

Global Carbon Capture and Storage Market Growth (Status and Outlook) 2025-2031

<https://marketpublishers.com/r/G8B67F9AD7EEN.html>

Date: January 2025

Pages: 132

Price: US\$ 3,660.00 (Single User License)

ID: G8B67F9AD7EEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Carbon Capture and Storage market size is predicted to grow from US\$ 4326 million in 2025 to US\$ 6215 million in 2031; it is expected to grow at a CAGR of 6.2% from 2025 to 2031.

Carbon capture and storage (CCS) (or carbon capture and sequestration or carbon control and sequestration) is the process of capturing waste carbon dioxide (CO₂) from large point sources, such as fossil fuel power plants, transporting it to a storage site, and depositing it where it will not enter the atmosphere, normally an underground geological formation. The aim is to prevent the release of large quantities of CO₂ into the atmosphere (from fossil fuel use in power generation and other industries). It is a potential means of mitigating the contribution of fossil fuel emissions to global warming and ocean acidification. Although CO₂ has been injected into geological formations for several decades for various purposes, including enhanced oil recovery, the long term storage of CO₂ is a relatively new concept.

The main Carbon Capture and Storage players include Exxonmobil Corporation, Schlumberger, Linde AG, Halliburton, etc. The top four Carbon Capture and Storage players account for approximately 35% of the total global market. America is the largest consumer market for Carbon Capture and Storage accounting for about 49%, followed by Asia Pacific and Europe. In terms of Type, S Post-Combustion Carbon Capture is the largest segment with a share of 83%. And in terms of Applications, the largest segment is Oil & Gas, followed by Power Generation.

LPI (LP Information)' newest research report, the "Carbon Capture and Storage

Industry Forecast” looks at past sales and reviews total world Carbon Capture and Storage sales in 2024, providing a comprehensive analysis by region and market sector of projected Carbon Capture and Storage sales for 2025 through 2031. With Carbon Capture and Storage sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Capture and Storage industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Capture and Storage and breaks down the forecast by Type, 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 Carbon Capture and Storage.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Capture and Storage market by product type, application, key players and key regions and countries.

Segmentation by Type:

Pre-Combustion Carbon Capture

Oxy-Combustion Carbon Capture

Post-Combustion Carbon Capture

Segmentation by Application:

Oil & Gas

Power Generation

Others

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

Exxonmobil Corporation

Schlumberger

Huaneng

Linde AG

Halliburton

BASF

General Electric

Siemens

Honeywell UOP

Sulzer

Equinor

NRG

AkerSolutions

Shell

Skyonic Corp.

Mitsubishi Hitachi

Fluor

Sinopec

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