

Global CO₂ Capture System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CO₂ Capture System market size was valued at US\$ 3474 million in 2025 and is forecast to a readjusted size of US\$ 9401 million by 2032 with a CAGR of 15.2% during review period.

A CO₂ Capture System is a set of industrial technologies and equipment designed to separate, capture, and concentrate carbon dioxide (CO₂) from industrial flue gases, power plant emissions, or directly from the ambient air. Captured CO₂ 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 CO₂ emissions and mitigate climate change.

CO₂ 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.

This report is a detailed and comprehensive analysis for global CO₂ Capture System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CO₂ Capture System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global CO₂ Capture System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CO₂ Capture System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CO₂ Capture System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Mitsubishi Heavy Industries, Koch Modular, GEA, Fluor Corporation, Air Products, Asco Carbon Dioxide, Sumitomo Seika Chemicals, Generon, Bright Biomethane, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

CO₂ Capture System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Post-Combustion Capture System

Pre-Combustion Capture System

Oxy-Combustion Capture System

Market segment by CO₂ Separation Principle

Absorption-Based CO₂ Capture System

Adsorption-Based CO₂ Capture System

Membrane-Based CO₂ Capture System

Cryogenic-Based CO₂ Capture System

Biological-Based CO₂ Capture System

Market segment by Application

Power Generation Industry

Energy Production

Industrial Utilization

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe CO₂ Capture System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CO₂ Capture System, with revenue, gross margin, and global market share of CO₂ Capture System from 2021 to 2026.

Chapter 3, the CO₂ Capture System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and CO₂ Capture System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of CO₂ Capture System.

Chapter 13, to describe CO₂ Capture System research findings and conclusion.

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