Elcora Advanced Materials Develops Advanced Surface Coating for Lithium-Ion Battery Electrode Powders

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Halifax, June 14, 2018 - Elcora Advanced Materials Corp. (TSXV: ERA) (FSE: ELM) (OTCQB: ECORF) (the "Company" or "Elcora") is pleased to announce that it has developed a surface coating process for lithium-ion battery electrode powders. The surface coating is necessary to meet technical requirements specific to the lithium-ion battery manufacturing industry.

The surface coating process is economical and scalable. The process gives Elcora the ability to control the surface area of lithium-ion electrode powders. As an example, Elcora was able to reduce the surface area (as measured by BET[1]) of spherically shaped graphite powder from 3 m^2/g to 1 m^2/g.

Elcora's coating process alters the surface area of lithium-ion electrode powders to commercially relevant values (e.g. 0.5—5 m^2/g). Battery manufacturers purchase electrode powders with different surface areas depending on the application (e.g. high power vs. high energy). Elcora's management believes that the ability to control surface area is very important. This ability allows Elcora to offer a family of graphite anode powder products to a wide variety of commercial battery manufacturers. Additionally, Elcora's surface coating process is well suited for electrode materials other than graphite. For example: Si, Sn, SiO_x and $LiFePO_4$.

According to Troy Grant, Chief Executive Officer, "This is a major milestone for Elcora. It demonstrates Elcora's ability to meet specific demands of battery manufacturers. From the very beginning, Elcora's plan has been to create a vertically integrated business. Elcora is able to execute all steps in the value chain for producing graphite anode powder for lithium-ion batteries. Namely: mining → processing → purification → surface coating → commercial product."

[1] https://en.wikipedia.org/wiki/BET_theory

About Elcora Advanced Materials Corp.

Elcora was founded in 2011 and has been structured to become a vertically integrated graphite & graphene company. Elcora mines, processes, refines, and produces both graphite & graphene. As part of the vertical integration strategy Elcora is securing high-grade graphite and graphene precursor graphite from operations in Sri Lanka and other countries which are already in production. Elcora has developed a cost-effective process to make high-quality graphite, graphite products and graphene that are commercially scalable. This combination means that Elcora has the tools and resources for graphite and graphene vertical integration.

For further information please visit the company's website at http://www.elcoracorp.com

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