

# **Global Onboard Carbon Capture System (OCCS) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Onboard Carbon Capture System (OCCS) market size was valued at US\$ 77.17 million in 2025 and is forecast to a readjusted size of US\$ 862 million by 2032 with a CAGR of 41.0% during review period.

Onboard Carbon Capture System (OCCS) is a marine emission-reduction system installed on a newbuild or an existing vessel to treat exhaust gases generated by main engines, auxiliary engines and boilers. Following exhaust cooling and pretreatment, carbon dioxide is separated using conventional amine absorption, centrifugal intensified absorption, solid sorbents, alkaline mineralization or other capture processes. The captured carbon may be compressed, liquefied and stored in cryogenic tanks, retained in a carbon-rich solvent, or converted into stable carbonate solids for subsequent offloading, industrial utilization, synthetic-fuel production or permanent geological storage.

A complete OCCS normally incorporates exhaust-gas pretreatment, carbon absorption and regeneration or fixation, compression and liquefaction, onboard storage, automated control and emissions monitoring, and an offloading interface. It can be integrated into a newbuild, retrofitted to an existing vessel, or installed through a phased carbon-capture-ready configuration. Key performance indicators include rated capture capacity, design capture rate, specific energy consumption, footprint and weight, carbon dioxide purity, storage autonomy and the degree of integration with engines, boilers and waste-heat systems.

In 2025, the global shipment volume of Onboard Carbon Capture System (OCCS) is

estimated at approximately 15 sets, with a price of approximately US\$5 million per set and a gross margin of approximately 22% to 32%.

The international shipping industry is moving from an efficiency-led decarbonization phase toward a period in which fuel transition and absolute emissions reduction must progress simultaneously. Zero- and near-zero-carbon fuels remain constrained by production capacity, cost, bunkering infrastructure and vessel compatibility, while much of the existing ocean-going fleet still has a long remaining service life. OCCS allows shipowners to continue using established marine fuels while reducing direct carbon emissions and can be retrofitted to existing vessels. It is therefore evolving from a technology-validation tool into an asset that can control carbon exposure, improve vessel carbon intensity and extend the economic life of existing ships.

Market expansion remains constrained by energy consumption, onboard space and the availability of downstream carbon infrastructure. Conventional amine systems require absorbers, regeneration heat, compression and liquefaction equipment, and storage tanks, potentially increasing fuel consumption and reducing cargo capacity. Sulfur oxides, nitrogen oxides and particulate matter in the exhaust can also affect solvent life and operating stability. Recognition of captured carbon as a compliant emissions reduction depends on monitoring, reporting and verification, lifecycle accounting, port offloading, cross-border transportation and permanent-storage rules. Differences in machinery layouts and voyage profiles also make current projects highly customized, increasing engineering, certification and installation costs.

Near-term demand is expected to be concentrated among tankers, gas carriers, bulk carriers and large container ships with high fuel consumption, significant carbon-cost exposure and predictable port calls. The market is likely to progress from modular or capture-ready systems targeting 10% to 30% reductions toward full-process systems capable of capturing 60% to 90% of emissions and incorporating compression, liquefaction and onboard storage. As port receiving networks develop, industry revenue will extend beyond equipment sales to solvents and reagents, storage and liquefaction modules, remote monitoring, maintenance, carbon verification, and carbon transportation and disposal services, creating a broader ship-to-shore carbon-management market.

This report is a detailed and comprehensive analysis for global Onboard Carbon Capture System (OCCS) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand

trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Onboard Carbon Capture System (OCCS) market size and forecasts, in consumption value (\$ Million), sales quantity (Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Onboard Carbon Capture System (OCCS) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Onboard Carbon Capture System (OCCS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Onboard Carbon Capture System (OCCS) market shares of main players, shipments in revenue (\$ Million), sales quantity (Sets), and ASP (K US\$/Sets), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Onboard Carbon Capture System (OCCS)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Onboard Carbon Capture System (OCCS) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Wartsil Corporation, Value Maritime B.V., Lantech Oy Ab, Carbon Ridge, Inc., Seabound Carbon Ltd, Ecospray Technologies S.r.l., PANASIA Co., Ltd., Ionada GmbH, HI AIR KOREA Co., Ltd.,

Mitsubishi Shipbuilding Co., Ltd., etc.

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

## Market Segmentation

Onboard Carbon Capture System (OCCS) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Up To 0.5 t/h

Above 0.5 To 2.0 t/h

Above 2.0 To 6.0 t/h

Above 6.0 t/h

### Market segment by Design CO<sub>2</sub> Capture Rate

Up To 30%

Above 30% To 60%

Above 60% To 80%

Above 80%

### Market segment by Captured CO<sub>2</sub> Product Form

Liquefied CO<sub>2</sub>

Solvent-Bound CO?

Solid Carbonate

Others

#### Market segment by Application

Tankers and Gas Carriers

Bulk Carriers

Container Ships

Others

#### Major players covered

W?rtsil? Corporation

Value Maritime B.V.

Langh Tech Oy Ab

Carbon Ridge, Inc.

Seabound Carbon Ltd

Ecospray Technologies S.r.l.

PANASIA Co., Ltd.

Ionada GmbH

HI AIR KOREA Co., Ltd.

Mitsubishi Shipbuilding Co., Ltd.

Hyundai Heavy Industries Power Systems Co., Ltd.

Shanghai Qiyao Environmental Technology Co., Ltd.

Headway Technology Group (Qingdao) Co., Ltd.

SINOTECH ENERGY CO., LTD.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Onboard Carbon Capture System (OCCS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Onboard Carbon Capture System (OCCS), with price, sales quantity, revenue, and global market share of Onboard Carbon Capture System (OCCS) from 2021 to 2026.

Chapter 3, the Onboard Carbon Capture System (OCCS) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Onboard Carbon Capture System (OCCS) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by

regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Onboard Carbon Capture System (OCCS) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Onboard Carbon Capture System (OCCS).

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