

# NEO Battery Launches FPV Strike Drone or Loitering Munition Battery with High-Power & Energy Performance

13:00 Uhr | [CNW](#)

- Launches high-power & energy FPV strike drone battery delivering 82 and 103% respective increase in energy density and flight range vs. Chinese incumbents at identical size, dimensions, and current
- One of first non-Chinese pouch battery alternatives for FPV strike drones with U.S. NDAA compliance for procurement eligibility into DoW and allied military entities
- Targets mass-market deployment at competitive price points across Ukraine, the U.S., South Korea, Japan, and other regions with stockpiling FPV drones for national preparedness
- Strategic integration into dual-use markets, including drones for precision agriculture, surveillance, and industrial applications

[NEO Battery Materials Ltd.](#) ("NEO" or the "Company") (TSXV: NBM) (OTC: NBMFF), a low-cost, silicon-enhanced battery technology developer enabling longer-running, rapid-charging batteries for drones, robotics, and electronics, is pleased to announce the launch of its high-power and energy battery products specifically engineered for First-Person View (FPV) strike drones and munitions (LMs), demonstrating a 82% increase in energy density and doubling in flight range compared to Chinese incumbents.

NEO's new high-performance battery products address the significant supply deficit in the global defense battery market, offering one of the first non-Chinese pouch battery alternatives for FPV strike drones. The Company's Drone Battery Platform offers a secure supply for defense drone/robotics applications and ensures compliance with the U.S. FY2026 National Defense Authorization Act (NDAA)<sup>1</sup>, supporting eligibility for direct procurement into the Department of War (DoW) and allied military organizations.

Both 6.5 and 11.5 Ah products are precision-engineered to deliver improved stability and flight time under the high-intensity discharge conditions required for one-way strike drones. At identical size and dimensions, NEO's 6.5 Ah packs delivered a 102.9% increase in energy density compared to a commercial Chinese pack, enhancing from 129 to 235 watt-hours per kilogram or raising capacity from 3.3 to 6.5 Ah. In a simulated 250 km/h strike mission, the optimization translated into a 102.9% flight range from 24.4 km to 49.5 km, given the same amperage (current delivery). The higher-capacity 11.5 Ah variant demonstrated a stronger power profile and lower temperature rise compared to a leading silicon battery product. Based on a 6-minute discharge test, NEO's cell retained 78.8% of capacity compared to 48% for its benchmark.

Ensuring cost-competitive pricing, NEO developed the product lines to meet growing demand in Ukraine and the United States, where the transition toward a non-Chinese drone supply chain has become a procurement priority. The Company is in discussions across Ukraine, the U.S., South Korea, and Japan regarding the integration of these cells into active defense systems. For dual-use purpose, the FPV strike drone battery portfolio will be further distributed to drones for precision agriculture, security/inspection, and industrial logistics. To accommodate non-military use, both products are expected to retain a cycle life of approximately 1,000 (dis)charging cycles.

Beyond these initial engagements, NEO will actively support allied governments in building strategic drone inventories. Countries including Poland, Estonia, the Czech Republic, India, and Singapore are incorporating large-scale stockpiling of FPV strike drones for their national preparedness strategies. By providing a reliable alternative to Chinese-dependent components, NEO positions itself to directly support international efforts to secure drone manufacturing and ensure national security concerns are addressed through supply chain resilience.

The FPV drone battery product lines are undergoing UN 38.3, KC, and other relevant certifications to validate transport safety. These qualifications will enable export readiness and support seamless commercial integration across international and industrial markets.

NEO is advancing a portfolio of next-generation battery technologies, including customized, premium cells with energy density in the 300-150 Wh/kg range for high-performance, bespoke drone and aerospace platforms. These programs position NEO beyond the mass-market FPV segment into higher-value defense and aerospace applications, supporting a multi-tier growth strategy.

strategy and long-term margin expansion. For this product launch and short-term strategy, however, the Company is primarily focused on the mass-market segment, where competitive price points relative to Chinese products are required to enable higher-volume deployment of FPV strike drones and loitering munitions.

"We are witnessing a fundamental shift in the economics of modern defense, where low-cost FPV drones can now neutralize armored vehicles or missile systems costing millions of dollars," stated Mr. Spencer Huh, President & CEO of NEO. "As modern warfare has prompted governments and defense ministries to pivot from high-cost legacy platforms towards mass-produced uncrewed drones and robotics. In that context, a Chinese-independent supply chain has become a strategic requirement for national security. NEO intends to reliably deliver the high-performance battery solutions that allow allies to achieve true supply chain independence and maintain their strategic advantage."

1. U.S. FY2026 NDAA: <https://www.congress.gov/119/plaws/publ60/PLAW-119publ60.pdf>

About NEO Battery Materials Ltd.

NEO Battery Materials is a Canadian battery technology company focused on developing and producing silicon-enhanced lithium-ion batteries in drones, unmanned aerial vehicles (UAV), robotics, unmanned systems, electronics, electric vehicles, and energy storage systems for AI data centers. With a patent-protected, low-cost manufacturing process, NEO Battery enables longer-running and ultra-fast charging batteries and provides end-to-end battery solutions from materials selection, cell design, architecture, and process optimization. The Company aims to be a globally-leading producer of high-performance lithium-ion battery components and materials, building a secure, robust battery supply chain in North America. For more information, visit the Company's website at: <https://www.neobatterymaterials.com/>.

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

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associated with the timely execution of the Company's strategies and business plans; the risks associated with the lithium battery industry and end-users' demand and adoption of the Company's silicon anode technology and battery products; adoption and integration challenges, including the difficulty of incorporating silicon anodes and silicon battery products; 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 litigation; risk management; and other risk factors as identified in the Company's recent Financial Statements and MD&A recent securities filings for the Company which are available on [www.sedarplus.ca](http://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 R&D and commercialization activities, no material adverse change in precursor, raw material, equipment, and relevant development and commercialization plans to proceed in accordance with plans and such plans to achieve their stated 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 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 may 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 undertakes to update such forward-looking information except in accordance with applicable securities laws.

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<https://www.rohstoff-welt.de/news/736512--NEO-Battery-Launches-FPV-Strike-Drone-or-Loitering-Munition-Battery-with-High-Power-und-Energy-Performance>

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