

Carbon Management System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Carbon Management System Market size is estimated at USD 16.11 billion in 2025, and is expected to reach USD 28.50 billion by 2030, at a CAGR of 12.09% during the forecast period (2025-2030).

The demand for carbon management systems is continuously increasing due to the increasing stringency of climate change regulations, the growing cost of carbon emissions, and evolving technologies related to carbon management.

The introduction of carbon emission policies is a key driver of the increasing demand for carbon management systems globally. These policies create a favorable environment for adopting carbon management systems with emission reduction targets, carbon pricing and taxation, compliance, and regulatory requirements.

The integration of advanced technologies with carbon management platforms enables real-time tracking of carbon emissions to take effective necessary prevention, driving the sales of carbon management systems in the market.

In addition, with growing awareness among businesses about the importance of sustainability and corporate social responsibility, many organizations are setting targets for carbon reduction, aiming for carbon neutrality that aligns with international climate commitments. In this way, the adoption of carbon management systems by companies is increasing considerably to track progress and identify areas for development.

The continuously evolving regulatory environment makes it difficult for businesses to compare different systems for implementation. Technological changes present challenges for carbon management system providers to keep up with the latest technology trends, which are some factors challenging market growth.

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In order to preserve sustainability, market players are expanding their capacities and reach through partnerships and alliances in the area of carbon management. For instance, according to the International Energy Agency, to reach net zero emissions by 2050, annual clean energy investment worldwide will demand more than triple by 2030 to approximately USD 4 trillion. This initiative is expected to generate a multitude of new employment opportunities, substantially boost the worldwide economy, and ensure everyone has access to electricity and clean cooking methods by the decade's end.

Global environmental challenges, including climate changes, have become more visible because of the COVID-19 pandemic. The demand for carbon management solutions has grown as organizations and governments focus on sustainability and reducing their environmental footprint. In addition, businesses have been adopting digital solutions for the management of their environmental data and effective collaboration on sustainability initiatives, as remote work was the compulsion during the pandemic.

Carbon Management System Market Trends

The Oil and Gas Industry to Witness Growth

- The oil and gas industry is expected to contribute significantly to market growth. As one of the largest and most carbon-intensive industries worldwide, it is facing increased pressure to reduce its carbon footprint and transition toward a more sustainable future.
- Digital technologies could benefit scope 1 and 2 emissions as oil firms set more challenging targets for emissions reduction. Tracking harmful methane emissions from oil wells and pipelines is crucial, and machine learning helps refine energy use more efficiently. Drones, sensors, satellite, and camera data are also vital.
- Several companies are working on mitigating the carbon dioxide emissions of industrial operations and accelerating the transition to net zero. For instance, AVEVA is working closely with Aker Carbon Capture, which designs and builds facilities for companies in carbon-intensive industries, such as cement, steel, and oil and gas.
- Due to growing investor demand to reduce greenhouse gas emissions, more digital companies are releasing software that oil and gas producers may use to assess their carbon emissions. In July 2024, California Resources Corporation introduced the completion of the all-stock combination with Aera Energy LLC (Aera). This transformational deal creates significant scale and asset durability to meet California's growing energy needs and expands its leading carbon management platform to help the state meet its ambitious climate goals.

North America Accounts for Largest Market Share

- The launch of several Carbon Management Programmes in North America represents a significant step toward making Airport Carbon Accreditation the global standard for airport carbon management. At the initiative's launch ceremony, Seattle-Tacoma International Airport received certification for the first time in North America.
- Several government initiatives regarding net-zero emissions are anticipated to fuel demand in the market. In response to the government's goal of net-zero emissions by 2050, the Department of Energy (DOE) in the United States launched the Carbon Negative Shot, an all-hands-on-deck call for innovation in CO2 removal pathways that will capture carbon dioxide from the atmosphere and store it at gigaton scales for less than USD 100/net tonne of carbon dioxide-equivalent.
- Market demand is also increasing due to government measures to reduce energy emissions from several outdated public buildings. For instance, thanks to a contract signed by the US General Services Administration with IBM Corporation, the 50 most energy-intensive buildings owned by the state and federal governments will have efficient and smart building technology installed.

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- According to the Energy Information Administration (EIA), US energy-related CO2 emissions decreased slightly in 2023 compared to 2022. Although emissions decreased across many economic industries, more than 80% of US energy-related CO2 emissions reductions in 2023 occurred in the electric power industry. These reductions were caused largely by reduced coal-fired electricity generation, as natural gas and solar power made up a larger portion of the generation mix. Therefore, the government's focus on reducing carbon emissions generated by the energy industry is likely to support the market demand positively in the coming years.

Carbon Management System Industry Overview

The carbon management system market is fragmented, as many players are offering software for management and monitoring. This surge in numbers is being caused by greater uptake of cloud services. Businesses that offer consultation services are expected to grow steadily and exhibit a similar pattern during the forecast period.

- June 2024 - Workiva, a global provider of assured integrated reporting solutions, expanded its tech portfolio with the launch of Workiva Carbon. This new addition enhances its Environmental, Social, and Governance (ESG) and Sustainability platforms, enabling businesses to adhere to stringent global climate regulations effectively.
- March 2024 - SLB announced an agreement to combine its carbon capture business with Aker Carbon Capture (ACC) to support accelerated industrial decarbonization at scale. The agreement may bring together complementary technology portfolios, leading process design expertise, and an established project delivery platform. The combination will utilize ACC's commercial carbon capture product offering and SLB's new technology developments and industrialization capability.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Threat of Substitute Products and Services
 - 4.2.5 Intensity of Competitive Rivalry
- 4.3 Assessment of the Impact of COVID-19 on the Market

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5 MARKET DYNAMICS

5.1 Market Drivers

5.1.1 Increasing Environmental Concerns and Focus on Reducing Carbon Footprints

5.2 Market Challenges

5.2.1 Managing Variable Energy and Resource Demand

6 MARKET SEGMENTATION

6.1 By Offering

6.1.1 Software

6.1.2 Services

6.2 By Application

6.2.1 Energy

6.2.2 Greenhouse Gas Management

6.2.3 Air Quality Management

6.2.4 Sustainability

6.2.5 Other Applications

6.3 By End-user Verticals

6.3.1 Oil and Gas

6.3.2 Manufacturing

6.3.3 Healthcare

6.3.4 IT and Telecom

6.3.5 Other End-user Verticals

6.4 By Geography

6.4.1 North America

6.4.2 Europe

6.4.3 Asia

6.4.4 Australia and New Zealand

6.4.5 Latin America

6.4.6 Middle East and Africa

7 COMPETITIVE LANDSCAPE

7.1 Company Profiles

7.1.1 Simble Solutions Ltd

7.1.2 IBM Corporation

7.1.3 ENGIE Impact

7.1.4 GreenStep Solutions Inc.

7.1.5 SAP SE

7.1.6 Enablon SA

7.1.7 IsoMetrix

7.1.8 Schneider Electric SE

7.1.9 Salesforce.com Inc.

7.1.10 Greenstone+ Ltd

7.1.11 Microsoft Corporation

7.1.12 Sphera

8 INVESTMENT ANALYSIS

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