



**MANAGEMENT DISCUSSION AND
ANALYSIS**

For the Six Months Ended August 31, 2025

As at October 30, 2025

NEO BATTERY MATERIALS LTD.
MANAGEMENT'S DISCUSSION & ANALYSIS
Six Months Ended August 31, 2025

INTRODUCTION

The following management's discussion and analysis (MD&A) of NEO Battery Materials Ltd. ("the Company") has been prepared as of October 30, 2025. The MD&A should be read in conjunction with the consolidated financial statements of the Company and the notes thereto for the six months ended August 31, 2025, which have been prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB") and interpretations of the International Financial Reporting Interpretations Committee ("IFRIC"). In addition, these consolidated financial statements have been prepared using the accrual basis of accounting except for cash flow information.

Management is responsible for the preparation and integrity of the financial statements, including the maintenance of appropriate information systems, procedures, and internal controls. Management is also responsible for ensuring that information disclosed externally in the MD&A is complete and reliable. Additional information of the Company is available on SEDAR at www.sedarplus.ca and on its website at www.neobatterymaterials.com. Readers of the MD&A should be cautioned that information and statements derived from the Company's financial statements do not necessarily reflect the future financial performance of the Company. Statements in the MD&A that are not historical based facts are forward-looking statements which are made subject to cautionary language on pages 19-20 and involve known and unknown risks and uncertainties. Actual results could vary considerably from these statements. Readers should be cautioned not to put undue reliance on forward looking statements.

Description Of the Business

NEO Battery Materials is a battery technology company focused on developing silicon-enhanced lithium-ion batteries for drones, unmanned systems (UAS), robotics, consumer electronics, electric vehicles (EV), energy storage systems (ESS) for AI data centers and power grids, and all battery-powered applications. 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 end-to-end solutions provider of high-performance battery materials and cells, with a vision to establishing a resilient Western and North American battery supply chain.

Since its inception in 2021, the Company has focused on research and development (R&D) of a high-performance, cost-effective silicon-based battery technology or silicon anode material, trademarked as NBMSiDE®. These materials are designed to significantly enhance energy density (expressed in watt-hours per kilogram or Wh/kg) and enable ultra-fast charging capabilities (expressed in C-rate for charging and discharging cycles) in lithium-ion batteries used across a wide range of end-use applications, including consumer electronics, power tools, robotics, drones, UAS, EV, and ESS. To differentiate on costs, NEO Battery has developed and is further refining a proprietary manufacturing process that enables silicon anode material production at approximately a 60-80% lower cost compared to conventional and competing methods.

Through strategic partnerships and agreements with small and medium enterprises (SME) and global companies, the Company has been collaboratively advancing solutions and technologies to remove the battery performance ceiling from inputs, material composition, and end-product assembly. Collaborations with Fortune 500 partners like Linde Korea – an affiliate of Linde, the world's leading industrial gases and engineering company – and Rockwell Automation and global unicorn startups such as OCSiAl have focused on developing advanced material formulations and processing techniques, optimizing targeted key performance metrics for each respective project.

During the recent quarter, the Company has expanded its operational scope beyond advanced silicon anode materials development to include Battery Foundry & Engineering Service operations. The addition of these synergistic verticals aligns with NEO Battery's objective to become a fully integrated battery solutions provider, supporting various downstream clients across the complete value chain of components and cell design, development and production.

For the subsequent quarters, NEO Battery has implemented an operational strategy centred on commercialization across all business portfolios of NBMSiDE silicon anode materials, Battery Foundry, and Engineering Services. The Company will (i) prioritize

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achieving the highest level of product quality and performance across materials, electrodes and cells, (ii) establish and refine its engineering capabilities and supply chain network to initiate the proposed manufacturing activities, and (iii) develop a structured sales and partnership pipeline of downstream customers in diverse electronics segments. Collectively, these strategic efforts are expected to generate first revenues in the near-term, create a reputation and presence for recurring commercial contracts, and strengthen the Company's position as a capable, integrated battery solutions provider for the Western and North American supply chain.

Battery Foundry & Engineering Services

Battery Foundry – Contract Manufacturing for Downstream Value Chain

The Battery Foundry business will involve industry-quality electrode manufacturing and cell assembly for prototype or commercial applications, servicing companies and entities seeking high-performance, customized battery solutions. The Foundry is designed to address the growing demand from the established and emerging electronics sectors for specialized batteries that require tailored energy density, power delivery, form factor, and safety characteristics. Furthermore, by establishing manufacturing and supply capabilities in South Korea and in North America through future expansion, the Company aims to mitigate supply chain risks arising from the heavy geographic concentration of battery production in China.

On August 18, 2025, the Company introduced the Battery Foundry segment by initiating a new development program for high-performance batteries tailored for drones and unmanned aerial vehicles (UAV). Through this high-performance development program, the Company aims to deliver end-to-end battery solutions with high capacity, high power output, and fast charging capabilities to address the increasing performance needs of drone and UAV manufacturers. NEO Battery's engineering team has initiated the design of two pouch-type lithium-ion battery cells in which NBMSiDE silicon anode products are integrated to enhance comprehensive performance.

On September 12, 2025, NEO Battery received its first multi-year purchase order valued at \$4.5 million CAD for high-performance battery products with an Asian manufacturer specializing in AI-powered mission flight control systems for drones and UAVs. In relation to the new high-performance development program, the Company has been commissioned to design and manufacture two advanced battery products tailored to the client's drone/UAV systems.

In support of this new business unit, the Company has signed a Letter of Intent to lease and secure an operational, revenue-generating electrode manufacturing facility in South Korea capable of producing cathode and anode sheets at megawatt-hour (MWh) scale. NEO Battery aims to produce electrodes for existing major automotive companies and battery manufacturers and to adapt production to supply customized battery solutions for its drone, UAV, robotics, electronics, and energy storage clients and pipeline. NBMSiDE silicon anode products will be further incorporated as a core component material for the electrode production lines, enabling a fast-track towards commercializing high-performance, silicon-enhanced batteries.

The electrode manufacturing facility will provide the initial infrastructure for both internal product validation and external contract manufacturing service agreements. NEO Battery will be able to produce various designs and formulations by integrating multiple chemistries, including silicon-graphite mixed anodes, lithium-iron-phosphate (LFP) and nickel-manganese-cobalt (NMC) cathodes, and solid-state battery materials.

NEO Battery has additionally secured an expansion site to establish battery cell manufacturing capabilities. Located adjacent to the operational electrode manufacturing facility, the site comprises six vacant industrial buildings on 2.5 acres with an additional 0.8 acres designated for future expansion. Cylindrical and prismatic-format battery manufacturing equipment will be installed to produce an expected annual capacity of 20 MWh. Along with pouch-format battery equipment from the electrode facility, the Company will soon possess full capability to process all three prominent battery form factors.

Through the Battery Foundry, the Company's business model anticipates a combination of revenues from commercial-grade electrode and cell contracting supply, prototyping services, and long-term manufacturing agreements from battery cell and electronics manufacturers. Management expects to initiate electrode production after closing the definitive lease agreement of

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the operational facility and optimizing manufacturing parameters and quality. Prior to procuring and establishing all necessary manufacturing equipment at the expansion site, battery cell production is anticipated to be outsourced to subcontractors.

Engineering Services

The Engineering Services segment will service battery cell companies and downstream original equipment manufacturers (OEM) seeking to develop and deploy new battery products into their respective markets. Leveraging in-house materials engineering expertise and components/cell design and processing know-how, the Company will provide consultative and technical services, including but not limited to materials/chemicals selection and procurement, electrode and cell architecture design, production optimization, including scrap-rate reduction and throughput enhancement, and customer qualification support. Through these services, NEO Battery intends to help partners accelerate product development cycles, improve economics via manufacturing efficiency, and meet stringent performance and qualification standards.

Engineering Services will complement the Battery Foundry business by offering a vertically-integrated platform from design, development, testing, and validation. The Company targets to enable clients to commercialize emerging and next-generation battery technologies with improved quality assurance and cost efficiency.

Silicon Anode Technology, Products & Commercialization

NEO Battery's technology development strategy utilizes a cost-oriented approach to enable the use of silicon as an anode material in lithium-ion batteries. The Company uses economical precursors called metallurgical-grade (MG) silicon and an energy-efficient, scalable wet-based manufacturing process. Eliminating high-cost and hazardous feedstocks like silane gas and energy-intensive processes such as chemical vapour deposition (CVD) enable the Company to produce its proprietary silicon anode products that are approximately 60 to 80% cost-effective compared to commercial or nascent products.

The use of MG silicon reduces both feedstock and operating costs, lowers environmental and safety risks, and allows for greater scalability due to higher production yields. Furthermore, with silicon recycling partners, closed-loop NBMSiDE® products are being developed via the integration of MG silicon recycled from semiconductor wafer and solar panel or photovoltaic cell waste. For its manufacturing process, NEO majorly synthesizes its products through a conventional mechanical pulverization and coating process used in various industrial applications.

The integration of low-cost raw materials, conventional equipment, and relatively non-complex, energy-efficient engineering methods creates a conducive environment of scalability and mass-producibility for NEO's silicon anode products. When scaling to semi-commercial and commercial volumes, the Company projects reduced capital intensity and expenditures, ease to replicate production lines across multiple sites, and flexibility to align production capacity with the growth of lithium-ion batteries and direct end-user demand compared to competitors.

NBMSiDE® Silicon Anode Products

The Company has launched five NBMSiDE products – P-100, C-100, P-200, P-300, and P-300N. Each product is tailored for different lithium-ion batteries depending on end-use applications, varying in coating material, particle size distribution, manufacturing costs, specific capacity (expressed in milliampere-hours per gram or mAh/g), capacity retention rate, initial Coulombic efficiency (ICE), and other relevant electrochemical and physical properties. Based on partner feedback, downstream demand, and internal test results, NEO Battery is focused on optimizing and evaluating the P-100, P-200, and P-300N products.

Introduced in 2021, the P-100 product serves as a precursor for the P-200 and P-300N products and any other surface-coated silicon anode. P-100 is produced from the first stage of milling and size-controlling the MG silicon feedstock. Through precise pulverization and size classification, a native silicon oxide layer forms to provide preliminary protection during battery cycling. Although P-100 demonstrates elevated electrochemical performance compared to raw MG silicon materials, the Company solely uses this product portfolio for the manufacturing of subsequent products.

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The P-200 product functionalizes MG silicon particles as a potential anode material for commercial-level batteries. P-200 employs a nanometer-thick, elastic polymer coating to limit volume expansion during lithiation or charging, reducing the elevated rate of irreversible capacity loss. P-200 products further stabilize degradation by mitigating the direct exposure between silicon particles and liquid electrolytes. P-200 product specifications and end-use applications are as follows:

- Initial specific capacity of 2,500 mAh/g, representing an average 78% increase in anode capacity compared to competing materials
- Initial Coulombic efficiency of over 88% with an ongoing 50-cycle Coulombic efficiency of ~98%

Considering the natural trade-off between capacity retention rate and initial capacity, the P-200 series will be implemented towards short-duration, high-capacity electronics systems, including but not limited to short-duration drones and autonomous systems, and high-power output electronics.

In March 2025, the P-300N series was launched through new composite material nanocoating layers. Key refinements in particle size distribution and shape control added to the protection against direct contact of the silicon material and liquid electrolyte. Reinforced coating layers aided in mechanical stress dissipation without compromising electrical conductivity. Compared to predecessor products, the P-300N recorded the highest 50-cycle average Coulombic efficiency of over 99.8%. Two P-300N variations have been formulated to respond to the different needs of end-use applications:

- High-Capacity Variant: Demonstrates initial specific capacity of 2,000 mAh/g with an average 50-cycle Coulombic efficiency of over 99.5%
- High-Stability Variant: Provides balance of cycle performance and capacity with an average 50-cycle Coulombic efficiency of over 99.8% with approximately 2,000 mAh/g in initial capacity

The P-300N series will be purposed for batteries with long cycle life, high-capacity requirements, including long-endurance drones/UAS, power tools, consumer electronics, robotics, EV, and energy storage for AI data centers and power grids.

NBMSiDE® Commercialization Strategy & Developments

The Company's commercialization strategy involves active battery integration and cycling tests for pilot- and commercial-level performance validation of its silicon anode products. From positive coin-cell level validation, the P-200 and P-300N series are now undergoing large-cell format testing in which single and multi-layer cells will be used to conduct long-term battery performance tests. After validating large-cell format performance, the Company will advance into further levels of technology readiness through demonstration in operational field tests, process-capability tightening, and commercial-level battery cells tests.

With global battery cell manufacturers, chemical material companies, and downstream OEMs, NEO Battery is engaged in product evaluations for external system-specific validation. Partner tests are undertaken with the purpose of securing advanced contracts and agreements, including joint development agreements, offtake supply arrangements, and purchase orders.

Advanced contracts and agreements are critical to the Company's advancement towards producing commercial volumes, establishing a robust distribution network, and generating first revenues. NEO plans to distribute its NBMSiDE products through direct sales and supply through establishing mass production facilities in South Korea, the United States, and Europe. As a low capital expenditure and high margin alternative, the Company further intends to explore potential licensing models for its proprietary silicon anode manufacturing process technology.

On October 2, 2025, the Company signed a 50-ton, multi-year offtake supply agreement and joint development agreement with a North American lithium-ion battery company specializing in performance-intensive, specialty applications, including drones, UAS, and defense-related mobile systems. NEO Battery will jointly develop and optimize P-200 and P-300N battery performance via system-integrated field tests in UAS and drones. With the ongoing efforts to onshore and friendshore the battery supply chain in North America, the Company has recognized an increased demand from various end-users to pre-emptively secure and procure high-performance battery materials and cells produced outside of China.

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In parallel with proving large-cell performance, the Company is establishing a semi-commercial facility capable of producing 20 tons per annum of silicon anode products to prove mass-producibility and initiate pre-production qualification runs in 2026. Currently, the Company retains specialized battery materials and cell engineers and operates a pilot manufacturing facility ("R&D Scale-Up Centre") at Gyeonggi Technopark in South Korea. At this facility, silicon anode products are being customized, produced, tested, and optimized to meet the demands and specifications of each end-user application. The R&D Scale-Up Centre retains a production capacity of 4,000 kilograms per annum based on continuous processing.

The 20 tons per annum equipment orders have been placed, and the facility will be apportioned into one building at the expansion site announced on October 9, 2025. The scale-up will first accommodate the increasing customer requirements for product supply, and concurrently, mass-producibility testing will be executed to optimize the manufacturing process from pilot- to commercial-scale production. Mass-producibility testing will ensure that NBMSiDE products can be manufactured in large volumes without compromising quality, performance, and economics. Following the 20-ton mass-producibility tests and material quality/performance validation, the Company will scale up production to the first commercial phase of 240 tons per annum.

Market Trends & Growth

The global lithium-ion battery value chain continues to experience a trend toward regionalization and supply chain diversification. Both corporates and governments, especially in North America and Europe, are prioritizing onshoring and friendshoring strategies to reduce dependency on China, which currently captures most market share from the upstream to downstream supply chains. Particularly, the implementation of the U.S. One Big Beautiful Bill Act (OBBBA), which introduced stricter policies such as prohibited foreign entity and material assistance cost ratio, and the Bipartisan Infrastructure Law (BIL) have catalyzed the requirement for domestic technology and production. European Union (EU) policies such as the Industrial Action Plan for the European Automotive Sector and Critical Raw Materials Act (CRMA) have further created mandates for EU or allied partnered sourcing.

Along with supply-side initiatives, the accelerating growth of autonomous and mobile systems are advancing the demand for high-performance energy storage and battery technologies. Capacity or energy density, safety-reinforced fast charging/discharging rates, and costs are considered as the main areas of development requirement for lithium-ion batteries. Due to natural properties of high capacity and fast charging characteristics, lithium-silicon batteries are recognized as a mandatory innovation for both established and emerging electronics technologies.

According to Hana Financial Group, one of South Korea's largest financial institutions and investment banks, the market value is expected to grow from \$400 million USD in 2022 to approximately \$30 billion USD by 2032, representing a compound annual growth rate of 54 percent. Moreover, SNE Research, Asia's premier technology market research and consulting firm, reported that the global silicon anode market will grow production from 39,000 tons in 2025 to 285,000 tons in 2035 at a CAGR of 39 percent. The silicon anode materials market is further expected to experience the highest growth rate compared to the broader lithium-ion battery market and any other component materials, including graphite anodes and cathode materials.

Observing direct end-user markets, the consumer electronics industry represents a significant and high-volume application area due to frequent product release and turnover cycles and substantial competition for performance differentiation, exceeding 40 percent of the silicon battery market in various studies according to Market.us. The demand for lithium-silicon batteries is primarily driven by an enduring need for electronics and devices to offer longer run-times and faster charging capabilities, specifically smartphones, laptops, tablets, and wearable technology.

As an emerging sector, the robotics, drone, and UAV markets represent a strong growth avenue for lithium-silicon batteries. The International Federation of Robotics reported that 4.28 million units of industrial robots were in operation worldwide at the end of 2023, reflecting a 10 percent year-over-year increase. Annual installations reached over 540,000 units, driven by automation, manufacturing, and warehousing applications. Due to the elevated capacity and power needs of mobile, autonomous, and humanoid robots, silicon anode integration is escalating in urgency for long-cycle life and high-power density.

According to Drone Industry Insights, the global drone market is projected to reach \$54.6 billion USD by 2030. Flight time, payload capacity, and safe, high-speed maneuvers remain critical performance factors for the mission operability of drones and UAVs.

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Advances in lithium-ion battery energy density and safe high discharge rates have a direct, material impact on the commercial viability of these drone and UAV operations across defense, logistics, precision agriculture, and emergency response.

Despite the temporary slowdown of the lithium-ion battery industry caused by the EV chasm, NEO Battery intends to capitalize on emerging opportunities in high-performance and specialty battery applications with its proprietary lithium-silicon battery technology. By establishing battery material and cell manufacturing capabilities outside of China, the Company is expected to be well positioned to address the increasing demand for localized, industry-quality energy storage solutions. Furthermore, with vertically integrated business operations, NEO Battery aims to support downstream OEMs that seek batteries with enhanced performance, supply chain resilience, and cost effectiveness.

CORPORATE HIGHLIGHTS

Highlights of the Company's activities during the six months ended August 31, 2025, and up to the date of the MD&A:

Corporate Updates

- On March 18, 2025, the Company has introduced NBMSIDE® P-300N, an advanced silicon anode product with the highest capacity retention achieved to date. The P-300N is a mass-producible prototype optimized to enhance battery stability while maintaining low-cost production.
- On April 1, 2025, the Company has announced that the Company entered into a collaboration with Elementium Materials Inc. ("Elementium"), an advanced battery electrolyte technology company.
- On April 25, 2025, the Company appointed Mr. Kenneth Hoffman, CFA, CIM, previously, the Global Head of Battery Materials at McKinsey & Company, to its Board of Directors.
- On June 5, 2025, the Company has announced (i) the Company's advanced silicon battery, P-300N, has outperformed target metrics for long-term capacity testing, (ii) Dr. Jun Sik Jeoung's full-time hiring as Senior Vice President to prepare large-scale battery testing and production expansion, and (iii) the voting results of the 2025 Annual General and Special Meeting.
- On July 16, 2025, the Company appointed Mr. Seok Joung Youn as a Head of Manufacturing and Facility Operations.
- On July 23, 2025, the Company received the Notice of Allowances for two patents regarding the P-100 and P-200 silicon battery materials from the Korean Intellectual Property Office ("KIPO"). KIPO stated that the patent application has been examined and approved for issuance.
- On August 18, 2025, the Company has initiated a new development program for high-performance lithium-ion batteries tailored for the growing drone and unmanned aerial vehicle (UAV) industry.
- On August 21, the Company entered into a Joint Development Agreement ("JDA") with NainTech Co., Ltd. ("NainTech") (KRX:267320), a South Korean manufacturer specializing in battery & fuel cell technology and semiconductor & display precision equipment.
- On September 12, 2025, the Company received its first, multi-year purchase order valued at \$4.5 million CAD and secured a Joint Development Agreement for high-performance battery products with an Asian manufacturer specializing in AI-powered mission flight control systems for drones and unmanned aerial vehicles (UAV).

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- On September 22, 2025, the Company has announced that it has entered into a Letter of Intent with a South Korean battery company to lease an operational, revenue-generating battery components manufacturing facility to initiate customized, high-performance battery production for the drone, unmanned aerial vehicle (UAV), robotics, electronics, automotive, and energy storage sectors.
- On October 2, 2025, the Company has announced the signing of a multi-year offtake agreement and a Joint Development Agreement with a North American lithium-ion battery company specializing in performance-intensive, speciality applications, including unmanned systems (UAS), drones, and defense-related mobile systems.

Financing

- On May 29, 2025, 25,000 stock options were exercised at a price of \$0.20 per option for total proceeds of \$5,000.
- On June 5, 2025, 70,000 and 50,000 stock options were exercised at a price of \$0.20 and \$0.30 per option, respectively, for total proceeds of \$29,000.
- On June 13, 2025, the Company has completed a non-brokered private placement of 400,000 units at a price of \$0.50 per unit for gross proceeds of \$200,000. Each unit consists of one common share of the Company and one non-transferable common share purchase warrant. Each whole warrant will be exercisable to acquire one common share of the Company at an exercise price of \$0.75 CAD for a period of 24 months from the closing date of the offering.
- On July 18, 2025, the Company completed a non-brokered private placement of 1,400,000 units at a price of \$0.50 per unit for gross proceeds of \$700,000. Each unit consists of one common share of the Company and one non-transferable common share purchase warrant. Each whole warrant will be exercisable to acquire one common share of the Company at an exercise price of \$0.75 CAD for a period of 24 months from the closing date of the offering.
- On September 22, 2025, 150,000 stock options were exercised at a price of \$0.30 per option for total proceeds of \$45,000.
- On September 29, 2025, the Company completed a non-brokered private placement of 10,785,836 units at a price of \$0.51 per unit for gross proceeds of \$5,500,776.36. Each unit consists of one common share of the Company and one non-transferable common share purchase warrant. Each whole warrant will be exercisable to acquire one common share of the Company at an exercise price of \$0.80 CAD for a period of 36 months from the closing date of the offering.

RESULTS OF OPERATIONS

For the three-month ended August 31, 2025

Significant items that contributed to the net loss and comprehensive loss for the periods ended August 31, 2025 and August 31, 2024 were as follows:

- Advertising and marketing of \$Nil (August 31, 2024- \$3,312)
- Consulting and management fees of \$161,991 (August 31, 2024- \$131,477)
- Corporate listing and filing fees \$22,198 (August 31, 2024 - \$6,510)
- Investor relation of \$5,156 (August 31, 2024- \$21,120)
- Office and general \$42,877 (August 31, 2024 - \$9,940)
- Professional fees of \$80,872 (August 31, 2024- \$50,704)
- Payroll expenses of \$69,852 (August 31, 2024- \$115,183)
- Research and development costs of \$169,027 (August 31, 2024- \$24,536)

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- Rent \$21,826 (August 31, 2024 - \$17,642)
- Travel \$89,844 (August 31, 2024 - \$3,036)
- Stock-based compensation \$265,024 (August 31, 2024 - \$6,140)

During the three-month period ended August 31, 2025, the Company incurred a net loss of \$1,009,025, compared to a net loss of \$468,099 for the same period in 2024. The increase in operating expenses was \$553,563, rising to \$1,021,24 from \$458,561 in the prior year's quarter.

The increase in operating expenses can be attributed to the consulting and management fees, corporate listing and filing fees, office and general, professional fees, rent, research and development, stock-compensation, and travel, which increased by \$30,514, \$15,688, \$32,973, \$30,168, \$4,184, \$144,494, \$258,884, and \$86,808, respectively. The increased costs were offset by decreases in investor relations, and payroll expenses, which decreased by \$15,964, and \$45,601, respectively, in the current period. The significant increase in Stock-based compensation reflects the issuance of additional stock options to key personnel and executives as part of NEO Battery Material Ltd.'s strategy to attract and retain talent in the competitive battery materials industry. The substantial increase in R&D costs is attributed to intensified efforts to develop and test high-performance battery cells. Another substantial increase in travel is attributed to participating in various global conferences. The rise in office and general expenses is primarily due to increased administrative costs associated with the expansion of our Korean subsidiary, Neo Battery Materials Korea Co., Ltd. The management's efforts to conserve operating cash were the primary driver of the reduction in advertising and marketing, investor relations, and payroll expenses.

For the six-month ended August 31, 2025

Significant items that contributed to the net loss and comprehensive loss for the periods ended August 31, 2025 and August 31, 2024 were as follows:

- Advertising and marketing of \$Nil (August 31, 2024- \$29,244)
- Consulting and management fees of \$255,248 (August 31, 2024- \$273,922)
- Corporate listing and filing fees \$27,516 (August 31, 2024 - \$12,050)
- Investor relation of \$11,817 (August 31, 2024- \$49,148)
- Office and general \$79,375 (August 31, 2024 - \$27,622)
- Professional fees of \$159,854 (August 31, 2024- \$127,772)
- Payroll expenses of \$168,319 (August 31, 2024- \$224,994)
- Research and development costs of \$305,139 (August 31, 2024- \$45,240)
- Rent \$41,834 (August 31, 2024 - \$37,368)
- Travel \$118,548 (August 31, 2024 - \$17,387)
- Stock-based compensation \$1,162,176 (August 31, 2024 - \$632,396)

During the six-month period ended August 31, 2025, the Company incurred a net loss of \$2,490,617, compared to a net loss of \$1,631,872 for the same period in 2024. The increase in operating expenses was \$873,419, rising to \$2,488,742 from \$1,615,329 in the prior year's quarter.

The increase in operating expenses can be attributed to the corporate listing and filing fees, office and general, professional fees, research and development, stock-based compensation, and travel, which increased by \$15,466, \$51,753, \$32,082, \$259,899, \$529,780, and \$101,161, respectively. The increased costs were offset by decreases in advertising and marketing, consulting and management fees, investor relations, and payroll expenses, which decreased by \$29,244, \$18,674, \$37,331, and \$56,675, respectively, in the current period. The significant increase in Stock-based compensation reflects the issuance of additional stock options to key personnel and executives as part of NEO Battery Material Ltd.'s strategy to attract and retain talent in the competitive battery materials industry. The substantial increase in R&D costs is attributed to intensified efforts to develop and

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test high-performance battery cells. Another substantial increase in travel is attributed to participating in various global conferences. The rise in office and general expenses is primarily due to increased administrative costs associated with the expansion of our Korean subsidiary, Neo Battery Materials Korea Co., Ltd. The management's efforts to conserve operating cash were the primary driver of the reduction in advertising and marketing, corporate listing and filing fees, investor relations, and payroll expenses.

LIQUIDITY AND CAPITAL RESOURCES

	August 31, 2025	February 25, 2025
Cash and cash equivalent	\$ 155,798	\$ 369,694
Current assets, net of cash and cash equivalent	245,467	266,285
Non-current assets	985,554	823,718
Total assets	1,386,819	1,419,697
Current liabilities	891,163	513,058
Non-current liabilities	184,296	141,031
Shareholders' equity	311,360	765,608
Working capital (deficit)	(489,898)	82,921

Total assets are comprised of cash, GST/VAT receivable, prepaids expenses, right-of-use assets, and tangible assets, as at the date of this report. Further, tangible assets have increased due to acquisition of lab equipment, furniture and fixture.

Management believes that its ability to continue as a going concern is highly dependent upon its ability to raise equity financing. The Company's operation is highly included by capital market environment, supply chain, inflation, geographic stability and global business environment in general. Given volatility in equity markets, global uncertainty in economic conditions, cost pressures and intensity in international business environment, management constantly reviews emerging technologies and equity markets to ensure that the Company maintain enough liquidity to support its growth strategy.

Liquidity Outlook

At present, the Company does not have any sources of generating revenues and its financial success is highly dependent on management's ability to develop its new nanocoating technology and raise capital through equity financing.

Many factors influence the Company's ability to raise funds, including the health of the financial market, the Company's track record, and the experience and caliber of its management. Actual funding requirements may vary from those planned due to a few factors, including the nanocoating technology's application. Management believes it will be able to raise equity capital and/or debt as required in the long term but understands that there will be risks involved which may be beyond its control.

This outlook is based on the Company's current financial position and is subject to change if new business opportunities become available.

Going Concern

The condensed consolidated interim financial statements for the six months ended August 31, 2025 have been prepared based on the going-concern assumption, which means that the Company will continue in operation for the foreseeable future and will be able to realize its assets and discharge its liabilities in the normal course of operations. The Company continues to incur operating losses, has limited financial resources, has no sources of generating income, and there is no assurance that sufficient funding will be available to continue its operations. These material uncertainties may cast a significant doubt on the validity of the going concern assumption. The Company's ability to continue as a going concern is dependent upon its ability to obtain capital

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through the equity market. For the six months ended August 31, 2025, the Company had an accumulated deficit of \$39,160,687 (February 28, 2025 - \$36,827,018) and had a net loss of \$2,490,617 (August 31, 2024 - \$1,631,872).

If the going concern assumption was not appropriate, then financial statement adjustments would be necessary in the carrying values of assets, liabilities, reported income and expenses and the statement of financial position classifications used. Such adjustments could be material.

Strategy and Risk Management

The continuity of the Company's operations hinges on securing its necessary financing for research and development and beyond. Management remains confident in its ability to secure additional capital for funding both its R&D and its administrative expenses. Although the management has successfully raised capital in the past, there is no guarantee of continued success in the future.

SUMMARY OF QUARTERLY RESULTS

The following table summarizes selected financial data reported by the Company for the previous seven quarters in Canadian dollars:

	31-Aug-25	31-May-25	28-Feb-25	30-Nov-24	31-Aug-24	31-May-24	29-Feb-24
	\$	\$	\$	\$	\$	\$	\$
Net loss and Comprehensive loss	2,504,924	1,477,079	740,973	1,916,712	431,307	1,211,853	1,478,616
Basic and diluted loss per share	(0.02)	(0.01)	(0.00)	(0.02)	(0.01)	(0.01)	(0.01)
Total assets	1,386,819	1,125,359	1,419,697	2,490,985	1,924,112	2,310,430	2,953,808
Equity	311,360	190,681	765,608	1,832,300	1,249,617	1,674,784	2,228,381

Basic and diluted loss per share above is the same, as the effect of potential shares issuances under stock options or warrant agreements would be anti-dilutive.

RISKS FACTORS

The Company is engaged in the pioneering field of silicon anode active materials and nanocoating technology for lithium-ion batteries. Our product, NBMSiDE, is in the developmental stage and has yet to be sold on a large commercial scale. The future commercial success of our products is uncertain and subject to a variety of risks and uncertainties that could affect our profitability. Forward-looking statements related to our business are inherently uncertain and subject to both known and unknown risks, including but not limited to:

- **Technological and Market Risks:** The Company is at the forefront of developing silicon anode active materials and nanocoating technologies for lithium-ion batteries, with our flagship product, NBMSiDE, yet to be commercially validated on a large scale. The success of our technologies is uncertain, as they undergo continuous evaluation and testing within the electric vehicle (EV) battery supply chain. Our innovations face the risk of not meeting commercial or market expectations, potentially being overshadowed by newer advancements. The lack of early market validation poses a significant risk of developing a product with limited demand, amidst fierce competition from established companies with more substantial financial and technical resources.

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- **Operational and Commercialization Challenges:** Our journey towards commercialization is fraught with uncertainties, including securing necessary funding, permits, and navigating through potential legislative and regulatory changes that could introduce delays or incur additional expenses. The ability to protect our intellectual property, adapt to changing technology, and consumer demands is crucial for maintaining our competitive edge. However, there's an inherent risk of our technologies becoming obsolete or not being marketable if we fail to innovate and keep pace with industry advancements.
- **Financial and Economic Considerations:** The volatile nature of global economic conditions and silicon prices, along with inflation and market volatility in Canadian and global securities markets, poses significant risks to our operations. Our financial health is also contingent upon our ability to maintain robust accounting practices and internal controls. Any inadequacies or failures in these areas could harm our operational results and compliance with reporting obligations.
- **Strategic and Human Resource Dependencies:** Our strategic approach involves forming partnerships with key industry players in future, including battery manufacturers and EV automakers. The failure to establish these partnerships as anticipated could significantly impact our market penetration and commercialization efforts. Furthermore, our success heavily relies on the expertise and dedication of our team. The loss of key personnel, the challenge of managing growth effectively, and the integration of new businesses or technologies are critical risks that could affect our operational continuity.
- **Regulatory and Environmental Risks:** Our goal for production to meet the demands of approximately 3 million EVs annually is ambitious and subject to a myriad of factors, including construction delays and operational efficiencies. Moreover, our operations are under the scrutiny of stringent regulatory and environmental standards, which could evolve and impose additional burdens in terms of compliance costs or restrictions on our operational capabilities.
- **Intellectual Property and Confidentiality Concerns:** Till the date of this report, the Company have filed 9 patents. The protection of our patents, technology, and proprietary information is paramount for our business development. Despite having confidentiality agreements in place, the risk of information breaches remains, which could undermine our competitive position. Additionally, the potential for conflicts of interest among our officers and directors could impact decision-making and strategic directions, further complicating our path to commercial success.
- **Non-Compliance with Securities Law:** As a company listed on the TSXV, we are subject to strict regulatory requirements. Failure to comply with applicable securities laws and regulations can lead to sanctions, fines, or other penalties imposed by regulatory bodies such as the Ontario Securities Commission (OSC). These penalties could adversely affect our financial condition and our ability to continue operations. Non-compliance with securities laws increases the risk of legal challenges from shareholders and other stakeholders. Litigation can be costly and time-consuming, and adverse outcomes can have a substantial financial impact on our business.

RELATED PARTY TRANSACTIONS

Related parties include the Company's key management personnel with authority and responsibility for planning, directing and controlling activities of the Company. The Company has determined that its key management personnel is comprised of the Company's Board of Directors and officers, and the entities controlled by the key management personnel.

As at August 31, 2025 and February 28, 2025, there were \$76,200 and \$38,758, respectively, balances due to related parties.

During the six months ended August 31, 2025, 1,010,000 options were granted to related parties at the fair value of \$632,550, which was recorded in the current period per the vesting schedule.

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During the six months ended August 31, 2025 and 2024, the Company paid the following amounts to the officers and directors of the Company:

	August 31, 2025 (\$)	August 31, 2024 (\$)
Management fees	189,528	124,278
Director fees	27,581	-
Professional fees	50,535	36,222
	267,644	160,499

OUTSTANDING SHARE DATA

The Company's authorized share capital consists of an unlimited number of common voting shares without par value.

As at the date of the MD&A, there are:

- 132,038,592 common shares issued and outstanding;
- 11,010,000 stock options outstanding and 9,121,000 stock options exercisable; and
- 24,937,671 warrants outstanding and exercisable.

CRITICAL JUDGEMENTS IN APPLYING ACCOUNTING POLICIES AND KEY SOURCES OF ESTIMATION UNCERTAINTY

The critical judgments and estimates that management has made in the process of applying the Company's accounting policies and that have the most significant effect on the amounts recognized in the condensed unaudited interim financial statements for six months ended August 31, 2025. Actual results could differ from these estimates.

Significant assumptions about the future and other sources of estimation uncertainty that management has made at the end of the reporting period, that could result in a material adjustment to the carrying amounts of assets and liabilities in the event that actual results differ from assumptions made, relate to, but are not limited to, the following:

- i) The incremental rate of borrowing used in the measurement of the lease liability was based on estimated interest rate the Company would borrow at from arm's-length third parties as at the dates of adopting IFRS 16 and entering into its current long-term office lease.
- ii) The inputs used in accounting for stock-based compensation expense included in profit or loss calculated using the Black-Scholes option pricing model.
- iii) Management uses judgement to assess the existence of contingencies. By their nature, contingencies will only be resolved when one or more future events occur or fail to occur. Management also uses judgement to assess the likelihood of occurrence of one or more future events.
- iv) The assessment of the Company's ability to execute its strategy by funding future working capital requirements requires judgment. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, such as expectations of future events that are believed to be reasonable under the circumstances.

ACCOUNTING STANDARDS AND INTERPRETATIONS ISSUED BUT NOT YET EFFECTIVE

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The Company has reviewed the accounting standards or amendments to existing accounting standards that have been issued but have future effective dates and determined that these are either not applicable or are not expected to have a significant impact on the Company's financial statements.

PRONOUNCEMENTS AFFECTING FINANCIAL STATEMENTS PRESENTATION OR DISCLOSURE

The Company has reviewed the accounting standards or amendments to existing accounting standards that have been issued but have future effective dates and determined that these are either not applicable or are not expected to have a significant impact on the Company's financial statements.

The Company's activities expose it to a variety of financial risks including credit risk, liquidity risk, interest rate risk and market price risk.

Credit risk

Credit risk is the risk that one party to a financial instrument will fail to discharge an obligation and cause the other party to incur a financial loss. Financial instruments that potentially subject the Company to credit risk consist of cash and cash equivalents, short-term investments, other receivables, and the short-term debt NEO deposits its cash and cash equivalents with high credit quality major Canadian financial institutions as determined by ratings agencies. The carrying amount of financial assets recorded in the financial statements, net of any allowances for losses, represents the maximum exposure to credit risk.

Liquidity Risk

Liquidity risk is the risk that the Company will not be able to meet its current obligations as they come due. The Company attempts to manage liquidity risk by maintaining sufficient cash and cash equivalent balances. Liquidity requirements are managed based on expected cash outflows to ensure that there is sufficient capital in order to meet short-term obligations.

As of August 31, 2025, the Company had a working capital deficit of \$489,898 (February 28, 2025 - working capital of \$82,921). Further information relating to liquidity risk is disclosed in Note 10 of the Company's consolidated financial statements for the six months ended August 31, 2025.

Interest Rate Risk

Interest rate risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate due to changes in market interest rates. The Company is not exposed to significant interest rate risks.

Foreign currency risk

Foreign currency risk is the risk that the fair values of future cash flows of a financial instrument will fluctuate because they are denominated in currencies that differ from the respective functional currency. As at August 31, 2025, the Company had negligible financial assets or liabilities denominated in a foreign currency.

MANAGEMENT OF CAPITAL

In the management of capital, the Company considers cash, working capital and shareholders' equity. The Company manages its capital structure and makes adjustments to it, based on the funds available to the Company, in order to support the development of silicon anode materials for lithium-ion batteries. The Board of Directors has not established quantitative capital structure and criteria management but will review on a regular basis the capital structure of the Company to ensure its appropriateness to the stage of development of the business.

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The Company's objectives when managing capital are:

- To invest cash on hand in highly liquid and highly rated financial instruments with high credit quality issuers, thereby minimizing the risk and loss of principal.
- Management reviews its capital management approach on an ongoing basis and believes that this approach, given the relative size of the Company, is reasonable.
- The Company may issue new equity, incur additional debt, for cash and/or expenditure commitments from optionees, enter into joint venture arrangements, or dispose of certain assets. When applicable, the Company's investment policy is to hold cash in interest bearing accounts at high credit quality financial institutions to maximize liquidity. In order to maximize ongoing development efforts, the Company does not pay dividends.
- The Company expects to continue to raise funds, from time to time, to continue meeting its capital management objectives.
- There were no changes in the Company's approach to capital management for the six months ended August 31, 2025, compared to the year ended February 28, 2025. The Company is not subject to externally imposed capital requirements.

MANAGEMENT'S RESPONSIBILITY FOR FINANCIAL STATEMENTS

Management is responsible for the information provided in the MD&A and the condensed unaudited consolidated interim financial statements for the six months ended August 31, 2025.

In contrast to the certificate required under National Instrument 52-109 Certificate of Disclosure in Issuers' Annual and Interim Filings ("NI 52-109"), the Venture Issuer Basic Certificate does not include representations relating to the establishment and maintenance of disclosure controls and procedures ("DC&P") and internal control over financial reporting ("ICFR"), as defined in NI 52-109, in particular, the certifying officers filing this certificate are not making any representations relating to the establishment and maintenance of:

- i. controls and other procedures designed to provide reasonable assurance that information required to be disclosed by the issuer in its annual filings, interim filings or other reports filed or submitted under securities legislation is recorded, processed, summarized and reported within the time periods specified in securities legislation; and
- ii. a process to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with the issuer's reporting standards.

The issuer's certifying officers are responsible for ensuring that processes are in place to provide them with sufficient knowledge to support the representations they are making in this certificate. Investors should be aware that inherent limitations on the ability of certifying officers of a venture issuer to design and implement on a cost-effective basis DC&P and ICFR as defined in NI 52-109 may result in additional risks to the quality, reliability, transparency and timeliness of interim and annual filings and other reports provided under securities legislation.

ADDITIONAL DISCLOSURE FOR VENTURE ISSUERS WITHOUT SIGNIFICANT REVENUE

Additional disclosure concerning Neo Battery's general and administrative expenses and research and development costs is provided in the Company's six months ended August 31, 2025, statement of operations contained in its condensed consolidated interim financial statements for the six months ended August 31, 2025. These statements are available on its SEDAR PLUS Page Site accessed through www.sedarplus.ca.

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DIVIDENDS

The Company has no earnings or dividend record and is unlikely to pay any dividends in the foreseeable future as it intends to employ available funds for mineral exploration and development. Any future determination to pay dividends will be at the discretion of the Board of Directors of the Company and will depend on the Company's financial condition, results of operations, capital requirements and such other factors as the Board of Directors of the Company deem relevant.

NATURE OF THE SECURITIES

The purchase of the Company's securities involves a high degree of risk and should be undertaken only by investors whose financial resources are sufficient to enable them to assume such risks. The Company's securities should not be purchased by persons who cannot afford the possibility of the loss of their entire investment. Furthermore, an investment in the Company's securities should not constitute a major portion of an investor's portfolio.

PROPOSED TRANSACTIONS

At the present time, there are no other proposed transactions that require to be disclosed.

OFF-BALANCE SHEET ARRANGEMENTS

The Company does not have any off-balance sheet arrangements.

APPROVAL

The Board of Directors oversees management's responsibility for financial reporting and internal control systems through an Audit Committee. This Committee meets periodically with management and annually with the independent auditors to review the scope and results of the annual audit and to review the financial statements and related financial reporting and internal control matters before the financial statements are approved by the Board of Directors and submitted to the shareholders of the Company. The Board of Directors of the Company has approved the condensed consolidated interim financial statements and the disclosure contained in this MD&A. A copy of this MD&A will be provided to anyone who requests it.

CAUTION REGARDING FORWARD LOOKING INFORMATION

This MD&A includes "forward-looking information" or "forward-looking statements" as defined by applicable securities laws. The purpose of including forward-looking statements is to provide information about the current expectations and plans of management, enabling investors and others to gain a better understanding of the Company's business plans, financial performance, and condition.

All statements in this MD&A, except for statements of historical fact, pertaining to the Company's strategy, future operations, financial position, prospects, plans, and management's objectives, are considered forward-looking statements. These statements are typically identified by words such as "plan," "expect," "estimate," "intend," "anticipate," "target", "believe," or variations thereof, as well as statements indicating that certain actions, events, or results "may," "could," "would," "might," or "will" be taken, occur, or be achieved. Specifically, this MD&A contains forward-looking statements related to the Company's intentions concerning its business and operations, its expectations regarding capital raising and business growth, its growth strategy and opportunities, anticipated industry trends and challenges, the perceived value and potential of the Company's patents, trademark, permit, preliminary feasibility studies and other development study results, budgets, strategic plans, market price for silicon anode materials, permitting and other timelines, as well as government regulations and relations.

Forward-looking information is based on certain assumptions and other important factors that, if untrue, could significantly impact the Company's actual results, performance, or achievements in comparison to future results, performance, or achievements expressed or implied by such information or statements. There is no guarantee that such information or statements will prove to be accurate.

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Key assumptions underlying the Company's forward-looking information include its ability to raise additional financing when needed and on reasonable terms, achieve current development, and other objectives regarding its nanocoating technology, and demand for NBMSiDE and other products, obtain necessary licenses and governmental approvals, attract and retain key personnel, as well as general business and economic conditions, including competitive conditions in the Company's market.

Readers are cautioned that the above list does not cover all factors and assumptions that may have been utilized. Additionally, forward-looking statements are subject to various risks and uncertainties that could have a significant adverse effect on the Company's business, financial condition, results of operations, and growth prospects. Some of the risks and uncertainties that could cause actual results to differ materially from the expressed forward-looking statements include no revenue generated in the past, risks related to nano coating technology development progress, market acceptance, commercialization hurdles, and operating costs, the Company's dependence on the success of the commercial plant, challenges in funding and constructing the plant, obtaining resources from governmental authorities, compliance with environmental and safety regulations, access to equipment, maintenance, reliance on key personnel and business relationships, growth strategy, obtaining insurance, occupational health and safety risks, adverse publicity, third-party risks, disruptions to business operations, reliance on technology and information systems, litigation risks, tax risks, unforeseen expenses, public health crises, climate change, general economic conditions, commodity prices and exchange rate risks, lithium demand, share price volatility, public company obligations, competition risk, dividend policy, policies and legislation, force majeure, and technological changes.

While the Company believes that its expectations are based on reasonable assumptions and has made efforts to identify important factors that could cause actual actions, events, or results to differ materially from those described in forward-looking statements, there may be other factors that result in actions, events, or results not meeting the anticipated, estimated, or intended outcomes. Therefore, these risks should be carefully considered, although they are not exhaustive. If any of these risks or uncertainties materialize, actual results may vary materially from those anticipated in the forward-looking statements provided herein. Due to the inherent risks, uncertainties, and assumptions associated with forward-looking statements, readers should exercise caution and avoid undue reliance on them.

The forward-looking statements in this document are presented to assist investors in understanding the Company's expected financial and operational performance and results as of the periods covered in the Company's plans and objectives. They may not be suitable for other purposes. The assumptions mentioned above and described in greater detail in the "Risk Factors" section of this MD&A should be carefully considered by readers.

The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by applicable law. The Company qualifies all of its forward-looking statements with these cautionary statements.

ADDITIONAL INFORMATION

Additional Information relating to NEO Battery Materials can be found on the Company website www.neobatterymaterials.com and on SEDARPLUS at www.sedarplus.ca or by contacting the Company at 10th Floor - 4711 Yonge Street, Toronto, Ontario, Canada, M2N 6K8, Tel: (437) 451-7677.