

# Carbon Capture and Storage Market Gains Momentum as Global Demand for Emission Reduction Technologies Surges

*Global CCS market to surge by 2035, driven by net-zero goals, climate urgency, and tech funding to cut emissions from power, cement, and steel industries.*

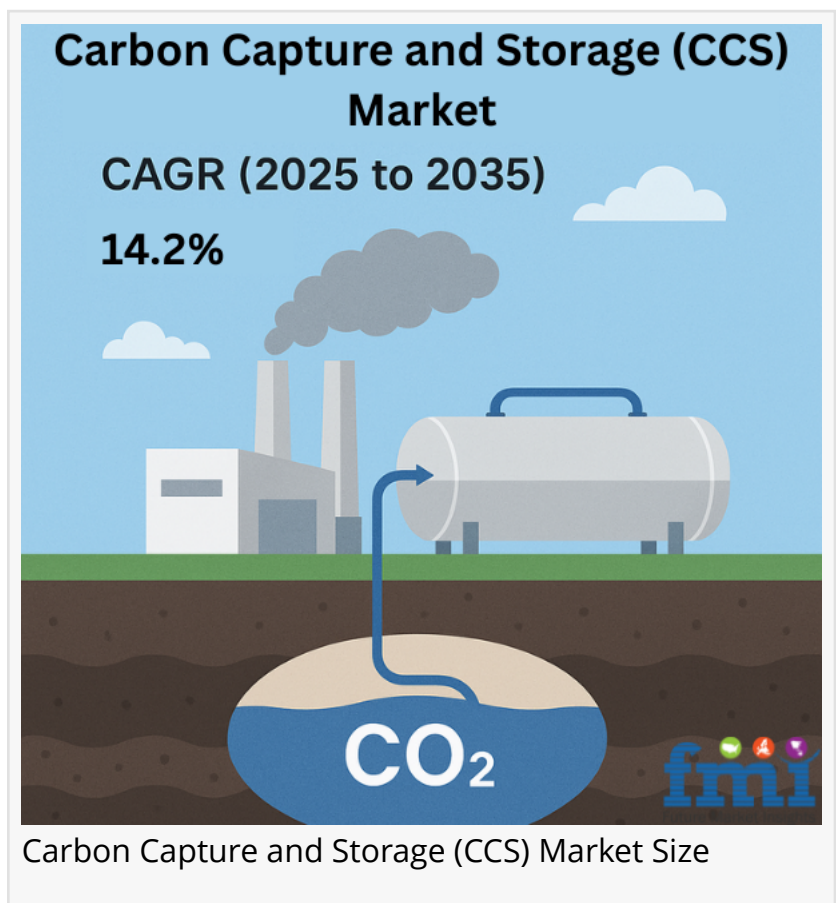
NEWARK, DE, UNITED STATES, April 22, 2025 /EINPresswire.com/ -- As of 2025, the global [carbon capture and storage \(CCS\) market](#) is valued at USD 5,473.2 million and is projected to reach USD 20,592.4 million by 2035, growing at a robust CAGR of 14.2%. This growth is driven by increasing efforts to reduce carbon emissions, stricter environmental regulations, and rising investments in sustainable technologies across industries.

CCS involves the capture of carbon dioxide (CO<sub>2</sub>) emissions from industrial processes and energy production, transporting it to a storage site, and securely storing it underground in geological formations. This advanced climate mitigation technology is proving essential in the global effort to curb greenhouse gas emissions, especially from sectors like cement, steel, petrochemicals, and power generation.

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Future Market Insights (FMI) is a leading market research and consulting firm, providing comprehensive market intelligence and strategic advisory services to businesses and organizations worldwide.

Carbon capture and storage is emerging as a critical technology in helping various sectors decarbonize their operations. Industrial applications of carbon capture and storage span power



generation, cement, steel, and chemical manufacturing—sectors known for their high carbon dioxide output. These industries are now turning to CCS to not only comply with emission norms but also to future-proof their operations against rising carbon taxes.

The commercial deployment of carbon capture systems is helping businesses align with long-term environmental goals while also benefiting from government incentives and subsidies. Companies are leveraging CCS technologies to capture CO<sub>2</sub> at the source, transport it via pipelines or ships, and store it deep underground in geological formations. This process prevents harmful emissions from entering the atmosphere and contributes to achieving net-zero targets.

Carbon capture and storage (CCS) is a technology that captures carbon dioxide (CO<sub>2</sub>) emissions from large point sources, such as power plants, industrial facilities, and refineries, and stores it underground in geological formations. This process helps reduce greenhouse gas emissions and is a key technology for achieving net-zero emissions.

Governments worldwide are playing a pivotal role in the expansion of the CCS market. With climate change taking center stage on global policy agendas, many countries have introduced government policies supporting carbon capture projects. These include tax credits, funding for pilot projects, and mandates for emission reductions, which create a favorable environment for the growth of CCS infrastructure.

As part of their climate strategies, nations across North America, Europe, and Asia-Pacific are investing in capture-ready infrastructure and incentivizing collaboration between public agencies and private enterprises. The push for energy transition technologies that balance environmental sustainability with economic growth is positioning CCS as a vital component of national decarbonization frameworks.

For more insights on the carbon capture and storage market, visit our report: <https://www.futuremarketinsights.com/reports/carbon-capture-storage-market>

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Carbon capture and storage is regarded as one of the most promising methods for reducing greenhouse gas emissions, especially in hard-to-abate sectors. The process involves capturing carbon dioxide before it enters the atmosphere, compressing it, and transporting it to a secure storage site. CCS plays a pivotal role in limiting global temperature rise by curbing CO<sub>2</sub> emissions from existing fossil fuel-based infrastructure.

With the growing urgency to act on climate change, more stakeholders are seeking clarity on how CCS helps reduce greenhouse gas emissions in a sustainable and cost-effective manner. It offers a viable bridge to a low-carbon economy while renewable energy systems are being scaled up globally.

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The regional outlook for carbon capture and storage market development shows robust activity

across key regions. North America currently leads in terms of active projects and infrastructure, while Europe is rapidly catching up with aggressive climate targets and innovative CCS hubs. Asia-Pacific, especially countries like China and India, is expected to be a major growth driver, supported by strong industrial demand and growing environmental awareness.

Emerging economies are also exploring carbon capture as a tool to balance industrial growth with ecological responsibility. These regions present significant opportunities for new market entrants, technology providers, and infrastructure developers aiming to capitalize on the evolving CCS landscape.

Top CCS Technology Providers and Key Players

Leading players in the CCS technology sector are investing heavily in research and development to improve the efficiency, scalability, and affordability of carbon capture systems. These top companies in the CCS technology sector are also forming strategic alliances and joint ventures to expand their footprint and enter new markets.

Key CCS Technology Providers:

- ExxonMobil
- Chevron Corporation
- Royal Dutch Shell
- Total Energies
- Mitsubishi Heavy Industries
- Linde plc
- Siemens Energy

For more detailed insights on the CCS market, visit:

<https://www.futuremarketinsights.com/industry-analysis/sustainable-and-green-technologies>

Market Segmentation

By Technology:

- Pre-combustion
- Post-combustion
- Oxy-fuel Combustion

By End-Use Industry:

- Oil and Gas
- Coal and Biomass Power Plant
- Iron and Steel
- Chemicals
- Others

By Region:

- North America
- Latin America
- Western Europe
- Eastern Europe
- Asia Pacific Excluding Japan
- Japan
- Middle East & Africa

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