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# Biochar Market Emerging Trends, Research Investments & Competitive Landscape

*BIOSORRA launched a biochar production facility in Thika, Kenya, to supply biochar to Kenya Nut Company, supporting sustainable farming practices in East Africa*


Biochar Market, by Production Technology

WILMINGTON, DE, UNITED STATES, September 16, 2025 /EINPresswire.com/ -- The global biochar market was valued at $204.6 million in 2021 and is projected to reach $695.1 million by 2031, expanding at a strong CAGR of 13.1% from 2022 to 2031, according to Allied Market Research.

Biochar has gained traction across multiple industries, with agriculture emerging as the primary application. In farming, biochar enhances soil fertility, improves nutrient and water retention, boosts crop yields, and supports long-term soil health. Beyond agriculture, it contributes to carbon sequestration, turning organic waste into a valuable resource that lowers greenhouse gas emissions. Biochar is also being applied in environmental remediation, construction (for insulation materials), and clean energy production.

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https://www.alliedmarketresearch.com/request-sample/A11816

Market Dynamics

The rising adoption of pyrolysis technology has played a pivotal role in scaling the market. Pyrolysis not only transforms agricultural and municipal waste into biochar but also produces by-products such as bio-oil and syngas, minimizing harmful emissions of $CO_2$ and methane compared to traditional burning practices. This dual advantage waste management and renewable resource generation—is fueling demand worldwide.

However, challenges remain. Environmental concerns such as soil compaction, erosion, and contamination risks associated with large-scale biochar application persist. Moreover, limited awareness in regions like South America, Africa, and parts of Asia-Pacific has slowed adoption, despite significant potential benefits for farmers.

Key Players

Major companies profiled in the biochar market include:

- 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

Recent Industry Developments:

- Nov 2023 – BIOSORRA launched a biochar production facility in Thika, Kenya, to supply biochar to Kenya Nut Company, supporting sustainable farming practices in East Africa.

- Dec 2023 – Global food giants including Mars, McCain Foods, McDonald’s, Mondelez International, PepsiCo, and Waitrose collaborated on regenerative agriculture initiatives across India, the UK, and the U.S.

- Dec 2023 – Carbonfuture, in partnership with Exomad Green (Bolivia), signed an agreement with Microsoft to deliver over 32,000 tons of carbon dioxide removal credits, advancing Microsoft’s carbon-negative 2030 target.

- Mar 2024 – India’s Agriculture Department and Nuziveedu Seeds distributed 200 metric tons of biochar to farmers in Telangana. Produced from cow dung and maize shanks, this biochar enhanced soil aeration, nutrient retention, and moisture capacity.

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

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