

Global Carbon Dioxide Mineralization Material Market Growth 2026-2032

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Abstracts

The global Carbon Dioxide Mineralization Material market size is predicted to grow from US\$ 865 million in 2025 to US\$ 1302 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

Carbon dioxide mineralization carbon sequestration materials are low-carbon materials that use captured or recycled carbon dioxide, natural or recycled calcium and magnesium minerals, alkaline industrial byproducts, demolished concrete, steel slag, fly ash and other feedstocks as primary reaction inputs. Through processes such as accelerated carbonation, aqueous mineralization, gas-solid reactions and reactor-based mineralization, carbon dioxide is converted into stable carbonates and embedded in aggregates, cementitious materials, carbonate powders, concrete products and fillers. These materials address the high carbon emissions of cement, concrete, aggregates and industrial fillers, as well as the low-value utilization of industrial solid waste. Their core value lies in converting carbon dioxide from a gaseous emission into a mineral component that can remain stable over the long term, while also forming products that can be sold, transported and integrated into existing building-material and industrial-material systems. Typical applications include concrete blending, aggregate replacement, block manufacturing, cement replacement, industrial fillers and solid waste resource utilization. Major customers include cement producers, ready-mix concrete companies, precast component manufacturers, building-material companies, industrial filler users, solid waste treatment companies and carbon reduction project developers.

The industrial value of carbon dioxide mineralization carbon sequestration materials is shifting from a single decarbonization concept toward a tradable material attribute. The building materials industry has a massive consumption base, and cement production remains an important global source of carbon emissions, with clinker production

representing the core emissions-intensive stage. This creates clear substitution opportunities for mineralized aggregates, mineralized cementitious materials and recycled concrete aggregates. Compared with standalone carbon capture and storage, mineralized materials can fix carbon dioxide into saleable building materials or fillers, combining carbon reduction with physical material output. They not only address demand for low-carbon building materials, but also provide a higher-value utilization pathway for industrial solid waste, demolished concrete and alkaline mineral byproducts.

The growth drivers of this industry mainly come from low-carbon building material procurement, industrial byproduct resource utilization, life-cycle carbon reduction in construction and demand for carbon removal projects. As carbon management infrastructure, green building evaluation systems and low-carbon material certification mechanisms continue to improve, the commercialization conditions for mineralization-based carbon sequestration materials are becoming more favorable. For these materials, the most important commercialization direction is not to build an entirely new building materials system, but to integrate into existing cement plants, concrete plants, aggregate plants, solid waste treatment facilities and precast component factories. Revenue can be generated through low-clinker substitution, recycled aggregate enhancement, carbonate powder supply and low-carbon product certification, allowing carbon reduction value, material value and solid waste resource utilization value to be combined within the same product system.

Production regions are currently more concentrated in Europe, North America and demonstration-project markets, where earlier layouts have been established in mineralized aggregates, carbonate powders, mineralized cementitious materials and recycled concrete carbon sequestration. Sales regions are expected to first concentrate in markets with more developed low-carbon building regulations, green procurement systems, infrastructure demand and building material certification frameworks, including North America, Europe and the gradually accelerating Asia-Pacific market. As low-carbon cement, carbon-storing building materials and recycled aggregates enter commercial projects, industry competition will shift from simple carbon sequestration volume toward material performance, cost, certification, supply stability and compatibility with existing building material standards. Future product pathways with greater scaling potential will focus on synthetic limestone aggregates, mineralized supplementary cementitious materials, carbonate powders, recycled concrete aggregates and low-carbon concrete products.

LP Information, Inc. (LPI) ' newest research report, the "Carbon Dioxide Mineralization

Material Industry Forecast? looks at past sales and reviews total world Carbon Dioxide Mineralization Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Carbon Dioxide Mineralization Material sales for 2026 through 2032. With Carbon Dioxide Mineralization Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Dioxide Mineralization Material industry.

This Insight Report provides a comprehensive analysis of the global Carbon Dioxide Mineralization Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Carbon Dioxide Mineralization Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon Dioxide Mineralization Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Dioxide Mineralization Material and breaks down the forecast by Carbonation Product, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Carbon Dioxide Mineralization Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Dioxide Mineralization Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Carbonation Product:

Calcium Carbonate Carbon-Sequestering Material

Magnesium Carbonate Carbon-Sequestering Material

Calcium-Magnesium Composite Carbonate Material

Segmentation by Delivery Form:

Carbon-Mineralized Aggregate

Carbon-Mineralized Cementitious Material

Carbon-Mineralized Carbonate Powder

Carbon-Mineralized Concrete Product

Carbon-Mineralized Filler

Segmentation by Carbon Sequestration Positioning:

Permanent Storage Material

Low-Carbon Building Material

Industrial Byproduct Upcycling Material

Recycled Aggregate Material

Segmentation by Application:

Concrete Blending

Aggregate Replacement

Block Manufacturing

Cement Replacement

Industrial Filler

Solid Waste Resource Utilization

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Blue Planet Systems

O.C.O Technology

Paebbl

CarbonFree

Carbon Upcycling

Fortera

neustark

CarbonBuilt

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carbon Dioxide Mineralization Material market?

What factors are driving Carbon Dioxide Mineralization Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Carbon Dioxide Mineralization Material market opportunities vary by end market size?

How does Carbon Dioxide Mineralization Material break out by Carbonation Product, by Application?

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