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Global Biomass Based Sodium-Ion Battery Anode Materials Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Biomass Based Sodium-Ion Battery Anode Materials competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.Biomass-based sodium-ion battery negative electrode materials are hard carbon negative electrode materials made from agricultural and forestry biomass (such as straw, coconut shell, wood, etc.) as precursors through carbonization, activation and heat treatment. They are used as negative electrodes for sodium-ion batteries to replace petroleum coke or asphalt-based hard carbon to reduce costs and improve sustainability. In 2024, the sales volume of such biomass-based hard carbon negative electrode materials was about 20,000 tons, and the average selling price in 2024 was about US$25,000 per ton. The typical single-line annual production capacity is approximately between 1,000 and 3,000 tons. The upstream of the industry is biomass raw material supply and precursor processing companies, chemical reagent and surface modification material suppliers, heat treatment and carbonization equipment manufacturers and testing and characterization equipment suppliers. The midstream is hard carbon preparation and modification manufacturers, and the downstream is battery negative electrode coating and battery manufacturers. It is used in electric vehicle power batteries, energy storage systems and portable device batteries. The gross profit margin is usually between 18% and 30%. Range, which is greatly affected by the source of raw materials, heat treatment energy consumption and yield. The downstream consumption of one unit product is 1 ton of biomass-based hard carbon, which can support about 800 kWh of battery rated energy, which is equivalent to the negative electrode material consumption of about 13 60 kWh electric vehicle battery packs. If calculated based on small energy storage modules, 1 ton can support

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about 160 5 kWh modules. Products can be divided into straw, coconut shell, wood, etc. according to the source of precursors; high initial coulomb efficiency type, high rate type and high cycle stability type according to structure and electrochemical performance; micropowder type and spherical particle type according to particle morphology; native carbon type and carbon-coated type according to treatment/coating; high-density and low specific surface area type and low-density and high specific surface area type according to density and specific surface area, so as to meet different energy density rates and cost requirements.

The global Biomass Based Sodium-Ion Battery Anode Materials market size was estimated at USD 500.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Biomass Based Sodium-Ion Battery Anode Materials market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Biomass Based Sodium-Ion Battery Anode Materials market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Biomass Based Sodium-Ion Battery Anode Materials market.

Global Biomass Based Sodium-Ion Battery Anode Materials Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country),

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key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Kuraray
BASF
BTR New Energy Materials
Shanshan Technology
Zhongke Xingcheng
Xiangfenghua
Yuanli Active Carbon
Do-Fluoride New Materials
Xinsen Carbon
Shanxi Institute of Coal Chemistry
Shengquan Group

Market Segmentation (by Type)

Precursor Type: Resin
Precursor Type: Nutshell
Precursor Type: Coke
Other

Market Segmentation (by Application)

Power Batteries
Energy Storage Batteries
Other

Geographic Segmentation

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North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Biomass Based Sodium-Ion Battery Anode Materials Market
Overview of the regional outlook of the Biomass Based Sodium-Ion Battery Anode Materials Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Biomass Based Sodium-Ion Battery Anode Materials Market and its likely evolution in

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the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Biomass Based Sodium-Ion Battery Anode Materials, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

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Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis

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Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

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9 BIOMASS BASED SODIUM-ION BATTERY ANODE MATERIALS MARKET PRODUCTION BY REGION

10 KEY COMPANIES PROFILE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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