

Carbon Capture Construction Materials Market to Reach USD 961.68 Million by 2034, Booming at an Exceptional 42.5% CAGR

The role of carbon-infused concrete, biochar-based composites, and recycled aggregates in mitigating climate change is driving the market demand.

NEW YORK CITY, NY, UNITED STATES, March 28, 2025 /EINPresswire.com/ -- The global [carbon capture construction materials market](#) size was valued at USD 27.98 million in 2024 and are anticipated to generate an estimated revenue of USD 961.68 million by 2034, according to the latest study by Polaris Market Research. Besides, the report notes that the market is projected to exhibit a robust compound annual growth rate (CAGR) of 42.5% over the forecasted time frame 2025-2034.



Carbon Capture Construction Materials Market

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The construction industry is a major contributor to carbon dioxide emissions, accounting for an astounding 37% of global energy-related CO₂ emissions. To achieve decarbonization, integrating carbon dioxide into construction substances through carbonation reactions is essential. This innovative approach leverages the organic chemical reactivity of certain alkaline substances with CO₂ to product sturdy building materials.

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[Carbon capture construction materials](#) include metal hydroxides or oxides such as CaOH, MgOH, CaO, and MgO, which, when combined with water, form ionic-secured carbonic substances such as CaCO₃ and MgCO₃. The appeal of this procedure is its versatility; it can use several

There is a growing preference for green construction materials as consumers and businesses look to greener options. The surge in green building certifications and regulations, such as LEED and BREEAM, has created a favorable environment for the material's adoption. These certifications push builders to combine low-carbon substances in their projects.

The carbon capture construction materials market is segmented into technology, application, end-use industry, and region.

By technology, the oxy-combustion segment is expected to hold a significant market share owing to its elevated productivity in decreasing carbon discharge. The procedure includes burning fuel with pure oxygen rather than air, generating a congregated stream that is simpler to capture and reserve.

By application, the commercial segment accounted for a major market share. This is because of the surging demand for green building solutions offices, retail spaces, and commercial frameworks. Strict ecological directives and corporate green objectives have pushed businesses to acquire green construction materials.

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Asia Pacific holds a major share of the carbon capture construction materials market owing to rapid urbanization, extensive infrastructural advancements, and rising government initiatives for green construction. Countries such as China, India, and Japan are funding massively green building materials to conform to strict ecological directives and decrease carbon discharge.

North America is witnessing substantial growth due to its stringent ecological directives, progression in carbon capture technology, and growing funding in green framework. The US and Canada are applying policies to restrict carbon discharge, driving the market demand.

What is the growth rate of the carbon capture construction materials market?

The global market is projected to register a CAGR of 42.5% during the forecast period.

What is the regional scope of the carbon capture construction materials market?

The market includes regions such as North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa.

What technology type segment dominated the market in 2024?

The oxy-combustion segment is projected to grow rapidly in the market in 2024.

Which segments are covered in the market report?

The segments covered in the market report are technology, application, end-use industry, and region.

Carbon Capture Construction Materials Market growth Will Surpass US\$ 961.68 Million at 42.5% CAGR Growth From 2025 to 2034

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