

Global CO₂ Storage by Mineral Carbonation Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global CO₂ Storage by Mineral Carbonation market size is predicted to grow from US\$ 414 million in 2025 to US\$ 822 million in 2032; it is expected to grow at a CAGR of 10.5% from 2026 to 2032.

CO₂ Storage by Mineral Carbonation is a carbon management method in which captured carbon dioxide reacts with calcium- or magnesium-rich minerals, alkaline industrial residues, concrete waste, brines or reactive rock formations to form stable solid carbonate minerals, such as calcium carbonate and magnesium carbonate. The process can be conducted ex situ in reactors, mineral-processing facilities and building-material production lines, or in situ by injecting CO₂ into basalt, peridotite and other suitable geological formations. Because the carbon is chemically bound in a low-energy mineral form rather than stored only as compressed gas, mineral carbonation can provide highly durable storage with a comparatively low risk of long-term leakage.

The CO₂ Storage by Mineral Carbonation market is an emerging segment of the carbon capture, utilization and storage industry, encompassing mineralization technologies, reaction equipment, project engineering, permanent carbon-storage services and mineralized materials. Market demand is being supported by decarbonization requirements in cement, concrete, steel, mining, waste management and other hard-to-abate industries, as well as growing demand for durable carbon removal. Commercial development is increasingly focused on integrating CO₂ capture with mineralization, using steel slag, mine tailings, demolition concrete and other alkaline wastes as feedstocks, and producing aggregates, cementitious materials and carbonate chemicals alongside permanent storage. However, slow reaction kinetics for some minerals, feedstock pretreatment and transportation requirements, energy and water consumption, project capital costs, product certification and carbon-accounting

requirements remain important barriers to large-scale deployment.

Report Scope

LPI (LP Information)' newest research report, the "CO₂ Storage by Mineral Carbonation Industry Forecast" looks at past sales and reviews total world CO₂ Storage by Mineral Carbonation sales in 2025, providing a comprehensive analysis by region and market sector of projected CO₂ Storage by Mineral Carbonation sales for 2026 through 2032. With CO₂ Storage by Mineral Carbonation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO₂ Storage by Mineral Carbonation industry.

This Insight Report provides a comprehensive analysis of the global CO₂ Storage by Mineral Carbonation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on CO₂ Storage by Mineral Carbonation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CO₂ Storage by Mineral Carbonation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO₂ Storage by Mineral Carbonation and breaks down the forecast by Type, 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 CO₂ Storage by Mineral Carbonation.

This report presents a comprehensive overview, market shares, and growth opportunities of CO₂ Storage by Mineral Carbonation market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

In-situ Carbon Mineralization

Ex-situ Carbon Mineralization

Segmentation by Main Technical Route:

Direct Carbonation

Indirect Carbonation

Segmentation by Raw Material Sources:

Natural Mineral-based

Industrial Waste-based

Mine Tailings-based

Concrete Waste-based

Brine and Wastewater-based

Segmentation by Application:

Cement and Concrete

Construction Materials

Steel and Metallurgy

Mining and Tailings

Waste Management

Chemicals and Mineral Materials

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

CarbonCure Technologies

O.C.O Technology

Carbon8 Systems

CarbonFree

Blue Planet Systems

CarbonBuilt

CarbiCrete

neustark

Carbon Upcycling Technologies

Fortera

MCi Carbon

Paebbl

Exterra Technologies

Travertine Technologies

44.01 (Protostar)

GreenOre Technology

Clean Carbon (Beijing) Technology

YuanChu Technology

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