

Commercial Dry Marine Scrubber Systems Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

The Global Commercial Dry Marine Scrubber Systems Market reached USD 318.1 million in 2023 and is projected to grow at a 9.5% CAGR from 2024 to 2032. These scrubbers are designed to clean ship emissions by removing sulfur oxides (SOx) and particulate matter without using water, unlike traditional scrubbers. Instead, they rely on dry absorbents to neutralize pollutants and convert them into non-hazardous compounds. The rising adoption of dry scrubber systems is driven by the cost-saving benefits of eliminating the need for large volumes of water, thus reducing water procurement and wastewater treatment expenses. Demand is especially high among commercial vessels operating in regions with stringent water discharge regulations, as these systems simplify operations by avoiding the complexities involved in treating and disposing of wash water.

In terms of fuel, the dry marine scrubber market for marine gas oil (MGO) is anticipated to exceed USD 100 million by 2032. MGO's clean-burning properties decrease soot and residue formation, which enhances engine longevity and performance. In addition, MGO's relatively low sulfur content, along with its cost advantages over alternative fuels, makes it an attractive option, supporting wider adoption of dry scrubber technology for vessels running on this fuel. There is also a growing industry shift toward scrubber systems that offer operational simplicity, minimizing onboard system maintenance requirements. This aspect is highly appealing to ship operators navigating routes with diverse environmental standards, enabling smoother transitions between ports with varying regulations.

Fewer onboard systems to manage also benefit commercial operators, enhancing operational efficiency and cost-effectiveness. In the Asia Pacific region, the commercial

dry marine scrubber systems market is forecasted to exceed USD 350 million by 2032. The stringent emission regulations on maritime pollution and expanding trade activities—driven by countries like China, India, and Japan—are major factors boosting product adoption. Investments in advanced scrubber technologies are also accelerating, focusing on improving efficiency and effectiveness. Research developing innovative dry scrubber designs and enhanced sorbent materials aims to maximize pollutant capture rates, particularly for sulfur oxides (SO_x) and other harmful emissions, thus improving environmental compliance and operational value for maritime operators.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 – 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY FUEL, 2021 – 2032 (USD MILLION & UNITS)

- 5.1 Key trends
- 5.2 MDO
- 5.3 MGO
- 5.4 Hybrid
- 5.5 Others

CHAPTER 6 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2032 (USD MILLION & UNITS)

- 6.1 Key trends
- 6.2 North America
 - 6.2.1 U.S.
 - 6.2.2 Canada
- 6.3 Europe
 - 6.3.1 Greece
 - 6.3.2 Norway
 - 6.3.3 Germany
 - 6.3.4 UK
 - 6.3.5 France
 - 6.3.6 Netherlands
- 6.4 Asia Pacific
 - 6.4.1 China
 - 6.4.2 South Korea
 - 6.4.3 Japan
 - 6.4.4 India
 - 6.4.5 Australia

CHAPTER 7 COMPANY PROFILES

- 7.1 ANDRITZ
- 7.2 CR Ocean Engineering
- 7.3 Delta Marine Scandinavia
- 7.4 DuPont Clean Technologies
- 7.5 Ecospray Technologies
- 7.6 Mitsubishi Heavy Industries
- 7.7 PureteQ

7.8 Solvay

7.9 VDL AEC

7.10 Yara Marine Technologies

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