

Unmanned Surface Vehicle (Usv) Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Surface, Sub-Surface), By Mode of Operation (Autonomous Surface Vehicle, Remotely Operated Surface Vehicle), By Hull Type, By Size, By Application

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Abstracts

The Unmanned Surface Vehicle (Usv) Market is valued at USD 1.5 billion in 2025 and is projected to grow at a CAGR of 10.3% to reach USD 3.6 billion by 2034. The unmanned surface vehicle (USV) market is rapidly evolving as industries worldwide increasingly adopt autonomous marine technology. USVs, which operate on the surface of oceans and seas without direct human intervention, have gained attention due to their ability to perform a variety of tasks, including surveillance, environmental monitoring, oceanographic research, and military operations. These vehicles provide high levels of safety and efficiency while reducing human involvement in hazardous marine environments. USVs are often equipped with advanced sensors, GPS systems, and communication technology to navigate autonomously, providing real-time data collection and analysis. The growing demand for unmanned maritime operations in sectors such as defense, environmental monitoring, and oil and gas exploration has significantly contributed to the expansion of the USV market. Additionally, their capability to operate in remote or dangerous areas, such as in deep-sea exploration or during search and rescue missions, further enhances their appeal. The adoption of USVs allows for significant operational cost savings, reduced environmental risks, and the ability to cover vast marine areas with minimal human resource requirements. As a result, this technology is set to transform maritime operations across the globe, offering innovative solutions to various challenges faced in the marine industry. The unmanned surface vehicle market is expected to experience significant developments, fueled by

technological advancements and increased investments in autonomous maritime systems. Governments, defense agencies, and private enterprises are actively developing and deploying USVs for various applications, particularly in surveillance and environmental monitoring. USVs will be increasingly equipped with advanced sensors, artificial intelligence (AI), and machine learning technologies, enhancing their capabilities for data collection, threat detection, and decision-making processes. The integration of 5G and satellite communication technologies will also significantly improve real-time data transmission, expanding the operational range of USVs and enabling remote monitoring of critical marine assets. Furthermore, the demand for USVs in the oil and gas industry for exploration, pipeline monitoring, and spill response is expected to grow, providing significant market opportunities. As regulatory frameworks around autonomous marine systems are developed and refined the market for USVs is set to expand. These vehicles will be used more frequently in offshore energy production, naval defense operations, and environmental protection, ultimately driving further innovations and broadening their applications across various industries. The unmanned surface vehicle market will continue to see substantial growth, driven by ongoing advancements in autonomous systems, sensor technology, and communication infrastructure. USVs will increasingly be integrated into more complex maritime operations, with fleets of unmanned vehicles working together to perform coordinated tasks, such as environmental data collection, oceanographic research, and naval surveillance. The development of hybrid power solutions and energy-efficient systems will allow USVs to operate for longer durations, enabling extended missions in remote or deep-sea environments. In the defense sector, the growing interest in USVs for naval operations and border patrol activities will accelerate the demand for unmanned systems. Innovations in hull design and propulsion technologies will also enhance the performance and durability of USVs, making them more capable in harsh marine conditions. The market will also see new opportunities arising from international collaboration, with countries sharing resources and data for global environmental monitoring initiatives. Additionally, the increased use of USVs in commercial sectors, such as shipping and logistics, will lead to the development of new regulatory guidelines to ensure safe and efficient operation. As demand for marine autonomous systems grows, the USV market will continue to evolve, offering new solutions for diverse marine applications.

Key Insights Unmanned Surface Vehicle (Usv) Market

Growing integration of artificial intelligence (AI) and machine learning (ML) to enhance the autonomous capabilities of unmanned surface vehicles (USVs).

Increased use of 5G and satellite communication technologies to improve real-time data transmission and extend the operational range of USVs.

Development of hybrid power systems and energy-efficient solutions to extend the operational endurance of USVs for long-duration missions.

Emerging applications of USVs in sectors such as shipping, defense, and offshore energy production, driving market diversification.

Use of USVs in environmental monitoring, including marine life observation, pollution detection, and oceanographic research, increasing their commercial viability.

Technological advancements in autonomous navigation, sensors, and communication systems, enabling USVs to perform complex tasks without human intervention.

Growing demand for unmanned maritime solutions in defense, surveillance, environmental monitoring, and offshore energy industries.

Reduced operational costs and enhanced safety through the deployment of unmanned surface vehicles in hazardous or remote marine environments.

Increased adoption of USVs due to their ability to collect real-time data, monitor assets, and perform environmental assessments more effectively than traditional methods.

Developing reliable regulatory frameworks and standards to ensure the safe and efficient operation of USVs in various maritime environments.

Unmanned Surface Vehicle (Usv) Market Segmentation

By Type

Surface

Sub-Surface

By Mode of Operation

Autonomous Surface Vehicle

Remotely Operated Surface Vehicle

By Hull Type

Catamaran (Twin Hulls)

Kayak (Single Hull)

Trimaran (Triple Hulls)

Rigid Inflatable Hull

By Size

Small

Medium

Large

Extra Large

By Application

Defense

Commercial

Scientific Research

Other Applications

Key Companies Analysed

Kongsberg Gruppen ASA

Teledyne Technologies Incorporated

L3Harris Technologies, Inc.

Atlas Elektronik GmbH (Thyssenkrupp AG)

Saab AB

ECA Group (Groupe Gorg?)

Textron Systems Corporation

Elbit Systems Ltd.

Liquid Robotics, Inc. (Boeing)

OceanAlpha Group Ltd.

Unmanned Surface Vehicle (Usv) Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Unmanned Surface Vehicle (Usv) Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks,

profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Unmanned Surface Vehicle (Usv) market data and outlook to 2034

United States

Canada

Mexico

Europe — Unmanned Surface Vehicle (Usv) market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Unmanned Surface Vehicle (Usv) market data and outlook to

2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Unmanned Surface Vehicle (Usv) market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Unmanned Surface Vehicle (Usv) market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Unmanned Surface Vehicle (Usv) value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Unmanned Surface Vehicle (Usv) industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Unmanned Surface Vehicle (Usv) Market Report

Global Unmanned Surface Vehicle (Usv) market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Unmanned Surface Vehicle (Usv) trade, costs, and supply chains

Unmanned Surface Vehicle (Usv) market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Unmanned Surface Vehicle (Usv) market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Unmanned Surface Vehicle (Usv) market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Unmanned Surface Vehicle (Usv) supply chain analysis

Unmanned Surface Vehicle (Usv) trade analysis, Unmanned Surface Vehicle (Usv) market price analysis, and Unmanned Surface Vehicle (Usv) supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Unmanned Surface Vehicle (Usv) market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the

impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL UNMANNED SURFACE VEHICLE (USV) MARKET SUMMARY, 2025

- 2.1 Unmanned Surface Vehicle (Usv) Industry Overview
 - 2.1.1 Global Unmanned Surface Vehicle (Usv) Market Revenues (In US\$ billion)
- 2.2 Unmanned Surface Vehicle (Usv) Market Scope
- 2.3 Research Methodology

3. UNMANNED SURFACE VEHICLE (USV) MARKET INSIGHTS, 2024-2034

- 3.1 Unmanned Surface Vehicle (Usv) Market Drivers
- 3.2 Unmanned Surface Vehicle (Usv) Market Restraints
- 3.3 Unmanned Surface Vehicle (Usv) Market Opportunities
- 3.4 Unmanned Surface Vehicle (Usv) Market Challenges
- 3.5 Tariff Impact on Global Unmanned Surface Vehicle (Usv) Supply Chain Patterns

4. UNMANNED SURFACE VEHICLE (USV) MARKET ANALYTICS

- 4.1 Unmanned Surface Vehicle (Usv) Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Unmanned Surface Vehicle (Usv) Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Unmanned Surface Vehicle (Usv) Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Unmanned Surface Vehicle (Usv) Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Unmanned Surface Vehicle (Usv) Market
 - 4.5.1 Unmanned Surface Vehicle (Usv) Industry Attractiveness Index, 2025
 - 4.5.2 Unmanned Surface Vehicle (Usv) Supplier Intelligence
 - 4.5.3 Unmanned Surface Vehicle (Usv) Buyer Intelligence
 - 4.5.4 Unmanned Surface Vehicle (Usv) Competition Intelligence
 - 4.5.5 Unmanned Surface Vehicle (Usv) Product Alternatives and Substitutes Intelligence

4.5.6 Unmanned Surface Vehicle (Usv) Market Entry Intelligence

5. GLOBAL UNMANNED SURFACE VEHICLE (USV) MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World Unmanned Surface Vehicle (Usv) Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Unmanned Surface Vehicle (Usv) Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)

5.2 Global Unmanned Surface Vehicle (Usv) Sales Outlook and CAGR Growth By Mode of Operation, 2024- 2034 (\$ billion)

5.3 Global Unmanned Surface Vehicle (Usv) Sales Outlook and CAGR Growth By Hull Type, 2024- 2034 (\$ billion)

5.4 Global Unmanned Surface Vehicle (Usv) Sales Outlook and CAGR Growth By Size, 2024- 2034 (\$ billion)

5.5 Global Unmanned Surface Vehicle (Usv) Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)

5.6 Global Unmanned Surface Vehicle (Usv) Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC UNMANNED SURFACE VEHICLE (USV) INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific Unmanned Surface Vehicle (Usv) Market Insights, 2025

6.2 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast By Mode of Operation, 2024- 2034 (USD billion)

6.4 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast By Hull Type, 2024- 2034 (USD billion)

6.5 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast By Size, 2024- 2034 (USD billion)

6.6 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast By Application, 2024- 2034 (USD billion)

6.7 Asia Pacific Unmanned Surface Vehicle (Usv) Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.7.1 China Unmanned Surface Vehicle (Usv) Market Size, Opportunities, Growth 2024- 2034

6.7.2 India Unmanned Surface Vehicle (Usv) Market Size, Opportunities, Growth 2024- 2034

6.7.3 Japan Unmanned Surface Vehicle (Usv) Market Size, Opportunities, Growth 2024- 2034

6.7.4 Australia Unmanned Surface Vehicle (Usv) Market Size, Opportunities, Growth 2024- 2034

7. EUROPE UNMANNED SURFACE VEHICLE (USV) MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Unmanned Surface Vehicle (Usv) Market Key Findings, 2025

7.2 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown By Mode of Operation, 2024- 2034 (USD billion)

7.4 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown By Hull Type, 2024- 2034 (USD billion)

7.5 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown By Size, 2024- 2034 (USD billion)

7.6 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.7 Europe Unmanned Surface Vehicle (Usv) Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.7.1 Germany Unmanned Surface Vehicle (Usv) Market Size, Trends, Growth Outlook to 2034

7.7.2 United Kingdom Unmanned Surface Vehicle (Usv) Market Size, Trends, Growth Outlook to 2034

7.7.2 France Unmanned Surface Vehicle (Usv) Market Size, Trends, Growth Outlook to 2034

7.7.2 Italy Unmanned Surface Vehicle (Usv) Market Size, Trends, Growth Outlook to 2034

7.7.2 Spain Unmanned Surface Vehicle (Usv) Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA UNMANNED SURFACE VEHICLE (USV) MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook By

Type, 2024- 2034 (\$ billion)

8.3 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook By Mode of Operation, 2024- 2034 (\$ billion)

8.4 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook By Hull Type, 2024- 2034 (\$ billion)

8.5 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook By Size, 2024- 2034 (\$ billion)

8.6 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.7 North America Unmanned Surface Vehicle (Usv) Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.7.1 United States Unmanned Surface Vehicle (Usv) Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Canada Unmanned Surface Vehicle (Usv) Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Mexico Unmanned Surface Vehicle (Usv) Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA UNMANNED SURFACE VEHICLE (USV) MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Unmanned Surface Vehicle (Usv) Market Data, 2025

9.2 Latin America Unmanned Surface Vehicle (Usv) Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Unmanned Surface Vehicle (Usv) Market Future By Mode of Operation, 2024- 2034 (\$ billion)

9.4 Latin America Unmanned Surface Vehicle (Usv) Market Future By Hull Type, 2024- 2034 (\$ billion)

9.5 Latin America Unmanned Surface Vehicle (Usv) Market Future By Size, 2024- 2034 (\$ billion)

9.6 Latin America Unmanned Surface Vehicle (Usv) Market Future By Application, 2024- 2034 (\$ billion)

9.7 Latin America Unmanned Surface Vehicle (Usv) Market Future by Country, 2024- 2034 (\$ billion)

9.7.1 Brazil Unmanned Surface Vehicle (Usv) Market Size, Share and Opportunities to 2034

9.7.2 Argentina Unmanned Surface Vehicle (Usv) Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA UNMANNED SURFACE VEHICLE (USV) MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics By Mode of Operation, 2024- 2034 (USD billion)

10.4 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics By Hull Type, 2024- 2034 (USD billion)

10.5 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics By Size, 2024- 2034 (USD billion)

10.6 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics By Application, 2024- 2034 (USD billion)

10.7 Middle East Africa Unmanned Surface Vehicle (Usv) Market Statistics by Country, 2024- 2034 (USD billion)

10.7.1 Middle East Unmanned Surface Vehicle (Usv) Market Value, Trends, Growth Forecasts to 2034

10.7.2 Africa Unmanned Surface Vehicle (Usv) Market Value, Trends, Growth Forecasts to 2034

11. UNMANNED SURFACE VEHICLE (USV) MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in Unmanned Surface Vehicle (Usv) Industry

11.2 Unmanned Surface Vehicle (Usv) Business Overview

11.3 Unmanned Surface Vehicle (Usv) Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global Unmanned Surface Vehicle (Usv) Market Volume (Tons)

12.1 Global Unmanned Surface Vehicle (Usv) Trade and Price Analysis

12.2 Unmanned Surface Vehicle (Usv) Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Unmanned Surface Vehicle (Usv) Industry Report Sources and Methodology

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