

# **Carbon Capture And Sequestration Market By Type (Ocean Sequestration, Terrestrial Sequestration, Others), By Technology (Pre-Combustion Capture, Post-Combustion Capture, Oxy-fuel Combustion Capture, Others), By End-Use Industry (Oil and Gas, Power Generation, Iron and Steel, Cement, Others): Global Opportunity Analysis and Industry Forecast, 2025-2034**

<https://marketpublishers.com/r/C33C757E8A09EN.html>

Date: May 2025

Pages: 337

Price: US\$ 2,601.00 (Single User License)

ID: C33C757E8A09EN

## **Abstracts**

Carbon capture and sequestration refers to climate change mitigation technology which involves capturing carbon dioxide and transporting or storing the same underground securely. This process involves capturing carbon dioxide, transporting the same to a suitable storage site and then injecting the same into deep geological formations for long-term isolation.

There has been an increase in the need to reduce carbon dioxide emissions across different cement, steel, power generation, oil & gas, and chemical sectors. This leads to surge in adoption of carbon capture and sequestration market technologies supported by regulatory mandates as a part of their decarbonization strategies. This fosters the growth of the carbon capture and sequestration market.

However, increase in operational costs hampers the growth of the carbon capture and sequestration market. Surge in deployment of carbon capture and sequestration systems needs investment in capture equipment, transportation infrastructure, and long-term storage facilities. This increases the costs of operations for the carbon capture and sequestration systems, in turn limiting the adoption of these systems in price-sensitive

sectors or countries.

Nevertheless, advancements in technology and innovations such as membrane separation technologies, advanced solvents, and direct air capture, are expected to boost the growth of the carbon capture and sequestration market during the forecast period. These innovations help improve cost-effectiveness, scalability and efficiency of carbon emission capture, making the carbon capture and sequestration systems practical and economically viable. This helps increase the adoption of these systems across different industries. Thus, this is expected to foster the market growth in the upcoming years.

### **Segment Overview**

The carbon capture and sequestration market is segmented into type, technology, end-use industry, and region. On the basis of type, the market is segmented into ocean sequestration, terrestrial sequestration, and others. On the basis of technology, the market is segmented into pre-combustion capture, post-combustion capture, oxy-fuel combustion capture, and others. On the basis of end-use industry, the market is classified into oil and gas, power generation, iron and steel, cement, and others. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

### **Competitive Analysis**

Key players in the carbon capture and sequestration market include Siemens A.G., Fluor Corporation ExxonMobil Corporation, TotalEnergies, Chevron Corporation, Air Liquide, Linde Plc, Mitsubishi Heavy Industries, Ltd., China National Petroleum Corporation, and Carbon Engineering Ltd.

### **Key Benefits For Stakeholders**

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the carbon capture and sequestration market analysis from 2024 to 2034 to identify the prevailing carbon capture and sequestration market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable

stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the carbon capture and sequestration market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global carbon capture and sequestration market trends, key players, market segments, application areas, and market growth strategies.

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Manufacturing Capacity

Investment Opportunities

Technology Trend Analysis

Go To Market Strategy

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

## **Key Market Segments**

By Type

Ocean Sequestration

Terrestrial Sequestration

Others

By Technology

Post-Combustion Capture

Oxy-fuel Combustion Capture

Others

Pre-Combustion Capture

### By End-Use Industry

Oil and Gas

Power Generation

Iron and Steel

Cement

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Fluor Corporation

Linde PLC

China National Petroleum Corporation

ExxonMobil Corporation

Chevron Corporation

Mitsubishi Heavy Industries Ltd.

Air Liquide

Siemens A.G.

TotalEnergies

Carbon Engineering Ltd.

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