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Biochar Market Growth Outlook and Competitive Landscape 2025-2031

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Biochar Market, by Application

WILMINGTON, DE, UNITED STATES, November 25, 2025 /EINPresswire.com/ -- The global biochar market is witnessing rapid expansion, driven by its diverse industrial applications and environmental benefits. According to Allied Market Research, the market was valued at $204.6 million in 2021 and is projected to reach $695.1 million by 2031, registering a robust CAGR of 13.1% from 2022 to 2031.

Biochar is widely used in agriculture, where it enhances soil structure, improves nutrient retention, increases crop yields, and supports carbon sequestration thereby lowering greenhouse gas emissions. Produced from organic waste, biochar also contributes to sustainable waste management by transforming agricultural and municipal residues into valuable resources. Beyond agriculture, it finds applications in environmental remediation, construction (for enhanced insulation), and as a renewable biomass fuel for energy generation.

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

In recent years, pyrolysis technology has gained traction as a sustainable and efficient method for producing biochar. By converting biomass into biochar, bio-oil, and syngas under controlled heating and gas flow, pyrolysis significantly reduces CO_2 and methane emissions—offering a cleaner alternative to burning agricultural waste. This shift has played a pivotal role in expanding the biochar landscape.

However, large-scale deployment faces challenges. Improper application of biochar can lead to issues such as soil erosion, compaction, or contamination. Furthermore, awareness gaps in regions like South America, Africa, and parts of Asia-Pacific limit its adoption, as many farmers remain unfamiliar with its benefits and production techniques.

Key Companies Profiled:

- 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 Highlights:

- November 2023: BIOSORRA inaugurated a biochar production facility in Thika, Kenya. The output will supply Kenya Nut Company, a major multinational agribusiness.

- December 2023: Major global companies—Mars, McCain Foods, McDonald's, Mondelez International, PepsiCo, and Waitrose—formed a coalition to scale regenerative farming, with pilot programs in India, the UK, and the U.S.

- 2023: Carbonfuture, in partnership with Bolivia's Exomad Green Concepción project, signed an agreement with Microsoft to deliver 32,000+ tons of carbon dioxide removal (CDR) credits, supporting Microsoft's carbon-negative goals for 2030 and beyond.

- March 2024: The Agriculture Department and Nuziveedu Seeds distributed 200 metric tons of biochar to farmers in Markook Mandal. Produced from cow dung and maize shanks, this biochar featured enhanced aeration, nutrient retention, and moisture-holding properties.

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

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