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Global Onboard Carbon Capture and Storage (OCCS) Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Onboard Carbon Capture and Storage (OCCS) market size is predicted to grow from US$ 182 million in 2025 to US$ 896 million in 2032; it is expected to grow at a CAGR of 28.5% from 2026 to 2032.

Onboard carbon capture and storage (OCCS) is a technological solution that involves capturing, liquefying, and temporarily storing carbon dioxide (CO2) directly on board the ship during navigation, using exhaust gases from its engines or boilers, and then unloading it to shore-based facilities for permanent geological storage after the ship docks. This technology is considered one of the core technological pathways for the international shipping industry to cope with increasingly stringent greenhouse gas emission reduction regulations and achieve the International Maritime Organization's (IMO) net-zero emission strategic goal around 2050.

At the technical implementation level, OCCS systems generally adopt post-combustion chemical absorption as the mainstream process. The basic process is as follows: exhaust gases from the ship's main and auxiliary engines first undergo pretreatment processes such as desulfurization, denitrification, and dust removal and cooling to remove sulfur oxides, nitrogen oxides, and particulate matter. The purified exhaust gases then enter an absorption tower where they come into full contact with an amine-based chemical solvent. The solvent selectively absorbs CO2, while the unabsorbed purified gas is directly released into the atmosphere. The rich liquid that has absorbed CO2 is regenerated by heating to release a high-concentration CO2 gas stream, and the regenerated lean liquid is cooled and recycled. The extracted high-purity carbon dioxide is liquefied through processes such as compression, dehydration, and condensation, and temporarily stored in dedicated cryogenic liquid carbon dioxide tanks on board. When the ship docks at a port with receiving capabilities, this liquid carbon

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dioxide is unloaded to a shore-based terminal via ship-to-shore connection facilities, and is ultimately transported to depleted oil and gas fields or deep brackish water layers for permanent storage, thus achieving a closed-loop chain of capture and storage.

Energy consumption and ship system integration will be key techno-economic factors determining the speed of market penetration. After CO2 capture, solvent regeneration, compression, drying, liquefaction, and storage are required, all of which consume steam, electricity, and cooling capacity. If additional energy is still primarily provided by ship fuel oil, the actual net emission reduction will be significantly lower than the system's nominal capture rate. A study by Det Norske Veritas (DNV) on large oil tankers shows that, without system optimization, onboard capture can result in approximately 9% to 24% additional energy consumption; while some retrofitting schemes can capture significant amounts of CO2, the net emission reduction level will decrease significantly after considering the additional fuel consumption. Therefore, future equipment development will increasingly emphasize the utilization of main engine waste heat, regenerative heat recovery, efficient compression liquefaction, and integrated design with the ship's steam, electricity, and cooling systems.

From a ship type and commercial application perspective, large bulk carriers, oil tankers, container ships, LNG carriers, and other large ocean-going merchant ships are expected to be the first markets to achieve large-scale application. These ships have high annual fuel consumption and high CO2 emissions per ship. Therefore, installing carbon capture and storage systems can result in more significant absolute emission reductions and potential carbon cost savings. Furthermore, their larger deck and engine room spaces are more suitable for accommodating capture, regeneration, liquefaction, and storage equipment. Fixed shipping routes are also crucial. Therefore, the future development of onboard carbon capture and storage will not be evenly distributed across all ships globally, but will instead focus first on fleets with larger emissions, suitable age and remaining lifespan, stable routes, and the ability to connect to CO2 receiving facilities.

Report Scope

LPI (LP Information)' newest research report, the “Onboard Carbon Capture and Storage (OCCS) Industry Forecast” looks at past sales and reviews total world Onboard Carbon Capture and Storage (OCCS) sales in 2025, providing a comprehensive analysis by region and market sector of projected Onboard Carbon Capture and Storage (OCCS) sales for 2026 through 2032. With Onboard Carbon Capture and

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Storage (OCCS) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Onboard Carbon Capture and Storage (OCCS) industry.

This Insight Report provides a comprehensive analysis of the global Onboard Carbon Capture and Storage (OCCS) 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 Onboard Carbon Capture and Storage (OCCS) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Onboard Carbon Capture and Storage (OCCS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Onboard Carbon Capture and Storage (OCCS) 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 Onboard Carbon Capture and Storage (OCCS).

This report presents a comprehensive overview, market shares, and growth opportunities of Onboard Carbon Capture and Storage (OCCS) market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Chemical Absorption

Alkaline/Mineralization Capture

Membrane Separation

Others

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Segmentation by Capture Rate:

Below 30%

30-70%

Above 70%

Segmentation by Application:

Large Oil Tankers

Bulk Carriers

Container Ships

Gas Carriers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- 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.

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W?rtsil?

Value Maritime

Seabound

Panasia

Ecospray

Langh Tech

Mitsubishi Shipbuilding

HD Hyundai Group

willb?

Carbon Ridge

Shanghai Qiyao Environmental Technology

CSSC Power Group

Sinotech Energy

Headway Technology Group

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