

Sunrise New Energy Announces Successful Development of New Generation Porous Carbon-coated Silicon Anode Material with 5 Times the Capacity of Existing Artificial Graphite, Enabling 1,000 Kilometer Range for Electric Vehicle Batteries



Sunrise New Energy Co., Ltd

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ZIBO, China, Oct. 27, 2023 (GLOBE NEWSWIRE) -- Sunrise New Energy Co., Ltd. ("Sunrise", the "Company", "we" or "our") (NASDAQ: EPOW), today announced the successful development of the latest generation of porous carbon-coated silicon anode material, offering a capacity five times higher than existing artificial graphite. This breakthrough material can be applied to electric vehicle batteries, enabling a range of 1,000 kilometers.

The technical team at Sunrise (Guizhou) New Energy Materials Co., Ltd. has dedicated nearly two years of intensive efforts to achieve this significant milestone. The new porous carbon-coated silicon anode material surpasses traditional artificial graphite in terms of capacity, providing a remarkable advancement in electric vehicle battery technology. Additionally, it effectively reduces the high expansion risks associated with existing silicon-carbon-coated materials, ensuring enhanced safety and reliability.

Key technical parameters of the new material include:

- Tap Density: 0.79 cm³/g
- Specific Surface Area: 15.3 m²/g
- Capacity: 2000 mAh/g
- Efficiency: 91%

"We are excited to announce the successful development of our state-of-the-art porous carbon-coated silicon anode material. It offers superior performance and surpasses existing materials in terms of capacity, stability and safety." said Mr. Haiping Hu, Sunrise's Chairman. "Our relentless pursuit of innovation and dedication to staying at the forefront of technological advancements have allowed us to achieve this significant milestone. We are excited to move forward with the next phase of production and industrialization, from research and development to large-scale manufacturing."

About Sunrise New Energy Co., Ltd

Headquartered in Zibo, Shandong Province, China, Sunrise New Energy Co., Ltd., through its joint venture, is engaged in the manufacturing and sale of graphite anode material for lithium-ion batteries. The Company's joint venture is constructing a 260,543 m² manufacturing plant in Guizhou Province, China. The plant runs on

Sunrise New Energy Announces Successful Development of New Generation Porous Carbon-coated Silicon Anode Material with ... inexpensive electricity from renewable sources, which helps to make Sunrise New Energy a low-cost and low–environmental-impact producer of graphite anode material. Mr. Haiping Hu, the founder and CEO of the Company, is a major pioneer for the graphite anode industry in China starting from 1999. The Company's management team is also composed of experts with years of experiences and strong track-records of success in the graphite anode industry. In addition, the Company also operates a knowledge sharing platform in China. For further information, please visit the Company's website at www.sunrisenewenergy.com. The Company also maintains a Twitter account (@sunrisenewener1) to keep investors up to date on the latest development of the Company.

Forward-looking statement