

# Green Carbon Market Latest Innovative Growing Trends and Forecasts From 2025-2031

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NEW CASTLE, DELAWARE, UNITED STATES, September 22, 2023 /EINPresswire.com/ -- The biomass segment grabbed the highest share of more than four-fifths of the [green carbon market](#) in 2025 and is expected to dominate the market in 2031. The same segment would witness the fastest CAGR of 11.9% from 2022 to 2031. The rise in awareness for eco-friendly activities coupled with rapid transition toward sustainable energy sources has surged the popularity of biomass-derived carbon owing to its environment-friendly properties.



According to the report, the global green carbon industry was valued at \$16.8 million in 2025 and is estimated to generate \$32.9 million by 2031, witnessing a CAGR of 11.9% from 2022 to 2031.

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The term "Green Carbon Industry" typically refers to the development and expansion of industries and technologies that aim to reduce carbon emissions and promote environmental sustainability. It encompasses a wide range of sectors and initiatives focused on mitigating climate change and transitioning to a low-carbon or carbon-neutral economy.

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**Key Takeaways:** This is one of the most significant components of the Green Carbon Industry. It includes the development and deployment of clean energy sources such as solar,

wind, hydroelectric, geothermal, and biomass. These sources produce electricity without the emissions associated with fossil fuels like coal, oil, and natural gas.

Energy efficiency: Improving energy efficiency in various sectors, such as buildings, transportation, and industrial processes, is essential for reducing carbon emissions. This involves the use of energy-efficient technologies, practices, and policies to minimize energy wastage.

Surge in population, the rise in demand for consumer goods which led to rapid urbanization and industrialization in both developed and developing economies, and the rise in release of toxic chemicals and gases from industries, transport vehicles, and others drive the green carbon market. However, the high cost of green carbon and skilled workforce needed for the production of green carbon are likely to hinder market growth during the forecast period.

Carbon capture and storage (CCS): CCS technologies capture carbon dioxide (CO<sub>2</sub>) emissions from industrial processes and power plants and then store them underground to prevent them from entering the atmosphere. CCS is a critical component of reducing emissions from sectors that are challenging to decarbonize.

Promoting electric vehicles (EVs), fuel-efficient vehicles, public transportation systems, and active transportation (e.g., walking and biking) helps reduce emissions from the transportation sector.

The lithium-ion batteries segment contributed to the largest share of nearly three-fifths of the global green carbon market in 2025 and is expected to maintain its dominance during the forecast period. Moreover, the same segment is projected to witness the fastest CAGR of 12.1% from 2022 to 2031. The increase in adoption of lithium-ion batteries in the renewable energy sector coupled with the rise in demand for plug-in electric vehicles has surged the demand for lithium-ion batteries where green/bio-based carbon is widely used for producing anode materials.

Sustainable building practices and green infrastructure design focus on reducing energy consumption, using eco-friendly materials, and incorporating renewable energy sources to create more environmentally friendly structures.

The Green Carbon Industry also includes carbon offset projects and carbon trading markets where organizations can purchase carbon credits to compensate for their emissions. These credits often support activities like reforestation, renewable energy projects, and methane capture.

Transitioning to a circular economy involves minimizing waste and recycling materials to reduce the environmental impact of production and consumption.

The market in Europe was the largest in 2025, accounting for more than two-fifths of the global

green carbon market and is likely to maintain its dominance during the forecast timeframe. The same segment is likely to show the fastest CAGR of 12.6% during the forecast period. Germany is the most promising country-level market in the region with increased production of biomass. According to a report published by Germany Bioenergy in 2021, around 55% of renewable energy is obtained from biomass.

□□□□□□ □□□ □□□□□□□□□□: Government policies and regulations play a crucial role in promoting green carbon industries. These can include incentives for renewable energy adoption, emissions reduction targets, and carbon pricing mechanisms.

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The Green Carbon Industry is driven by the need to combat climate change, reduce greenhouse gas emissions, and transition to a more sustainable and environmentally friendly economy. It offers opportunities for economic growth, job creation, and a cleaner and healthier environment. Governments, businesses, and individuals all play a role in advancing the goals of the Green Carbon Industry through policy support, investment, and sustainable practices.

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- Drax
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