

Biochar Market Insight Report: Understanding the Needs and Trends in the Industry 2021-2030

Biochar Market Sector Market Size, Trends, and Growth Prospects Report 2021 - 2031

PORTLAND, OR, UNITED STATES, September 20, 2024 / EINPresswire.com/ -- The global [biochar market](#) size was valued by Allied Market Research and is projected to reach \$695.1 million by 2031, growing at a CAGR of 13.1% from 2022 to 2031. It was valued at \$204.6 million in 2021.



BIOCHAR MARKET
OPPORTUNITIES AND FORECAST, 2021 - 2031

Biochar market is expected to reach **\$695.1 Million** in 2031

Growing at a **CAGR of 13.1%** (2022-2031)

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Biochar Market

Biochar has a wide range of uses in various industries, particularly in agriculture, where it improves soil health, enhances nutrient retention, and increases crop yields. It also helps in carbon sequestration to lower greenhouse gas emissions. Moreover, it is made from organic waste, transforming unwanted materials into valuable resources. Biochar is utilized in environmental cleanup, construction for better insulation, and as a sustainable biomass fuel for energy production.

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Biochar is a carbon-rich material produced by heating organic matter, such as agricultural waste, wood chips, or manure, in a low-oxygen environment, a process called pyrolysis.”

David Correa

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In the last few years, the pyrolysis of biochar has emerged as a favorable sustainable approach for managing waste

and improving soil quality. This advanced technology offers several benefits that go beyond traditional waste disposal methods. By converting biomass waste into biochar, valuable products are created. This reduces the release of harmful CO₂ and methane from the burning of excess agricultural and municipal biomass. This has significantly contributed to the expansion of the

landscape.

Biomass is processed in a pyrolysis reactor through controlled heating and gas flow to create biochar, along with by-products like gas and bio-oil. However, applying biochar to agricultural land raises environmental concerns such as erosion, soil compaction, and contamination risks. Moreover, many farmers in regions like South America, Africa, and parts of Asia-Pacific remain unaware of its benefits and production methods, hindering its widespread use and growth.

Companies profiled in the study

Biochar Supreme

Airex Energy Inc.

Proactive Agriculture

Karr Group Co. (KGC)

Carbofex Ltd.

Coaltec Energy USA

Frontline Bioenergy Ltd.

Pacific Biochar Production

Arsta Eco Pvt Ltd

FARM2ENERGY Private Limited

Industry insights

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In November 2023, BIOSORRA opened a biochar production facility in Thika, Kiambu County, Kenya, marking its entry into the East African market. The biochar produced at this plant will be supplied to Kenya Nut Company, a multinational agribusiness that cultivates a diverse array of products.

In the following month, a coalition of companies, including Mars, McCain Foods, McDonald's, Mondelez International, PepsiCo, and Waitrose, formed a strategy to make regenerative farming both financially viable and scalable. They investigated implementation projects in India, the UK,

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