

Global Steel Slag Carbon Sequestration Device Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GE6D6743E2ACEN.html>

Date: May 2026

Pages: 91

Price: US\$ 3,660.00 (Single User License)

ID: GE6D6743E2ACEN

Abstracts

The global Steel Slag Carbon Sequestration Device market size is predicted to grow from US\$ 122 million in 2025 to US\$ 335 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

A Steel Slag Carbon Sequestration Device (SSC) is an equipment and process system that utilizes the large amount of waste steel slag generated during steel production to convert carbon dioxide (CO₂) into stable carbonate minerals through a carbonation mineralization reaction, thereby achieving the capture, fixation, and resource utilization of CO₂. Steel slag is rich in alkaline components such as CaO and MgO, which can undergo carbonation reactions with CO₂. CO₂ can be fixed in the steel slag through direct gas/solid or gas/liquid carbonation processes to form mineral products such as calcium carbonate, reducing atmospheric emissions and enhancing the resource value of steel slag. This device typically includes a steel slag pretreatment unit, a reactor, a CO₂ supply and distribution system, and a carbonation control and dehydration treatment system. It is one of the important technological pathways for carbon emission reduction and solid waste resource utilization in the steel industry. Currently, this technology is still in the transition stage from laboratory/demonstration to industrialization, and overall large-scale commercial deployment is limited. The global gross profit margin for Steel Slag Carbon Sequestration Devices is projected to be approximately 15%-30% in 2025.

Under global net-zero ambitions, the steel industry faces mounting pressure to mitigate its significant greenhouse gas emissions. Steel slag, a large volume by-product of steelmaking, contains high levels of CaO and MgO, which are reactive with CO₂ and make it a promising feedstock for mineral carbonation. Policy mechanisms such as carbon pricing, circular economy mandates, and green procurement are encouraging

adoption of innovative CO₂ sequestration technologies. Mineral carbonation of steel slag offers the dual benefit of CO₂ reduction and converting waste into stable carbonate materials that can serve as construction inputs or other industrial uses, aligning decarbonization with resource valorization in integrated steel ecosystems. These trends position steel slag carbon capture technologies as a differentiated decarbonization pathway for the sector.

Despite clear environmental advantages, commercial scale-up of steel slag carbonation equipment faces technical and economic hurdles. Many processes remain at pilot or demonstration scale, with challenges in controlling reaction kinetics, ensuring process stability at scale, and optimizing reactor designs for variable slag compositions. Markets for carbonate products are still immature, leading to limited revenue streams outside of carbon credits or regulatory compliance. High capital and operational costs, coupled with the absence of robust carbon pricing incentives in some regions, extend investment payback periods. Variability in steel slag chemistry also demands flexible process configurations, raising equipment customization costs and complexity.

Demand for steel slag carbonation systems is emerging from steel producers seeking compliance with emissions targets, as well as from building material manufacturers pursuing greener product portfolios. Carbonated steel slag has potential applications as a supplementary cementitious material, aggregate, or functional filler, enhancing its market value beyond carbon mitigation. As carbon markets evolve and regulatory frameworks reward verified CO₂ sequestration, steel slag carbonation could transition from niche technology to a component of sustainable materials infrastructure. With increasing preference for green construction materials and improved economic incentives, downstream uptake of mineral carbonation technologies is expected to strengthen, fostering integrated growth between decarbonization and circular economy sectors.

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

This Insight Report provides a comprehensive analysis of the global Steel Slag Carbon Sequestration Device 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 Steel Slag Carbon Sequestration Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Steel Slag Carbon Sequestration Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Steel Slag Carbon Sequestration Device 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 Steel Slag Carbon Sequestration Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Steel Slag Carbon Sequestration Device market by product type, application, key players and key regions and countries.

Segmentation by Type:

Direct Carbonation

Indirect Carbonation

Aqueous Carbonation

Pressure/Swing Carbonation

Segmentation by Sales:

Direct Equipment Sales

EPC / Turnkey Projects

Segmentation by Integrated:

Standalone System

Integrated with Steel Mill

Combined with CCUS

Segmentation by Application:

Steel & Iron

Construction Materials

Cement & Concrete

Waste Valorization

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

Solidia Technologies

Blue Planet Ltd.

Mineral Carbonation International

Carbfix

Carbon Upcycling Technologies

SANTACC

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