

# Global CO<sub>2</sub> Capture System Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global CO<sub>2</sub> Capture System market size is predicted to grow from US\$ 3303 million in 2025 to US\$ 9388 million in 2032; it is expected to grow at a CAGR of 16.2% from 2026 to 2032.

A CO<sub>2</sub> Capture System is a set of industrial technologies and equipment designed to separate, capture, and concentrate carbon dioxide (CO<sub>2</sub>) from industrial flue gases, power plant emissions, or directly from the ambient air. Captured CO<sub>2</sub> is then compressed, transported, and either stored permanently (via carbon capture and storage, CCS) or utilized (via carbon capture, utilization, and storage, CCUS) in applications like enhanced oil recovery (EOR), food processing, or synthetic fuel production. The core goal of these systems is to reduce anthropogenic CO<sub>2</sub> emissions and mitigate climate change.

CO<sub>2</sub> capture systems are critical for hard-to-abate industries (e.g., cement, steel, chemicals, power generation) where direct emission reduction via renewable energy replacement is technically or economically challenging.

United States market for CO<sub>2</sub> Capture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for CO<sub>2</sub> Capture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for CO<sub>2</sub> Capture System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key CO<sub>2</sub> Capture System players cover Linde, Mitsubishi Heavy Industries, Koch Modular, GEA, Fluor Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the “CO<sub>2</sub> Capture System Industry Forecast” looks at past sales and reviews total world CO<sub>2</sub> Capture System sales in 2025, providing a comprehensive analysis by region and market sector of projected CO<sub>2</sub> Capture System sales for 2026 through 2032. With CO<sub>2</sub> Capture System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO<sub>2</sub> Capture System industry.

This Insight Report provides a comprehensive analysis of the global CO<sub>2</sub> Capture System 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 CO<sub>2</sub> Capture System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CO<sub>2</sub> Capture System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO<sub>2</sub> Capture System 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 CO<sub>2</sub> Capture System.

This report presents a comprehensive overview, market shares, and growth opportunities of CO<sub>2</sub> Capture System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Post-Combustion Capture System

Pre-Combustion Capture System

Oxy-Combustion Capture System

Segmentation by CO<sub>2</sub> Separation Principle:

Absorption-Based CO<sub>2</sub> Capture System

Adsorption-Based CO<sub>2</sub> Capture System

Membrane-Based CO<sub>2</sub> Capture System

Cryogenic-Based CO<sub>2</sub> Capture System

Biological-Based CO<sub>2</sub> Capture System

Segmentation by Application:

Power Generation Industry

Energy Production

Industrial Utilization

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.

Linde

Mitsubishi Heavy Industries

Koch Modular

GEA

Fluor Corporation

Air Products

Asco Carbon Dioxide

Sumitomo Seika Chemicals

Generon

Bright Biomethane

Kinder Morgan

Gulf Cryo

Shell Cansolv

Mellcon Engineers

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