NEO Battery Receives $2.5M Purchase Order of Customized Battery Solutions for Autonomous, Industrial Robotics

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- $2,500,000 CAD Purchase Order and Joint Development Agreement with South Korean Industrial Robotics Company
    - Customer Servicing Global Conglomerates & SMEs in Logistics Warehouses and Manufacturing Facilities
- To Supply High Energy Density (3.38 kWh) Prototype and Commercial Battery Packs for Customer's Autonomous Mobile Robots (AMR), Humanoid, and Mission-Critical Service Robots
    - To Provide Full End-to-End Battery Solution Service to Develop and Integrate Tailored Lithium-Silicon Battery Products

NEO Battery Materials Ltd. ("NEO" or the "Company") (TSXV: NBM) (OTC: NBMFF), a low-cost, silicon-enhanced battery developer that enables longer-running, rapid-charging batteries for drones, robotics, and electronics, is pleased to announce that it has executed a Purchase Order Agreement (the "Purchase Order"), alongside a Joint Development Agreement (the "JDA"), with a South Korean industrial robotics company engaged in autonomous mobile robots (AMRs), humanoid platforms, and mission-critical service robots deployed in high-risk industrial environments (the "Customer"). The Customer currently services global conglomerates and SMEs with its robotics solutions in logistics warehouses, manufacturing facilities, and various end markets.

With an order value of approximately ₩2,500,000,000 KRW ($2,500,000 CAD) over a targeted 24-month period, the Customer will purchase and procure proprietary lithium-silicon battery cells and packs co-developed with NEO under the JDA. Products supplied will include both prototype packs for field validation and commercial-level packs for integration across the Customer's payload, service, and AMR-based humanoid robot systems. The scope of services will further cover end-to-end battery solutions, including material selection, cell architecture, certification support, and integration assistance.

Under the JDA, NEO and the Customer intend to surpass battery performance benchmarks deployed by incumbent humanoid and industrial robotics platforms - principally the 2.25 kWh packs with 51,000 mAh, 12S configuration used in the broader market. The development plans include staged validation from initial lithium-silicon cell design, prototype pack integration, and robot-level performance optimization. Based on field testing and operational data, NEO will further refine designs and attributes for optimal battery performance with the Customer's systems.

NEO's lithium-silicon battery cells aims to deliver enhanced energy density, power density, and system safety under full-duty industrial use. Subject to modifications over the development period, both prototype and commercial packs are targeted to achieve a 74,000 mAh cell capacity with 12S configuration, representing 3.38 kWh or a 45.1% increase in energy density. The Customer anticipates initiating purchases upon the development of a viable prototype pack, and purchase quantities may vary from certification outcomes, production capacity, input availability, and the Customer's operational and testing deployment schedules.

"This Purchase Order and JDA for robotics and autonomous systems reinforce NEO's position as a capable battery solutions provider in diverse end markets," stated Spencer Huh, Director, President & CEO of NEO. "By developing and manufacturing tailored batteries for AMR and humanoid robotics, NEO is actively creating opportunities to enter into growing sectors that cannot compromise on battery performance and a resilient supply chain. We aim to enable the Battery Innovation Platform promptly to start producing in our new facilities in South Korea."

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-fast charging batteries compared to existing state-of-the-art technologies. The Company aims to be a globally-leading producer of silicon anode materials for the electric vehicle and energy storage industries. For more information, please visit the Company's website at: https://www.neobatterymaterials.com/.

On Behalf of the Board of Directors
Spencer Huh
Director, President, and CEO

This news release includes certain forward-looking statements as well as management's objectives, strategies, beliefs and intentions. All information contained herein that is not clearly historical in nature may constitute forward-looking information. Generally, such forward-looking information can be identified notably by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved". Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: volatile stock prices; the general global markets and economic conditions; the possibility of write-downs and impairments; the risk associated with the research and development of battery-related technologies; the risk associated with the effectiveness and feasibility of battery material, electrode, and cell technologies that have not yet been tested or proven on commercial scale; the risks associated with manufacturing process scale-up, including maintaining consistent material, component, and cell quality, production yields, and process reproducibility at a pilot, semi-commercial, or commercial scale; the risks associated with compatibility of existing battery chemistries, formulations, components, or designs; unforeseen risks associated with entering into and maintaining collaborations, joint ventures, or partnerships with battery cell manufacturers, original equipment manufacturers, and various companies in the global battery and downstream end-user supply chain; the risks associated with the failure to develop and produce commercially viable battery products or that technical goals may not be achieved within expected timelines or budgets under a joint development or collaboration; the risks associated with the Company's technologies and products not meeting performance requirements or customer specifications; the risks that prototype and pilot-scale products do not translate into commercial orders; the risk associated that purchase orders and offtake supply may not be fulfilled in full, on time, or at all, as actual revenue realization depends on delivery schedules, achievement of technical milestones, and customer acceptance and validation; counterparty risk upon delivery of prototype and commercial products; the risks associated with constructing, completing, securing, and financing pilot, semi-commercial, and commercial battery materials, components, and cell manufacturing facilities including the Canadian and South Korean facilities; the risks associated with potential delays or increased costs with site preparation, equipment procurement and installation, and facility commissioning; the risks associated with integrating silicon anode material production, electrode manufacturing, and cell assembly within a single operational cluster; the risks associated with supply chain disruptions or cost fluctuations in raw materials, processing chemicals, and additive prices, impacting production costs and commercial viability; the risks associated with uninsurable risks arising during the course of research, development and production; competition faced by the Company in securing experienced personnel, contracts and sales, and financing; access to adequate infrastructure and resources to support battery materials, components, and cell research and development activities; the risks associated with changes in the technology regulatory regime governing the Company; the risks associated with the timely execution of the Company's strategies and business plans; the risks associated with the lithium-ion battery industry and end-users' demand and adoption of the Company's silicon anode technology and battery products; market adoption and integration challenges, including the difficulty of incorporating silicon anodes and silicon battery products within battery manufacturers and OEMs' systems; the risks associated with the various environmental and political regulations the Company is subject to; risks related to regulatory and permitting delays; the reliance on key personnel; liquidity risks; the risk of litigation; risk management; and other risk factors as identified in the Company's recent Financial Statements and MD&A and in recent securities filings for the Company which are available on www.sedarplus.ca. Forward-looking information is based on assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued R&D and commercialization activities, no material adverse change in precursor, raw material, equipment, and relevant cost prices, development and commercialization plans to proceed in accordance with plans and such plans to achieve their stated expected outcomes, receipt of required regulatory approvals, and such other assumptions and factors as set out herein. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking information. Such forward-looking information has been provided for the purpose of assisting investors in understanding the Company's business, operations, research and development, and commercialization plans and may not be appropriate for other purposes. Accordingly, readers should not place undue reliance on forward-looking information. Forward-looking information is made as of the date of this presentation, and the Company does not undertake to update such forward-looking information except in accordance with applicable securities laws.

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Contact
For Investor Relations, PR & More Information: info@neobatterymaterials.com, T: +1 (437) 451-7678

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