

Global Carbon Capture Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Capture market size is expected to reach \$ 8210 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032). Carbon Capture refers to a set of technologies that separate, capture, and concentrate carbon dioxide (CO₂) from industrial exhaust gases or energy-related emission streams using physical, chemical, or biological methods. It is typically integrated with downstream carbon transport, utilization, or storage (CCUS). Carbon capture is widely applied in power generation, cement, steel, chemicals, refining, and hydrogen production, and is considered a critical decarbonization pathway for hard-to-abate sectors.

The carbon capture market is driven by industrial decarbonization needs, net-zero policies, carbon pricing mechanisms, and the global energy transition, and is currently moving from pilot projects toward large-scale deployment. Demand is mainly generated by power, oil & gas, chemicals, cement, and steel industries, with business models relying on government incentives, long-term offtake contracts, and carbon credits. As carbon taxes, emissions trading systems (ETS), and low-carbon hydrogen expand, the market is gradually shifting from policy-driven adoption to economically driven growth, with future expansion focused on large industrial hubs and integrated CCUS projects. This report studies the global Carbon Capture demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Capture, 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 Carbon Capture that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Capture total market, 2021-2032, (USD Million)

Global Carbon Capture total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Carbon Capture total market, key domestic companies, and share, (USD Million)

Global Carbon Capture revenue by player, revenue and market share 2021-2026, (USD Million)

Global Carbon Capture total market by Type, CAGR, 2021-2032, (USD Million)

Global Carbon Capture total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Carbon Capture 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 Exxon Mobil, SLB, Linde PLC, Mitsubishi, Huaneng, BASF, Halliburton, Siemens AG, General Electric, Honeywell UOP, 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 Carbon Capture 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 Carbon Capture Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Capture Market, Segmentation by Type:

Pre-Combustion Carbon Capture

Oxy-Combustion Carbon Capture

Post-Combustion Carbon Capture

Global Carbon Capture Market, Segmentation by Capture Technology:

Amine-based Absorption Systems

Solid Sorbent Adsorption Systems

Membrane Separation Systems

Others

Global Carbon Capture Market, Segmentation by Capture Capacity:

Micro Systems:

Small Systems: 100-1,000 tCO₂/year

Medium-compact Systems: 1,000-10,000 tCO₂/year

Large-scale Systems: >10,000 tCO₂/year

Global Carbon Capture Market, Segmentation by Application:

Oil & Gas

Power Generation

Others

Companies Profiled:

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

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Carbon Capture Consumption Value (2021-2032)
- 2.2 World Carbon Capture Consumption Value by Region
 - 2.2.1 World Carbon Capture Consumption Value by Region (2021-2026)
 - 2.2.2 World Carbon Capture Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Carbon Capture Consumption Value (2021-2032)
- 2.4 China Carbon Capture Consumption Value (2021-2032)
- 2.5 Europe Carbon Capture Consumption Value (2021-2032)
- 2.6 Japan Carbon Capture Consumption Value (2021-2032)
- 2.7 South Korea Carbon Capture Consumption Value (2021-2032)
- 2.8 ASEAN Carbon Capture Consumption Value (2021-2032)
- 2.9 India Carbon Capture Consumption Value (2021-2032)

3 WORLD CARBON CAPTURE COMPANIES COMPETITIVE ANALYSIS

- 3.1 World Carbon Capture Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)

- 3.2.1 Global Carbon Capture Industry Rank of Major Players
- 3.2.2 Global Concentration Ratios (CR4) for Carbon Capture in 2025
- 3.2.3 Global Concentration Ratios (CR8) for Carbon Capture in 2025
- 3.3 Carbon Capture Company Evaluation Quadrant
- 3.4 Carbon Capture Market: Overall Company Footprint Analysis
 - 3.4.1 Carbon Capture Market: Region Footprint
 - 3.4.2 Carbon Capture Market: Company Product Type Footprint
 - 3.4.3 Carbon Capture 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: Carbon Capture Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Carbon Capture Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Carbon Capture Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Carbon Capture Consumption Value Comparison
 - 4.2.1 United States VS China: Carbon Capture Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Carbon Capture Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Carbon Capture Companies and Market Share, 2021-2026
 - 4.3.1 United States Based Carbon Capture Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies Carbon Capture Revenue, (2021-2026)
- 4.4 China Based Companies Carbon Capture Revenue and Market Share, 2021-2026
 - 4.4.1 China Based Carbon Capture Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies Carbon Capture Revenue, (2021-2026)
- 4.5 Rest of World Based Carbon Capture Companies and Market Share, 2021-2026
 - 4.5.1 Rest of World Based Carbon Capture Companies, Headquarters (Province,

Country)

4.5.2 Rest of World Based Companies Carbon Capture Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon Capture Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Pre-Combustion Carbon Capture

5.2.2 Oxy-Combustion Carbon Capture

5.2.3 Post-Combustion Carbon Capture

5.3 Market Segment by Type

5.3.1 World Carbon Capture Market Size by Type (2021-2026)

5.3.2 World Carbon Capture Market Size by Type (2027-2032)

5.3.3 World Carbon Capture Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY CAPTURE TECHNOLOGY

6.1 World Carbon Capture Market Size Overview by Capture Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Capture Technology

6.2.1 Amine-based Absorption Systems

6.2.2 Solid Sorbent Adsorption Systems

6.2.3 Membrane Separation Systems

6.2.4 Others

6.3 Market Segment by Capture Technology

6.3.1 World Carbon Capture Market Size by Capture Technology (2021-2026)

6.3.2 World Carbon Capture Market Size by Capture Technology (2027-2032)

6.3.3 World Carbon Capture Market Size Market Share by Capture Technology (2027-2032)

7 MARKET ANALYSIS BY CAPTURE CAPACITY

7.1 World Carbon Capture Market Size Overview by Capture Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Capture Capacity

7.2.1 Micro Systems: 7.2.2 Small Systems: 100?1,000 tCO₂/year

7.2.3 Medium-compact Systems: 1,000?10,000 tCO₂/year

7.2.4 Large-scale Systems: >10,000 tCO₂/year

7.3 Market Segment by Capture Capacity

- 7.3.1 World Carbon Capture Market Size by Capture Capacity (2021-2026)
- 7.3.2 World Carbon Capture Market Size by Capture Capacity (2027-2032)
- 7.3.3 World Carbon Capture Market Size Market Share by Capture Capacity (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Carbon Capture Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Oil & Gas
 - 8.2.2 Power Generation
 - 8.2.3 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Carbon Capture Market Size by Application (2021-2026)
 - 8.3.2 World Carbon Capture Market Size by Application (2027-2032)
 - 8.3.3 World Carbon Capture Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Exxon Mobil
 - 9.1.1 Exxon Mobil Details
 - 9.1.2 Exxon Mobil Major Business
 - 9.1.3 Exxon Mobil Carbon Capture Product and Services
 - 9.1.4 Exxon Mobil Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Exxon Mobil Recent Developments/Updates
 - 9.1.6 Exxon Mobil Competitive Strengths & Weaknesses
- 9.2 SLB
 - 9.2.1 SLB Details
 - 9.2.2 SLB Major Business
 - 9.2.3 SLB Carbon Capture Product and Services
 - 9.2.4 SLB Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.2.5 SLB Recent Developments/Updates
 - 9.2.6 SLB Competitive Strengths & Weaknesses
- 9.3 Linde PLC
 - 9.3.1 Linde PLC Details
 - 9.3.2 Linde PLC Major Business
 - 9.3.3 Linde PLC Carbon Capture Product and Services

- 9.3.4 Linde PLC Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
- 9.3.5 Linde PLC Recent Developments/Updates
- 9.3.6 Linde PLC Competitive Strengths & Weaknesses
- 9.4 Mitsubishi
 - 9.4.1 Mitsubishi Details
 - 9.4.2 Mitsubishi Major Business
 - 9.4.3 Mitsubishi Carbon Capture Product and Services
 - 9.4.4 Mitsubishi Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Mitsubishi Recent Developments/Updates
 - 9.4.6 Mitsubishi Competitive Strengths & Weaknesses
- 9.5 Huaneng
 - 9.5.1 Huaneng Details
 - 9.5.2 Huaneng Major Business
 - 9.5.3 Huaneng Carbon Capture Product and Services
 - 9.5.4 Huaneng Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Huaneng Recent Developments/Updates
 - 9.5.6 Huaneng Competitive Strengths & Weaknesses
- 9.6 BASF
 - 9.6.1 BASF Details
 - 9.6.2 BASF Major Business
 - 9.6.3 BASF Carbon Capture Product and Services
 - 9.6.4 BASF Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.6.5 BASF Recent Developments/Updates
 - 9.6.6 BASF Competitive Strengths & Weaknesses
- 9.7 Halliburton
 - 9.7.1 Halliburton Details
 - 9.7.2 Halliburton Major Business
 - 9.7.3 Halliburton Carbon Capture Product and Services
 - 9.7.4 Halliburton Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Halliburton Recent Developments/Updates
 - 9.7.6 Halliburton Competitive Strengths & Weaknesses
- 9.8 Siemens AG
 - 9.8.1 Siemens AG Details
 - 9.8.2 Siemens AG Major Business
 - 9.8.3 Siemens AG Carbon Capture Product and Services

- 9.8.4 Siemens AG Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
- 9.8.5 Siemens AG Recent Developments/Updates
- 9.8.6 Siemens AG Competitive Strengths & Weaknesses
- 9.9 General Electric
 - 9.9.1 General Electric Details
 - 9.9.2 General Electric Major Business
 - 9.9.3 General Electric Carbon Capture Product and Services
 - 9.9.4 General Electric Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 General Electric Recent Developments/Updates
 - 9.9.6 General Electric Competitive Strengths & Weaknesses
- 9.10 Honeywell UOP
 - 9.10.1 Honeywell UOP Details
 - 9.10.2 Honeywell UOP Major Business
 - 9.10.3 Honeywell UOP Carbon Capture Product and Services
 - 9.10.4 Honeywell UOP Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Honeywell UOP Recent Developments/Updates
 - 9.10.6 Honeywell UOP Competitive Strengths & Weaknesses
- 9.11 Carbonfree
 - 9.11.1 Carbonfree Details
 - 9.11.2 Carbonfree Major Business
 - 9.11.3 Carbonfree Carbon Capture Product and Services
 - 9.11.4 Carbonfree Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Carbonfree Recent Developments/Updates
 - 9.11.6 Carbonfree Competitive Strengths & Weaknesses
- 9.12 Shell
 - 9.12.1 Shell Details
 - 9.12.2 Shell Major Business
 - 9.12.3 Shell Carbon Capture Product and Services
 - 9.12.4 Shell Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Shell Recent Developments/Updates
 - 9.12.6 Shell Competitive Strengths & Weaknesses
- 9.13 JX Nippon (ENEOS)
 - 9.13.1 JX Nippon (ENEOS) Details
 - 9.13.2 JX Nippon (ENEOS) Major Business
 - 9.13.3 JX Nippon (ENEOS) Carbon Capture Product and Services

9.13.4 JX Nippon (ENEOS) Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 JX Nippon (ENEOS) Recent Developments/Updates

9.13.6 JX Nippon (ENEOS) Competitive Strengths & Weaknesses

9.14 Sulzer

9.14.1 Sulzer Details

9.14.2 Sulzer Major Business

9.14.3 Sulzer Carbon Capture Product and Services

9.14.4 Sulzer Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Sulzer Recent Developments/Updates

9.14.6 Sulzer Competitive Strengths & Weaknesses

9.15 Equinor

9.15.1 Equinor Details

9.15.2 Equinor Major Business

9.15.3 Equinor Carbon Capture Product and Services

9.15.4 Equinor Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Equinor Recent Developments/Updates

9.15.6 Equinor Competitive Strengths & Weaknesses

9.16 Sinopec

9.16.1 Sinopec Details

9.16.2 Sinopec Major Business

9.16.3 Sinopec Carbon Capture Product and Services

9.16.4 Sinopec Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)

9.16.5 Sinopec Recent Developments/Updates

9.16.6 Sinopec Competitive Strengths & Weaknesses

9.17 Fluor Corporation

9.17.1 Fluor Corporation Details

9.17.2 Fluor Corporation Major Business

9.17.3 Fluor Corporation Carbon Capture Product and Services

9.17.4 Fluor Corporation Carbon Capture Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 Fluor Corporation Recent Developments/Updates

9.17.6 Fluor Corporation Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Carbon Capture Industry Chain

- 10.2 Carbon Capture Upstream Analysis
- 10.3 Carbon Capture Midstream Analysis
- 10.4 Carbon Capture 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 Carbon Capture Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Carbon Capture Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Carbon Capture Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Carbon Capture Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Carbon Capture Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

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

Table 8. World Carbon Capture Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Carbon Capture Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Carbon Capture Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Carbon Capture Players in 2025

Table 12. World Carbon Capture Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Carbon Capture Company Evaluation Quadrant

Table 14. Head Office of Key Carbon Capture Players

Table 15. Carbon Capture Market: Company Product Type Footprint

Table 16. Carbon Capture Market: Company Product Application Footprint

Table 17. Carbon Capture Mergers & Acquisitions Activity

Table 18. United States VS China Carbon Capture Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

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

Table 20. United States Based Carbon Capture Companies, Headquarters (States, Country)

Table 21. United States Based Companies Carbon Capture Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Carbon Capture Revenue Market Share

(2021-2026)

Table 23. China Based Carbon Capture Companies, Headquarters (Province, Country)

Table 24. China Based Companies Carbon Capture Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Carbon Capture Revenue Market Share (2021-2026)

Table 26. Rest of World Based Carbon Capture Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Carbon Capture Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Carbon Capture Revenue Market Share (2021-2026)

Table 29. World Carbon Capture Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Carbon Capture Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Carbon Capture Market Size by Type (2027-2032) & (USD Million)

Table 32. World Carbon Capture Market Size by Capture Technology, (USD Million), 2021 & 2025 & 2032

Table 33. World Carbon Capture Market Size Value by Capture Technology (2021-2026) & (USD Million)

Table 34. World Carbon Capture Market Size by Capture Technology (2027-2032) & (USD Million)

Table 35. World Carbon Capture Market Size by Capture Capacity, (USD Million), 2021 & 2025 & 2032

Table 36. World Carbon Capture Market Size Value by Capture Capacity (2021-2026) & (USD Million)

Table 37. World Carbon Capture Market Size by Capture Capacity (2027-2032) & (USD Million)

Table 38. World Carbon Capture Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Carbon Capture Market Size by Application (2021-2026) & (USD Million)

Table 40. World Carbon Capture Market Size by Application (2027-2032) & (USD Million)

Table 41. Exxon Mobil Basic Information, Manufacturing Base and Competitors

Table 42. Exxon Mobil Major Business

Table 43. Exxon Mobil Carbon Capture Product and Services

Table 44. Exxon Mobil Carbon Capture Revenue, Gross Margin and Market Share

(2021-2026) & (USD Million)

Table 45. Exxon Mobil Recent Developments/Updates

Table 46. Exxon Mobil Competitive Strengths & Weaknesses

Table 47. SLB Basic Information, Manufacturing Base and Competitors

Table 48. SLB Major Business

Table 49. SLB Carbon Capture Product and Services

Table 50. SLB Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. SLB Recent Developments/Updates

Table 52. SLB Competitive Strengths & Weaknesses

Table 53. Linde PLC Basic Information, Manufacturing Base and Competitors

Table 54. Linde PLC Major Business

Table 55. Linde PLC Carbon Capture Product and Services

Table 56. Linde PLC Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Linde PLC Recent Developments/Updates

Table 58. Linde PLC Competitive Strengths & Weaknesses

Table 59. Mitsubishi Basic Information, Manufacturing Base and Competitors

Table 60. Mitsubishi Major Business

Table 61. Mitsubishi Carbon Capture Product and Services

Table 62. Mitsubishi Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Mitsubishi Recent Developments/Updates

Table 64. Mitsubishi Competitive Strengths & Weaknesses

Table 65. Huaneng Basic Information, Manufacturing Base and Competitors

Table 66. Huaneng Major Business

Table 67. Huaneng Carbon Capture Product and Services

Table 68. Huaneng Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Huaneng Recent Developments/Updates

Table 70. Huaneng Competitive Strengths & Weaknesses

Table 71. BASF Basic Information, Manufacturing Base and Competitors

Table 72. BASF Major Business

Table 73. BASF Carbon Capture Product and Services

Table 74. BASF Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. BASF Recent Developments/Updates

Table 76. BASF Competitive Strengths & Weaknesses

Table 77. Halliburton Basic Information, Manufacturing Base and Competitors

- Table 78. Halliburton Major Business
- Table 79. Halliburton Carbon Capture Product and Services
- Table 80. Halliburton Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. Halliburton Recent Developments/Updates
- Table 82. Halliburton Competitive Strengths & Weaknesses
- Table 83. Siemens AG Basic Information, Manufacturing Base and Competitors
- Table 84. Siemens AG Major Business
- Table 85. Siemens AG Carbon Capture Product and Services
- Table 86. Siemens AG Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Siemens AG Recent Developments/Updates
- Table 88. Siemens AG Competitive Strengths & Weaknesses
- Table 89. General Electric Basic Information, Manufacturing Base and Competitors
- Table 90. General Electric Major Business
- Table 91. General Electric Carbon Capture Product and Services
- Table 92. General Electric Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. General Electric Recent Developments/Updates
- Table 94. General Electric Competitive Strengths & Weaknesses
- Table 95. Honeywell UOP Basic Information, Manufacturing Base and Competitors
- Table 96. Honeywell UOP Major Business
- Table 97. Honeywell UOP Carbon Capture Product and Services
- Table 98. Honeywell UOP Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Honeywell UOP Recent Developments/Updates
- Table 100. Honeywell UOP Competitive Strengths & Weaknesses
- Table 101. Carbonfree Basic Information, Manufacturing Base and Competitors
- Table 102. Carbonfree Major Business
- Table 103. Carbonfree Carbon Capture Product and Services
- Table 104. Carbonfree Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. Carbonfree Recent Developments/Updates
- Table 106. Carbonfree Competitive Strengths & Weaknesses
- Table 107. Shell Basic Information, Manufacturing Base and Competitors
- Table 108. Shell Major Business
- Table 109. Shell Carbon Capture Product and Services
- Table 110. Shell Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 111. Shell Recent Developments/Updates
- Table 112. Shell Competitive Strengths & Weaknesses
- Table 113. JX Nippon (ENEOS) Basic Information, Manufacturing Base and Competitors
- Table 114. JX Nippon (ENEOS) Major Business
- Table 115. JX Nippon (ENEOS) Carbon Capture Product and Services
- Table 116. JX Nippon (ENEOS) Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 117. JX Nippon (ENEOS) Recent Developments/Updates
- Table 118. JX Nippon (ENEOS) Competitive Strengths & Weaknesses
- Table 119. Sulzer Basic Information, Manufacturing Base and Competitors
- Table 120. Sulzer Major Business
- Table 121. Sulzer Carbon Capture Product and Services
- Table 122. Sulzer Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 123. Sulzer Recent Developments/Updates
- Table 124. Sulzer Competitive Strengths & Weaknesses
- Table 125. Equinor Basic Information, Manufacturing Base and Competitors
- Table 126. Equinor Major Business
- Table 127. Equinor Carbon Capture Product and Services
- Table 128. Equinor Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 129. Equinor Recent Developments/Updates
- Table 130. Equinor Competitive Strengths & Weaknesses
- Table 131. Sinopec Basic Information, Manufacturing Base and Competitors
- Table 132. Sinopec Major Business
- Table 133. Sinopec Carbon Capture Product and Services
- Table 134. Sinopec Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 135. Sinopec Recent Developments/Updates
- Table 136. Sinopec Competitive Strengths & Weaknesses
- Table 137. Fluor Corporation Basic Information, Manufacturing Base and Competitors
- Table 138. Fluor Corporation Major Business
- Table 139. Fluor Corporation Carbon Capture Product and Services
- Table 140. Fluor Corporation Carbon Capture Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 141. Fluor Corporation Recent Developments/Updates
- Table 142. Fluor Corporation Competitive Strengths & Weaknesses
- Table 143. Global Key Players of Carbon Capture Upstream (Raw Materials)

Table 144. Global Carbon Capture Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Capture Picture

Figure 2. World Carbon Capture Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Carbon Capture Total Revenue (2021-2032) & (USD Million)

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

Figure 5. World Carbon Capture Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Carbon Capture Revenue (2021-2032) & (USD Million)

Figure 13. Carbon Capture Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 16. World Carbon Capture Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 18. China Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Carbon Capture Consumption Value (2021-2032) & (USD Million)

Figure 23. India Carbon Capture Consumption Value (2021-2032) & (USD Million)

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

Figure 25. Global Four-firm Concentration Ratios (CR4) for Carbon Capture Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Carbon Capture Markets in 2025

Figure 27. United States VS China: Carbon Capture Revenue Market Share Comparison (2021 & 2025 & 2032)

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

Figure 29. World Carbon Capture Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Carbon Capture Market Size Market Share by Type in 2025

Figure 31. Pre-Combustion Carbon Capture

Figure 32. Oxy-Combustion Carbon Capture

Figure 33. Post-Combustion Carbon Capture

Figure 34. World Carbon Capture Market Size Market Share by Type (2021-2032)

Figure 35. World Carbon Capture Market Size by Capture Technology, (USD Million), 2021 & 2025 & 2032

Figure 36. World Carbon Capture Market Size Market Share by Capture Technology in 2025

Figure 37. Amine-based Absorption Systems

Figure 38. Solid Sorbent Adsorption Systems

Figure 39. Membrane Separation Systems

Figure 40. Others

Figure 41. World Carbon Capture Market Size Market Share by Capture Technology (2021-2032)

Figure 42. World Carbon Capture Market Size by Capture Capacity, (USD Million), 2021 & 2025 & 2032

Figure 43. World Carbon Capture Market Size Market Share by Capture Capacity in 2025

Figure 44. Micro Systems: Figure 45. Small Systems: 100?1,000 tCO₂/year

Figure 46. Medium-compact Systems: 1,000?10,000 tCO₂/year

Figure 47. Large-scale Systems: >10,000 tCO₂/year

Figure 48. World Carbon Capture Market Size Market Share by Capture Capacity (2021-2032)

Figure 49. World Carbon Capture Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Carbon Capture Market Size Market Share by Application in 2025

Figure 51. Oil & Gas

Figure 52. Power Generation

Figure 53. Others

Figure 54. World Carbon Capture Market Size Market Share by Application (2021-2032)

Figure 55. Carbon Capture Industrial Chain

Figure 56. Methodology

Figure 57. Research Process and Data Source

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