

Global Carbon Capture and Storage Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Capture and Storage market size was valued at USD 4053 million in 2023 and is forecast to a readjusted size of USD 5991.2 million by 2030 with a CAGR of 5.7% during review period.

Carbon capture and storage (CCS) (or carbon capture and sequestration or carbon control and sequestration) is the process of capturing waste carbon dioxide (CO₂) 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 CO₂ 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 CO₂ has been injected into geological formations for several decades for various purposes, including enhanced oil recovery, the long term storage of CO₂ is a relatively new concept.

The main Carbon Capture and Storage players include Exxonmobil Corporation, Schlumberger, Linde AG, Halliburton, etc. The top four Carbon Capture and Storage players account for approximately 35% of the total global market. America is the largest consumer market for Carbon Capture and Storage accounting for about 49%, followed by Asia Pacific and Europe. In terms of Type, S Post-Combustion Carbon Capture is the largest segment with a share of 83%. And in terms of Applications, the largest segment is Oil & Gas, followed by Power Generation.

The Global Info Research report includes an overview of the development of the Carbon

Capture and Storage industry chain, the market status of Oil & Gas (Pre-Combustion Carbon Capture, Oxy-Combustion Carbon Capture), Power Generation (Pre-Combustion Carbon Capture, Oxy-Combustion Carbon Capture), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Carbon Capture and Storage.

Regionally, the report analyzes the Carbon Capture and Storage markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Carbon Capture and Storage market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Carbon Capture and Storage market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Carbon Capture and Storage industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Pre-Combustion Carbon Capture, Oxy-Combustion Carbon Capture).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Carbon Capture and Storage market.

Regional Analysis: The report involves examining the Carbon Capture and Storage market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Carbon Capture and Storage market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Carbon Capture and Storage:

Company Analysis: Report covers individual Carbon Capture and Storage players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Carbon Capture and Storage. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil & Gas, Power Generation).

Technology Analysis: Report covers specific technologies relevant to Carbon Capture and Storage. It assesses the current state, advancements, and potential future developments in Carbon Capture and Storage areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Carbon Capture and Storage market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Carbon Capture and Storage market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Pre-Combustion Carbon Capture

Oxy-Combustion Carbon Capture

Post-Combustion Carbon Capture

Market segment by Application

Oil & Gas

Power Generation

Others

Market segment by players, this report covers

Exxonmobil Corporation

Schlumberger

Huaneng

Linde AG

Halliburton

BASF

General Electric

Siemens

Honeywell UOP

Sulzer

Equinor

NRG

AkerSolutions

Shell

Skyonic Corp.

Mitsubishi Hitachi

Fluor

Sinopec

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Carbon Capture and Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Carbon Capture and Storage, with revenue, gross margin and global market share of Carbon Capture and Storage from 2019 to 2024.

Chapter 3, the Carbon Capture and Storage competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with

revenue and market share for key countries in the world, from 2019 to 2024. and Carbon Capture and Storage market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Carbon Capture and Storage.

Chapter 13, to describe Carbon Capture and Storage research findings and conclusion.

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