

# **Carbon Capture And Storage Market Outlook 2025-2034: Market Share, and Growth Analysis By Product (Pre-Combustion, Industrial Process, Post Combustion, Oxy-Combustion), By Service (Capture, Transportation, Utilization, Storage), By End-Use Industry**

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## **Abstracts**

The Carbon Capture And Storage Market is valued at USD 8.5 billion in 2025 and is projected to grow at a CAGR of 15.2% to reach USD 30.5 billion by 2034.

### **Carbon Capture And Storage Market**

The carbon capture and storage (CCS) market has become a crucial component of global efforts to combat climate change. CCS technologies involve capturing carbon dioxide emissions from industrial sources or directly from the atmosphere, transporting them to storage sites, and securely sequestering them underground. By preventing CO<sub>2</sub> from entering the atmosphere, CCS helps reduce greenhouse gas concentrations, supports the transition to cleaner energy systems, and facilitates compliance with climate targets and regulations.

Recent trends in the CCS market include the expansion of large-scale projects, advancements in capture technologies, and the integration of CCS with other climate solutions. As industries aim to meet stricter emissions reduction goals, they are increasingly investing in technologies such as post-combustion capture, pre-combustion capture, and oxy-fuel combustion. Additionally, enhanced oil recovery (EOR) projects that use captured CO<sub>2</sub> have gained traction, providing both an economic incentive and a pathway for further CCS deployment. The market is also witnessing growing interest

in direct air capture (DAC) technologies, which remove CO<sub>2</sub> directly from the atmosphere, and in utilizing captured carbon for chemical production, building materials, and synthetic fuels.

Regionally, North America and Europe have been at the forefront of CCS deployment, supported by favorable regulatory frameworks, financial incentives, and ongoing innovation. However, Asia-Pacific is emerging as a key growth area, driven by its significant industrial emissions, growing climate commitments, and increasing investments in CCS infrastructure. As governments, industries, and research institutions continue to advance CCS technologies and expand their application, the market is poised for sustained growth and critical contributions to global decarbonization efforts.

### Key Insights Carbon Capture And Storage Market

Expansion of large-scale CCS projects and demonstration facilities worldwide.

Advancements in CO<sub>2</sub> capture technologies, including membrane-based and solvent-based methods.

Integration of CCS with renewable energy sources and hydrogen production.

Increasing focus on direct air capture and utilization of captured carbon in commercial applications.

Development of regional CO<sub>2</sub> transport and storage networks to lower costs and improve efficiency.

Rising demand for technologies to meet emissions reduction targets and climate commitments.

Availability of financial incentives and policy support for CCS projects.

Growing recognition of CCS as a vital component of a low-carbon energy future.

Increasing industrial emissions from power generation, cement, and chemical sectors.

High upfront costs and complexity of CCS infrastructure development.

Public and stakeholder concerns about the safety and long-term reliability of CO2 storage.

Limited economic viability without supportive policies and carbon pricing mechanisms.

## Carbon Capture And Storage Market Segmentation

### By Product

Pre-Combustion

Industrial Process

Post Combustion

Oxy-Combustion

### By Service

Capture

Transportation

Utilization

Storage

### By End-Use Industry

Oil And Gas

Coal And Biomass Power Plant

Iron And Steel

Chemicals

Other End-Use Industries

### Key Companies Analysed

Aker Solutions ASA

Dakota Gasification Company

Equinor ASA

Fluor Corporation

Linde PLC

Mitsubishi Heavy Industries Ltd.

Shell PLC

Siemens AG

Sulzer Ltd.

NRG Energy Inc.

General Electric Company

Maersk

Japan CCS Co. Ltd.

Halliburton Company

ExxonMobil Corporation

Schlumberger Limited

Honeywell International Inc.

Occidental Petroleum Corporation

Air Liquide S.A.

Baker Hughes Company

LanzaTech

Royal Dutch Shell

Calix Limited

Carbon America

Carbon Clean

CarbonFree

Carbon8 Systems

Chart Industries

Capsol Technologies AS

Global Thermostat

## Carbon Capture And Storage Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting

scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Carbon Capture And Storage Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Carbon Capture And Storage market data and outlook to 2034

United States

Canada

Mexico

Europe — Carbon Capture And Storage market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Carbon Capture And Storage market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Carbon Capture And Storage market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Carbon Capture And Storage market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Carbon Capture And Storage value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Carbon Capture And Storage industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to

invest over the next 3–5 years?

## Your Key Takeaways from the Carbon Capture And Storage Market Report

Global Carbon Capture And Storage market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Carbon Capture And Storage trade, costs, and supply chains

Carbon Capture And Storage market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Carbon Capture And Storage market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Carbon Capture And Storage market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Carbon Capture And Storage supply chain analysis

Carbon Capture And Storage trade analysis, Carbon Capture And Storage market price analysis, and Carbon Capture And Storage supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Carbon Capture And Storage market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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