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Global Ship-based Carbon Capture (SBCC) Market Growth 2026-2032

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Abstracts

The global Ship-based Carbon Capture (SBCC) market size is predicted to grow from US$ 186 million in 2025 to US$ 934 million in 2032; it is expected to grow at a CAGR of 28.6% from 2026 to 2032.

Ship-based carbon capture (SBCC) is a technology designed to capture carbon dioxide (CO?) from exhaust gases generated during ship navigation. This technology is considered a key pathway for the international shipping industry to achieve a green transformation and cope with increasingly stringent carbon emission regulations. The core working principle of the SBCC system is post-combustion capture, which involves treating the exhaust gases emitted after combustion in ship engines or boilers. During capture, the exhaust gases come into contact with a chemical solvent (such as monoethanolamine (MEA)) that selectively absorbs CO?. The CO?-rich liquid is then regenerated through heating and other methods, releasing a high-concentration CO? stream. This high-concentration CO? is then compressed and liquefied, and temporarily stored in dedicated CO? tanks on board. When the ship docks, this liquid CO? can be unloaded and transported ashore for permanent geological storage (such as injection into depleted oil and gas fields or deep brine aquifers), or used as a raw material for the production of e-fuels, chemical products, etc., thus achieving resource utilization.

W?rtsil?, Panasia, and Ecospray are among the companies that have adopted or developed this approach. Meanwhile, to reduce regeneration heat consumption and equipment size, some companies have begun using alkaline or mineralization technologies such as NaOH and CaO/Ca(OH)? to convert CO? into carbonates or solid calcium carbonate. Langh Tech uses NaOH to form stable Na?CO?, while Seabound converts CO? into CaCO? through a calcium cycle. DNV currently considers chemical absorption, membrane separation, cryogenic separation, and mineralization as its

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primary shipboard afterburning capture routes.

The key to future product competition will not just be the nominal "capture rate," but a comprehensive balance between net emission reduction rates, energy consumption, land use, weight, and cargo hold losses. Capture, solvent regeneration, CO? compression, and liquefaction all require heat and electricity, leading to additional fuel consumption increases. DNV's system simulations for Suezmax tankers show that even with simple modifications, additional energy consumption can reach high levels. However, advanced solvent, waste heat recovery, and efficient liquefaction systems can significantly reduce fuel penalties and improve net emissions reductions. Therefore, tankers, bulk carriers, container ships, and large gas carriers with large main engine power, abundant waste heat resources, large deck space, and relatively fixed routes are more suitable for adopting SBCC (Ship-Based Carrier Combustion) than smaller vessels with limited space and highly dispersed routes.

Another factor determining whether the market can truly scale up is port CO? unloading and downstream CCUS (Carrier-Based Storage and Recycling) infrastructure. Capturing CO? does not equate to permanent emissions reduction: liquid CO? or mineralized products must be successfully unloaded upon berthing and integrated into transportation, utilization, or permanent geological storage systems. A recent study by ICS/Lloyd’s Register in 2026 clearly states that while OCCS technology itself is already quite mature, large-scale commercial deployment still depends on three gaps: ship integration, CO? disposal infrastructure, and regulatory/carbon accounting certainty.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Ship-based Carbon Capture (SBCC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ship-based Carbon Capture (SBCC) portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ship-based Carbon Capture (SBCC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ship-based Carbon Capture (SBCC) 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 Ship-based Carbon Capture (SBCC).

This report presents a comprehensive overview, market shares, and growth opportunities of Ship-based Carbon Capture (SBCC) market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Chemical Absorption

Physical Absorption

Segmentation by Capture Rate:

Below 30%

30-70%

Above 70%

Segmentation by Application:

Large Oil Tankers

Bulk Carriers

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Container Ships

Gas Carriers

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

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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 analysing the company's coverage, product portfolio, its market penetration.

W?rtsil?

Value Maritime

Seabound

Panasia

Ecospray

Langh Tech

Mitsubishi Shipbuilding

HD Hyundai Group

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willb?

Carbon Ridge

Shanghai Qiyao Environmental Technology

CSSC Power Group

Sinotech Energy

Headway Technology Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ship-based Carbon Capture (SBCC) market?

What factors are driving Ship-based Carbon Capture (SBCC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ship-based Carbon Capture (SBCC) market opportunities vary by end market size?

How does Ship-based Carbon Capture (SBCC) break out by Type, by Application?

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