all means in the grand scheme of things and why the stock may be responding like it is to this news. The first news seems pretty obvious to me, recharging a battery in 5 minutes is impressive no matter how you look at it. If we could all recharge our smartphone, wearable device, tablet, laptop, cordless yard equipment, etc. in 5 minutes, life would be a whole lot more convenient. But convenience isn't going to save the earth. Where this becomes a game changer is if they can evolve this technology for use in the Li-Ion batteries used in

EVs. Imagine the change in adoption of EVs over internal combustion engines if you can recharge your battery in almost the same amount of time it takes to fill a vehicle with gas. It almost wouldn't matter what the range of the battery is as long as there was adequate charging capability. Going to Starbucks for a coffee? Plugged in the car before I went in and it was charged when I came out. Stopping by the grocery store on the way home from work to pick up something for dinner? No problem, also charged the car while I was in the store.

Perhaps I'm getting a little bit utopian but it's hard to argue that an EV that could charge in 5 minutes wouldn't be revolutionary. This leads us to the latest news from the Company, the first working set of NEO's proprietary silicon anode materials has been manufactured through their unique process. This prototype will be utilized by NEO's third-party partners for evaluating the performance and efficacy of NEO's silicon anodes in each respective party's cell system and environment. The Company expects this development to act as a catalyst to accelerate the commercialization of its silicon anode active materials. Another critical piece of information in the latest press release was the signing of two new Non-Disclosure Agreements (NDAs) with global top-tier battery material producers in China and South Korea for NEO's innovations with silicon. They are getting the word out and in front of the right people to make something happen.

The Company raised $2 million in early May and had a cash balance of $872,171 as of their May 31st financials. NEO has likely raised another $1.4 million from the exercise of in-the-money ($0.30 strike) warrants that were set to expire on August 21st. There are still 17 million warrants outstanding but with an expiry date of May 2024, who knows if/when those might get exercised. In the meantime, there should be enough cash to

continue operations for a couple of more months at which point in time we will see what’s next for NEO Battery Materials. They may have to go back to the market to raise some capital, or perhaps a JV with one of their NDA partners will provide some financial support. Regardless, there are some exciting things happening that will keep investors on the edge of their seats for the foreseeable future.