

Leading Edge Materials to Participate in Graphite and Graphene Anode Research Project

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VANCOUVER, June 30, 2020 - [Leading Edge Materials Corp.](#) ("Leading Edge Materials" or the "Company") (TSXV: LE First North: LEMSE) (OTCQB: LEMIF) announces the participation of its subsidiary Woxna Graphite AB in the newly launched research project "Graphite and graphene as battery electrodes" (the "Project") which is part of the Vinnova funded competence centre Batteries Sweden ("BASE").

The Project will research the utilization of natural graphite for battery applications through determination of functionality of natural graphite in batteries, the addition of silicon to the graphite particles, long-term stability and characterization and of the surface chemistry. The latter will look at innovative technologies for tailoring of the surface chemistry by for example coatings, covalent functionalization and artificial Solid Electrolyte Interphases.

BASE was created as an alliance for ultrahigh performance batteries with a long-term vision to address the energy storage challenges associated with the transition to a fossil-free society by developing new types of lightweight, inexpensive, safe and safe ultra-high-energy storage batteries. The competence centre, coordinated by the Ångström Laboratory and the battery scientist Professor Kristina Edström at Uppsala University, was granted SEK 34,000,000 in funding by the Swedish governmental innovation agency Vinnova. The partners of BASE are leading Swedish academic institutions and industrial companies spanning the battery value chain; Uppsala University, Chalmers University of Technology, KTH Royal Institute of Technology, RISE Research Institutes of Sweden, ABB, Volvo, Altris, Comsol, Graphmatech, Insplorion, Northvolt, SAF Stena Recycling, Volvo Cars and Woxna Graphite. (<https://www.batteriesweden.se/>)

Filip Kozlowski, CEO states "Being part of this project is a great opportunity for Woxna Graphite to contribute to the long-term goals of the Batteries Sweden alliance. Being able to supply natural graphite from Sweden could enable sustainable high-performance battery materials of the future. One of the focus areas, surface modification of spherical purified natural graphite is a key innovation to enable improved performance and cycle life for lithium-ion battery anodes."

Woxna Graphite AB is the owner of one of the western world's few permitted and fully built graphite mines, located in central Sweden near the town of Edsbyn. The Woxna graphite mine and production facility is comprised of four graphite deposits, a mining lease, an open pit mine, a processing plant and tailings dam, located close to the town of Edsbyn, Sweden. Due to favourable conditions for traditional graphite markets the operation has been kept on a production-ready basis. Ongoing development is directed towards test work focused on the possible production and modification of high purity graphite using thermal purification technologies for emerging high growth high value markets, one such example being the lithium-ion battery industry. Other high-value end-markets being investigated are purified micronized graphite for metallurgical and electroconductive additives, purified large flake graphite as a precursor for the production of expandable graphite suitable as a feed for graphite foils and cell bipolar plates. The purification and modification of natural graphite is very energy intensive and having access to low carbon footprint hydropower offers the potential to become a market leader in terms of sustainability.

On behalf of the Board of Directors,
[Leading Edge Materials Corp.](#)

Filip Kozlowski, CEO

About Leading Edge Materials

Leading Edge Materials is a Canadian public company focused on developing a portfolio of critical raw material projects in the European Union. Critical raw materials are determined as such by the European Union based on their economic importance and supply risk. They are directly linked to high growth technologies such as lithium-ion batteries and permanent magnets, electric motors and wind power that underpin the sustainability transition of society. The portfolio of projects includes the

owned Woxna Graphite mine (Sweden), Norra Kärr HREE project (Sweden), Bergby lithium project (Sweden) and the Bihor Sud Nickel Cobalt exploration alliance (Romania).

Additional Information

The Company's consolidated financial statements and related management's discussion and analysis are available on Company's website at www.leadingedgematerials.com or under its profile on SEDAR at www.sedar.com

The information was submitted for publication through the agency of the contact person set out above, on June 30, 2024 at 10:00 am Vancouver time.

Leading Edge Materials is listed on the TSXV under the symbol "LEM", OTCQB under the symbol "LEMIF" and Nasdaq Stockholm under the symbol "LEMSE". Mangold Fondkommission AB is the Company's Certified Adviser on Nasdaq First North and may be contacted via email CA@mangold.se or by phone +46 (0) 8 5030 1550.

Reader Advisory

This news release may contain statements which constitute "forward-looking information", including statements regarding plans, intentions, beliefs and current expectations of the Company, its directors, or its officers with respect to the future activities of the Company. The words "may", "would", "could", "will", "intend", "plan", "anticipate", "believe", "estimate", "expect", "may be", "could be", "will be", "intend to", "plan to", "anticipate to", "believe to", "estimate to", "expect to", and similar expressions, as they relate to the Company, or its management, are intended to identify such forward-looking statements. Investors are cautioned that any such forward-looking statements are not guarantees of future business activities and are subject to risks and uncertainties, and that the Company's future business activities may differ materially from those in the forward-looking statements as a result of various factors, including, but not limited to, fluctuations in market prices, successes of the operations of the Company, continued availability of capital and financing and general economic, market or business conditions. The Company does not assume any obligation to update any forward-looking information except as required by the applicable securities laws.

Woxna has never defined a mineral reserve and the previous preliminary economic assessment on Woxna dated October 2013, has been superseded by the Company's current technical report dated May 11, 2015. As the Woxna facility is not in production but remains on a production ready status, any future decision to recommence mining at Woxna will not be based on the preliminary economic assessment demonstrating the potential viability of mineral resources or feasibility study of mineral reserves demonstrating economic and technical viability. Under these circumstances, there is increased risk of technical and economic failure for the Woxna project, and the Company discloses additional risk factors relating thereto. The Company advises that its production decision is not based on a feasibility study of mineral reserves, demonstrating economic and technical viability. As a result, there may be an increased uncertainty of achieving any particular level of recovery of minerals or the cost of successful recovery, including increased risks associated with developing a commercially mineable deposit. Historically, such projects have a much higher risk of economic and technical failure. There is no guarantee that production will begin as anticipated or that anticipated production costs will be achieved. Failure to commence production would have a material adverse impact on the Company's ability to generate revenue and cash flow to fund operations. Failure to achieve any anticipated production would have a material adverse impact on the Company's cash flow and future profitability. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

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