

Global Direct Air Capture Adsorbent Material Market Growth 2026-2032

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Abstracts

The global Direct Air Capture Adsorbent Material market size is predicted to grow from US\$ 382 million in 2025 to US\$ 574 million in 2032; it is expected to grow at a CAGR of 4.6% from 2026 to 2032.

Direct Air Capture Adsorbent Material refers to a functional carbon dioxide capture material designed for direct air capture equipment. Its core task is to selectively adsorb carbon dioxide from gas mixtures containing extremely low concentrations of carbon dioxide along with nitrogen, oxygen, water vapor, and other components under ambient-temperature, ambient-pressure, or low-pressure air conditions, and to release high-concentration carbon dioxide through heating, vacuum, electrochemical processes, humidity changes, or mineral cycling, thereby enabling repeated material reuse. These materials typically include amine-functionalized porous supports, metal-organic frameworks, ion-exchange resins, nanostructured polymers, molecular sieves, carbonate minerals, and structured composite filter media, and are commonly processed into granules, coatings, fibers, honeycombs, spherical filter media, or modular contactors. Their value lies not only in adsorption capacity, but also in low regeneration energy consumption, low pressure drop, resistance to humidity and thermal aging, cycle life, scalable manufacturing, and process compatibility with DAC modules. Typical applications include permanent carbon storage, carbon supply for synthetic fuels, greenhouse carbon dioxide enrichment, replacement of beverage-grade and industrial carbon dioxide, corporate carbon removal credits, and pilot-scale research validation. Major customers include DAC equipment manufacturers, carbon removal project developers, low-carbon fuel companies, carbon credit buyers, and materials co-development partners.

Direct air capture adsorbent materials sit at the core of the DAC technology chain

because they determine air-contact efficiency, carbon dioxide selectivity, regeneration temperature, cycle life and system-level energy consumption. Since carbon dioxide in ambient air is far more diluted than in industrial flue gas, these materials must maintain strong adsorption capacity under low partial-pressure conditions while remaining stable under humidity, temperature fluctuations and long-term cycling. Current commercialization routes mainly involve amine-functionalized porous materials, structured composite filter media, ion-exchange resins, nanostructured polymers, metal-organic frameworks and mineral cycling materials. Mature routes emphasize engineering reliability, while emerging routes focus on higher capacity, faster kinetics and lower energy demand. Competition is no longer based on material metrics alone, but on the integrated performance of materials, supports, airflow channels, regeneration methods and module manufacturing.

The commercialization of direct air capture adsorbent materials is driven by the carbon removal market, corporate net-zero commitments, policy incentives and demand for low-carbon fuels. As DAC projects move from small demonstration units to modular plants, adsorbent materials are expected to shift from laboratory consumables to critical operating materials with recurring procurement and replacement demand. Customers increasingly focus on real-world performance, including humidity tolerance, regeneration energy, degradation rate, manufacturing consistency and supply stability. For material suppliers, selling powders or resins alone may not capture the highest value. The more important opportunity is to participate in contactor design, filter packaging, system validation and long-term supply agreements, thereby entering the supply chains of DAC equipment companies and carbon removal project developers.

The market for direct air capture adsorbent materials remains in an early high-growth stage. Near-term scale is constrained by DAC deployment, carbon credit procurement and storage infrastructure, but the long-term growth logic is clear. The United States and Europe are likely to form the first project-driven markets, while Japan and Canada have strengths in engineering and material validation. Emerging regions may host deployment by combining low-carbon energy and favorable geological storage conditions. Material prices may not decline uniformly, because high-performance materials can command premiums through longer cycle life, lower regeneration energy and higher annual capture per unit of material. However, the cost per ton of carbon dioxide captured should improve as material intensity falls, manufacturing scales, contactors become standardized and regeneration energy declines. Therefore, this product should be studied as a combined material, structure and system-validation industry rather than as a conventional chemical adsorbent market.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Direct Air Capture Adsorbent Material and breaks down the forecast by Capture Mechanism, 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 Direct Air Capture Adsorbent Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Direct Air Capture Adsorbent Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Capture Mechanism:

Chemisorption Adsorbent Material

Physisorption Adsorbent Material

Other

Segmentation by System Position:

Filter Cartridge Integrated Material

Contactor Integrated Material

Passive Air-Contact Material

Moving-Bed Circulating Material

Fixed-Bed Cycling Material

Segmentation by Delivery Form:

Granular Filter Media

Coated Filter Media

Fibrous Filter Media

Honeycomb Filter Media

Spherical Filter Media

Structured Contactor

Segmentation by Application:

Permanent Storage

Carbon Supply for Synthetic Fuels

Carbon Dioxide Supply for Greenhouse Agriculture

Industrial Carbon Dioxide Replacement

Corporate Carbon Removal Credit

Research and Pilot Validation

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

Climeworks

CarbonCapture Inc.

W. L. Gore & Associates

Ecolab Purolite

Skytree

Heirloom Carbon

Verdox

Atoco

Baker Hughes

Svante

Kawasaki Heavy Industries

Carbyon

Spiritus

Sirona Technologies

Octavia Carbon

Sustaera

Key Questions Addressed in this Report

What is the 10-year outlook for the global Direct Air Capture Adsorbent Material market?

What factors are driving Direct Air Capture Adsorbent Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Direct Air Capture Adsorbent Material market opportunities vary by end market size?

How does Direct Air Capture Adsorbent Material break out by Capture Mechanism, by Application?

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 Direct Air Capture Adsorbent Material Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Direct Air Capture Adsorbent Material by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Direct Air Capture Adsorbent Material by Country/Region, 2021, 2025 & 2032
- 2.2 Direct Air Capture Adsorbent Material Segment by Capture Mechanism
 - 2.2.1 Chemisorption Adsorbent Material
 - 2.2.2 Physisorption Adsorbent Material
 - 2.2.3 Other
 - 2.2.4 Direct Air Capture Adsorbent Material Sales by Capture Mechanism
 - 2.2.4.1 Global Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)
 - 2.2.4.2 Global Direct Air Capture Adsorbent Material Revenue and Market Share by Capture Mechanism (2021-2026)
 - 2.2.4.3 Global Direct Air Capture Adsorbent Material Sale Price by Capture Mechanism (2021-2026)

2.3 Direct Air Capture Adsorbent Material Segment by System Position

- 2.3.1 Filter Cartridge Integrated Material
- 2.3.2 Contactor Integrated Material
- 2.3.3 Passive Air-Contact Material
- 2.3.4 Moving-Bed Circulating Material
- 2.3.5 Fixed-Bed Cycling Material
- 2.3.6 Direct Air Capture Adsorbent Material Sales by System Position

2.3.6.1 Global Direct Air Capture Adsorbent Material Sales Market Share by System Position (2021-2026)

2.3.6.2 Global Direct Air Capture Adsorbent Material Revenue and Market Share by System Position (2021-2026)

2.3.6.3 Global Direct Air Capture Adsorbent Material Sale Price by System Position (2021-2026)

2.4 Direct Air Capture Adsorbent Material Segment by Delivery Form

2.4.1 Granular Filter Media

2.4.2 Coated Filter Media

2.4.3 Fibrous Filter Media

2.4.4 Honeycomb Filter Media

2.4.5 Spherical Filter Media

2.4.6 Structured Contactor

2.4.7 Direct Air Capture Adsorbent Material Sales by Delivery Form

2.4.7.1 Global Direct Air Capture Adsorbent Material Sales Market Share by Delivery Form (2021-2026)

2.4.7.2 Global Direct Air Capture Adsorbent Material Revenue and Market Share by Delivery Form (2021-2026)

2.4.7.3 Global Direct Air Capture Adsorbent Material Sale Price by Delivery Form (2021-2026)

2.5 Direct Air Capture Adsorbent Material Segment by Application

2.5.1 Permanent Storage

2.5.2 Carbon Supply for Synthetic Fuels

2.5.3 Carbon Dioxide Supply for Greenhouse Agriculture

2.5.4 Industrial Carbon Dioxide Replacement

2.5.5 Corporate Carbon Removal Credit

2.5.6 Research and Pilot Validation

2.5.7 Direct Air Capture Adsorbent Material Sales by Application

2.5.7.1 Global Direct Air Capture Adsorbent Material Sale Market Share by Application (2021-2026)

2.5.7.2 Global Direct Air Capture Adsorbent Material Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Direct Air Capture Adsorbent Material Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Direct Air Capture Adsorbent Material Breakdown Data by Company

3.1.1 Global Direct Air Capture Adsorbent Material Annual Sales by Company

(2021-2026)

3.1.2 Global Direct Air Capture Adsorbent Material Sales Market Share by Company

(2021-2026)

3.2 Global Direct Air Capture Adsorbent Material Annual Revenue by Company

(2021-2026)

3.2.1 Global Direct Air Capture Adsorbent Material Revenue by Company (2021-2026)

3.2.2 Global Direct Air Capture Adsorbent Material Revenue Market Share by Company (2021-2026)

3.3 Global Direct Air Capture Adsorbent Material Sale Price by Company

3.4 Key Manufacturers Direct Air Capture Adsorbent Material Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Direct Air Capture Adsorbent Material Product Location Distribution

3.4.2 Players Direct Air Capture Adsorbent Material Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

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

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DIRECT AIR CAPTURE ADSORBENT MATERIAL BY GEOGRAPHIC REGION

4.1 World Historic Direct Air Capture Adsorbent Material Market Size by Geographic Region (2021-2026)

4.1.1 Global Direct Air Capture Adsorbent Material Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Direct Air Capture Adsorbent Material Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Direct Air Capture Adsorbent Material Market Size by Country/Region (2021-2026)

4.2.1 Global Direct Air Capture Adsorbent Material Annual Sales by Country/Region (2021-2026)

4.2.2 Global Direct Air Capture Adsorbent Material Annual Revenue by Country/Region (2021-2026)

4.3 Americas Direct Air Capture Adsorbent Material Sales Growth

4.4 APAC Direct Air Capture Adsorbent Material Sales Growth

4.5 Europe Direct Air Capture Adsorbent Material Sales Growth

4.6 Middle East & Africa Direct Air Capture Adsorbent Material Sales Growth

5 AMERICAS

5.1 Americas Direct Air Capture Adsorbent Material Sales by Country

5.1.1 Americas Direct Air Capture Adsorbent Material Sales by Country (2021-2026)

5.1.2 Americas Direct Air Capture Adsorbent Material Revenue by Country (2021-2026)

5.2 Americas Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026)

5.3 Americas Direct Air Capture Adsorbent Material Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Direct Air Capture Adsorbent Material Sales by Region

6.1.1 APAC Direct Air Capture Adsorbent Material Sales by Region (2021-2026)

6.1.2 APAC Direct Air Capture Adsorbent Material Revenue by Region (2021-2026)

6.2 APAC Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026)

6.3 APAC Direct Air Capture Adsorbent Material Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Direct Air Capture Adsorbent Material by Country

7.1.1 Europe Direct Air Capture Adsorbent Material Sales by Country (2021-2026)

7.1.2 Europe Direct Air Capture Adsorbent Material Revenue by Country (2021-2026)

7.2 Europe Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026)

7.3 Europe Direct Air Capture Adsorbent Material Sales 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 Direct Air Capture Adsorbent Material by Country

8.1.1 Middle East & Africa Direct Air Capture Adsorbent Material Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Direct Air Capture Adsorbent Material Revenue by Country
(2021-2026)

8.2 Middle East & Africa Direct Air Capture Adsorbent Material Sales by Capture
Mechanism (2021-2026)

8.3 Middle East & Africa Direct Air Capture Adsorbent Material Sales 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 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Direct Air Capture Adsorbent Material

10.3 Manufacturing Process Analysis of Direct Air Capture Adsorbent Material

10.4 Industry Chain Structure of Direct Air Capture Adsorbent Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Direct Air Capture Adsorbent Material Distributors
- 11.3 Direct Air Capture Adsorbent Material Customer

12 WORLD FORECAST REVIEW FOR DIRECT AIR CAPTURE ADSORBENT MATERIAL BY GEOGRAPHIC REGION

- 12.1 Global Direct Air Capture Adsorbent Material Market Size Forecast by Region
 - 12.1.1 Global Direct Air Capture Adsorbent Material Forecast by Region (2027-2032)
 - 12.1.2 Global Direct Air Capture Adsorbent Material Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Direct Air Capture Adsorbent Material Forecast by Capture Mechanism (2027-2032)
- 12.7 Global Direct Air Capture Adsorbent Material Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Climeworks
 - 13.1.1 Climeworks Company Information
 - 13.1.2 Climeworks Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.1.3 Climeworks Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Climeworks Main Business Overview
 - 13.1.5 Climeworks Latest Developments
- 13.2 CarbonCapture Inc.
 - 13.2.1 CarbonCapture Inc. Company Information
 - 13.2.2 CarbonCapture Inc. Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.2.3 CarbonCapture Inc. Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 CarbonCapture Inc. Main Business Overview
 - 13.2.5 CarbonCapture Inc. Latest Developments
- 13.3 W. L. Gore & Associates

- 13.3.1 W. L. Gore & Associates Company Information
- 13.3.2 W. L. Gore & Associates Direct Air Capture Adsorbent Material Product Portfolios and Specifications
- 13.3.3 W. L. Gore & Associates Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 W. L. Gore & Associates Main Business Overview
- 13.3.5 W. L. Gore & Associates Latest Developments
- 13.4 Ecolab Purolite
 - 13.4.1 Ecolab Purolite Company Information
 - 13.4.2 Ecolab Purolite Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.4.3 Ecolab Purolite Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Ecolab Purolite Main Business Overview
 - 13.4.5 Ecolab Purolite Latest Developments
- 13.5 Skytree
 - 13.5.1 Skytree Company Information
 - 13.5.2 Skytree Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.5.3 Skytree Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Skytree Main Business Overview
 - 13.5.5 Skytree Latest Developments
- 13.6 Heirloom Carbon
 - 13.6.1 Heirloom Carbon Company Information
 - 13.6.2 Heirloom Carbon Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.6.3 Heirloom Carbon Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Heirloom Carbon Main Business Overview
 - 13.6.5 Heirloom Carbon Latest Developments
- 13.7 Verdox
 - 13.7.1 Verdox Company Information
 - 13.7.2 Verdox Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.7.3 Verdox Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Verdox Main Business Overview
 - 13.7.5 Verdox Latest Developments

13.8 Atoco

13.8.1 Atoco Company Information

13.8.2 Atoco Direct Air Capture Adsorbent Material Product Portfolios and Specifications

13.8.3 Atoco Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Atoco Main Business Overview

13.8.5 Atoco Latest Developments

13.9 Baker Hughes

13.9.1 Baker Hughes Company Information

13.9.2 Baker Hughes Direct Air Capture Adsorbent Material Product Portfolios and Specifications

13.9.3 Baker Hughes Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Baker Hughes Main Business Overview

13.9.5 Baker Hughes Latest Developments

13.10 Svante

13.10.1 Svante Company Information

13.10.2 Svante Direct Air Capture Adsorbent Material Product Portfolios and Specifications

13.10.3 Svante Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Svante Main Business Overview

13.10.5 Svante Latest Developments

13.11 Kawasaki Heavy Industries

13.11.1 Kawasaki Heavy Industries Company Information

13.11.2 Kawasaki Heavy Industries Direct Air Capture Adsorbent Material Product Portfolios and Specifications

13.11.3 Kawasaki Heavy Industries Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Kawasaki Heavy Industries Main Business Overview

13.11.5 Kawasaki Heavy Industries Latest Developments

13.12 Carbyon

13.12.1 Carbyon Company Information

13.12.2 Carbyon Direct Air Capture Adsorbent Material Product Portfolios and Specifications

13.12.3 Carbyon Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Carbyon Main Business Overview

- 13.12.5 Carbyon Latest Developments
- 13.13 Spiritus
 - 13.13.1 Spiritus Company Information
 - 13.13.2 Spiritus Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.13.3 Spiritus Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Spiritus Main Business Overview
 - 13.13.5 Spiritus Latest Developments
- 13.14 Sirona Technologies
 - 13.14.1 Sirona Technologies Company Information
 - 13.14.2 Sirona Technologies Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.14.3 Sirona Technologies Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Sirona Technologies Main Business Overview
 - 13.14.5 Sirona Technologies Latest Developments
- 13.15 Octavia Carbon
 - 13.15.1 Octavia Carbon Company Information
 - 13.15.2 Octavia Carbon Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.15.3 Octavia Carbon Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Octavia Carbon Main Business Overview
 - 13.15.5 Octavia Carbon Latest Developments
- 13.16 Sustaera
 - 13.16.1 Sustaera Company Information
 - 13.16.2 Sustaera Direct Air Capture Adsorbent Material Product Portfolios and Specifications
 - 13.16.3 Sustaera Direct Air Capture Adsorbent Material Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Sustaera Main Business Overview
 - 13.16.5 Sustaera Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Direct Air Capture Adsorbent Material Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Direct Air Capture Adsorbent Material Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Chemisorption Adsorbent Material

Table 4. Major Players of Physisorption Adsorbent Material

Table 5. Major Players of Other

Table 6. Global Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026) & (Tons)

Table 7. Global Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)

Table 8. Global Direct Air Capture Adsorbent Material Revenue by Capture Mechanism (2021-2026) & (\$ million)

Table 9. Global Direct Air Capture Adsorbent Material Revenue Market Share by Capture Mechanism (2021-2026)

Table 10. Global Direct Air Capture Adsorbent Material Sale Price by Capture Mechanism (2021-2026) & (US\$/Ton)

Table 11. Major Players of Filter Cartridge Integrated Material

Table 12. Major Players of Contactor Integrated Material

Table 13. Major Players of Passive Air-Contact Material

Table 14. Major Players of Moving-Bed Circulating Material

Table 15. Major Players of Fixed-Bed Cycling Material

Table 16. Global Direct Air Capture Adsorbent Material Sales by System Position (2021-2026) & (Tons)

Table 17. Global Direct Air Capture Adsorbent Material Sales Market Share by System Position (2021-2026)

Table 18. Global Direct Air Capture Adsorbent Material Revenue by System Position (2021-2026) & (\$ million)

Table 19. Global Direct Air Capture Adsorbent Material Revenue Market Share by System Position (2021-2026)

Table 20. Global Direct Air Capture Adsorbent Material Sale Price by System Position (2021-2026) & (US\$/Ton)

Table 21. Major Players of Granular Filter Media

Table 22. Major Players of Coated Filter Media

Table 23. Major Players of Fibrous Filter Media

Table 24. Major Players of Honeycomb Filter Media

Table 25. Major Players of Spherical Filter Media

Table 26. Major Players of Structured Contactor

Table 27. Global Direct Air Capture Adsorbent Material Sales by Delivery Form
(2021-2026) & (Tons)

Table 28. Global Direct Air Capture Adsorbent Material Sales Market Share by Delivery
Form (2021-2026)

Table 29. Global Direct Air Capture Adsorbent Material Revenue by Delivery Form
(2021-2026) & (\$ million)

Table 30. Global Direct Air Capture Adsorbent Material Revenue Market Share by
Delivery Form (2021-2026)

Table 31. Global Direct Air Capture Adsorbent Material Sale Price by Delivery Form
(2021-2026) & (US\$/Ton)

Table 32. Global Direct Air Capture Adsorbent Material Sale by Application (2021-2026)
& (Tons)

Table 33. Global Direct Air Capture Adsorbent Material Sale Market Share by
Application (2021-2026)

Table 34. Global Direct Air Capture Adsorbent Material Revenue by Application
(2021-2026) & (\$ million)

Table 35. Global Direct Air Capture Adsorbent Material Revenue Market Share by
Application (2021-2026)

Table 36. Global Direct Air Capture Adsorbent Material Sale Price by Application
(2021-2026) & (US\$/Ton)

Table 37. Global Direct Air Capture Adsorbent Material Sales by Company (2021-2026)
& (Tons)

Table 38. Global Direct Air Capture Adsorbent Material Sales Market Share by
Company (2021-2026)

Table 39. Global Direct Air Capture Adsorbent Material Revenue by Company
(2021-2026) & (\$ millions)

Table 40. Global Direct Air Capture Adsorbent Material Revenue Market Share by
Company (2021-2026)

Table 41. Global Direct Air Capture Adsorbent Material Sale Price by Company
(2021-2026) & (US\$/Ton)

Table 42. Key Manufacturers Direct Air Capture Adsorbent Material Producing Area
Distribution and Sales Area

Table 43. Players Direct Air Capture Adsorbent Material Products Offered

Table 44. Direct Air Capture Adsorbent Material Concentration Ratio (CR3, CR5 and
CR10) & (2024-2026)

Table 45. New Products and Potential Entrants

Table 46. Market M&A Activity & Strategy

Table 47. Global Direct Air Capture Adsorbent Material Sales by Geographic Region (2021-2026) & (Tons)

Table 48. Global Direct Air Capture Adsorbent Material Sales Market Share Geographic Region (2021-2026)

Table 49. Global Direct Air Capture Adsorbent Material Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 50. Global Direct Air Capture Adsorbent Material Revenue Market Share by Geographic Region (2021-2026)

Table 51. Global Direct Air Capture Adsorbent Material Sales by Country/Region (2021-2026) & (Tons)

Table 52. Global Direct Air Capture Adsorbent Material Sales Market Share by Country/Region (2021-2026)

Table 53. Global Direct Air Capture Adsorbent Material Revenue by Country/Region (2021-2026) & (\$ millions)

Table 54. Global Direct Air Capture Adsorbent Material Revenue Market Share by Country/Region (2021-2026)

Table 55. Americas Direct Air Capture Adsorbent Material Sales by Country (2021-2026) & (Tons)

Table 56. Americas Direct Air Capture Adsorbent Material Sales Market Share by Country (2021-2026)

Table 57. Americas Direct Air Capture Adsorbent Material Revenue by Country (2021-2026) & (\$ millions)

Table 58. Americas Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026) & (Tons)

Table 59. Americas Direct Air Capture Adsorbent Material Sales by Application (2021-2026) & (Tons)

Table 60. APAC Direct Air Capture Adsorbent Material Sales by Region (2021-2026) & (Tons)

Table 61. APAC Direct Air Capture Adsorbent Material Sales Market Share by Region (2021-2026)

Table 62. APAC Direct Air Capture Adsorbent Material Revenue by Region (2021-2026) & (\$ millions)

Table 63. APAC Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026) & (Tons)

Table 64. APAC Direct Air Capture Adsorbent Material Sales by Application (2021-2026) & (Tons)

Table 65. Europe Direct Air Capture Adsorbent Material Sales by Country (2021-2026) & (Tons)

Table 66. Europe Direct Air Capture Adsorbent Material Revenue by Country (2021-2026) & (\$ millions)
Table 67. Europe Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026) & (Tons)
Table 68. Europe Direct Air Capture Adsorbent Material Sales by Application (2021-2026) & (Tons)
Table 69. Middle East & Africa Direct Air Capture Adsorbent Material Sales by Country (2021-2026) & (Tons)
Table 70. Middle East & Africa Direct Air Capture Adsorbent Material Revenue Market Share by Country (2021-2026)
Table 71. Middle East & Africa Direct Air Capture Adsorbent Material Sales by Capture Mechanism (2021-2026) & (Tons)
Table 72. Middle East & Africa Direct Air Capture Adsorbent Material Sales by Application (2021-2026) & (Tons)
Table 73. Key Market Drivers & Growth Opportunities of Direct Air Capture Adsorbent Material
Table 74. Key Market Challenges & Risks of Direct Air Capture Adsorbent Material
Table 75. Key Industry Trends of Direct Air Capture Adsorbent Material
Table 76. Direct Air Capture Adsorbent Material Raw Material
Table 77. Key Suppliers of Raw Materials
Table 78. Direct Air Capture Adsorbent Material Distributors List
Table 79. Direct Air Capture Adsorbent Material Customer List
Table 80. Global Direct Air Capture Adsorbent Material Sales Forecast by Region (2027-2032) & (Tons)
Table 81. Global Direct Air Capture Adsorbent Material Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Americas Direct Air Capture Adsorbent Material Sales Forecast by Country (2027-2032) & (Tons)
Table 83. Americas Direct Air Capture Adsorbent Material Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. APAC Direct Air Capture Adsorbent Material Sales Forecast by Region (2027-2032) & (Tons)
Table 85. APAC Direct Air Capture Adsorbent Material Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 86. Europe Direct Air Capture Adsorbent Material Sales Forecast by Country (2027-2032) & (Tons)
Table 87. Europe Direct Air Capture Adsorbent Material Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 88. Middle East & Africa Direct Air Capture Adsorbent Material Sales Forecast by

Country (2027-2032) & (Tons)

Table 89. Middle East & Africa Direct Air Capture Adsorbent Material Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 90. Global Direct Air Capture Adsorbent Material Sales Forecast by Capture Mechanism (2027-2032) & (Tons)

Table 91. Global Direct Air Capture Adsorbent Material Revenue Forecast by Capture Mechanism (2027-2032) & (\$ millions)

Table 92. Global Direct Air Capture Adsorbent Material Sales Forecast by Application (2027-2032) & (Tons)

Table 93. Global Direct Air Capture Adsorbent Material Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 94. Climeworks Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 95. Climeworks Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 96. Climeworks Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 97. Climeworks Main Business

Table 98. Climeworks Latest Developments

Table 99. CarbonCapture Inc. Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 100. CarbonCapture Inc. Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 101. CarbonCapture Inc. Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 102. CarbonCapture Inc. Main Business

Table 103. CarbonCapture Inc. Latest Developments

Table 104. W. L. Gore & Associates Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 105. W. L. Gore & Associates Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 106. W. L. Gore & Associates Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 107. W. L. Gore & Associates Main Business

Table 108. W. L. Gore & Associates Latest Developments

Table 109. Ecolab Purolite Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 110. Ecolab Purolite Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 111. Ecolab Purolite Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 112. Ecolab Purolite Main Business

Table 113. Ecolab Purolite Latest Developments

Table 114. Skytree Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 115. Skytree Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 116. Skytree Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 117. Skytree Main Business

Table 118. Skytree Latest Developments

Table 119. Heirloom Carbon Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 120. Heirloom Carbon Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 121. Heirloom Carbon Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 122. Heirloom Carbon Main Business

Table 123. Heirloom Carbon Latest Developments

Table 124. Verdox Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 125. Verdox Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 126. Verdox Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 127. Verdox Main Business

Table 128. Verdox Latest Developments

Table 129. Atoco Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 130. Atoco Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 131. Atoco Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 132. Atoco Main Business

Table 133. Atoco Latest Developments

Table 134. Baker Hughes Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 135. Baker Hughes Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Specifications

Table 136. Baker Hughes Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 137. Baker Hughes Main Business

Table 138. Baker Hughes Latest Developments

Table 139. Svante Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 140. Svante Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 141. Svante Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 142. Svante Main Business

Table 143. Svante Latest Developments

Table 144. Kawasaki Heavy Industries Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 145. Kawasaki Heavy Industries Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 146. Kawasaki Heavy Industries Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 147. Kawasaki Heavy Industries Main Business

Table 148. Kawasaki Heavy Industries Latest Developments

Table 149. Carbyon Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 150. Carbyon Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 151. Carbyon Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 152. Carbyon Main Business

Table 153. Carbyon Latest Developments

Table 154. Spiritus Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 155. Spiritus Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 156. Spiritus Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 157. Spiritus Main Business

Table 158. Spiritus Latest Developments

Table 159. Sirona Technologies Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 160. Sirona Technologies Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 161. Sirona Technologies Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 162. Sirona Technologies Main Business

Table 163. Sirona Technologies Latest Developments

Table 164. Octavia Carbon Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 165. Octavia Carbon Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 166. Octavia Carbon Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 167. Octavia Carbon Main Business

Table 168. Octavia Carbon Latest Developments

Table 169. Sustaera Basic Information, Direct Air Capture Adsorbent Material Manufacturing Base, Sales Area and Its Competitors

Table 170. Sustaera Direct Air Capture Adsorbent Material Product Portfolios and Specifications

Table 171. Sustaera Direct Air Capture Adsorbent Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 172. Sustaera Main Business

Table 173. Sustaera Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Direct Air Capture Adsorbent Material
- Figure 2. Direct Air Capture Adsorbent Material Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Direct Air Capture Adsorbent Material Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Direct Air Capture Adsorbent Material Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Direct Air Capture Adsorbent Material Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Direct Air Capture Adsorbent Material Sales Market Share by Country/Region (2025)
- Figure 10. Direct Air Capture Adsorbent Material Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Chemisorption Adsorbent Material
- Figure 12. Product Picture of Physisorption Adsorbent Material
- Figure 13. Product Picture of Other
- Figure 14. Global Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism in 2026
- Figure 15. Global Direct Air Capture Adsorbent Material Revenue Market Share by Capture Mechanism (2021-2026)
- Figure 16. Product Picture of Filter Cartridge Integrated Material
- Figure 17. Product Picture of Contactor Integrated Material
- Figure 18. Product Picture of Passive Air-Contact Material
- Figure 19. Product Picture of Moving-Bed Circulating Material
- Figure 20. Product Picture of Fixed-Bed Cycling Material
- Figure 21. Global Direct Air Capture Adsorbent Material Sales Market Share by System Position in 2026
- Figure 22. Global Direct Air Capture Adsorbent Material Revenue Market Share by System Position (2021-2026)
- Figure 23. Product Picture of Granular Filter Media
- Figure 24. Product Picture of Coated Filter Media
- Figure 25. Product Picture of Fibrous Filter Media
- Figure 26. Product Picture of Honeycomb Filter Media

Figure 27. Product Picture of Spherical Filter Media

Figure 28. Product Picture of Structured Contactor

Figure 29. Global Direct Air Capture Adsorbent Material Sales Market Share by Delivery Form in 2026

Figure 30. Global Direct Air Capture Adsorbent Material Revenue Market Share by Delivery Form (2021-2026)

Figure 31. Direct Air Capture Adsorbent Material Consumed in Permanent Storage

Figure 32. Global Direct Air Capture Adsorbent Material Market: Permanent Storage (2021-2026) & (Tons)

Figure 33. Direct Air Capture Adsorbent Material Consumed in Carbon Supply for Synthetic Fuels

Figure 34. Global Direct Air Capture Adsorbent Material Market: Carbon Supply for Synthetic Fuels (2021-2026) & (Tons)

Figure 35. Direct Air Capture Adsorbent Material Consumed in Carbon Dioxide Supply for Greenhouse Agriculture

Figure 36. Global Direct Air Capture Adsorbent Material Market: Carbon Dioxide Supply for Greenhouse Agriculture (2021-2026) & (Tons)

Figure 37. Direct Air Capture Adsorbent Material Consumed in Industrial Carbon Dioxide Replacement

Figure 38. Global Direct Air Capture Adsorbent Material Market: Industrial Carbon Dioxide Replacement (2021-2026) & (Tons)

Figure 39. Direct Air Capture Adsorbent Material Consumed in Corporate Carbon Removal Credit

Figure 40. Global Direct Air Capture Adsorbent Material Market: Corporate Carbon Removal Credit (2021-2026) & (Tons)

Figure 41. Direct Air Capture Adsorbent Material Consumed in Research and Pilot Validation

Figure 42. Global Direct Air Capture Adsorbent Material Market: Research and Pilot Validation (2021-2026) & (Tons)

Figure 43. Global Direct Air Capture Adsorbent Material Sale Market Share by Application (2025)

Figure 44. Global Direct Air Capture Adsorbent Material Revenue Market Share by Application in 2025

Figure 45. Direct Air Capture Adsorbent Material Sales by Company in 2025 (Tons)

Figure 46. Global Direct Air Capture Adsorbent Material Sales Market Share by Company in 2025

Figure 47. Direct Air Capture Adsorbent Material Revenue by Company in 2025 (\$ millions)

Figure 48. Global Direct Air Capture Adsorbent Material Revenue Market Share by

Company in 2025

Figure 49. Global Direct Air Capture Adsorbent Material Sales Market Share by Geographic Region (2021-2026)

Figure 50. Global Direct Air Capture Adsorbent Material Revenue Market Share by Geographic Region in 2025

Figure 51. Americas Direct Air Capture Adsorbent Material Sales 2021-2026 (Tons)

Figure 52. Americas Direct Air Capture Adsorbent Material Revenue 2021-2026 (\$ millions)

Figure 53. APAC Direct Air Capture Adsorbent Material Sales 2021-2026 (Tons)

Figure 54. APAC Direct Air Capture Adsorbent Material Revenue 2021-2026 (\$ millions)

Figure 55. Europe Direct Air Capture Adsorbent Material Sales 2021-2026 (Tons)

Figure 56. Europe Direct Air Capture Adsorbent Material Revenue 2021-2026 (\$ millions)

Figure 57. Middle East & Africa Direct Air Capture Adsorbent Material Sales 2021-2026 (Tons)

Figure 58. Middle East & Africa Direct Air Capture Adsorbent Material Revenue 2021-2026 (\$ millions)

Figure 59. Americas Direct Air Capture Adsorbent Material Sales Market Share by Country in 2025

Figure 60. Americas Direct Air Capture Adsorbent Material Revenue Market Share by Country (2021-2026)

Figure 61. Americas Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)

Figure 62. Americas Direct Air Capture Adsorbent Material Sales Market Share by Application (2021-2026)

Figure 63. United States Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 64. Canada Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 65. Mexico Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 66. Brazil Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 67. APAC Direct Air Capture Adsorbent Material Sales Market Share by Region in 2025

Figure 68. APAC Direct Air Capture Adsorbent Material Revenue Market Share by Region (2021-2026)

Figure 69. APAC Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)

Figure 70. APAC Direct Air Capture Adsorbent Material Sales Market Share by Application (2021-2026)

Figure 71. China Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 72. Japan Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Korea Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 74. Southeast Asia Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 75. India Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 76. Australia Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 77. China Taiwan Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 78. Europe Direct Air Capture Adsorbent Material Sales Market Share by Country in 2025

Figure 79. Europe Direct Air Capture Adsorbent Material Revenue Market Share by Country (2021-2026)

Figure 80. Europe Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)

Figure 81. Europe Direct Air Capture Adsorbent Material Sales Market Share by Application (2021-2026)

Figure 82. Germany Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 83. France Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 84. UK Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 85. Italy Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 86. Russia Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 87. Middle East & Africa Direct Air Capture Adsorbent Material Sales Market Share by Country (2021-2026)

Figure 88. Middle East & Africa Direct Air Capture Adsorbent Material Sales Market Share by Capture Mechanism (2021-2026)

Figure 89. Middle East & Africa Direct Air Capture Adsorbent Material Sales Market

Share by Application (2021-2026)

Figure 90. Egypt Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 91. South Africa Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 92. Israel Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 93. Turkey Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 94. GCC Countries Direct Air Capture Adsorbent Material Revenue Growth 2021-2026 (\$ millions)

Figure 95. Manufacturing Cost Structure Analysis of Direct Air Capture Adsorbent Material in 2026

Figure 96. Manufacturing Process Analysis of Direct Air Capture Adsorbent Material

Figure 97. Industry Chain Structure of Direct Air Capture Adsorbent Material

Figure 98. Channels of Distribution

Figure 99. Global Direct Air Capture Adsorbent Material Sales Market Forecast by Region (2027-2032)

Figure 100. Global Direct Air Capture Adsorbent Material Revenue Market Share Forecast by Region (2027-2032)

Figure 101. Global Direct Air Capture Adsorbent Material Sales Market Share Forecast by Capture Mechanism (2027-2032)

Figure 102. Global Direct Air Capture Adsorbent Material Revenue Market Share Forecast by Capture Mechanism (2027-2032)

Figure 103. Global Direct Air Capture Adsorbent Material Sales Market Share Forecast by Application (2027-2032)

Figure 104. Global Direct Air Capture Adsorbent Material Revenue Market Share Forecast by Application (2027-2032)

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