

Global Carbon Capture and Recycling Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Carbon Capture and Recycling Technology market size is predicted to grow from US\$ 4797 million in 2025 to US\$ 8006 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

Carbon Capture and Recycling Technology (CCRT) refers to a suite of technologies that capture carbon dioxide (CO₂) emissions from industrial sources or directly from the atmosphere, and subsequently convert or recycle the captured CO₂ into valuable products such as synthetic fuels, chemicals, construction materials, or polymers. By transforming CO₂ from a waste emission into a usable resource, this technology supports decarbonization, circular carbon economy models, and the reduction of net greenhouse gas emissions across energy-intensive industries.

The Carbon Capture and Recycling Technology market is driven by increasingly stringent climate regulations, corporate net-zero commitments, and growing demand for low-carbon fuels and materials. The market spans capture technologies, CO₂ purification and transport, and downstream utilization pathways such as synthetic fuels, chemicals, and mineralization. While large-scale deployment is still in an early growth stage, government incentives, carbon pricing mechanisms, and advances in catalytic and electrochemical conversion are accelerating commercialization, positioning the market for long-term expansion across industrial and energy sectors.

LPI (LP Information)' newest research report, the "Carbon Capture and Recycling Technology Industry Forecast" looks at past sales and reviews total world Carbon Capture and Recycling Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected Carbon Capture and Recycling Technology sales for 2026 through 2032. With Carbon Capture and Recycling Technology sales

broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Capture and Recycling Technology industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Capture and Recycling Technology 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 Carbon Capture and Recycling Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Capture and Recycling Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Pre-Combustion Carbon Capture

Oxy-Combustion Carbon Capture

Post-Combustion Carbon Capture

Segmentation by Capture Technology:

Amine-based Absorption Systems

Solid Sorbent Adsorption Systems

Membrane Separation Systems

Others

Segmentation by Deployment Model:

Point-source Capture

Industrial Hub Capture

Modular Capture

Segmentation by Application:

Oil & Gas

Power Generation

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.

Exxon Mobil

SLB

Linde PLC

Mitsubishi

Huaneng

BASF

Halliburton

Siemens AG

General Electric

Honeywell UOP

Carbonfree

Shell

JX Nippon (ENEOS)

Sulzer

Equinor

Sinopec

Fluor Corporation

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Carbon Capture and Recycling Technology Market Size (2021-2032)
- 2.1.2 Carbon Capture and Recycling Technology Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Carbon Capture and Recycling Technology by Country/Region (2021, 2025 & 2032)
- 2.2 Carbon Capture and Recycling Technology Segment by Type
 - 2.2.1 Pre-Combustion Carbon Capture
 - 2.2.2 Oxy-Combustion Carbon Capture
 - 2.2.3 Post-Combustion Carbon Capture
 - 2.2.4 Carbon Capture and Recycling Technology Market Size by Type
 - 2.2.4.1 Carbon Capture and Recycling Technology Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.4.2 Global Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)
- 2.3 Carbon Capture and Recycling Technology Segment by Capture Technology
 - 2.3.1 Amine-based Absorption Systems
 - 2.3.2 Solid Sorbent Adsorption Systems
 - 2.3.3 Membrane Separation Systems
 - 2.3.4 Others
 - 2.3.5 Carbon Capture and Recycling Technology Market Size by Capture Technology
 - 2.3.5.1 Carbon Capture and Recycling Technology Market Size CAGR by Capture Technology (2021 VS 2025 VS 2032)
 - 2.3.5.2 Global Carbon Capture and Recycling Technology Market Size Market Share

by Capture Technology (2021-2026)

2.4 Carbon Capture and Recycling Technology Segment by Deployment Model

2.4.1 Point-source Capture

2.4.2 Industrial Hub Capture

2.4.3 Modular Capture

2.4.4 Carbon Capture and Recycling Technology Market Size by Deployment Model

2.4.4.1 Carbon Capture and Recycling Technology Market Size CAGR by
Deployment Model (2021 VS 2025 VS 2032)

2.4.4.2 Global Carbon Capture and Recycling Technology Market Size Market Share
by Deployment Model (2021-2026)

2.5 Carbon Capture and Recycling Technology Segment by Application

2.5.1 Oil & Gas

2.5.2 Power Generation

2.5.3 Others

2.5.4 Carbon Capture and Recycling Technology Market Size by Application

2.5.4.1 Carbon Capture and Recycling Technology Market Size CAGR by Application
(2021 VS 2025 VS 2032)

2.5.4.2 Global Carbon Capture and Recycling Technology Market Size Market Share
by Application (2021-2026)

3 CARBON CAPTURE AND RECYCLING TECHNOLOGY MARKET SIZE BY PLAYER

3.1 Carbon Capture and Recycling Technology Market Size Market Share by Player

3.1.1 Global Carbon Capture and Recycling Technology Revenue by Player
(2021-2026)

3.1.2 Global Carbon Capture and Recycling Technology Revenue Market Share by
Player (2021-2026)

3.2 Global Carbon Capture and Recycling Technology Key Players Head office and
Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 CARBON CAPTURE AND RECYCLING TECHNOLOGY BY REGION

4.1 Carbon Capture and Recycling Technology Market Size by Region (2021-2026)

- 4.2 Global Carbon Capture and Recycling Technology Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Carbon Capture and Recycling Technology Market Size Growth (2021-2026)
- 4.4 APAC Carbon Capture and Recycling Technology Market Size Growth (2021-2026)
- 4.5 Europe Carbon Capture and Recycling Technology Market Size Growth (2021-2026)
- 4.6 Middle East & Africa Carbon Capture and Recycling Technology Market Size Growth (2021-2026)

5 AMERICAS

- 5.1 Americas Carbon Capture and Recycling Technology Market Size by Country (2021-2026)
- 5.2 Americas Carbon Capture and Recycling Technology Market Size by Type (2021-2026)
- 5.3 Americas Carbon Capture and Recycling Technology Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Carbon Capture and Recycling Technology Market Size by Region (2021-2026)
- 6.2 APAC Carbon Capture and Recycling Technology Market Size by Type (2021-2026)
- 6.3 APAC Carbon Capture and Recycling Technology Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

7.1 Europe Carbon Capture and Recycling Technology Market Size by Country
(2021-2026)

7.2 Europe Carbon Capture and Recycling Technology Market Size by Type
(2021-2026)

7.3 Europe Carbon Capture and Recycling Technology Market Size by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Carbon Capture and Recycling Technology by Region
(2021-2026)

8.2 Middle East & Africa Carbon Capture and Recycling Technology Market Size by
Type (2021-2026)

8.3 Middle East & Africa Carbon Capture and Recycling Technology Market Size by
Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL CARBON CAPTURE AND RECYCLING TECHNOLOGY MARKET FORECAST

10.1 Global Carbon Capture and Recycling Technology Forecast by Region
(2027-2032)

10.1.1 Global Carbon Capture and Recycling Technology Forecast by Region
(2027-2032)

- 10.1.2 Americas Carbon Capture and Recycling Technology Forecast
- 10.1.3 APAC Carbon Capture and Recycling Technology Forecast
- 10.1.4 Europe Carbon Capture and Recycling Technology Forecast
- 10.1.5 Middle East & Africa Carbon Capture and Recycling Technology Forecast
- 10.2 Americas Carbon Capture and Recycling Technology Forecast by Country (2027-2032)
 - 10.2.1 United States Market Carbon Capture and Recycling Technology Forecast
 - 10.2.2 Canada Market Carbon Capture and Recycling Technology Forecast
 - 10.2.3 Mexico Market Carbon Capture and Recycling Technology Forecast
 - 10.2.4 Brazil Market Carbon Capture and Recycling Technology Forecast
- 10.3 APAC Carbon Capture and Recycling Technology Forecast by Region (2027-2032)
 - 10.3.1 China Carbon Capture and Recycling Technology Market Forecast
 - 10.3.2 Japan Market Carbon Capture and Recycling Technology Forecast
 - 10.3.3 Korea Market Carbon Capture and Recycling Technology Forecast
 - 10.3.4 Southeast Asia Market Carbon Capture and Recycling Technology Forecast
 - 10.3.5 India Market Carbon Capture and Recycling Technology Forecast
 - 10.3.6 Australia Market Carbon Capture and Recycling Technology Forecast
- 10.4 Europe Carbon Capture and Recycling Technology Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Carbon Capture and Recycling Technology Forecast
 - 10.4.2 France Market Carbon Capture and Recycling Technology Forecast
 - 10.4.3 UK Market Carbon Capture and Recycling Technology Forecast
 - 10.4.4 Italy Market Carbon Capture and Recycling Technology Forecast
 - 10.4.5 Russia Market Carbon Capture and Recycling Technology Forecast
- 10.5 Middle East & Africa Carbon Capture and Recycling Technology Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Carbon Capture and Recycling Technology Forecast
 - 10.5.2 South Africa Market Carbon Capture and Recycling Technology Forecast
 - 10.5.3 Israel Market Carbon Capture and Recycling Technology Forecast
 - 10.5.4 Turkey Market Carbon Capture and Recycling Technology Forecast
- 10.6 Global Carbon Capture and Recycling Technology Forecast by Type (2027-2032)
- 10.7 Global Carbon Capture and Recycling Technology Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Carbon Capture and Recycling Technology Forecast

11 KEY PLAYERS ANALYSIS

11.1 Exxon Mobil

- 11.1.1 Exxon Mobil Company Information
- 11.1.2 Exxon Mobil Carbon Capture and Recycling Technology Product Offered
- 11.1.3 Exxon Mobil Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Exxon Mobil Main Business Overview
- 11.1.5 Exxon Mobil Latest Developments
- 11.2 SLB
 - 11.2.1 SLB Company Information
 - 11.2.2 SLB Carbon Capture and Recycling Technology Product Offered
 - 11.2.3 SLB Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 SLB Main Business Overview
 - 11.2.5 SLB Latest Developments
- 11.3 Linde PLC
 - 11.3.1 Linde PLC Company Information
 - 11.3.2 Linde PLC Carbon Capture and Recycling Technology Product Offered
 - 11.3.3 Linde PLC Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Linde PLC Main Business Overview
 - 11.3.5 Linde PLC Latest Developments
- 11.4 Mitsubishi
 - 11.4.1 Mitsubishi Company Information
 - 11.4.2 Mitsubishi Carbon Capture and Recycling Technology Product Offered
 - 11.4.3 Mitsubishi Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Mitsubishi Main Business Overview
 - 11.4.5 Mitsubishi Latest Developments
- 11.5 Huaneng
 - 11.5.1 Huaneng Company Information
 - 11.5.2 Huaneng Carbon Capture and Recycling Technology Product Offered
 - 11.5.3 Huaneng Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Huaneng Main Business Overview
 - 11.5.5 Huaneng Latest Developments
- 11.6 BASF
 - 11.6.1 BASF Company Information
 - 11.6.2 BASF Carbon Capture and Recycling Technology Product Offered
 - 11.6.3 BASF Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)

- 11.6.4 BASF Main Business Overview
- 11.6.5 BASF Latest Developments
- 11.7 Halliburton
 - 11.7.1 Halliburton Company Information
 - 11.7.2 Halliburton Carbon Capture and Recycling Technology Product Offered
 - 11.7.3 Halliburton Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Halliburton Main Business Overview
 - 11.7.5 Halliburton Latest Developments
- 11.8 Siemens AG
 - 11.8.1 Siemens AG Company Information
 - 11.8.2 Siemens AG Carbon Capture and Recycling Technology Product Offered
 - 11.8.3 Siemens AG Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 Siemens AG Main Business Overview
 - 11.8.5 Siemens AG Latest Developments
- 11.9 General Electric
 - 11.9.1 General Electric Company Information
 - 11.9.2 General Electric Carbon Capture and Recycling Technology Product Offered
 - 11.9.3 General Electric Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 General Electric Main Business Overview
 - 11.9.5 General Electric Latest Developments
- 11.10 Honeywell UOP
 - 11.10.1 Honeywell UOP Company Information
 - 11.10.2 Honeywell UOP Carbon Capture and Recycling Technology Product Offered
 - 11.10.3 Honeywell UOP Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Honeywell UOP Main Business Overview
 - 11.10.5 Honeywell UOP Latest Developments
- 11.11 Carbonfree
 - 11.11.1 Carbonfree Company Information
 - 11.11.2 Carbonfree Carbon Capture and Recycling Technology Product Offered
 - 11.11.3 Carbonfree Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Carbonfree Main Business Overview
 - 11.11.5 Carbonfree Latest Developments
- 11.12 Shell
 - 11.12.1 Shell Company Information

- 11.12.2 Shell Carbon Capture and Recycling Technology Product Offered
- 11.12.3 Shell Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.12.4 Shell Main Business Overview
- 11.12.5 Shell Latest Developments
- 11.13 JX Nippon (ENEOS)
 - 11.13.1 JX Nippon (ENEOS) Company Information
 - 11.13.2 JX Nippon (ENEOS) Carbon Capture and Recycling Technology Product Offered
 - 11.13.3 JX Nippon (ENEOS) Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 JX Nippon (ENEOS) Main Business Overview
 - 11.13.5 JX Nippon (ENEOS) Latest Developments
- 11.14 Sulzer
 - 11.14.1 Sulzer Company Information
 - 11.14.2 Sulzer Carbon Capture and Recycling Technology Product Offered
 - 11.14.3 Sulzer Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Sulzer Main Business Overview
 - 11.14.5 Sulzer Latest Developments
- 11.15 Equinor
 - 11.15.1 Equinor Company Information
 - 11.15.2 Equinor Carbon Capture and Recycling Technology Product Offered
 - 11.15.3 Equinor Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.15.4 Equinor Main Business Overview
 - 11.15.5 Equinor Latest Developments
- 11.16 Sinopec
 - 11.16.1 Sinopec Company Information
 - 11.16.2 Sinopec Carbon Capture and Recycling Technology Product Offered
 - 11.16.3 Sinopec Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.16.4 Sinopec Main Business Overview
 - 11.16.5 Sinopec Latest Developments
- 11.17 Fluor Corporation
 - 11.17.1 Fluor Corporation Company Information
 - 11.17.2 Fluor Corporation Carbon Capture and Recycling Technology Product Offered
 - 11.17.3 Fluor Corporation Carbon Capture and Recycling Technology Revenue, Gross Margin and Market Share (2021-2026)

11.17.4 Fluor Corporation Main Business Overview

11.17.5 Fluor Corporation Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Carbon Capture and Recycling Technology Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Carbon Capture and Recycling Technology Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Pre-Combustion Carbon Capture

Table 4. Major Players of Oxy-Combustion Carbon Capture

Table 5. Major Players of Post-Combustion Carbon Capture

Table 6. Carbon Capture and Recycling Technology Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 7. Global Carbon Capture and Recycling Technology Market Size by Type (2021-2026) & (\$ millions)

Table 8. Global Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)

Table 9. Major Players of Amine-based Absorption Systems

Table 10. Major Players of Solid Sorbent Adsorption Systems

Table 11. Major Players of Membrane Separation Systems

Table 12. Major Players of Others

Table 13. Carbon Capture and Recycling Technology Market Size CAGR by Capture Technology (2021 VS 2025 VS 2032) & (\$ millions)

Table 14. Global Carbon Capture and Recycling Technology Market Size by Capture Technology (2021-2026) & (\$ millions)

Table 15. Global Carbon Capture and Recycling Technology Market Size Market Share by Capture Technology (2021-2026)

Table 16. Major Players of Point-source Capture

Table 17. Major Players of Industrial Hub Capture

Table 18. Major Players of Modular Capture

Table 19. Carbon Capture and Recycling Technology Market Size CAGR by Deployment Model (2021 VS 2025 VS 2032) & (\$ millions)

Table 20. Global Carbon Capture and Recycling Technology Market Size by Deployment Model (2021-2026) & (\$ millions)

Table 21. Global Carbon Capture and Recycling Technology Market Size Market Share by Deployment Model (2021-2026)

Table 22. Carbon Capture and Recycling Technology Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 23. Global Carbon Capture and Recycling Technology Market Size by Application

(2021-2026) & (\$ millions)

Table 24. Global Carbon Capture and Recycling Technology Market Size Market Share by Application (2021-2026)

Table 25. Global Carbon Capture and Recycling Technology Revenue by Player (2021-2026) & (\$ millions)

Table 26. Global Carbon Capture and Recycling Technology Revenue Market Share by Player (2021-2026)

Table 27. Carbon Capture and Recycling Technology Key Players Head office and Products Offered

Table 28. Carbon Capture and Recycling Technology Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 29. New Products and Potential Entrants

Table 30. Mergers & Acquisitions, Expansion

Table 31. Global Carbon Capture and Recycling Technology Market Size by Region (2021-2026) & (\$ millions)

Table 32. Global Carbon Capture and Recycling Technology Market Size Market Share by Region (2021-2026)

Table 33. Global Carbon Capture and Recycling Technology Revenue by Country/Region (2021-2026) & (\$ millions)

Table 34. Global Carbon Capture and Recycling Technology Revenue Market Share by Country/Region (2021-2026)

Table 35. Americas Carbon Capture and Recycling Technology Market Size by Country (2021-2026) & (\$ millions)

Table 36. Americas Carbon Capture and Recycling Technology Market Size Market Share by Country (2021-2026)

Table 37. Americas Carbon Capture and Recycling Technology Market Size by Type (2021-2026) & (\$ millions)

Table 38. Americas Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)

Table 39. Americas Carbon Capture and Recycling Technology Market Size by Application (2021-2026) & (\$ millions)

Table 40. Americas Carbon Capture and Recycling Technology Market Size Market Share by Application (2021-2026)

Table 41. APAC Carbon Capture and Recycling Technology Market Size by Region (2021-2026) & (\$ millions)

Table 42. APAC Carbon Capture and Recycling Technology Market Size Market Share by Region (2021-2026)

Table 43. APAC Carbon Capture and Recycling Technology Market Size by Type (2021-2026) & (\$ millions)

Table 44. APAC Carbon Capture and Recycling Technology Market Size by Application (2021-2026) & (\$ millions)

Table 45. Europe Carbon Capture and Recycling Technology Market Size by Country (2021-2026) & (\$ millions)

Table 46. Europe Carbon Capture and Recycling Technology Market Size Market Share by Country (2021-2026)

Table 47. Europe Carbon Capture and Recycling Technology Market Size by Type (2021-2026) & (\$ millions)

Table 48. Europe Carbon Capture and Recycling Technology Market Size by Application (2021-2026) & (\$ millions)

Table 49. Middle East & Africa Carbon Capture and Recycling Technology Market Size by Region (2021-2026) & (\$ millions)

Table 50. Middle East & Africa Carbon Capture and Recycling Technology Market Size by Type (2021-2026) & (\$ millions)

Table 51. Middle East & Africa Carbon Capture and Recycling Technology Market Size by Application (2021-2026) & (\$ millions)

Table 52. Key Market Drivers & Growth Opportunities of Carbon Capture and Recycling Technology

Table 53. Key Market Challenges & Risks of Carbon Capture and Recycling Technology

Table 54. Key Industry Trends of Carbon Capture and Recycling Technology

Table 55. Global Carbon Capture and Recycling Technology Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 56. Global Carbon Capture and Recycling Technology Market Size Market Share Forecast by Region (2027-2032)

Table 57. Global Carbon Capture and Recycling Technology Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 58. Global Carbon Capture and Recycling Technology Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 59. Exxon Mobil Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 60. Exxon Mobil Carbon Capture and Recycling Technology Product Offered

Table 61. Exxon Mobil Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 62. Exxon Mobil Main Business

Table 63. Exxon Mobil Latest Developments

Table 64. SLB Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 65. SLB Carbon Capture and Recycling Technology Product Offered

Table 66. SLB Carbon Capture and Recycling Technology Revenue (\$ million), Gross

Margin and Market Share (2021-2026)

Table 67. SLB Main Business

Table 68. SLB Latest Developments

Table 69. Linde PLC Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 70. Linde PLC Carbon Capture and Recycling Technology Product Offered

Table 71. Linde PLC Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 72. Linde PLC Main Business

Table 73. Linde PLC Latest Developments

Table 74. Mitsubishi Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 75. Mitsubishi Carbon Capture and Recycling Technology Product Offered

Table 76. Mitsubishi Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 77. Mitsubishi Main Business

Table 78. Mitsubishi Latest Developments

Table 79. Huaneng Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 80. Huaneng Carbon Capture and Recycling Technology Product Offered

Table 81. Huaneng Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 82. Huaneng Main Business

Table 83. Huaneng Latest Developments

Table 84. BASF Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 85. BASF Carbon Capture and Recycling Technology Product Offered

Table 86. BASF Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 87. BASF Main Business

Table 88. BASF Latest Developments

Table 89. Halliburton Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 90. Halliburton Carbon Capture and Recycling Technology Product Offered

Table 91. Halliburton Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 92. Halliburton Main Business

Table 93. Halliburton Latest Developments

Table 94. Siemens AG Details, Company Type, Carbon Capture and Recycling

Technology Area Served and Its Competitors

Table 95. Siemens AG Carbon Capture and Recycling Technology Product Offered

Table 96. Siemens AG Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 97. Siemens AG Main Business

Table 98. Siemens AG Latest Developments

Table 99. General Electric Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 100. General Electric Carbon Capture and Recycling Technology Product Offered

Table 101. General Electric Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 102. General Electric Main Business

Table 103. General Electric Latest Developments

Table 104. Honeywell UOP Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 105. Honeywell UOP Carbon Capture and Recycling Technology Product Offered

Table 106. Honeywell UOP Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 107. Honeywell UOP Main Business

Table 108. Honeywell UOP Latest Developments

Table 109. Carbonfree Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 110. Carbonfree Carbon Capture and Recycling Technology Product Offered

Table 111. Carbonfree Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 112. Carbonfree Main Business

Table 113. Carbonfree Latest Developments

Table 114. Shell Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 115. Shell Carbon Capture and Recycling Technology Product Offered

Table 116. Shell Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 117. Shell Main Business

Table 118. Shell Latest Developments

Table 119. JX Nippon (ENEOS) Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 120. JX Nippon (ENEOS) Carbon Capture and Recycling Technology Product Offered

Table 121. JX Nippon (ENEOS) Carbon Capture and Recycling Technology Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 122. JX Nippon (ENEOS) Main Business

Table 123. JX Nippon (ENEOS) Latest Developments

Table 124. Sulzer Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 125. Sulzer Carbon Capture and Recycling Technology Product Offered

Table 126. Sulzer Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 127. Sulzer Main Business

Table 128. Sulzer Latest Developments

Table 129. Equinor Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 130. Equinor Carbon Capture and Recycling Technology Product Offered

Table 131. Equinor Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 132. Equinor Main Business

Table 133. Equinor Latest Developments

Table 134. Sinopec Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 135. Sinopec Carbon Capture and Recycling Technology Product Offered

Table 136. Sinopec Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 137. Sinopec Main Business

Table 138. Sinopec Latest Developments

Table 139. Fluor Corporation Details, Company Type, Carbon Capture and Recycling Technology Area Served and Its Competitors

Table 140. Fluor Corporation Carbon Capture and Recycling Technology Product Offered

Table 141. Fluor Corporation Carbon Capture and Recycling Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 142. Fluor Corporation Main Business

Table 143. Fluor Corporation Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Carbon Capture and Recycling Technology Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Carbon Capture and Recycling Technology Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Carbon Capture and Recycling Technology Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Carbon Capture and Recycling Technology Sales Market Share by Country/Region (2025)
- Figure 8. Carbon Capture and Recycling Technology Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Carbon Capture and Recycling Technology Market Size Market Share by Type in 2025
- Figure 10. Global Carbon Capture and Recycling Technology Market Size Market Share by Capture Technology in 2025
- Figure 11. Global Carbon Capture and Recycling Technology Market Size Market Share by Deployment Model in 2025
- Figure 12. Carbon Capture and Recycling Technology in Oil & Gas
- Figure 13. Global Carbon Capture and Recycling Technology Market: Oil & Gas (2021-2026) & (\$ millions)
- Figure 14. Carbon Capture and Recycling Technology in Power Generation
- Figure 15. Global Carbon Capture and Recycling Technology Market: Power Generation (2021-2026) & (\$ millions)
- Figure 16. Carbon Capture and Recycling Technology in Others
- Figure 17. Global Carbon Capture and Recycling Technology Market: Others (2021-2026) & (\$ millions)
- Figure 18. Global Carbon Capture and Recycling Technology Market Size Market Share by Application in 2025
- Figure 19. Global Carbon Capture and Recycling Technology Revenue Market Share by Player in 2025
- Figure 20. Global Carbon Capture and Recycling Technology Market Size Market Share by Region (2021-2026)
- Figure 21. Americas Carbon Capture and Recycling Technology Market Size 2021-2026 (\$ millions)

Figure 22. APAC Carbon Capture and Recycling Technology Market Size 2021-2026 (\$ millions)

Figure 23. Europe Carbon Capture and Recycling Technology Market Size 2021-2026 (\$ millions)

Figure 24. Middle East & Africa Carbon Capture and Recycling Technology Market Size 2021-2026 (\$ millions)

Figure 25. Americas Carbon Capture and Recycling Technology Value Market Share by Country in 2025

Figure 26. United States Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 27. Canada Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 28. Mexico Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 29. Brazil Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 30. APAC Carbon Capture and Recycling Technology Market Size Market Share by Region in 2025

Figure 31. APAC Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)

Figure 32. APAC Carbon Capture and Recycling Technology Market Size Market Share by Application (2021-2026)

Figure 33. China Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 34. Japan Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 35. South Korea Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 36. Southeast Asia Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 37. India Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 38. Australia Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 39. Europe Carbon Capture and Recycling Technology Market Size Market Share by Country in 2025

Figure 40. Europe Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)

Figure 41. Europe Carbon Capture and Recycling Technology Market Size Market

Share by Application (2021-2026)

Figure 42. Germany Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 43. France Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 44. UK Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 45. Italy Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 46. Russia Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Carbon Capture and Recycling Technology Market Size Market Share by Region (2021-2026)

Figure 48. Middle East & Africa Carbon Capture and Recycling Technology Market Size Market Share by Type (2021-2026)

Figure 49. Middle East & Africa Carbon Capture and Recycling Technology Market Size Market Share by Application (2021-2026)

Figure 50. Egypt Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 51. South Africa Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 52. Israel Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 53. Turkey Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 54. GCC Countries Carbon Capture and Recycling Technology Market Size Growth 2021-2026 (\$ millions)

Figure 55. Americas Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 56. APAC Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 57. Europe Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 58. Middle East & Africa Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 59. United States Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 60. Canada Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 61. Mexico Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 62. Brazil Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 63. China Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 64. Japan Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 65. Korea Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 66. Southeast Asia Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 67. India Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 68. Australia Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 69. Germany Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 70. France Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 71. UK Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 72. Italy Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 73. Russia Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 74. Egypt Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 75. South Africa Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 76. Israel Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 77. Turkey Carbon Capture and Recycling Technology Market Size 2027-2032 (\$ millions)

Figure 78. Global Carbon Capture and Recycling Technology Market Size Market Share Forecast by Type (2027-2032)

Figure 79. Global Carbon Capture and Recycling Technology Market Size Market Share Forecast by Application (2027-2032)

Figure 80. GCC Countries Carbon Capture and Recycling Technology Market Size

2027-2032 (\$ millions)

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