

# **South & Central America Biochar Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Form (Granular, Powder, and Pellets), Process (Pyrolysis, Gasification, Torrefaction, and Other Processes), and Application (Agriculture, Animal Feed, Water Treatment, Electricity Generation, Construction, and Other Applications)**

<https://marketpublishers.com/r/SCAE522C69EBEN.html>

Date: January 2025

Pages: 136

Price: US\$ 3,450.00 (Single User License)

ID: SCAE522C69EBEN

## **Abstracts**

The biochar market in South and Central America is projected to grow significantly, with an expected market size of approximately US\$ 18,434.99 thousand by 2031, up from US\$ 13,854.60 thousand in 2024. This growth represents a compound annual growth rate (CAGR) of 4.5% from 2025 to 2031.

### **Executive Summary and Market Analysis**

The biochar market in this region is primarily divided into three segments: Brazil, Argentina, and the Rest of South & Central America. According to the Systematic Survey of Agricultural Production released by the Instituto Brasileiro de Geografia e Estatística, Brazil's harvest of grains, cereals, and legumes is expected to reach 311.0 million tons by 2025, marking a 5.8% increase (or 17.2 million tons) compared to 2024. The total stock of agricultural products is estimated at 87.9 million tons, with soybeans leading at 43.3 million tons, followed by corn at 32.7 million tons, rice at 5.0 million tons, wheat at 2.6 million tons, and coffee at 0.8 million tons.

The increasing urban migration in South America, where approximately 85% of the

population resides in urban areas, is driving demand for housing, infrastructure, and consumer goods. This urban growth is leading to active infrastructure development projects across the region, which, along with a robust agricultural sector, is expected to significantly boost the demand for biochar.

## Strategic Insights

### Market Segmentation Analysis

The South & Central America biochar market can be segmented based on form, process, and application.

**By Form:** The market is categorized into granular, powder, and pellets. In 2024, the powder segment held the largest market share.

**By Process:** The biochar market is segmented into pyrolysis, gasification, torrefaction, and others, with pyrolysis dominating the market in 2024.

**By Application:** The applications of biochar include agriculture, animal feed, water treatment, electricity generation, construction, and others. The agriculture segment was the largest contributor to the market in 2024.

## Market Outlook

There is a growing awareness of the benefits of organic food and the adverse effects of chemical inputs in food production, which is driving the popularity of organic farming. Organic farming emphasizes soil health and fertility, and biochar serves as a natural soil amendment that enhances soil structure, improves nutrient availability, and promotes microbial activity. Compliance with organic standards is crucial, and biochar, being derived from organic materials, meets these requirements. It has been shown to improve plant growth by facilitating root development and enhancing stress tolerance, making it a valuable input for organic food producers who aim to minimize synthetic pesticides and fertilizers. The increasing focus on organic farming is anticipated to create lucrative opportunities for the biochar market in the coming years.

## Country Insights

The biochar market in South and Central America is primarily driven by Brazil,

Argentina, and other countries in the region, with Brazil holding the largest market share in 2024. The Brazilian government has announced a substantial investment of US\$ 88.2 billion for the 2024-2025 Crop Plan, focusing on agricultural credit and financing policies aimed at supporting farmers and promoting organic crops. In 2022, Brazil had significant areas under organic farming, including 284.40 hectares for cocoa, 14,848 hectares for cotton, and 525 hectares for rice, according to the Research Institute of Organic Agriculture (FiBL).

Additionally, Brazil is a leader in clean electricity generation, with 91% of its electricity produced from renewable sources in 2023. The government aims to achieve 84% renewable electricity by 2030. These supportive initiatives for clean energy and the growth of the organic farming sector are expected to further enhance the biochar market in Brazil.

### Company Profiles

Key players in the South & Central America biochar market include American BioCarbon, BC Biocarbon, BioCarbon Australia, Biochar Supreme LLC, Carbonis GmbH & Co KG, Element Biocarbon, Elkem ASA, Envigas AB, Genesis Enterprises Inc, Glanris, Green Man Char-Cyclic Carbon Pty Ltd, Olivketts Global Energy Ltd, Oregon Biochar Solutions, Phoenix Energy, and SOLER Group, among others. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

In conclusion, the biochar market in South and Central America is poised for growth, driven by agricultural advancements, urbanization, and a shift towards organic farming practices.

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