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Birla Carbon Embarks on a Collaborative Project to Develop Biocrude Derived Graphite for Lithium-ion Batteries

📅 November 28, 2022 💬 Add comment ⌚ 3 min read



Birla Carbon embarks on a collaborative project to develop Biocrude Derived Graphite for Lithium-ion Batteries.

[Birla Carbon](#), one of the global leaders in the manufacture and supply of high-quality, sustainable carbon black solutions, has collaborated with NC State University, the National Renewable Energy Laboratory (NREL), Ensyn, The Battery Innovation Center (BIC), and Yale University, to

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» **The demand for lithium-ion batteries is rapidly increasing and is only expected to accelerate over the next decade.**

With this project, Birla Carbon aims to establish itself as a key player in the energy systems domain by walking a path of sustainability towards producing these integral materials.”

She further adds, “As a key player in this collaboration project, Birla Carbon will convert the biocrude-derived coke to battery-grade graphite using a new-to-the-world graphitization technology, which greatly improves the sustainability of battery materials production by both increasing product output and decreasing energy usage.”

Post obtaining the results, the materials characterization, techno-economic analysis, and life cycle analysis will be conducted at Birla Carbon, NC State, NREL, and Yale.

Being the first global carbon black company to announce its aspiration to reach Net Zero Carbon Emissions by 2050, this project aims to produce graphite more sustainably using renewable feedstocks and aligns with Birla Carbon’s goal.

The increase in demand for electric vehicles is primarily fueling the lithium-ion battery market, and portable electronic devices, power tools, residential energy storage, and grid-level storage are applications becoming increasingly dependent on this technology.

Graphite is one of the materials in a lithium-ion battery that stores lithium. Producing battery-grade graphite from biocrude offers a more sustainable pathway toward producing these valuable

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goods, and tires, Energy Systems, and Sustainable Carbonaceous Materials.

The company's footprint extends across 12 countries with 16 manufacturing facilities and two state-of-the-art technology centers in Marietta (USA) and Taloja (India), providing industry-leading innovation.

Its [Sustainable Operational Excellence](#) (SOE) strategy focuses on employee safety, environmental stewardship, efficient use of carbon sources, and operating in a socially and ethically responsible manner.

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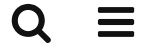
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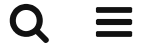
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