

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 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



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."

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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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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,

and the U.S. to advance this initiative.

Again, during the same time, Carbonfuture, in collaboration with the Bolivia-based Exomad Green Concepción project, announced a deal with Microsoft to provide over 32,000 tons of carbon dioxide removal credits. This initiative aligned with Microsoft's commitment to reach carbon negativity by 2030 and to remove all historical emissions by 2050.

The Agriculture Department and Nuziveedu Seeds distributed 200 metric tons of biochar to farmers of Markook Mandal, in March 2024. This biochar, made from cow dung and maize shanks, was a carbon-rich soil amendment. Its unique production method gave the biochar special properties, including better soil aeration, increased nutrient retention, and improved moisture retention.

In summary, the AMR report on the biochar market outlines key investment drivers and delivers valuable insights to help companies strengthen their presence in the industry. It includes original research from various stakeholders, providing essential information to assist businesses in crafting effective strategies for success.

https://www.alliedmarketresearch.com/biochar-market/purchase-options

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