

# Asia Pacific Biochar Market Size, Share & Trends Analysis Report By Technology (Gasification, Pyrolysis), By Application (Agriculture (Animal Farming, Industrial Uses), Others), By Country (India, China, Japan), And Segment Forecasts, 2024 - 2030

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## Abstracts

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### Asia Pacific Biochar Market Growth & Trends

The Asia Pacific biochar market size is anticipated to reach USD 130.3 million by 2030, expanding at a CAGR of 16.1% from 2024 to 2030, according to a new report by Grand View Research, Inc. The increasing demand for organic produce for farming, management of agricultural waste, and reduction in carbon emissions are driving factors for biochar market growth.

Biochar has carbon-rich properties; it can absorb carbon twice the capacity of its weight. It has the ability to absorb and immobilize pollutants from the contaminated soil which makes it viable for soil and water remediation projects. Research studies are conducted by universities in the region to study application of biochar in construction materials in absorption of carbon as an air filter, reducing carbon emissions from concrete.

### Asia Pacific Biochar Market Report Highlights

Based on technology, the pyrolysis segment held the largest market share of 30.60% in 2023 and is expected to retain its dominance over the forecast period. The rise in demand for renewable energy and increased environmental awareness is driving growth for the segment. Pyrolysis uses thermal

decomposition of organic waste and offers biochar with higher content of carbon

Based on application, the agriculture segment held the largest market share in 2023. The market is driven by biochar's ability to improve soil health, reduce the need for fertilizers, and sequester carbon, which helps combat climate change. Additionally, converting agricultural waste into biochar offers a sustainable waste management solution. Technological advancements and growing awareness among farmers contribute to its popularity in sustainable farming practices

The others segment is expected to grow at the fastest CAGR over the forecast period. Biochar has applications beyond agriculture and is used at landfills for waste management of organic waste. In September 2023, Government of Korea announced new plans to promote use of biochar. The government aims for carbon neutral Korea and foster toward sustainable biochar market

Australia held the largest revenue share in 2023. Australian soils are highly weathered, and nutrient-poor, with issues such as salinity and erosion. Biochar significantly improves soil health by enhancing nutrient retention, water-holding capacity, and microbial activity, which are critical for agricultural productivity in Australia's challenging soil conditions

In February 2024, Singapore based Biochar Developer Alcom Carbon Markets (ACM) closed Pre-Series A funding round securing total investment of USD 5 million. Capital Code, Singapore-based climate-focused and agri-food investment firm, led the funding round.

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