

Global Biomass Hard Carbon Anode Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Biomass Hard Carbon Anode Material market size was valued at US\$ 94.66 million in 2025 and is forecast to a readjusted size of US\$ 432 million by 2032 with a CAGR of 23.9% during review period.

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 is a detailed and comprehensive analysis for global Biomass Hard Carbon Anode Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Biomass Hard Carbon Anode Material market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass Hard Carbon Anode Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass Hard Carbon Anode Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Biomass Hard Carbon Anode Material market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biomass Hard Carbon Anode Material

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biomass Hard Carbon Anode Material market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Biomass Hard Carbon Anode Material market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment 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

Market segment 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

Major players covered

BTR

Kuraray

Shanshan Technology

Shinzoom

Shengquan

BestGraphene

Jereh New Energy

Kaijin New Energy

Rongna Energy

Jana Energy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Biomass Hard Carbon Anode Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biomass Hard Carbon Anode Material, with price, sales quantity, revenue, and global market share of Biomass Hard Carbon Anode Material from 2021 to 2026.

Chapter 3, the Biomass Hard Carbon Anode Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biomass Hard Carbon Anode Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Biomass Hard Carbon Anode Material market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Biomass Hard Carbon Anode Material.

Chapter 14 and 15, to describe Biomass Hard Carbon Anode Material sales channel, distributors, customers, research findings and conclusion.

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