

Global Alternate Marine Power Market Size, Share, Trends & Analysis by Vessel Type (Container Ship, Cruiser Ship, Roll-on/Roll-off Ship, Defense Ship, Others), by Power Requirement (Up to 2 MW, 2 MW-5 MW, Above 5 MW) and Region, with Forecasts from 2024 to 2034.

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Abstracts

Market Overview

The Global Alternate Marine Power Market is poised for substantial growth from 2024 to 2034, driven by the escalating demand for environmentally sustainable and energy-efficient solutions in the maritime industry. Valued at USD XX.XX billion in 2024, the market is projected to reach USD XX.XX billion by 2034, growing at a compound annual growth rate (CAGR) of XX.XX%. Key factors contributing to this growth include stringent environmental regulations, rising fuel costs, and the increasing adoption of green technologies across global ports and shipping operations.

Definition and Scope of Alternate Marine Power

Alternate Marine Power (AMP), also known as cold ironing or shore power, is a technology that allows vessels to switch off their onboard auxiliary engines while docked and connect to an onshore power supply. This significantly reduces fuel consumption and emissions of pollutants such as nitrogen oxides (NOx), sulfur oxides (SOx), and greenhouse gases. AMP is increasingly adopted to meet the International Maritime Organization's (IMO) environmental standards and comply with local port regulations focused on reducing the maritime sector's environmental footprint.

Market Drivers

Stringent Environmental Regulations: Global mandates such as IMO 2020 and regional initiatives like California's At-Berth Regulation are propelling the adoption of AMP systems.

Fuel Cost Savings: By enabling ships to utilize onshore electricity, AMP offers a cost-effective alternative to expensive marine fuel, further boosting its adoption.

Port Electrification Trends: The development of green ports and the electrification of port infrastructure are significant growth catalysts for the AMP market.

Market Restraints

High Initial Investments: The substantial cost of retrofitting vessels and upgrading port infrastructure may pose challenges to market growth.

Technical Challenges: Variability in electrical standards and compatibility issues between ships and ports can hinder seamless implementation.

Dependency on Power Grid Infrastructure: Limited availability of stable and renewable power sources in some regions could restrict the market's growth.

Opportunities

Integration of Renewable Energy Sources: Growing emphasis on using renewable power for AMP systems presents opportunities for sustainable market expansion.

Emerging Markets: Developing ports in regions such as Asia-Pacific and Latin America are investing heavily in electrification, creating new avenues for growth.

Technological Advancements: Innovations in energy storage systems and smart grid technologies are expected to enhance the efficiency and reliability of AMP systems.

Market Segmentation Analysis

By Vessel Type

Container Ship

Cruiser Ship

Roll-on/Roll-off Ship

Defense Ship

Others

By Power Requirement

Up to 2 MW

2 MW–5 MW

Above 5 MW

Regional Analysis

North America: A key market driven by early adoption of shore power technologies and stringent environmental regulations in ports such as California.

Europe: Significant growth potential due to the presence of advanced port infrastructure and strong policy support for reducing maritime emissions.

Asia-Pacific: Rapidly growing market fueled by port expansion projects and rising trade activities in countries like China, Japan, and South Korea.

Rest of the World: Includes Latin America, the Middle East, and Africa, where investment in green port initiatives is gaining traction.

The Global Alternate Marine Power Market is set to experience robust growth,

Global Alternate Marine Power Market Size, Share, Trends & Analysis by Vessel Type (Container Ship, Cruiser Sh...

underpinned by the maritime sector's commitment to sustainability and emissions reduction. With increasing investments in green port infrastructure and advancements in power supply technologies, the market is expected to witness significant opportunities in emerging economies and established shipping hubs worldwide.

Competitive Landscape

Prominent players in the Global Alternate Marine Power Market include:

Schneider Electric SE

Siemens AG

ABB Ltd.

Cavotec SA

Wartsila Corporation

Vinci Energies

Siemens Energy

GE Power Conversion

Danfoss

Nexans

Contents

1. INTRODUCTION

- 1.1. Definition of Alternate Marine Power (AMP)
- 1.2. Scope of the Report
- 1.3. Research Methodology

2. EXECUTIVE SUMMARY

- 2.1. Key Findings
- 2.2. Market Snapshot
- 2.3. Key Trends

3. MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Rising Focus on Reducing Vessel Emissions
 - 3.1.2. Growing Regulations on Maritime Pollution
 - 3.1.3. Increasing Adoption of Sustainable Technologies
 - 3.1.4. Other Market Drivers
- 3.2. Market Restraints
 - 3.2.1. High Initial Setup Costs
 - 3.2.2. Limited Infrastructure Availability
 - 3.2.3. Technical and Operational Challenges
 - 3.2.4. Other Market Restraints
- 3.3. Market Opportunities
 - 3.3.1. Technological Innovations in AMP Systems
 - 3.3.2. Expansion of Port Electrification Projects
 - 3.3.3. Increasing Investments in Green Shipping Initiatives
 - 3.3.4. Other Market Opportunities

4. GLOBAL ALTERNATE MARINE POWER MARKET ANALYSIS

- 4.1. Market Size and Forecast (2024-2034)
- 4.2. Market Share Analysis by:
 - 4.2.1. Vessel Type
 - 4.2.1.1. Container Ship
 - 4.2.1.2. Cruiser Ship

- 4.2.1.3. Roll-on/Roll-off Ship
- 4.2.1.4. Defense Ship
- 4.2.1.5. Others
- 4.2.2. Power Requirement
 - 4.2.2.1. Up to 2 MW
 - 4.2.2.2. 2 MW-5 MW
 - 4.2.2.3. Above 5 MW
- 4.3. Value Chain Analysis
- 4.4. SWOT Analysis
- 4.5. Porter's Five Forces Analysis

5. REGIONAL MARKET ANALYSIS

- 5.1. North America
 - 5.1.1. Market Overview
 - 5.1.2. Market Size and Forecast
 - 5.1.3. Key Trends
 - 5.1.4. Competitive Landscape
- 5.2. Europe
 - 5.2.1. Market Overview
 - 5.2.2. Market Size and Forecast
 - 5.2.3. Key Trends
 - 5.2.4. Competitive Landscape
- 5.3. Asia Pacific
 - 5.3.1. Market Overview
 - 5.3.2. Market Size and Forecast
 - 5.3.3. Key Trends
 - 5.3.4. Competitive Landscape
- 5.4. Latin America
 - 5.4.1. Market Overview
 - 5.4.2. Market Size and Forecast
 - 5.4.3. Key Trends
 - 5.4.4. Competitive Landscape
- 5.5. Middle East & Africa
 - 5.5.1. Market Overview
 - 5.5.2. Market Size and Forecast
 - 5.5.3. Key Trends
 - 5.5.4. Competitive Landscape

6. COMPETITIVE LANDSCAPE

- 6.1. Market Share Analysis of Key Players
- 6.2. Company Profiles of Key Players
 - 6.2.1. Schneider Electric SE
 - 6.2.2. Siemens AG
 - 6.2.3. ABB Ltd.
 - 6.2.4. Cavotec SA
 - 6.2.5. Wartsila Corporation
 - 6.2.6. Vinci Energies
 - 6.2.7. Siemens Energy
 - 6.2.8. GE Power Conversion
 - 6.2.9. Danfoss
 - 6.2.10. Nexans
- 6.3. Recent Developments and Innovations
- 6.4. Strategic Initiatives

7. FUTURE OUTLOOK AND MARKET FORECAST

- 7.1. Market Growth Prospects
- 7.2. Technological Trends and Innovations
- 7.3. Investment Opportunities
- 7.4. Strategic Recommendations

8. KEY INSIGHTS AND REITERATION OF MAIN FINDINGS

9. FUTURE PROSPECTS FOR THE GLOBAL ALTERNATE MARINE POWER MARKET

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