

# **Carbon Capture Materials Market by Material (Liquid Solvents, Solid Solvents, Membranes), Process (Absorption, Adsorption), Technique (Pre-Combustion, Post combustion, Oxyfuel combustion, Direct air capture), End-Use Industry (Power Generation, Oil & Gas, Chemical & Petrochemical, Metal & Mining, Industrial, and Other End-use Industries) & Region - Forecast to 2030**

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## **Abstracts**

The carbon capture materials market is projected to grow from USD 66,904.7 million in 2025 to USD 99,098.5 million by 2030, registering a CAGR of 8.2% during the forecast period.

Key factors accelerating the carbon capture materials market include stringent climate policies, rising corporate sustainability commitments, and technological advancements. Stringent government regulations compel industries to reduce greenhouse gas emissions, driving demand for efficient carbon capture materials. Corporations aiming to meet net-zero targets increasingly prioritize sustainable materials and carbon reduction, boosting market adoption. Additionally, ongoing innovation in bio-derived and circular carbon capture materials improves efficiency, reduces costs, and enhances environmental benefits, expanding use cases. These factors create favorable market conditions, attracting investments and supporting rapid growth across industries seeking to mitigate climate impact and comply with environmental mandates.

“Liquid solvents are the fastest-growing material segment of the carbon capture materials market in terms of value.”

Liquid solvents, including amine-based and alkaline-based solutions, are the fastest-growing materials in the carbon capture market due to their proven efficiency and versatility in capturing CO<sub>2</sub> from industrial emissions. Amine-based solvents have been widely used for decades because of their high affinity for CO<sub>2</sub> molecules, enabling effective absorptions, even at low concentrations, are typically found in flue gases. This established track record makes them highly reliable for post-combustion carbon capture processes, particularly in power generation and industrial sectors where carbon emissions are a major concern.

Advancements in solvent formulations have significantly improved their regeneration energy requirements, reducing operational costs and making these solutions more economically viable. Innovations are addressing drawbacks such as solvent degradation and corrosion, enhancing the durability and lifecycle of these materials. Alkaline-based solvents, on the other hand, offer benefits including faster reaction rates with CO<sub>2</sub> and suitability for use in different process conditions, which broadens their industrial applicability. The flexibility of liquid solvent systems to be integrated into existing industrial setups without extensive modifications is a major growth driver. These solvents can be tailored for specific process needs, adapting to varying flue gas compositions and temperatures. The strong regulatory push for carbon emission reductions globally also incentivizes industries to adopt these mature solvent technologies.

“Absorptions are the fastest-growing process segment of the carbon capture materials market in terms of value.”

Adsorptions are the fastest-growing process segment in the carbon capture market due to their energy efficiency, versatility, and alignment with scalable decarbonization solutions. Utilizing solid materials like zeolites or metal-organic frameworks, adsorptions capture CO<sub>2</sub> from gas streams with capture efficiencies up to 90%, requiring significantly less energy, often 30% lower than absorption processes. Its rapid growth is driven by its applicability in both post-combustion and direct air capture, addressing diverse emission sources from power plants to ambient air. Adsorptions' modular and compact systems enable easy integration into existing industrial setups, such as cement or steel facilities, reducing retrofitting costs. Innovations in high-capacity, selective sorbents enhance performance, making the process cost-effective for small- and large-scale applications. The growing demand for negative emissions technologies, coupled with supportive policies like carbon pricing, accelerates adoption, particularly in regions with stringent net-zero goals. Adsorptions' environmental benefits, including reduced

chemical waste compared to liquid solvents, further boost their appeal. Its ability to handle low CO<sub>2</sub> concentrations and continuous improvements in material durability make Adsorptions the fastest-growing process, addressing the urgent need for efficient, scalable carbon capture solutions.

“Pre-combustion is the fastest-growing technique segment of the carbon capture materials market in terms of value.”

Pre-combustion carbon capture is the fastest-growing technique in the carbon capture market due to several key advantages that make it highly efficient and promising for large-scale decarbonization. Unlike post-combustion capture, pre-combustion technology removes CO<sub>2</sub> before combustion by converting fossil fuels into a mixture of hydrogen and carbon dioxide (known as syngas) through a gasification or reforming process. This results in a gas stream with a higher concentration and pressure of CO<sub>2</sub>, which significantly enhances the ease and efficiency of capture using physical or chemical absorption methods. This higher concentration of CO<sub>2</sub> means pre-combustion capture requires smaller equipment and less energy for separation, reducing both the capital and operational costs compared to other techniques. The process produces hydrogen, a clean-burning fuel, as a valuable byproduct, supporting the broader energy transition toward low-carbon hydrogen economies. Furthermore, pre-combustion capture can be integrated into new plants and industrial facilities designed for clean energy production, making it a forward-looking approach aligned with global decarbonization trends. Though the initial investment for the gasification process is higher than that of conventional systems, the long-term benefits of greater capture efficiency, lower energy penalties, and enhanced fuel quality are driving its growth. Additionally, as industries seek to reduce emissions from hard-to-abate sectors like power generation and heavy industry, pre-combustion technology offers an effective solution capable of capturing large volumes of CO<sub>2</sub> at relatively lower cost.

“Oil & gas is the fastest-growing end-use industry segment of the carbon capture materials market in terms of value.”

The oil & gas industry is the fastest-growing end-use sector in the carbon capture market because of its significant contribution to global CO<sub>2</sub> emissions and the increasing pressure to lower its carbon footprint. This industry operates many carbon-intensive processes across upstream, midstream, and downstream segments, making carbon capture and storage (CCS) an essential technology for effectively reducing emissions. One of the main drivers of growth is CCS's ability to allow continued fossil fuel use while addressing environmental concerns, supporting the industry's transition to

lower-carbon operations without stopping production. A major factor boosting the market is the integration of CCS with enhanced oil recovery (EOR) techniques. Captured CO<sub>2</sub> is injected into mature oil fields to boost oil extraction, providing the dual benefit of reducing emissions and increasing resource recovery. This synergy creates economic incentives for adopting CCS, making it more financially practical than in other sectors. Additionally, regulatory requirements and global net-zero commitments compel oil and gas companies to heavily invest in carbon capture technologies to meet climate goals and stakeholder sustainability expectations. Technological advances that improve capture efficiency, cut costs, and ensure safe CO<sub>2</sub> storage are further speeding up adoption in this sector. Large-scale infrastructure projects, including CO<sub>2</sub> transportation and storage networks, support the expansion of CCS initiatives in oil and gas. The industry's focus on sustainability, along with government incentives and changing carbon markets, places oil and gas as a high-growth area within the carbon capture landscape.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the carbon capture materials market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 50%, Tier 2 – 30%, and Tier 3 – 20%

By Designation: Managers – 15%, Directors – 20%, and Others – 65%

By Region: North America – 15%, Europe – 10%, Asia Pacific – 65%, Middle East & Africa – 7%, South America – 3%.

The key players in the carbon capture materials market include Ecolab (US), BASF (Germany), DOW (US), MITSUBISHI HEAVY INDUSTRIES, LTD (Japan), Solvay (Belgium), Air Products and Chemicals, Inc. (US), Tosoh Corporation (Japan), Honeywell International Inc. (US), and Zeochem (Switzerland). The study includes an in-depth competitive analysis of these key players in the carbon capture materials market, with their company profiles, recent developments, and key market strategies.

## **Research Coverage**

This report segments the market for carbon capture materials by process, technique,

*Carbon Capture Materials Market by Material (Liquid Solvents, Solid Solvents, Membranes), Process (Absorption,...*

material, end-use industry, and region, and estimates the overall market value across various regions. It also provides a detailed analysis of key industry players to provide insights into their business overviews, products and services, key strategies, and expansions associated with the carbon capture materials market.

### **Key Benefits of Buying This Report**

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the carbon capture materials market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

### **The report provides insights into the following pointers:**

Analysis of drivers (Stringent Climate Policies, Carbon Pricing Mechanisms, and Net-Zero Targets Driving Adoption), restraints (High Energy Penalty and Cost Burden in Large-Scale Material Regeneration), opportunities (Innovation of Bio-Derived and Circular Carbon Capture Materials), and challenges (Supply-Chain Reliability & Plant-Retrofit Compatibility Constraints).

**Market Penetration:** Comprehensive information on the carbon capture materials market offered by top players in the carbon capture materials market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, partnerships, agreements, and collaborations in the market.

**Market Development:** Comprehensive information about lucrative emerging markets. The report analyzes the carbon capture materials market across regions.

**Market Capacity:** Production capacities of companies producing carbon capture materials market are provided wherever available, with upcoming capacities for the carbon capture materials market.

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the carbon capture materials market.



## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
  - 1.3.2 INCLUSIONS AND EXCLUSIONS
  - 1.3.3 YEARS CONSIDERED
  - 1.3.4 CURRENCY CONSIDERED
  - 1.3.5 UNIT CONSIDERED
- 1.4 RESEARCH LIMITATIONS
- 1.5 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key primary sources
    - 2.1.2.3 Key participants for primary interviews
    - 2.1.2.4 Breakdown of primary interviews
    - 2.1.2.5 Key industry insights
- 2.2 BASE NUMBER CALCULATION
  - 2.2.1 SUPPLY-SIDE ANALYSIS
  - 2.2.2 DEMAND-SIDE ANALYSIS
- 2.3 MARKET FORECAST
  - 2.3.1 SUPPLY SIDE
  - 2.3.2 DEMAND SIDE
- 2.4 MARKET SIZE ESTIMATION
  - 2.4.1 BOTTOM-UP APPROACH
  - 2.4.2 TOP-DOWN APPROACH
- 2.5 DATA TRIANGULATION
- 2.6 RESEARCH ASSUMPTIONS
- 2.7 GROWTH FORECAST
- 2.8 RISK ASSESSMENT

## 2.9 FACTOR ANALYSIS

## 3 EXECUTIVE SUMMARY

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN CARBON CAPTURE MATERIALS MARKET

#### 4.2 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL

#### 4.3 CARBON CAPTURE MATERIALS MARKET, BY PROCESS

#### 4.4 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE

#### 4.5 CARBON CAPTURE MATERIALS MARKET, BY END USER

#### 4.6 CARBON CAPTURE MATERIALS MARKET, BY COUNTRY

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### 5.2.1 DRIVERS

5.2.1.1 Rising decarbonization pressure in energy-intensive industries

5.2.1.2 Stringent climate policies, carbon pricing mechanisms, and net-zero targets

#### 5.2.2 RESTRAINTS

5.2.2.1 High energy requirement and cost burden in large-scale material regeneration

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Development of bio-derived and circular carbon capture materials

5.2.3.2 Integration of capture systems with utilization and mineralization technologies

#### 5.2.4 CHALLENGES

5.2.4.1 Supply chain reliability and plant-retrofit compatibility constraints

### 5.3 IMPACT OF GENERATIVE AI/AI ON CARBON CAPTURE MATERIALS MARKET

## 6 INDUSTRY TRENDS

### 6.1 INTRODUCTION

### 6.2 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

### 6.3 SUPPLY CHAIN ANALYSIS

### 6.4 IMPACT OF 2025 US TARIFFS ON CARBON CAPTURE MATERIALS MARKET

#### 6.4.1 INTRODUCTION

#### 6.4.2 KEY TARIFF RATES

#### 6.4.3 PRICE IMPACT ANALYSIS

- 6.4.4 IMPACT ON COUNTRY/REGION
  - 6.4.4.1 US
  - 6.4.4.2 Europe
  - 6.4.4.3 Asia Pacific
- 6.4.5 IMPACT ON END-USE INDUSTRIES
- 6.5 PRICING ANALYSIS
  - 6.5.1 AVERAGE SELLING PRICE TREND, BY REGION, 2021–2024
  - 6.5.2 AVERAGE SELLING PRICE TREND, BY MATERIAL, 2021–2024
  - 6.5.3 AVERAGE SELLING PRICE TREND OF KEY PLAYER, BY MATERIAL, 2024
- 6.6 INVESTMENT AND FUNDING SCENARIO
- 6.7 ECOSYSTEM ANALYSIS
- 6.8 TECHNOLOGY ANALYSIS
  - 6.8.1 KEY TECHNOLOGIES
  - 6.8.2 COMPLEMENTARY TECHNOLOGIES
- 6.9 PATENT ANALYSIS
  - 6.9.1 METHODOLOGY
  - 6.9.2 PATENTS GRANTED
  - 6.9.3 PATENT PUBLICATION TRENDS
  - 6.9.4 INSIGHTS
  - 6.9.5 LEGAL STATUS OF PATENTS
  - 6.9.6 JURISDICTION ANALYSIS
  - 6.9.7 TOP APPLICANTS
  - 6.9.8 LIST OF MAJOR PATENTS
- 6.10 TRADE ANALYSIS
  - 6.10.1 EXPORT SCENARIO (HS CODE 380210)
  - 6.10.2 IMPORT SCENARIO (HS CODE 380210)
- 6.11 KEY CONFERENCES AND EVENTS, 2025–2027
- 6.12 TARIFF AND REGULATORY LANDSCAPE
  - 6.12.1 TARIFF ANALYSIS
  - 6.12.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
  - 6.12.3 REGULATIONS AND STANDARDS RELATED TO CARBON CAPTURE MATERIALS
- 6.13 PORTER'S FIVE FORCES ANALYSIS
  - 6.13.1 THREAT OF NEW ENTRANTS
  - 6.13.2 THREAT OF SUBSTITUTES
  - 6.13.3 BARGAINING POWER OF SUPPLIERS
  - 6.13.4 BARGAINING POWER OF BUYERS
  - 6.13.5 INTENSITY OF COMPETITIVE RIVALRY

## 6.14 KEY STAKEHOLDERS AND BUYING CRITERIA

### 6.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

### 6.14.2 BUYING CRITERIA

## 6.15 MACROECONOMIC OUTLOOK

### 6.15.1 GDP TRENDS AND FORECASTS, BY COUNTRY

## 6.16 CASE STUDY ANALYSIS

### 6.16.1 TECHNOLOGY ANALYSIS OF CARBON CAPTURE MATERIALS: KEY AND COMPLEMENTARY TECHNOLOGIES SHAPING MARKET EVOLUTION

### 6.16.2 ADVANCED NANOSTRUCTURED MATERIALS FOR INDUSTRIAL CARBON CAPTURE

## **7 CARBON CAPTURE MATERIALS MARKET, BY PROCESS**

### 7.1 INTRODUCTION

### 7.2 ADSORPTION

#### 7.2.1 INCREASING DEMAND FOR ENERGY-EFFICIENT AND REGENERABLE MATERIALS IN INDUSTRIAL CARBON CAPTURE SYSTEMS TO DRIVE DEMAND

### 7.3 ABSORPTION

#### 7.3.1 GROWING DEPLOYMENT OF SOLVENT-BASED CO<sub>2</sub> CAPTURE SYSTEMS IN LARGE-SCALE POWER PLANTS AND INDUSTRIAL FACILITIES TO FUEL DEMAND

## **8 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL**

### 8.1 INTRODUCTION

### 8.2 LIQUID SOLVENTS

#### 8.2.1 ADVANCEMENTS IN SOLVENT FORMULATIONS TO DRIVE DEMAND

#### 8.2.2 AMINE-BASED SOLUTIONS

#### 8.2.3 ALKALINE SOLUTIONS

### 8.3 STRONG SOLVENTS

#### 8.3.1 GROWING EMPHASIS ON ENVIRONMENTALLY SUSTAINABLE AND REUSABLE MATERIALS TO FUEL DEMAND

#### 8.3.2 ZEOLITES

#### 8.3.3 ACTIVATED CARBON

#### 8.3.4 CALCIUM-BASED SORBENTS

#### 8.3.5 METAL-ORGANIC FRAMEWORKS

### 8.4 MEMBRANES

#### 8.4.1 ABILITY TO SELECTIVELY SEPARATE CO<sub>2</sub> FROM FLUE GASES OR INDUSTRIAL STREAMS TO PROPEL DEMAND

## 8.4.2 POLYMERIC MEMBRANES

# 9 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE

## 9.1 INTRODUCTION

### 9.2 PRE-COMBUSTION CAPTURE

#### 9.2.1 RISING DEMAND FOR HYDROGEN AS CLEAN FUEL TO DRIVE MARKET

### 9.3 POST-COMBUSTION CAPTURE

#### 9.3.1 RETROFITTING POTENTIAL IN EXISTING POWER PLANTS AND INDUSTRIES TO DRIVE DEMAND

### 9.4 OXYFUEL COMBUSTION CAPTURE

#### 9.4.1 HIGHER CO<sub>2</sub> PURITY AND SIMPLIFIED CAPTURE PROCESSES TO PROPEL MARKET

### 9.5 DIRECT AIR CAPTURE

#### 9.5.1 INCREASING GLOBAL EMPHASIS ON ACHIEVING NET-ZERO CARBON TARGETS TO DRIVE DEMAND

# 10 CARBON CAPTURE MATERIALS MARKET, BY END USER

## 10.1 INTRODUCTION

### 10.2 POWER

#### 10.2.1 RISING EMISSION REDUCTION MANDATES AND CARBON-NEUTRALITY TARGETS TO ACCELERATE DEMAND

### 10.3 OIL & GAS

#### 10.3.1 COMPLIANCE WITH EMISSION REDUCTION MANDATES TO DRIVE DEMAND

### 10.4 CHEMICAL & PETROCHEMICAL

#### 10.4.1 RISING NEED TO DECARBONIZE ENERGY-INTENSIVE CHEMICAL PRODUCTION TO PROPEL DEMAND

### 10.5 METALS & MINING

#### 10.5.1 INCREASING PRESSURE TO DECARBONIZE ENERGY-INTENSIVE SMELTING, REFINING, AND MINERAL PROCESSING OPERATIONS TO FUEL DEMAND

### 10.6 INDUSTRIAL

#### 10.6.1 DECARBONIZATION REQUIREMENTS ACROSS DIVERSE INDUSTRIAL OPERATIONS TO BOOST DEMAND

### 10.7 OTHER END USERS

#### 10.7.1 WASTE WATER TREATMENT

#### 10.7.2 AGRICULTURE

## **11 CARBON CAPTURE MATERIALS MARKET, BY REGION**

### **11.1 INTRODUCTION**

### **11.2 ASIA PACIFIC**

#### **11.2.1 CHINA**

11.2.1.1 Extensive industrial activity and government-backed decarbonization goals to drive market

#### **11.2.2 JAPAN**

11.2.2.1 Focus on development of hydrogen economy to drive market

#### **11.2.3 INDIA**

11.2.3.1 High coal dependency and industrial emissions to fuel demand

#### **11.2.4 SOUTH KOREA**

11.2.4.1 Government-backed CCUS pilot projects in heavy industries to propel demand

#### **11.2.5 REST OF ASIA PACIFIC**

### **11.3 NORTH AMERICA**

#### **11.3.1 US**

11.3.1.1 Federal incentives under Inflation Reduction Act (IRA) and 45Q tax credits to drive adoption

#### **11.3.2 CANADA**

11.3.2.1 Stringent carbon pricing policies and large-scale CCUS infrastructure to fuel demand

#### **11.3.3 MEXICO**

11.3.3.1 Alignment with North American CCUS strategies and potential for industrial decarbonization to accelerate demand

### **11.4 EUROPE**

#### **11.4.1 GERMANY**

11.4.1.1 Ambitious climate neutrality targets and industrial decarbonization mandates to drive demand

#### **11.4.2 ITALY**

11.4.2.1 National decarbonization strategies and EU-funded CCS pilot projects to fuel demand

#### **11.4.3 FRANCE**

11.4.3.1 Expansion of industrial CCS initiatives and regulatory frameworks to drive demand

#### **11.4.4 UK**

11.4.4.1 High emphasis on negative emissions technologies and direct air capture pilot programs to fuel demand

#### 11.4.5 SPAIN

11.4.5.1 High R&D support and innovation-driven policies to drive market

#### 11.4.6 RUSSIA

11.4.6.1 Emerging CCU economic viability and CO<sub>2</sub>-EOR opportunities to drive demand

#### 11.4.7 REST OF EUROPE

### 11.5 MIDDLE EAST & AFRICA

#### 11.5.1 GCC COUNTRIES

##### 11.5.1.1 Saudi Arabia

11.5.1.1.1 Strategic focus on large-scale CCUS infrastructure to drive demand

##### 11.5.1.2 UAE

11.5.1.2.1 Strategic focus on blue hydrogen production and large-scale industrial CCUS projects to fuel demand

##### 11.5.1.3 Rest of GCC Countries

#### 11.5.2 SOUTH AFRICA

11.5.2.1 Government incentives to reduce coal-related emissions to drive adoption

#### 11.5.3 REST OF MIDDLE EAST & AFRICA

### 11.6 SOUTH AMERICA

#### 11.6.1 BRAZIL

11.6.1.1 Robust legislative framework and abundant geological storage resources to fuel market growth

#### 11.6.2 ARGENTINA

11.6.2.1 Growing industrial initiatives and supportive regulatory measures to propel market

#### 11.6.3 REST OF SOUTH AMERICA

## 12 COMPETITIVE LANDSCAPE

### 12.1 INTRODUCTION

### 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

### 12.3 MARKET SHARE ANALYSIS

### 12.4 REVENUE ANALYSIS

### 12.5 BRAND/PRODUCT COMPARISON

### 12.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

#### 12.6.1 STARS

#### 12.6.2 EMERGING LEADERS

#### 12.6.3 PERVASIVE PLAYERS

#### 12.6.4 PARTICIPANTS

#### 12.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

- 12.6.5.1 Company footprint
- 12.6.5.2 Material footprint
- 12.6.5.3 Process footprint
- 12.6.5.4 End-user footprint
- 12.6.5.5 Region footprint
- 12.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024
  - 12.7.1 PROGRESSIVE COMPANIES
  - 12.7.2 RESPONSIVE COMPANIES
  - 12.7.3 DYNAMIC COMPANIES
  - 12.7.4 STARTING BLOCKS
  - 12.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024
    - 12.7.5.1 Detailed list of key startups/SMEs
    - 12.7.5.2 Competitive benchmarking of key startups/SMEs
- 12.8 COMPANY VALUATION AND FINANCIAL METRICS
- 12.9 COMPETITIVE SCENARIO
  - 12.9.1 DEALS
  - 12.9.2 EXPANSIONS

## **13 COMPANY PROFILES**

- 13.1 KEY PLAYERS
  - 13.1.1 BASF
    - 13.1.1.1 Business overview
    - 13.1.1.2 Products/Solutions/Services offered
    - 13.1.1.3 Recent developments
      - 13.1.1.3.1 Deals
    - 13.1.1.4 MnM view
      - 13.1.1.4.1 Key strengths/Right to win
      - 13.1.1.4.2 Strategic choices
      - 13.1.1.4.3 Weaknesses/Competitive threats
  - 13.1.2 DOW
    - 13.1.2.1 Business overview
    - 13.1.2.2 Products/Solutions/Services offered
    - 13.1.2.3 Recent developments
      - 13.1.2.3.1 Expansions
    - 13.1.2.4 MnM view
      - 13.1.2.4.1 Key strengths/Right to win
      - 13.1.2.4.2 Strategic choices
      - 13.1.2.4.3 Weaknesses/Competitive threats

- 13.1.3 HONEYWELL INTERNATIONAL INC.
  - 13.1.3.1 Business overview
  - 13.1.3.2 Products/Solutions/Services offered
  - 13.1.3.3 Recent developments
    - 13.1.3.3.1 Deals
  - 13.1.3.4 MnM view
    - 13.1.3.4.1 Key strengths/Right to win
    - 13.1.3.4.2 Strategic choices
    - 13.1.3.4.3 Weaknesses/Competitive threats
- 13.1.4 MITSUBISHI HEAVY INDUSTRIES, LTD.
  - 13.1.4.1 Business overview
  - 13.1.4.2 Products/Solutions/Services offered
  - 13.1.4.3 Recent developments
    - 13.1.4.3.1 Deals
  - 13.1.4.4 MnM view
    - 13.1.4.4.1 Key strengths/Right to win
    - 13.1.4.4.2 Strategic choices
    - 13.1.4.4.3 Weaknesses/Competitive threats
- 13.1.5 TOSOH CORPORATION
  - 13.1.5.1 Business overview
  - 13.1.5.2 Products/Solutions/Services offered
  - 13.1.5.3 MnM view
    - 13.1.5.3.1 Key strengths/Right to win
    - 13.1.5.3.2 Strategic choices
    - 13.1.5.3.3 Weaknesses/Competitive threats
- 13.1.6 AIR PRODUCTS AND CHEMICALS, INC.
  - 13.1.6.1 Business overview
  - 13.1.6.2 Products/Solutions/Services offered
  - 13.1.6.3 Recent developments
    - 13.1.6.3.1 Expansions
- 13.1.7 ZEOCHEM AG
  - 13.1.7.1 Business overview
  - 13.1.7.2 Products/Solutions/Services offered
- 13.1.8 ECOLAB
  - 13.1.8.1 Business overview
  - 13.1.8.2 Products/Solutions/Services offered
  - 13.1.8.3 Recent developments
    - 13.1.8.3.1 Deals
- 13.1.9 SVANTE TECHNOLOGIES INC.

- 13.1.9.1 Business overview
- 13.1.9.2 Products/Solutions/Services offered
- 13.1.9.3 Recent developments
  - 13.1.9.3.1 Deals
- 13.1.10 CALGON CARBON CORPORATION
  - 13.1.10.1 Business overview
  - 13.1.10.2 Products/Solutions/Services offered
- 13.2 OTHER PLAYERS
  - 13.2.1 BOYCE CARBON
  - 13.2.2 JALON
  - 13.2.3 SPIRITUS
  - 13.2.4 CARBON ACTIVATED CORPORATION
  - 13.2.5 WARTSILA
  - 13.2.6 CLARIANT AG

## **14 APPENDIX**

- 14.1 DISCUSSION GUIDE
- 14.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 14.3 CUSTOMIZATION OPTIONS
- 14.4 RELATED REPORTS
- 14.5 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

TABLE 1 AVERAGE SELLING PRICE TREND OF CARBON CAPTURE MATERIALS, BY REGION, 2021–2024 (USD/KILOTON)

TABLE 2 AVERAGE SELLING PRICE TREND OF CARBON CAPTURE MATERIALS, BY MATERIAL, 2021–2024 (USD/KILOTON)

TABLE 3 AVERAGE SELLING PRICE TREND OF CARBON CAPTURE MATERIALS OFFERED BY KEY PLAYERS, BY MATERIAL, 2024 (USD/KILOTON)

TABLE 4 ROLES OF COMPANIES IN CARBON CAPTURE MATERIALS ECOSYSTEM

TABLE 5 CARBON CAPTURE MATERIALS MARKET: KEY TECHNOLOGIES

TABLE 6 CARBON CAPTURE MATERIALS MARKET: COMPLEMENTARY TECHNOLOGIES

TABLE 7 CARBON CAPTURE MATERIALS MARKET: TOTAL NUMBER OF PATENTS, 2015–2024

TABLE 8 CARBON CAPTURE MATERIALS: LIST OF MAJOR PATENT OWNERS, 2015–2024

TABLE 9 CARBON CAPTURE MATERIALS: LIST OF MAJOR PATENTS, 2015–2024

TABLE 10 EXPORT DATA RELATED TO HS CODE 380210-COMPLIANT PRODUCTS, BY KEY COUNTRY, 2021–2024 (USD THOUSAND)

TABLE 11 IMPORT DATA RELATED TO HS CODE 380210-COMPLIANT PRODUCTS, BY KEY COUNTRY, 2021–2024 (USD THOUSAND)

TABLE 12 CARBON CAPTURE MATERIALS MARKET: KEY CONFERENCES AND EVENTS, 2025–2027

TABLE 13 TARIFFS RELATED TO CARBON CAPTURE MATERIALS, 2024

TABLE 14 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 MIDDLE EAST & AFRICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 SOUTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 CARBON CAPTURE MATERIALS MARKET: REGULATIONS AND STANDARDS

TABLE 20 CARBON CAPTURE MATERIALS MARKET: PORTER'S FIVE FORCES

## ANALYSIS

TABLE 21 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USERS

TABLE 22 KEY BUYING CRITERIA FOR TOP THREE END USERS

TABLE 23 GDP TRENDS AND FORECASTS, BY COUNTRY, 2023–2025 (USD MILLION)

TABLE 24 CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 25 CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 26 CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 27 CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 28 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 29 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 30 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 31 CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 32 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 33 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 34 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 35 CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 36 CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 37 CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 38 CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 39 CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 40 CARBON CAPTURE MATERIALS MARKET, BY REGION, 2021–2024 (USD

MILLION)

TABLE 41 CARBON CAPTURE MATERIALS MARKET, BY REGION, 2025–2030 (USD MILLION)

TABLE 42 CARBON CAPTURE MATERIALS MARKET, BY REGION, 2021–2024 (KILOTON)

TABLE 43 CARBON CAPTURE MATERIALS MARKET, BY REGION, 2025–2030 (KILOTON)

TABLE 44 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 45 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 46 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (KILOTON)

TABLE 47 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (KILOTON)

TABLE 48 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 49 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 50 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 51 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 52 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 53 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 54 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 55 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 56 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 57 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 58 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 59 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 60 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 61 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 62 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 63 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 64 CHINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 65 CHINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 66 CHINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 67 CHINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 68 JAPAN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 69 JAPAN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 70 JAPAN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 71 JAPAN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 72 INDIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 73 INDIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 74 INDIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 75 INDIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 76 SOUTH KOREA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 77 SOUTH KOREA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 78 SOUTH KOREA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 79 SOUTH KOREA: CARBON CAPTURE MATERIALS MARKET, BY END

USER, 2025–2030 (KILOTON)

TABLE 80 REST OF ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 81 REST OF ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 82 REST OF ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 83 REST OF ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 84 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 85 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 86 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (KILOTON)

TABLE 87 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (KILOTON)

TABLE 88 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 89 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 90 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 91 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 92 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 93 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 94 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 95 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 96 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 97 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 98 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 99 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 100 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 101 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 102 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 103 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 104 US: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 105 US: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 106 US: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 107 US: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 108 CANADA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 109 CANADA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 110 CANADA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 111 CANADA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 112 MEXICO: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 113 MEXICO: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 114 MEXICO: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 115 MEXICO: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 116 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 117 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 118 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY,

2021–2024 (KILOTON)

TABLE 119 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (KILOTON)

TABLE 120 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 121 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 122 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 123 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 124 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 125 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 126 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 127 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 128 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 129 EUROPE: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 130 EUROPE CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 131 EUROPE CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 132 EUROPE CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 133 EUROPE CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 134 EUROPE CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 135 EUROPE CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 136 GERMANY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 137 GERMANY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 138 GERMANY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 139 GERMANY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 140 ITALY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 141 ITALY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 142 ITALY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 143 ITALY: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 144 FRANCE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 145 FRANCE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 146 FRANCE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 147 FRANCE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 148 UK: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 149 UK: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 150 UK: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 151 UK: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 152 SPAIN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 153 SPAIN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 154 SPAIN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 155 SPAIN: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 156 RUSSIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 157 RUSSIA: CARBON CAPTURE MATERIALS MARKET, BY END USER,

2025–2030 (USD MILLION)

TABLE 158 RUSSIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 159 RUSSIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 160 REST OF EUROPE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 161 REST OF EUROPE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 162 REST OF EUROPE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 163 REST OF EUROPE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 164 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 165 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 166 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (KILOTON)

TABLE 167 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (KILOTON)

TABLE 168 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 169 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 170 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 171 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 172 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 173 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 174 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 175 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 176 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 177 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 178 MIDDLE EAST & AFRICA CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 179 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 180 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 181 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 182 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 183 MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 184 SAUDI ARABIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 185 SAUDI ARABIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 186 SAUDI ARABIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 187 SAUDI ARABIA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 188 UAE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 189 UAE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 190 UAE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 191 UAE: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 192 REST OF GCC COUNTRIES: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 193 REST OF GCC COUNTRIES: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 194 REST OF GCC COUNTRIES: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 195 REST OF GCC COUNTRIES: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 196 SOUTH AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END

USER, 2021–2024 (USD MILLION)

TABLE 197 SOUTH AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 198 SOUTH AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 199 SOUTH AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 200 REST OF MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 201 REST OF MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 202 REST OF MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 203 REST OF MIDDLE EAST & AFRICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 204 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 205 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 206 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2021–2024 (KILOTON)

TABLE 207 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY COUNTRY, 2025–2030 (KILOTON)

TABLE 208 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (USD MILLION)

TABLE 209 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (USD MILLION)

TABLE 210 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2021–2024 (KILOTON)

TABLE 211 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY MATERIAL, 2025–2030 (KILOTON)

TABLE 212 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (USD MILLION)

TABLE 213 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (USD MILLION)

TABLE 214 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2021–2024 (KILOTON)

TABLE 215 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY PROCESS, 2025–2030 (KILOTON)

TABLE 216 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (USD MILLION)

TABLE 217 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (USD MILLION)

TABLE 218 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2021–2024 (KILOTON)

TABLE 219 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY TECHNIQUE, 2025–2030 (KILOTON)

TABLE 220 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 221 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 222 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 223 SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 224 BRAZIL: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 225 BRAZIL: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 226 BRAZIL: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 227 BRAZIL: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 228 ARGENTINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 229 ARGENTINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 230 ARGENTINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 231 ARGENTINA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (KILOTON)

TABLE 232 REST OF SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (USD MILLION)

TABLE 233 REST OF SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2025–2030 (USD MILLION)

TABLE 234 REST OF SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET, BY END USER, 2021–2024 (KILOTON)

TABLE 235 REST OF SOUTH AMERICA: CARBON CAPTURE MATERIALS MARKET,

BY END USER, 2025–2030 (KILOTON)

TABLE 236 CARBON CAPTURE MATERIALS MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, JANUARY 2021–MAY 2025

TABLE 237 CARBON CAPTURE MATERIALS MARKET: DEGREE OF COMPETITION, 2024

TABLE 238 CARBON CAPTURE MATERIALS MARKET: MATERIAL FOOTPRINT

TABLE 239 CARBON CAPTURE MATERIALS MARKET: PROCESS FOOTPRINT

TABLE 240 CARBON CAPTURE MATERIALS MARKET: END-USER FOOTPRINT

TABLE 241 CARBON CAPTURE MATERIALS MARKET: REGION FOOTPRINT

TABLE 242 CARBON CAPTURE MATERIALS MARKET: LIST OF KEY STARTUPS/SMES

TABLE 243 CARBON CAPTURE MATERIALS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (1/2)

TABLE 244 CARBON CAPTURE MATERIALS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (2/2)

TABLE 245 CARBON CAPTURE MATERIALS MARKET: DEALS, JANUARY 2021–MAY 2025

TABLE 246 CARBON CAPTURE MATERIALS MARKET: EXPANSIONS, JANUARY 2021–MAY 2025

TABLE 247 BASF: COMPANY OVERVIEW

TABLE 248 BASF: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 249 BASF: DEALS

TABLE 250 DOW: COMPANY OVERVIEW

TABLE 251 DOW: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 252 BASF: EXPANSIONS

TABLE 253 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

TABLE 254 HONEYWELL INTERNATIONAL INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 255 HONEYWELL INTERNATIONAL INC.: DEALS

TABLE 256 MITSUBISHI HEAVY INDUSTRIES, LTD.: COMPANY OVERVIEW

TABLE 257 MITSUBISHI HEAVY INDUSTRIES, LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 258 MITSUBISHI HEAVY INDUSTRIES, LTD.: DEALS

TABLE 259 TOSOH CORPORATION: COMPANY OVERVIEW

TABLE 260 TOSOH CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 261 AIR PRODUCTS AND CHEMICALS, INC.: COMPANY OVERVIEW

TABLE 262 AIR PRODUCTS AND CHEMICALS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 263 AIR PRODUCTS AND CHEMICALS, INC.: EXPANSIONS

TABLE 264 ZEOCHEM: COMPANY OVERVIEW

TABLE 265 ZEOCHEM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 266 ECOLAB: COMPANY OVERVIEW

TABLE 267 ECOLAB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 268 ECOLAB: DEALS

TABLE 269 SVANTE TECHNOLOGIES INC.: COMPANY OVERVIEW

TABLE 270 SVANTE TECHNOLOGIES INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 271 SVANTE TECHNOLOGIES INC.: DEALS

TABLE 272 CALGON CARBON CORPORATION: COMPANY OVERVIEW

TABLE 273 CALGON CARBON CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 274 BOYCE CARBON: COMPANY OVERVIEW

TABLE 275 JALON: COMPANY OVERVIEW

TABLE 276 SPIRITUS: COMPANY OVERVIEW

TABLE 277 CARBON ACTIVATED CORPORATION: COMPANY OVERVIEW

TABLE 278 WARTSILA: COMPANY OVERVIEW

TABLE 279 CLARIANT AG: COMPANY OVERVIEW

## List Of Figures

### LIST OF FIGURES

FIGURE 1 CARBON CAPTURE MATERIALS MARKET: SEGMENTATION AND REGIONAL SCOPE

FIGURE 2 CARBON CAPTURE MATERIALS MARKET: RESEARCH DESIGN

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: DEMAND-SIDE APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: REVENUE OF MARKET PLAYERS, 2024

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 8 CARBON CAPTURE MATERIALS MARKET: DATA TRIANGULATION

FIGURE 9 MEMBRANES SEGMENT TO DOMINATE MARKET IN 2030

FIGURE 10 ABSORPTION SEGMENT TO EXHIBIT HIGHER CAGR DURING FORECAST PERIOD

FIGURE 11 POST-COMBUSTION SEGMENT TO RECORD HIGHEST GROWTH BETWEEN 2025 AND 2030

FIGURE 12 OIL & GAS SEGMENT TO REGISTER HIGHEST CAGR BETWEEN 2025 AND 2030

FIGURE 13 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 14 GROWING USE OF CARBON CAPTURE MATERIALS IN OIL & GAS AND POWER INDUSTRIES TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

FIGURE 15 SOLID SOLVENTS SEGMENT TO REGISTER FASTEST GROWTH DURING FORECAST PERIOD

FIGURE 16 ABSORPTION SEGMENT TO REGISTER FAST GROWTH DURING FORECAST PERIOD

FIGURE 17 POST-COMBUSTION SEGMENT TO REGISTER FASTEST GROWTH FROM 2025 TO 2030

FIGURE 18 OIL & GAS SEGMENT TO REGISTER FASTEST GROWTH FROM 2025 TO 2030

FIGURE 19 CHINA TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD

FIGURE 20 CARBON CAPTURE MATERIALS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 21 USE OF GENERATIVE AI IN CARBON CAPTURE MATERIALS MARKET

FIGURE 22 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

FIGURE 23 CARBON CAPTURE MATERIALS MARKET: SUPPLY CHAIN ANALYSIS

FIGURE 24 AVERAGE SELLING PRICE TREND OF CARBON CAPTURE MATERIALS, BY REGION, 2021–2024 (USD/KILOTON)

FIGURE 25 AVERAGE SELLING PRICE TREND OF CARBON CAPTURE MATERIALS OFFERED BY KEY PLAYERS, BY MATERIAL, 2024 (USD/KILOTON)

FIGURE 26 CARBON CAPTURE MATERIALS MARKET: INVESTMENT AND FUNDING SCENARIO, 2023–2025 (USD BILLION)

FIGURE 27 CARBON CAPTURE MATERIALS: ECOSYSTEM ANALYSIS

FIGURE 28 NUMBER OF PATENTS GRANTED, 2015?2024

FIGURE 29 CARBON CAPTURE MATERIALS MARKET: LEGAL STATUS OF PATENTS

FIGURE 30 PATENT ANALYSIS FOR CARBON CAPTURE MATERIALS, BY JURISDICTION, 2015?2024

FIGURE 31 TOP COMPANIES WITH HIGHEST NUMBER OF PATENTS IN LAST 10 YEARS

FIGURE 32 EXPORT DATA OF HS CODE 380210-COMPLIANT PRODUCTS, BY COUNTRY, 2021–2024 (USD THOUSAND)

FIGURE 33 IMPORT DATA OF HS CODE 380210-COMPLIANT PRODUCTS, BY COUNTRY, 2021–2024 (USD THOUSAND)

FIGURE 34 CARBON CAPTURE MATERIALS MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 35 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END USERS

FIGURE 36 KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES

FIGURE 37 ABSORPTION SEGMENT TO HOLD LARGER SHARE OF CARBON CAPTURE MATERIALS MARKET IN 2025

FIGURE 38 MEMBRANES SEGMENT TO LEAD CARBON CAPTURE MATERIALS MARKET IN 2025

FIGURE 39 POST-COMBUSTION SEGMENT TO HOLD LARGEST SHARE OF CARBON CAPTURE MATERIALS MARKET IN 2025

FIGURE 40 OIL & GAS SEGMENT TO HOLD LARGEST SHARE OF CARBON CAPTURE MATERIALS MARKET IN 2025

FIGURE 41 ASIA PACIFIC TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

FIGURE 42 ASIA PACIFIC: CARBON CAPTURE MATERIALS MARKET SNAPSHOT

FIGURE 43 NORTH AMERICA: CARBON CAPTURE MATERIALS MARKET SNAPSHOT

FIGURE 44 EUROPE: CARBON CAPTURE MATERIALS MARKET SNAPSHOT  
FIGURE 45 CARBON CAPTURE MATERIALS MARKET SHARE ANALYSIS, 2024  
FIGURE 46 CARBON CAPTURE MATERIALS MARKET: REVENUE ANALYSIS OF  
KEY PLAYERS, 2021–2024 (USD BILLION)  
FIGURE 47 CARBON CAPTURE MATERIALS MARKET: BRAND/PRODUCT  
COMPARATIVE ANALYSIS  
FIGURE 48 CARBON CAPTURE MATERIALS MARKET: COMPANY EVALUATION  
MATRIX (KEY PLAYERS), 2024  
FIGURE 49 CARBON CAPTURE MATERIALS MARKET: COMPANY FOOTPRINT  
FIGURE 50 CARBON CAPTURE MATERIALS MARKET: COMPANY EVALUATION  
MATRIX (STARTUPS/SMES), 2024  
FIGURE 51 CARBON CAPTURE MATERIALS MARKET: EV/EBITDA OF KEY  
VENDORS  
FIGURE 52 CARBON CAPTURE MATERIALS MARKET: YEAR-TO-DATE (YTD)  
PRICE TOTAL RETURN, 2020–2024  
FIGURE 53 BASF: COMPANY SNAPSHOT  
FIGURE 54 DOW: COMPANY SNAPSHOT  
FIGURE 55 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT  
FIGURE 56 MITSUBISHI HEAVY INDUSTRIES, LTD.: COMPANY SNAPSHOT  
FIGURE 57 AIR PRODUCTS AND CHEMICALS, INC.: COMPANY SNAPSHOT

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