

Global Shipboard Carbon Capture and Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Shipboard Carbon Capture and Storage System market size is expected to reach \$ 412 million by 2032, rising at a market growth of 25.2% CAGR during the forecast period (2026-2032).

Shipboard Carbon Capture and Storage Systems are shipboard emission-reduction systems used to capture CO₂ from marine engine exhaust gas, process and separate the CO₂, liquefy or compress it, temporarily store it onboard, and offload it at ports or dedicated CO₂ receiving facilities. The system usually includes exhaust gas pre-conditioning, CO₂ absorption or separation modules, solvent regeneration units, compression or liquefaction units, onboard storage tanks, control systems, safety systems, and offloading interfaces. It is mainly used on large ocean-going vessels such as tankers, bulk carriers, container ships, LNG carriers, chemical tankers, cruise ships, and other vessels with high fuel consumption and long remaining operating lives. This category excludes land-based carbon capture systems, ship scrubbers without CO₂ capture, LNG fuel systems, ordinary exhaust gas cleaning systems, and port-side CO₂ storage infrastructure. The industrial chain of Onboard Carbon Capture and Storage Systems includes upstream suppliers of absorbers, solvents, membranes, heat exchangers, compressors, liquefaction units, pumps, valves, CO₂ storage tanks, cryogenic components, sensors, control systems, exhaust gas treatment components, safety devices, and marine engineering materials. Midstream manufacturers and marine engineering integrators combine exhaust gas pre-treatment, CO₂ capture, solvent regeneration or separation, compression, liquefaction, onboard storage, process control, safety monitoring, and ship integration engineering into complete systems. Downstream applications include oil tankers, bulk carriers, container vessels, LNG carriers, chemical tankers, cruise ships, offshore vessels, and retrofit projects for

existing fleets. Supporting services include feasibility studies, ship design modification, installation, commissioning, performance testing, CO₂ offloading coordination, maintenance, solvent replacement, safety inspection, crew training, and lifecycle technical support. In 2025, global Onboard Carbon Capture and Storage System production reached approximately 16 units, with an average global market price of around US\$5,000,000 per unit. The gross profit margin of major companies in the industry is between 25%-45%. In 2025, the global production capacity of onboard carbon capture and storage systems was approximately 23 units.

The Shipboard Carbon Capture and Storage System market is still in the demonstration and early commercialization stage, driven by IMO decarbonization pressure, EU maritime emission regulations, shipowner demand for retrofit-based carbon reduction, and the need to extend the operating life of existing fossil-fuel vessels. Actual installations remain limited because onboard space, energy consumption, CO₂ storage volume, port offloading infrastructure, safety rules, and project economics remain key constraints. Demand is mainly concentrated in large ocean-going vessels with high emissions and sufficient onboard space, especially tankers, bulk carriers, container ships, and LNG carriers. Suppliers are improving CO₂ capture efficiency, solvent regeneration, heat integration, liquefaction, storage tank design, safety monitoring, offloading interfaces, and ship integration capability. Although the current market size is small, rapid growth is expected as pilot projects move toward commercial retrofits and shipping companies seek practical compliance routes before alternative fuels become widely available.

This report studies the global Shipboard Carbon Capture and Storage System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Shipboard Carbon Capture and Storage System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Shipboard Carbon Capture and Storage System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Shipboard Carbon Capture and Storage System total production and demand, 2021-2032, (Units)

Global Shipboard Carbon Capture and Storage System total production value, 2021-2032, (USD Million)

Global Shipboard Carbon Capture and Storage System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Shipboard Carbon Capture and Storage System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Shipboard Carbon Capture and Storage System domestic production, consumption, key domestic manufacturers and share

Global Shipboard Carbon Capture and Storage System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Shipboard Carbon Capture and Storage System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Shipboard Carbon Capture and Storage System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Shipboard Carbon Capture and Storage System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wärtsilä Corporation, ERMA FIRST S.A., Ecospray Technologies S.r.l., Value Maritime B.V., Lantech Oy Ab, Seabound Ltd., Carbon Ridge, Inc., Ionada Carbon Solutions, Rotoblast AS, Mitsubishi Shipbuilding Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Shipboard Carbon Capture and Storage System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Shipboard Carbon Capture and Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Shipboard Carbon Capture and Storage System Market, Segmentation by Type:

Chemical Absorption Onboard Carbon Capture and Storage Systems

Solid Sorbent Onboard Carbon Capture and Storage Systems

Membrane Separation Onboard Carbon Capture and Storage Systems

Cryogenic Separation Onboard Carbon Capture and Storage Systems

Global Shipboard Carbon Capture and Storage System Market, Segmentation by Carbon Storage Form:

Compressed Gaseous CO₂ Storage Onboard Carbon Capture and Storage Systems

Liquefied CO₂ Storage Onboard Carbon Capture and Storage Systems

Solid Carbonate Storage Onboard Carbon Capture and Storage Systems

Hybrid CO₂ Storage Onboard Carbon Capture and Storage Systems

Global Shipboard Carbon Capture and Storage System Market, Segmentation by Capture Capacity:

Up to 10 t per Day CO₂ Capture Capacity Systems

Above 10 t per Day to 50 t per Day CO₂ Capture Capacity Systems

Above 50 t per Day to 150 t per Day CO₂ Capture Capacity Systems

Above 150 t per Day CO₂ Capture Capacity Systems

Global Shipboard Carbon Capture and Storage System Market, Segmentation by Application:

Container Ships

Bulk Carriers and Tankers

Cruise Ships and Passenger Ferries

Gas Carriers

Offshore Support and Service Vessels

Companies Profiled:

Wartsila Corporation

ERMA FIRST S.A.

Ecospray Technologies S.r.l.

Value Maritime B.V.

Langh Tech Oy Ab

Seabound Ltd.

Carbon Ridge, Inc.

Ionada Carbon Solutions

Rotoboost AS

Mitsubishi Shipbuilding Co., Ltd.

PANASIA Co., Ltd.

Samsung Heavy Industries Co., Ltd.

Hanwha Ocean Co., Ltd.

HD Hyundai Marine Solution Co., Ltd.

Shanghai Qiyao Environmental Technology Co., Ltd.

Headway Technology Group (Qingdao) Co., Ltd.

CSSC Power (Group) Corporation Limited

Carbon Clean Solutions Limited

Key Questions Answered:

1. How big is the global Shipboard Carbon Capture and Storage System market?
2. What is the demand of the global Shipboard Carbon Capture and Storage System market?
3. What is the year over year growth of the global Shipboard Carbon Capture and Storage System market?
4. What is the production and production value of the global Shipboard Carbon Capture and Storage System market?
5. Who are the key producers in the global Shipboard Carbon Capture and Storage System market?
6. What are the growth factors driving the market demand?

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