

# Global Carbon Capture And Storage (CCS) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Carbon Capture And Storage (CCS) market size is expected to reach \$ 7539 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Carbon capture and storage (CCS) (or carbon capture and sequestration or carbon control and sequestration) is the process of capturing waste carbon dioxide (CO<sub>2</sub>) from large point sources, such as fossil fuel power plants, transporting it to a storage site, and depositing it where it will not enter the atmosphere, normally an underground geological formation. The aim is to prevent the release of large quantities of CO<sub>2</sub> into the atmosphere (from fossil fuel use in power generation and other industries). It is a potential means of mitigating the contribution of fossil fuel emissions to global warming and ocean acidification. Although CO<sub>2</sub> has been injected into geological formations for several decades for various purposes, including enhanced oil recovery, the long term storage of CO<sub>2</sub> is a relatively new concept.

In the cost structure of Carbon Capture and Storage (CCS), the capture stage accounts for the largest share (approximately 60%-75%), mainly due to energy consumption and equipment depreciation; the transportation and storage stage accounts for 20%-30%, primarily involving pipeline construction, injection well operations, and long-term monitoring. Gross profit margins exhibit differentiation across the industry chain: upstream core equipment (compressors, membrane separation units) and specialty chemicals (amine solutions, adsorbents) can achieve gross profit margins of 40%-50%, leveraging technological barriers; engineering, procurement, and construction (EPC) and operation services have gross profit margins of approximately 15%-25%, influenced by the high capital intensity and long payback periods of projects. Downstream customers include coal-fired power plants, cement plants (Heidelberg, Lafarge), steel

companies (Arcel Mittal), and oil and gas companies. Global regional development is uneven: North America is leading in commercialization of projects by leveraging the 45Q tax credit policy and strengthening oil and gas industry applications; Europe is focusing on North Sea storage hubs and mandatory industrial decarbonization requirements, with policy driving forces being obvious; the Asia-Pacific region is accelerating the layout of demonstration projects in the fields of coal power and chemical industry; the Middle East is in the initial stage of relying on natural gas industry and storage potential, while Latin America and Africa are still mainly focused on early-stage project research.

This report studies the global Carbon Capture And Storage (CCS) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Capture And Storage (CCS), 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 Capture And Storage (CCS) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Carbon Capture And Storage (CCS) total market, 2021-2032, (USD Million)

Global Carbon Capture And Storage (CCS) total market by region & country, CAGR, 2021-2032, (USD Million)

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

Global Carbon Capture And Storage (CCS) revenue by player, revenue and market share 2021-2026, (USD Million)

Global Carbon Capture And Storage (CCS) total market by Type, CAGR, 2021-2032, (USD Million)

Global Carbon Capture And Storage (CCS) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Carbon Capture And Storage (CCS) 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, SLB Capturi, Mitsubishi, BASF, GE Vernova, Siemens AG, Equinor, Linde PLC, Huaneng, 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 Capture And Storage (CCS) 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 Capture And Storage (CCS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carbon Capture And Storage (CCS) Market, Segmentation by Type:

Pre-Combustion Carbon Capture

Oxy-Combustion Carbon Capture

Post-Combustion Carbon Capture

## Global Carbon Capture And Storage (CCS) Market, Segmentation by Process:

Geological Storage

Marine Storage

Mineralization Storage

Others

## Global Carbon Capture And Storage (CCS) Market, Segmentation by Lifecycle:

Capture

Compression and Transportation

Storage and Monitoring

Others

## Global Carbon Capture And Storage (CCS) Market, Segmentation by Application:

Oil & Gas

Power Generation

Others

## Companies Profiled:

Exxon Mobil

SLB Capturi

Mitsubishi

BASF

GE Vernova

Siemens AG

Equinor

Linde PLC

Huaneng

Halliburton

Honeywell UOP

Sinopec

Shell

Sulzer

JX Nippon (ENEOS)

Carbonfree

Fluor Corporation

### Key Questions Answered

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

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