

# Global Bio-coal 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 Bio-coal market size was valued at US\$ 1323 million in 2025 and is forecast to a readjusted size of US\$ 4329 million by 2032 with a CAGR of 18.4% during review period.

Bio-coal is a high-calorific-value solid fuel produced from biomass sources such as wood chips, forestry residues, crop straw, palm shells, and energy crops, following processes such as baking, carbonization, pyrolysis, or hydrothermal carbonization.

In 2025, global bio-coal sales reached 4,744 thousand tons, with an average price of \$271 per ton.

### Development Trends

#### Upgrading from “Standard Wood Pellets” to “Black Pellets/Bio-coal”

Standard white wood pellets have shortcomings in storage, transportation, moisture resistance, pulverization, and compatibility with coal-fired power systems. Black pellets/bio-coal offer higher hydrophobicity, grindability, and coal compatibility, thereby reducing retrofitting costs in existing coal-fired power or industrial combustion systems.

#### Japan and Europe Are the Regions with the Clearest Demand

Japan, which still has a significant coal-fired power capacity but faces pressure to reduce carbon emissions, is one of the most active markets for black pellets and biocoal.

## Biocarbon for Metallurgy Becomes a Second Growth Curve

Steel, ferrosilicon, aluminum, and alloy smelting require fixed carbon. Biocoal/biocarbon can serve as substitutes for PCI coal, petroleum coke, and certain reducing carbon sources. Vow Green Metals has signed a long-term biocarbon offtake agreement with Elkem, with Elkem aiming to increase the global share of biocarbon to 50% by 2030; Kobe Steel also plans to use torrefied wood pellets in steel production.

## Industry Shifts from Pilot Lines to Early Commercialization

Over the past decade, many torrefaction projects have remained at the pilot or demonstration stage. Clearer commercialization milestones are beginning to emerge between 2024 and 2026.

This report is a detailed and comprehensive analysis for global Bio-coal 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 Bio-coal market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/Tonne), 2021-2032

Global Bio-coal market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/Tonne), 2021-2032

Global Bio-coal market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (USD/Tonne), 2021-2032

Global Bio-coal market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (USD/Tonne), 2021-2026

### The Primary Objectives in This Report Are:

*Global Bio-coal Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032*

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

To assess the growth potential for Bio-coal

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 Bio-coal 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 Enviva Inc?US?, Drax Biomass?GB?, Pinnacle Renewable Energy?CA?, RWE Innogy?DE?, Sumitomo Forestry?JP?, E.ON?DE?, Biolac Energy?FI?, Kaidi Ecology?CN?, Qiquan Group?CN?, Dison Co., Ltd.?CN?, etc.

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

### Market Segmentation

Bio-coal 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

Granular

Lump / Powder

#### Market segment by Feedstock Sources

Forestry-based

Agriculture-based

Waste-based

#### Market segment by Sales Channels

Direct Sales

Distribution

#### Market segment by Application

Coal-Fired/Combined Heat and Power Co-firing

Industrial Boilers/District Heating

Steel/Metallurgical Reduction Carbon

Other

#### Major players covered

Enviva Inc?US?

Drax Biomass?GB?

Pinnacle Renewable Energy?CA?

RWE Innogy?DE?

Sumitomo Forestry?JP?

E.ON?DE?

Biolac Energy?FI?

Kaidi Ecology?CN?

Qiquan Group?CN?

Dison Co., Ltd.?CN?

Baichuan Changyin?CN?

Longli Bio-tech?CN?

BIOMAC s.r.o.?CZ?

BMK Woods?US?

BIOGRA?EU?

Green Biocoal?IN?

Lignetics?US?

EcoBlaze?EU?

Wood Energo?EU?

BALT WOOD?EU?

Idemitsu Kosan?JP?

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 Bio-coal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-coal, with price, sales quantity, revenue, and global market share of Bio-coal from 2021 to 2026.

Chapter 3, the Bio-coal competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-coal 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 Bio-coal 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 Bio-coal.

Chapter 14 and 15, to describe Bio-coal sales channel, distributors, customers, research findings and conclusion.

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