

North America 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 North America Alternate Marine Power Market is poised for significant growth from 2024 to 2034, driven by stringent environmental regulations, rising concerns about marine pollution, and advancements in clean energy technologies. The market size is projected to expand from USD XXX.XX million in 2024 to USD XX.XX million by 2034, registering a compound annual growth rate (CAGR) of XX.XX%. Key factors fueling this growth include:

Stringent Emission Regulations: Increasing regulatory pressure to reduce greenhouse gas (GHG) emissions and air pollutants in port areas is accelerating the adoption of alternate marine power systems.

Rising Fuel Costs: Growing operational costs due to fluctuating fuel prices are prompting vessel operators to seek cost-effective and energy-efficient alternatives.

Technological Advancements: Innovations in shore power systems and renewable energy integration are improving the feasibility and adoption of alternate marine power solutions.

Definition and Scope of Alternate Marine Power

Alternate Marine Power (AMP), also known as shore power or cold ironing, enables docked ships to switch off their auxiliary engines and connect to onshore power sources. This reduces fuel consumption and emissions while ships are berthed. The AMP market encompasses various vessel types, power requirements, and regional applications, making it a key component of the maritime industry's sustainability drive.

Market Drivers

Environmental Sustainability Goals: Rising awareness of climate change and international agreements, such as MARPOL Annex VI, are pushing ports and ship operators to adopt AMP systems.

Supportive Government Initiatives: Financial incentives and investments in electrified port infrastructure are accelerating the adoption of alternate marine power.

Expansion of Cruise and Cargo Shipping Industries: The growing volume of maritime trade and tourism is boosting demand for sustainable port operations.

Market Restraints

High Installation and Maintenance Costs: Implementing AMP infrastructure requires significant upfront investment, which may deter smaller ports and shipping companies.

Compatibility Issues: Variability in electrical standards and ship designs can create challenges in seamless AMP adoption.

Opportunities

Renewable Energy Integration: Utilizing renewable energy sources like wind and solar for onshore power generation can enhance the sustainability of AMP systems.

Emerging Ports in Developing Regions: Investments in modernizing ports in Mexico and other developing regions present untapped growth potential.

Electrification of Defense Ships: Growing focus on reducing carbon footprints in naval operations provides opportunities in the defense sector.

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

United States: As a leader in the North American AMP market, the U.S. benefits from robust port infrastructure, regulatory mandates, and advancements in clean energy technologies.

Canada: Growing environmental initiatives and investments in green port technologies are driving market growth in Canada.

Mexico: Rising trade activities and modernization of port facilities are supporting the adoption of alternate marine power systems.

The North America Alternate Marine Power Market is set to witness dynamic growth, supported by the maritime industry's transition to sustainable and energy-efficient operations. Although challenges like high infrastructure costs persist, advancements in renewable energy technologies and supportive regulations are expected to drive widespread adoption.

Competitive Landscape

Key players in the North America Alternate Marine Power Market include:

ABB Ltd.

Siemens AG

Wartsila Corporation

Schneider Electric SE

Cavotec SA

Nidec Corporation

GE Power Conversion

Eaton Corporation plc

VINCI Energies

Blueday Technology

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 Stringency of Environmental Regulations
 - 3.1.2. Increasing Focus on Reducing Vessel Emissions
 - 3.1.3. Growing Adoption of Clean Energy in Maritime Industry
- 3.2. Market Restraints
 - 3.2.1. High Initial Investment Costs
 - 3.2.2. Limited Infrastructure Availability at Ports
- 3.3. Market Opportunities
 - 3.3.1. Advancements in AMP Technology
 - 3.3.2. Expansion of AMP to Emerging Maritime Markets
 - 3.3.3. Collaborations and Public-Private Partnerships

4. NORTH AMERICA 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. United States
 - 5.1.1. Market Overview
 - 5.1.2. Market Size and Forecast
 - 5.1.3. Key Trends
 - 5.1.4. Competitive Landscape
- 5.2. Canada
 - 5.2.1. Market Overview
 - 5.2.2. Market Size and Forecast
 - 5.2.3. Key Trends
 - 5.2.4. Competitive Landscape
- 5.3. Mexico
 - 5.3.1. Market Overview
 - 5.3.2. Market Size and Forecast
 - 5.3.3. Key Trends
 - 5.3.4. Competitive Landscape

6. COMPETITIVE LANDSCAPE

- 6.1. Market Share Analysis of Key Players
- 6.2. Company Profiles of Key Players
 - 6.2.1. ABB Ltd.
 - 6.2.2. Siemens AG
 - 6.2.3. Wartsila Corporation
 - 6.2.4. Schneider Electric SE
 - 6.2.5. Cavotec SA
 - 6.2.6. Nidec Corporation
 - 6.2.7. GE Power Conversion
 - 6.2.8. Eaton Corporation plc
 - 6.2.9. VINCI Energies
 - 6.2.10. Blueday Technology

- 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 NORTH AMERICA ALTERNATE MARINE POWER MARKET

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