



HydroGraph Clean Power Inc. Revolutionizes Graphene Production, Offers Sustainable Alternative Amidst China's Graphite Export Restrictions

TORONTO, Oct. 25, 2023 -- China's recent tightening of graphite exports will leave manufacturers of EV batteries, composites, lubricants, coatings and more scrambling to find alternate sources of graphene, as most graphene is produced out of graphite. China's graphite restrictions, as announced by several medial outlets, highlight the need to secure a more sustainable solution for producers relying on graphite for the production of graphene so as not to disrupt graphene access to customers who seek to make their products stronger, lighter, more impermeable or more conductive.

Graphene manufacturer [HydroGraph Clean Power Inc.](#) has commercialized a patented process to produce graphene without the use of graphite. In other words, unlike most graphene producers, HydroGraph doesn't rely on any mined material, instead leveraging a synthetic production process. HydroGraph's only raw materials are commodity industrial gases that are abundant and produced virtually everywhere around the world giving HydroGraph market-leading purity and consistency of product. Due to this sustainable and environmentally friendly production method, HydroGraph can assure the security of supply, thus avoiding the escalating trade war impacting the global supply chain.

"We have all seen how fragile the global supply chain is and how susceptible it is to pandemics, macroeconomic conditions and geopolitical tensions", said Stuart Jara CEO and director of HydroGraph. "HydroGraph's production process, which is sustainable, modular and scalable uses local resources which allows HydroGraph to mitigate the risk of global supply chains, including the latest announcement from China restricting graphite exports which came on the heels of the U.S. limiting semiconductors."

Proof points in graphene:

- For EV battery manufacturers, HydroGraph has published [peer-reviewed findings](#) about boosting lithium-air battery performance by using a graphene electrode.
- The conductive, lightweight and corrosion-resistance advantages of HydroGraph's nanoscale graphene make it ideally suited for EMI applications. HydroGraph and EMP Shield are developing coatings and insulated barriers to protect electronic devices by blocking unwanted disruptions or transmission of electronic data.
- Examples of tests completed by customers, partners and at HydroGraph's labs include:
 - 47% increase in charge acceptance rate with lead acid batteries.
 - 80% decrease in wear of mechanical parts using graphene lubricants.
 - 27 % increase in compressive strength in cement.

According to a recent [Barron's article](#), the demand for graphene is growing and is expected to reach \$2.5 B in 2028. Click [here](#) to view a tour of HydroGraph's manufacturing plant, which walks through the process for producing high-purity graphene, and answers frequently asked questions about the company and the graphene market.

ABOUT HYDROGRAPH

HydroGraph Clean Power Inc. was founded in 2017 to fund and commercialize green, cost-effective processes to manufacture high-purity graphene, and other strategic nano-materials in bulk. Publicly listed on the Canadian Securities Exchange in 2021 and the OTCQB in 2023, the Company acquired the exclusive license from Kansas State University to produce graphene through their patented detonation process. More information about the Company and its products can be found on the HydroGraph website: www.hydrograph.com. For company updates, please follow HydroGraph on [LinkedIn](#) and [Twitter](#).

The Canadian Securities Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of the content of this news release.

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