

Global Modular Carbon Capture System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Modular Carbon Capture System market size is predicted to grow from US\$ 4799 million in 2025 to US\$ 8042 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

Modular Carbon Capture System is considered the end-stage application of carbon capture technologies. As the final step in carbon capture processes, CCU utilizes CO₂ which captured from Pre-Combustion Carbon Capture, Oxy-Combustion Carbon Capture, Post-Combustion Carbon Capture, and apply it in Oil & Gas, Power Generation, etc. In the energy sector, CO₂ is used for Enhanced Oil Recovery (EOR) to increase oil extraction efficiency. In chemicals and fuels, captured CO₂ serves as a feedstock for synthetic fuels, methanol, and other industrial chemicals. The construction industry utilizes CO₂ in concrete curing and carbonated building materials, enhancing strength while reducing emissions. Such technologies are at different stages of development, and some are already commercially available. CCS (Carbon Capture and Storage) is a technology designed to reduce carbon dioxide (CO₂) emissions by capturing CO₂ from industrial processes and power plants and piping it to a storage site to be permanently sequestered, thereby preventing it from entering the atmosphere. Whether it is CCS or CCU, the captured CO₂ needs to be compressed for transportation and subsequent processing, so CCS, CCU together form CCUS, an integrated technology that reduces greenhouse gas emissions and mitigates the impacts of climate change by capturing carbon dioxide (CO₂) generated from industrial and energy production processes and utilizing it or sequestering it. The CCUS technology is not only capable of capture and store CO₂ but also be able to convert it into valuable products, thus realizing both environmental and economic benefits. These applications not only mitigate emissions but also create economic value, driving the commercialization of CCU technologies.

Technological Advancement and Modularity:

Modular carbon capture systems are rapidly evolving due to advances in prefabrication, standardized units, and scalable designs. Unlike traditional large-scale, bespoke capture plants, MCCC can be manufactured off-site and deployed quickly, reducing both construction time and costs. Current research focuses on enhancing capture efficiency while minimizing energy consumption, through improved solvents, adsorbents, and membrane technologies. This modularity allows operators to scale capacity incrementally, which is particularly advantageous for small- and medium-sized industrial facilities that previously lacked feasible carbon capture options.

Integration with Industrial and Distributed Emission Sources:

MCCC is increasingly being applied to diverse emission points, from cement and steel plants to distributed power generation and hydrogen production facilities. The modular approach allows for retrofitting existing plants with minimal disruption, enabling industries to reduce point-source emissions efficiently. Furthermore, integration with digital monitoring and process automation enhances system reliability, operational optimization, and predictive maintenance, supporting continuous CO₂ capture without compromising industrial throughput.

Economic and Policy Drivers:

The growth of MCCC is strongly influenced by policy frameworks, carbon pricing, and incentives for low-carbon technologies. Modular systems offer a lower upfront capital investment compared to conventional capture plants, making them attractive for industries in regions with emerging carbon markets. Companies and governments are exploring deployment models such as "carbon capture as a service" (CCaaS), where modular units are operated by specialized providers, further lowering the financial barrier for adoption. Future economic viability will hinge on combining cost reductions with supportive regulatory mechanisms and carbon credit monetization.

Future Outlook and Innovation:

Looking forward, MCCC development is expected to focus on hybrid solutions that combine modular carbon capture with on-site utilization (CCU) or integration into wider CCUS networks. Advances in high-performance materials, energy-efficient process integration, and automation will further improve operational efficiency and reduce life-

cycle costs. Emerging applications include distributed hydrogen plants, bioenergy with carbon capture, and smaller industrial sites that were previously unable to implement traditional capture systems. Overall, modularity, flexibility, and standardization position MCCS as a critical technology for accelerating decarbonization across multiple sectors.

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

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

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

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

Segmentation by Type:

Onshore Type

Offshore Type

Segmentation by Technology:

Chemical Absorption

Porous Material Absorption

Membrane Separation

Others

Segmentation by Process:

After Combustion

During Combustion

Before Combustion

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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