

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

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Abstracts

The global Biomass Hard Carbon Anode Material market size is expected to reach \$ 432 million by 2032, rising at a market growth of 23.9% CAGR during the forecast period (2026-2032).

Biomass hard carbon anode materials are non-graphitizable carbon powders produced from biomass precursors such as coconut shells, nut shells, rice husks, bamboo, starch, sugars, straw, or lignin, through pretreatment, carbonization, high-temperature treatment, milling and grading, and surface modification. They serve primarily as active materials for sodium-ion battery anodes, and to a lesser extent for lithium-ion fast-charging anodes and hybrid capacitor electrodes. The estimated gross margin is approximately 42%.

The demand for biomass hard carbon anode materials is driven by the commercialization of sodium-ion batteries. As sodium-ion batteries scale in energy storage, two-wheelers, low-speed vehicles, and low-temperature applications, hard carbon is moving from R&D samples to kiloton- and ten-kiloton-scale line validations. Compared with graphite, hard carbon is better suited for sodium storage; compared with resin-based routes, biomass-derived routes offer advantages in raw material cost, carbon footprint, and scalable supply. Precursors like coconut shells, nut shells, straw, bamboo, starch, and others are actively being developed. Current procurement focuses on specific capacity, initial Coulombic efficiency, tap density, particle size distribution, ash/metal impurities, and batch consistency; low price alone is insufficient to enter mainstream cell supply.

The market in 2025-2026 remains in a transitional phase from small-batch introduction to volume validation. Pricing is influenced by both high-end imported materials and

domestic scaling, with unit prices expected to continue declining. However, pretreatment of biomass, closed-pore structure control, and surface modification remain technical barriers. From 2026 onward, as leading battery manufacturers secure sodium-ion storage orders, hard carbon demand is expected to grow faster than traditional lithium-ion anodes. Products will be tiered by capacity, initial efficiency, rate capability, tap density, and customer validation cycle, with leading manufacturers leveraging stable raw material sources and ten-thousand-ton-scale production lines to form a competitive advantage.

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

This report is a detailed and comprehensive analysis of the world market for Biomass Hard Carbon Anode Material 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 Hard Carbon Anode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biomass Hard Carbon Anode Material total production and demand, 2021-2032, (kg)

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

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

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

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

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

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

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

This report profiles key players in the global Biomass Hard Carbon Anode Material 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 BTR, Kuraray, Shanshan Technology, Shinzoom, Shengquan, BestGraphene, Jereh New Energy, Kaijin New Energy, Rongna Energy, Jana Energy, 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 Hard Carbon Anode Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Hard Carbon Anode Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomass Hard Carbon Anode Material Market, Segmentation by Type:

Coconut Shell Hard Carbon

Nut Shell Hard Carbon

Rice Husk Hard Carbon

Wood and Bamboo Hard Carbon

Starch and Sugar Hard Carbon

Straw and Lignin Hard Carbon

Other Biomass Hard Carbon

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

?350 mAh/g High-Capacity Hard Carbon

330-349 mAh/g Mid-High-Capacity Hard Carbon

300-329 mAh/g Standard-Capacity Hard Carbon

10 ?m Coarse Particle Hard Carbon

Global Biomass Hard Carbon Anode Material Market, Segmentation by Application:

Sodium-Ion Energy Storage Battery Manufacturing

Sodium-Ion Mobility and Power Battery Manufacturing

Lithium-Ion Fast-Charge Battery Manufacturing

Hybrid Capacitor and Other Electrode Manufacturing

Companies Profiled:

BTR

Kuraray

Shanshan Technology

Shinzoom

Shengquan

BestGraphene

Jereh New Energy

Kaijin New Energy

Rongna Energy

Jana Energy

Key Questions Answered:

1. How big is the global Biomass Hard Carbon Anode Material market?
2. What is the demand of the global Biomass Hard Carbon Anode Material market?
3. What is the year over year growth of the global Biomass Hard Carbon Anode Material market?
4. What is the production and production value of the global Biomass Hard Carbon Anode Material market?
5. Who are the key producers in the global Biomass Hard Carbon Anode Material market?
6. What are the growth factors driving the market demand?

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