

# Global Steel Slag Carbon Sequestration Device Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Steel Slag Carbon Sequestration Device market size is expected to reach \$ 336 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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 (CO<sub>2</sub>) into stable carbonate minerals through a carbonation mineralization reaction, thereby achieving the capture, fixation, and resource utilization of CO<sub>2</sub>. Steel slag is rich in alkaline components such as CaO and MgO, which can undergo carbonation reactions with CO<sub>2</sub>. CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> sequestration technologies. Mineral carbonation of steel slag offers the dual benefit of CO<sub>2</sub> 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 CO<sub>2</sub> 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.

This report studies the global Steel Slag Carbon Sequestration Device demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Steel Slag Carbon Sequestration Device, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Steel Slag Carbon Sequestration Device that contribute to its increasing demand across many markets.

## **Highlights and key features of the study**

Global Steel Slag Carbon Sequestration Device total market, 2021-2032, (USD Million)  
Global Steel Slag Carbon Sequestration Device total market by region & country, CAGR, 2021-2032, (USD Million)  
U.S. VS China: Steel Slag Carbon Sequestration Device total market, key domestic companies, and share, (USD Million)  
Global Steel Slag Carbon Sequestration Device revenue by player, revenue and market share 2021-2026, (USD Million)  
Global Steel Slag Carbon Sequestration Device total market by Type, CAGR, 2021-2032, (USD Million)  
Global Steel Slag Carbon Sequestration Device total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Steel Slag Carbon Sequestration Device market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CarbonCure Technologies, Solidia Technologies, Blue Planet Ltd., Mineral Carbonation International, Carbfix, Carbon Upcycling Technologies, SANTACC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Steel Slag Carbon Sequestration Device market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Steel Slag Carbon Sequestration Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Steel Slag Carbon Sequestration Device Market, Segmentation by Type:

Direct Carbonation

Indirect Carbonation

Aqueous Carbonation

Pressure?Swing Carbonation

#### Global Steel Slag Carbon Sequestration Device Market, Segmentation by Sales:

Direct Equipment Sales

EPC / Turnkey Projects

#### Global Steel Slag Carbon Sequestration Device Market, Segmentation by Integrated:

Standalone System

Integrated with Steel Mill

Combined with CCUS

## Global Steel Slag Carbon Sequestration Device Market, Segmentation by Application:

Steel & Iron

Construction Materials

Cement & Concrete

Waste Valorization

## Companies Profiled:

CarbonCure Technologies

Solidia Technologies

Blue Planet Ltd.

Mineral Carbonation International

Carbfix

Carbon Upcycling Technologies

SANTACC

## Key Questions Answered

1. How big is the global Steel Slag Carbon Sequestration Device market?
2. What is the demand of the global Steel Slag Carbon Sequestration Device market?
3. What is the year over year growth of the global Steel Slag Carbon Sequestration Device market?
4. What is the total value of the global Steel Slag Carbon Sequestration Device market?
5. Who are the Major Players in the global Steel Slag Carbon Sequestration Device market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Steel Slag Carbon Sequestration Device Introduction
- 1.2 World Steel Slag Carbon Sequestration Device Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Steel Slag Carbon Sequestration Device Total Market by Region (by Headquarter Location)
  - 1.3.1 World Steel Slag Carbon Sequestration Device Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.3 China Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.4 Europe Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.5 Japan Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
  - 1.3.8 India Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Steel Slag Carbon Sequestration Device Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)
- 2.2 World Steel Slag Carbon Sequestration Device Consumption Value by Region
  - 2.2.1 World Steel Slag Carbon Sequestration Device Consumption Value by Region (2021-2026)
  - 2.2.2 World Steel Slag Carbon Sequestration Device Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Steel Slag Carbon Sequestration Device Consumption Value

(2021-2032)

2.4 China Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)

2.5 Europe Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)

2.6 Japan Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)

2.7 South Korea Steel Slag Carbon Sequestration Device Consumption Value  
(2021-2032)

2.8 ASEAN Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)

2.9 India Steel Slag Carbon Sequestration Device Consumption Value (2021-2032)

### **3 WORLD STEEL SLAG CARBON SEQUESTRATION DEVICE COMPANIES COMPETITIVE ANALYSIS**

3.1 World Steel Slag Carbon Sequestration Device Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Steel Slag Carbon Sequestration Device Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Steel Slag Carbon Sequestration Device  
in 2025

3.2.3 Global Concentration Ratios (CR8) for Steel Slag Carbon Sequestration Device  
in 2025

3.3 Steel Slag Carbon Sequestration Device Company Evaluation Quadrant

3.4 Steel Slag Carbon Sequestration Device Market: Overall Company Footprint  
Analysis

3.4.1 Steel Slag Carbon Sequestration Device Market: Region Footprint

3.4.2 Steel Slag Carbon Sequestration Device Market: Company Product Type  
Footprint

3.4.3 Steel Slag Carbon Sequestration Device Market: Company Product Application  
Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

4.1 United States VS China: Steel Slag Carbon Sequestration Device Revenue  
Comparison (by Headquarter Location)

4.1.1 United States VS China: Steel Slag Carbon Sequestration Device Revenue

Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Steel Slag Carbon Sequestration Device Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Steel Slag Carbon Sequestration Device Consumption Value Comparison

4.2.1 United States VS China: Steel Slag Carbon Sequestration Device Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Steel Slag Carbon Sequestration Device Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Steel Slag Carbon Sequestration Device Companies and Market Share, 2021-2026

4.3.1 United States Based Steel Slag Carbon Sequestration Device Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Steel Slag Carbon Sequestration Device Revenue, (2021-2026)

4.4 China Based Companies Steel Slag Carbon Sequestration Device Revenue and Market Share, 2021-2026

4.4.1 China Based Steel Slag Carbon Sequestration Device Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Steel Slag Carbon Sequestration Device Revenue, (2021-2026)

4.5 Rest of World Based Steel Slag Carbon Sequestration Device Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Steel Slag Carbon Sequestration Device Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Steel Slag Carbon Sequestration Device Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Steel Slag Carbon Sequestration Device Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Direct Carbonation

5.2.2 Indirect Carbonation

5.2.3 Aqueous Carbonation

5.2.4 Pressure?Swing Carbonation

5.3 Market Segment by Type

5.3.1 World Steel Slag Carbon Sequestration Device Market Size by Type (2021-2026)

- 5.3.2 World Steel Slag Carbon Sequestration Device Market Size by Type (2027-2032)
- 5.3.3 World Steel Slag Carbon Sequestration Device Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY SALES**

- 6.1 World Steel Slag Carbon Sequestration Device Market Size Overview by Sales: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Sales
  - 6.2.1 Direct Equipment Sales
  - 6.2.2 EPC / Turnkey Projects
- 6.3 Market Segment by Sales
  - 6.3.1 World Steel Slag Carbon Sequestration Device Market Size by Sales (2021-2026)
  - 6.3.2 World Steel Slag Carbon Sequestration Device Market Size by Sales (2027-2032)
  - 6.3.3 World Steel Slag Carbon Sequestration Device Market Size Market Share by Sales (2027-2032)

## **7 MARKET ANALYSIS BY INTEGRATED**

- 7.1 World Steel Slag Carbon Sequestration Device Market Size Overview by Integrated: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Integrated
  - 7.2.1 Standalone System
  - 7.2.2 Integrated with Steel Mill
  - 7.2.3 Combined with CCUS
- 7.3 Market Segment by Integrated
  - 7.3.1 World Steel Slag Carbon Sequestration Device Market Size by Integrated (2021-2026)
  - 7.3.2 World Steel Slag Carbon Sequestration Device Market Size by Integrated (2027-2032)
  - 7.3.3 World Steel Slag Carbon Sequestration Device Market Size Market Share by Integrated (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Steel Slag Carbon Sequestration Device Market Size Overview by Application: 2021 VS 2025 VS 2032

## 8.2 Segment Introduction by Application

8.2.1 Steel & Iron

8.2.2 Construction Materials

8.2.3 Cement & Concrete

8.2.4 Waste Valorization

## 8.3 Market Segment by Application

8.3.1 World Steel Slag Carbon Sequestration Device Market Size by Application (2021-2026)

8.3.2 World Steel Slag Carbon Sequestration Device Market Size by Application (2027-2032)

8.3.3 World Steel Slag Carbon Sequestration Device Market Size Market Share by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 CarbonCure Technologies

9.1.1 CarbonCure Technologies Details

9.1.2 CarbonCure Technologies Major Business

9.1.3 CarbonCure Technologies Steel Slag Carbon Sequestration Device Product and Services

9.1.4 CarbonCure Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 CarbonCure Technologies Recent Developments/Updates

9.1.6 CarbonCure Technologies Competitive Strengths & Weaknesses

### 9.2 Solidia Technologies

9.2.1 Solidia Technologies Details

9.2.2 Solidia Technologies Major Business

9.2.3 Solidia Technologies Steel Slag Carbon Sequestration Device Product and Services

9.2.4 Solidia Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Solidia Technologies Recent Developments/Updates

9.2.6 Solidia Technologies Competitive Strengths & Weaknesses

### 9.3 Blue Planet Ltd.

9.3.1 Blue Planet Ltd. Details

9.3.2 Blue Planet Ltd. Major Business

9.3.3 Blue Planet Ltd. Steel Slag Carbon Sequestration Device Product and Services

9.3.4 Blue Planet Ltd. Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)

- 9.3.5 Blue Planet Ltd. Recent Developments/Updates
- 9.3.6 Blue Planet Ltd. Competitive Strengths & Weaknesses
- 9.4 Mineral Carbonation International
  - 9.4.1 Mineral Carbonation International Details
  - 9.4.2 Mineral Carbonation International Major Business
  - 9.4.3 Mineral Carbonation International Steel Slag Carbon Sequestration Device Product and Services
  - 9.4.4 Mineral Carbonation International Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Mineral Carbonation International Recent Developments/Updates
  - 9.4.6 Mineral Carbonation International Competitive Strengths & Weaknesses
- 9.5 Carbfix
  - 9.5.1 Carbfix Details
  - 9.5.2 Carbfix Major Business
  - 9.5.3 Carbfix Steel Slag Carbon Sequestration Device Product and Services
  - 9.5.4 Carbfix Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Carbfix Recent Developments/Updates
  - 9.5.6 Carbfix Competitive Strengths & Weaknesses
- 9.6 Carbon Upcycling Technologies
  - 9.6.1 Carbon Upcycling Technologies Details
  - 9.6.2 Carbon Upcycling Technologies Major Business
  - 9.6.3 Carbon Upcycling Technologies Steel Slag Carbon Sequestration Device Product and Services
  - 9.6.4 Carbon Upcycling Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Carbon Upcycling Technologies Recent Developments/Updates
  - 9.6.6 Carbon Upcycling Technologies Competitive Strengths & Weaknesses
- 9.7 SANTACC
  - 9.7.1 SANTACC Details
  - 9.7.2 SANTACC Major Business
  - 9.7.3 SANTACC Steel Slag Carbon Sequestration Device Product and Services
  - 9.7.4 SANTACC Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026)
  - 9.7.5 SANTACC Recent Developments/Updates
  - 9.7.6 SANTACC Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Steel Slag Carbon Sequestration Device Industry Chain
- 10.2 Steel Slag Carbon Sequestration Device Upstream Analysis
- 10.3 Steel Slag Carbon Sequestration Device Midstream Analysis
- 10.4 Steel Slag Carbon Sequestration Device Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Steel Slag Carbon Sequestration Device Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Steel Slag Carbon Sequestration Device Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Steel Slag Carbon Sequestration Device Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Steel Slag Carbon Sequestration Device Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Steel Slag Carbon Sequestration Device Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Steel Slag Carbon Sequestration Device Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Steel Slag Carbon Sequestration Device Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Steel Slag Carbon Sequestration Device Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Steel Slag Carbon Sequestration Device Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Steel Slag Carbon Sequestration Device Players in 2025

Table 12. World Steel Slag Carbon Sequestration Device Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Steel Slag Carbon Sequestration Device Company Evaluation Quadrant

Table 14. Head Office of Key Steel Slag Carbon Sequestration Device Players

Table 15. Steel Slag Carbon Sequestration Device Market: Company Product Type Footprint

Table 16. Steel Slag Carbon Sequestration Device Market: Company Product Application Footprint

Table 17. Steel Slag Carbon Sequestration Device Mergers & Acquisitions Activity

Table 18. United States VS China Steel Slag Carbon Sequestration Device Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Steel Slag Carbon Sequestration Device Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Steel Slag Carbon Sequestration Device Companies, Headquarters (States, Country)

Table 21. United States Based Companies Steel Slag Carbon Sequestration Device Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Steel Slag Carbon Sequestration Device Revenue Market Share (2021-2026)

Table 23. China Based Steel Slag Carbon Sequestration Device Companies, Headquarters (Province, Country)

Table 24. China Based Companies Steel Slag Carbon Sequestration Device Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Steel Slag Carbon Sequestration Device Revenue Market Share (2021-2026)

Table 26. Rest of World Based Steel Slag Carbon Sequestration Device Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Steel Slag Carbon Sequestration Device Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Steel Slag Carbon Sequestration Device Revenue Market Share (2021-2026)

Table 29. World Steel Slag Carbon Sequestration Device Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Steel Slag Carbon Sequestration Device Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Steel Slag Carbon Sequestration Device Market Size by Type (2027-2032) & (USD Million)

Table 32. World Steel Slag Carbon Sequestration Device Market Size by Sales, (USD Million), 2021 & 2025 & 2032

Table 33. World Steel Slag Carbon Sequestration Device Market Size Value by Sales (2021-2026) & (USD Million)

Table 34. World Steel Slag Carbon Sequestration Device Market Size by Sales (2027-2032) & (USD Million)

Table 35. World Steel Slag Carbon Sequestration Device Market Size by Integrated, (USD Million), 2021 & 2025 & 2032

Table 36. World Steel Slag Carbon Sequestration Device Market Size Value by Integrated (2021-2026) & (USD Million)

Table 37. World Steel Slag Carbon Sequestration Device Market Size by Integrated (2027-2032) & (USD Million)

Table 38. World Steel Slag Carbon Sequestration Device Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Steel Slag Carbon Sequestration Device Market Size by Application

(2021-2026) & (USD Million)

Table 40. World Steel Slag Carbon Sequestration Device Market Size by Application

(2027-2032) & (USD Million)

Table 41. CarbonCure Technologies Basic Information, Manufacturing Base and Competitors

Table 42. CarbonCure Technologies Major Business

Table 43. CarbonCure Technologies Steel Slag Carbon Sequestration Device Product and Services

Table 44. CarbonCure Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. CarbonCure Technologies Recent Developments/Updates

Table 46. CarbonCure Technologies Competitive Strengths & Weaknesses

Table 47. Solidia Technologies Basic Information, Manufacturing Base and Competitors

Table 48. Solidia Technologies Major Business

Table 49. Solidia Technologies Steel Slag Carbon Sequestration Device Product and Services

Table 50. Solidia Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Solidia Technologies Recent Developments/Updates

Table 52. Solidia Technologies Competitive Strengths & Weaknesses

Table 53. Blue Planet Ltd. Basic Information, Manufacturing Base and Competitors

Table 54. Blue Planet Ltd. Major Business

Table 55. Blue Planet Ltd. Steel Slag Carbon Sequestration Device Product and Services

Table 56. Blue Planet Ltd. Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Blue Planet Ltd. Recent Developments/Updates

Table 58. Blue Planet Ltd. Competitive Strengths & Weaknesses

Table 59. Mineral Carbonation International Basic Information, Manufacturing Base and Competitors

Table 60. Mineral Carbonation International Major Business

Table 61. Mineral Carbonation International Steel Slag Carbon Sequestration Device Product and Services

Table 62. Mineral Carbonation International Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Mineral Carbonation International Recent Developments/Updates

Table 64. Mineral Carbonation International Competitive Strengths & Weaknesses

Table 65. Carbfix Basic Information, Manufacturing Base and Competitors

Table 66. Carbfix Major Business

- Table 67. Carbfix Steel Slag Carbon Sequestration Device Product and Services
- Table 68. Carbfix Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. Carbfix Recent Developments/Updates
- Table 70. Carbfix Competitive Strengths & Weaknesses
- Table 71. Carbon Upcycling Technologies Basic Information, Manufacturing Base and Competitors
- Table 72. Carbon Upcycling Technologies Major Business
- Table 73. Carbon Upcycling Technologies Steel Slag Carbon Sequestration Device Product and Services
- Table 74. Carbon Upcycling Technologies Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. Carbon Upcycling Technologies Recent Developments/Updates
- Table 76. Carbon Upcycling Technologies Competitive Strengths & Weaknesses
- Table 77. SANTACC Basic Information, Manufacturing Base and Competitors
- Table 78. SANTACC Major Business
- Table 79. SANTACC Steel Slag Carbon Sequestration Device Product and Services
- Table 80. SANTACC Steel Slag Carbon Sequestration Device Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. SANTACC Recent Developments/Updates
- Table 82. SANTACC Competitive Strengths & Weaknesses
- Table 83. Global Key Players of Steel Slag Carbon Sequestration Device Upstream (Raw Materials)
- Table 84. Global Steel Slag Carbon Sequestration Device Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Steel Slag Carbon Sequestration Device Picture

Figure 2. World Steel Slag Carbon Sequestration Device Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Steel Slag Carbon Sequestration Device Total Revenue (2021-2032) & (USD Million)

Figure 4. World Steel Slag Carbon Sequestration Device Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Steel Slag Carbon Sequestration Device Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Steel Slag Carbon Sequestration Device Revenue (2021-2032) & (USD Million)

Figure 13. Steel Slag Carbon Sequestration Device Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 16. World Steel Slag Carbon Sequestration Device Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 18. China Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 23. India Steel Slag Carbon Sequestration Device Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Steel Slag Carbon Sequestration Device by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Steel Slag Carbon Sequestration Device Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Steel Slag Carbon Sequestration Device Markets in 2025

Figure 27. United States VS China: Steel Slag Carbon Sequestration Device Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Steel Slag Carbon Sequestration Device Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Steel Slag Carbon Sequestration Device Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Steel Slag Carbon Sequestration Device Market Size Market Share by Type in 2025

Figure 31. Direct Carbonation

Figure 32. Indirect Carbonation

Figure 33. Aqueous Carbonation

Figure 34. Pressure/Swing Carbonation

Figure 35. World Steel Slag Carbon Sequestration Device Market Size Market Share by Type (2021-2032)

Figure 36. World Steel Slag Carbon Sequestration Device Market Size by Sales, (USD Million), 2021 & 2025 & 2032

Figure 37. World Steel Slag Carbon Sequestration Device Market Size Market Share by Sales in 2025

Figure 38. Direct Equipment Sales

Figure 39. EPC / Turnkey Projects

Figure 40. World Steel Slag Carbon Sequestration Device Market Size Market Share by Sales (2021-2032)

Figure 41. World Steel Slag Carbon Sequestration Device Market Size by Integrated, (USD Million), 2021 & 2025 & 2032

Figure 42. World Steel Slag Carbon Sequestration Device Market Size Market Share by

Integrated in 2025

Figure 43. Standalone System

Figure 44. Integrated with Steel Mill

Figure 45. Combined with CCUS

Figure 46. World Steel Slag Carbon Sequestration Device Market Size Market Share by Integrated (2021-2032)

Figure 47. World Steel Slag Carbon Sequestration Device Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Steel Slag Carbon Sequestration Device Market Size Market Share by Application in 2025

Figure 49. Steel & Iron

Figure 50. Construction Materials

Figure 51. Cement & Concrete

Figure 52. Waste Valorization

Figure 53. World Steel Slag Carbon Sequestration Device Market Size Market Share by Application (2021-2032)

Figure 54. Steel Slag Carbon Sequestration Device Industrial Chain

Figure 55. Methodology

Figure 56. Research Process and Data Source

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