

Global Biomass-Derived Hard Carbon Anode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biomass-Derived Hard Carbon Anode market size is expected to reach \$ 1203 million by 2032, rising at a market growth of 37.1% CAGR during the forecast period (2026-2032).

Biomass-Derived Hard Carbon Anode is an advanced battery anode material in which the carbon matrix is exclusively derived from renewable biomass feedstocks — primarily coconut shells, rice husks, bamboo, lignin, and bagasse — through controlled high-temperature carbonization processes. Unlike synthetic hard carbon produced from petroleum or coal-tar precursors, biomass-derived hard carbon leverages the naturally disordered, hierarchically porous microstructure of plant-based organic matter to achieve large interlayer spacing, abundant sodium/lithium-ion storage sites, and inherently low production costs. Its advantages include superior rate capability, high coulombic efficiency, long cycle life, and a significantly reduced carbon footprint relative to fossil-fuel-based alternatives. The capacity utilization rate in 2025 reached 78%, and the industry's average gross margin was approximately 35%. Production in 2025 totaled 4,193 tons at an average price of 31,000 USD per ton. The upstream segment mainly consists of coconut shells and pitch, with representative suppliers including Olam Group, Cargill, Baowu Carbon Materials, and Sinopec. The midstream focuses on carbonization, graphitization, particle size control, and purity optimization to ensure consistent electrochemical performance. Downstream applications are primarily in lithium-ion and sodium-ion batteries, with key customers including Panasonic, Samsung SDI, CATL, BYD, and Farasis Energy.

Biomass-Derived Hard Carbon Anodes are the cornerstone of the rapidly expanding sodium-ion battery industry. Leveraging abundant and low-cost precursors like bamboo, straw, and peanut shells, they offer a pragmatic solution to the supply chain constraints

of traditional coconut shell-based carbon. With continuous breakthroughs in closed-pore structure regulation and carbonization processes, these materials are balancing cost-efficiency with electrochemical performance. As sodium-ion batteries penetrate the energy storage, electric two-wheeler, and A00-class EV markets, biomass hard carbon is evolving from a niche alternative into a strategic pillar for next-generation, sustainable energy storage.

This report studies the global Biomass-Derived Hard Carbon Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biomass-Derived Hard Carbon Anode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biomass-Derived Hard Carbon Anode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biomass-Derived Hard Carbon Anode total production and demand, 2021-2032, (Tons)

Global Biomass-Derived Hard Carbon Anode total production value, 2021-2032, (USD Million)

Global Biomass-Derived Hard Carbon Anode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Biomass-Derived Hard Carbon Anode consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Biomass-Derived Hard Carbon Anode domestic production, consumption, key domestic manufacturers and share

Global Biomass-Derived Hard Carbon Anode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biomass-Derived Hard Carbon Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biomass-Derived Hard Carbon Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biomass-Derived Hard Carbon Anode market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kuraray (Japan), JFE Chemical

(Japan), Kureha (Japan), Sumitomo (Japan), Stora Enso (Finland), Shanshan (China), BTR (China), Putailai (China), Best Graphite (China), HiNa Battery Technology (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Biomass-Derived Hard Carbon Anode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Biomass-Derived Hard Carbon Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomass-Derived Hard Carbon Anode Market, Segmentation by Type:

Coconut Shell Based

Rice Husk Based

Others

Global Biomass-Derived Hard Carbon Anode Market, Segmentation by Specific Capacity:

Specific Capacity

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