

Global Carbon Dioxide Capture Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Carbon Dioxide Capture Technology market size is predicted to grow from US\$ 4797 million in 2025 to US\$ 8011 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

Carbon Dioxide Capture Technology refers to a set of technologies used to separate and capture carbon dioxide (CO₂) from industrial emissions or directly from the air. Common approaches include post-combustion capture, pre-combustion capture, and direct air capture (DAC). Captured CO₂ 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.

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

This Insight Report provides a comprehensive analysis of the global Carbon Dioxide Capture Technology 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 Dioxide Capture Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon Dioxide Capture Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Dioxide Capture Technology 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 Dioxide Capture Technology.

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

Segmentation by Type:

After Combustion

During Combustion

Before Combustion

Segmentation by Technology:

Chemical Absorption

Physical Adsorption

Membrane Separation

Cryogenic Separation

Segmentation by Application:

Oil & Gas

Power Plant

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.

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

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