

# Global Carbon Dioxide Capture Technology 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 Carbon Dioxide Capture Technology market size was valued at US\$ 5045 million in 2025 and is forecast to a readjusted size of US\$ 8215 million by 2032 with a CAGR of 7.3% during review period.

Carbon Dioxide Capture Technology refers to a set of technologies used to separate and capture carbon dioxide (CO<sub>2</sub>) from industrial emissions or directly from the air. Common approaches include post-combustion capture, pre-combustion capture, and direct air capture (DAC). Captured CO<sub>2</sub> can then be compressed, utilized, or stored (e.g., underground), making it a key solution for reducing greenhouse gas emissions and achieving carbon neutrality.

Carbon Dioxide Capture Technology is evolving toward large-scale deployment and higher efficiency, driven by material innovation and engineering optimization that reduce unit capture costs and enable commercialization beyond pilot projects. Advanced materials, including high-selectivity, low-energy solvents, solid sorbents, and membrane technologies, are significantly improving capture efficiency. With the push for carbon neutrality, Direct Air Capture (DAC) is gaining increased investment as a negative emissions solution and is increasingly integrated with renewable energy to lower lifecycle emissions. At the same time, integrated CCUS pathways are advancing by combining capture with utilization and storage methods such as enhanced oil recovery (EOR), chemical synthesis, and mineralization to improve economic viability. Digitalization, including AI and digital twins, is being applied to optimize processes, energy consumption, and maintenance, enhancing system stability and performance. Policy support and carbon market mechanisms, such as carbon pricing, subsidies, and tax incentives, are accelerating adoption, while modular and standardized system

designs are shortening deployment timelines and enabling scalable replication.

This report is a detailed and comprehensive analysis for global Carbon Dioxide Capture Technology 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 Carbon Dioxide Capture Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Carbon Dioxide Capture Technology 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 Carbon Dioxide Capture Technology

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 Carbon Dioxide Capture Technology 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 Exxon Mobil, Aker Solutions (SLB), Mitsubishi,

BASF, General Electric, Siemens AG, Equinor, Linde PLC, China Huaneng Group Co., Ltd., Halliburton, etc.

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

### Market segmentation

Carbon Dioxide Capture Technology 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

After Combustion

During Combustion

Before Combustion

### Market segment by Technology

Chemical Absorption

Physical Adsorption

Membrane Separation

Cryogenic Separation

### Market segment by Application

Oil & Gas

Power Plant

Others

Market segment by players, this report covers

Exxon Mobil

Aker Solutions (SLB)

Mitsubishi

BASF

General Electric

Siemens AG

Equinor

Linde PLC

China Huaneng Group Co., Ltd.

Halliburton

Honeywell UOP

China Petroleum & Chemical Corporation

Shell

Sulzer

JX Nippon (ENEOS)

Carbonfree

Fluor Corporation

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 Carbon Dioxide Capture Technology product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Carbon Dioxide Capture Technology 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 Carbon Dioxide Capture Technology 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 Carbon Dioxide Capture Technology.

Chapter 13, to describe Carbon Dioxide Capture Technology research findings and

conclusion.

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