

# Global Carbon Dioxide Capture Technology Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Carbon Dioxide Capture Technology market size is expected to reach \$ 8215 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

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 studies the global Carbon Dioxide Capture Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Dioxide Capture Technology, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Dioxide Capture Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Dioxide Capture Technology total market, 2021-2032, (USD Million)

Global Carbon Dioxide Capture Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Carbon Dioxide Capture Technology total market, key domestic companies, and share, (USD Million)

Global Carbon Dioxide Capture Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Carbon Dioxide Capture Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Carbon Dioxide Capture Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Carbon Dioxide Capture Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Carbon Dioxide Capture Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carbon Dioxide Capture Technology Market, Segmentation by Type:

After Combustion

During Combustion

Before Combustion

#### Global Carbon Dioxide Capture Technology Market, Segmentation by Technology:

Chemical Absorption

Physical Adsorption

Membrane Separation

Cryogenic Separation

Global Carbon Dioxide Capture Technology Market, Segmentation by Application:

Oil & Gas

Power Plant

Others

Companies Profiled:

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

#### Key Questions Answered

1. How big is the global Carbon Dioxide Capture Technology market?
2. What is the demand of the global Carbon Dioxide Capture Technology market?
3. What is the year over year growth of the global Carbon Dioxide Capture Technology market?
4. What is the total value of the global Carbon Dioxide Capture Technology market?
5. Who are the Major Players in the global Carbon Dioxide Capture Technology market?
6. What are the growth factors driving the market demand?

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