

Global Marine Carbon Dioxide Removal Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Marine Carbon Dioxide Removal market size is predicted to grow from US\$ 777 million in 2025 to US\$ 1971 million in 2032; it is expected to grow at a CAGR of 14.5% from 2026 to 2032.

Marine carbon dioxide removal refers to a series of technological pathways aimed at mitigating climate change by enhancing the ocean's capacity to absorb and store atmospheric carbon dioxide through human intervention. Its core lies in leveraging the ocean, the world's largest active carbon sink, and using physical, chemical, or biological methods to overcome the limitations of natural cycles and achieve active carbon removal and long-term storage. Key methods include increasing seawater alkalinity to enhance its chemical carbon sequestration capacity, using nutrients or artificial upwelling to stimulate phytoplankton growth and strengthen the biopump effect, conducting large-scale seaweed cultivation followed by seabed deposition, and directly performing deep-sea carbon dioxide sequestration. These technologies aim to synergistically mitigate ocean acidification, but all face key challenges such as ecological risks, monitoring and verification, and global governance, representing the forefront of current negative emission technology research.

Currently, global exploration of marine carbon dioxide removal exhibits significant regional characteristics. North America (represented by the United States) and Europe lead in technological research and development, financial investment, and the number of startups, driving the technology from the laboratory to small-scale offshore trials. In the Asia-Pacific region, countries such as China and Japan are making rapid progress in related basic research and technology demonstrations, with Japan already conducting early-stage marine alkalization experiments. Notably, small island developing states and countries with vast exclusive economic zones (such as Norway

and Canada), due to their close interdependence with the ocean, are highly cautious about the ecological risks of such technologies, emphasizing an international governance framework based on early warning principles. Globally, related activities remain highly concentrated along the coasts of developed countries with strong scientific research capabilities, and applications in areas such as the high seas are still largely unexplored due to complex legal and ethical issues.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Marine Carbon Dioxide Removal 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 Marine Carbon Dioxide Removal.

This report presents a comprehensive overview, market shares, and growth opportunities of Marine Carbon Dioxide Removal market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Chemical Absorption

Physical Adsorption

Membrane Separation

Cryogenic Separation

Others

Segmentation by Intervention Location:

Surface Layer

Middle Layer

Deep Layer

Segmentation by Time Scale:

Short-Term Storage (Several Years to Decades)

Medium to Long-Term Storage (Hundreds of Years)

Long-Term Storage (Over a Thousand Years)

Segmentation by Application:

Shipping and Logistics

Oil and Gas Energy

Port Management and Services

Chemical and Energy Conversion

Carbon Sequestration and Utilization

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.

Brilliant Planet

Captura

Carbfix

Ebb Carbon

Equatic

Gigablue

Kelp Blue

Limenet

Planetary Technologies

Seafields

SeaO2

Vesta

Vycarb

Ephemeral Carbon

CarbonBlue

Carbonfuture

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