

Global Solar Powered Unmanned Surface Vessel Market Research Report 2026(Status and Outlook)

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Abstracts

Solar-Powered Unmanned Surface Vessel is an Unmanned Surface Vessel that uses solar energy as the main power source. It collects solar energy by installing solar panels and converts it into electrical energy to drive the hull to sail. This kind of ship has autonomous navigation capabilities and can achieve autonomous navigation through preset routes or intelligent navigation systems without manual operation.

The global Solar Powered Unmanned Surface Vessel market size was estimated at USD 127.5 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 10.25% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Solar Powered Unmanned Surface Vessel market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Solar Powered Unmanned Surface Vessel market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Solar Powered Unmanned Surface Vessel market.

Global Solar Powered Unmanned Surface Vessel Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

SubSeaSail
Saildrone USV
Eco Marine Power
SeaTrac
Seasats
Ocius Technology
Open Ocean Robotics
Liquid Robotics ?Boeing?
Sirehna
Yunzhou Intelligence Technology
Ocean Aero
QinetiQ

Market Segmentation (by Type)

Pure Solar Power
Hybrid Solar Power

Market Segmentation (by Application)

Military

ISR

Security Patrol

Autonomous Survey

Research and Data Collection

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Solar Powered Unmanned Surface Vessel Market

Overview of the regional outlook of the Solar Powered Unmanned Surface Vessel Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Solar Powered Unmanned Surface Vessel Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Solar Powered Unmanned Surface Vessel, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights,

product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Solar Powered Unmanned Surface Vessel

1.2 Key Market Segments

1.2.1 Solar Powered Unmanned Surface Vessel Segment by Type

1.2.2 Solar Powered Unmanned Surface Vessel Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Solar Powered Unmanned Surface Vessel Market Size (M USD)
Estimates and Forecasts (2020-2035)

2.1.2 Global Solar Powered Unmanned Surface Vessel Sales Estimates and
Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Solar Powered Unmanned Surface Vessel Product Life Cycle

3.3 Global Solar Powered Unmanned Surface Vessel Sales by Manufacturers
(2020-2025)

3.4 Global Solar Powered Unmanned Surface Vessel Revenue Market Share by
Manufacturers (2020-2025)

3.5 Solar Powered Unmanned Surface Vessel Market Share by Company Type (Tier 1,
Tier 2, and Tier 3)

3.6 Global Solar Powered Unmanned Surface Vessel Average Price by Manufacturers
(2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Solar Powered Unmanned Surface Vessel Market Competitive Situation and Trends

3.8.1 Solar Powered Unmanned Surface Vessel Market Concentration Rate

3.8.2 Global 5 and 10 Largest Solar Powered Unmanned Surface Vessel Players

Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SOLAR POWERED UNMANNED SURFACE VESSEL INDUSTRY CHAIN ANALYSIS

4.1 Solar Powered Unmanned Surface Vessel Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SOLAR POWERED UNMANNED SURFACE VESSEL MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Solar Powered Unmanned Surface Vessel Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Solar Powered Unmanned Surface Vessel Market

5.7 ESG Ratings of Leading Companies

6 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET SEGMENTATION

BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Solar Powered Unmanned Surface Vessel Sales Market Share by Type (2020-2025)
- 6.3 Global Solar Powered Unmanned Surface Vessel Market Size by Type (2020-2025)
- 6.4 Global Solar Powered Unmanned Surface Vessel Price by Type (2020-2025)

7 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Solar Powered Unmanned Surface Vessel Market Sales by Application (2020-2025)
- 7.3 Global Solar Powered Unmanned Surface Vessel Market Size (M USD) by Application (2020-2025)
- 7.4 Global Solar Powered Unmanned Surface Vessel Sales Growth Rate by Application (2020-2025)

8 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET SALES BY REGION

- 8.1 Global Solar Powered Unmanned Surface Vessel Sales by Region
 - 8.1.1 Global Solar Powered Unmanned Surface Vessel Sales by Region
 - 8.1.2 Global Solar Powered Unmanned Surface Vessel Sales Market Share by Region
- 8.2 Global Solar Powered Unmanned Surface Vessel Market Size by Region
 - 8.2.1 Global Solar Powered Unmanned Surface Vessel Market Size by Region
 - 8.2.2 Global Solar Powered Unmanned Surface Vessel Market Size by Region
- 8.3 North America
 - 8.3.1 North America Solar Powered Unmanned Surface Vessel Sales by Country
 - 8.3.2 North America Solar Powered Unmanned Surface Vessel Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Solar Powered Unmanned Surface Vessel Sales by Country
 - 8.4.2 Europe Solar Powered Unmanned Surface Vessel Market Size by Country
 - 8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Solar Powered Unmanned Surface Vessel Sales by Region

8.5.2 Asia Pacific Solar Powered Unmanned Surface Vessel Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Solar Powered Unmanned Surface Vessel Sales by Country

8.6.2 South America Solar Powered Unmanned Surface Vessel Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Solar Powered Unmanned Surface Vessel Sales by Region

8.7.2 Middle East and Africa Solar Powered Unmanned Surface Vessel Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET PRODUCTION BY REGION

9.1 Global Production of Solar Powered Unmanned Surface Vessel by Region(2020-2025)

9.2 Global Solar Powered Unmanned Surface Vessel Revenue Market Share by Region (2020-2025)

9.3 Global Solar Powered Unmanned Surface Vessel Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Solar Powered Unmanned Surface Vessel Production

9.4.1 North America Solar Powered Unmanned Surface Vessel Production Growth Rate (2020-2025)

9.4.2 North America Solar Powered Unmanned Surface Vessel Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Solar Powered Unmanned Surface Vessel Production

9.5.1 Europe Solar Powered Unmanned Surface Vessel Production Growth Rate (2020-2025)

9.5.2 Europe Solar Powered Unmanned Surface Vessel Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Solar Powered Unmanned Surface Vessel Production (2020-2025)

9.6.1 Japan Solar Powered Unmanned Surface Vessel Production Growth Rate (2020-2025)

9.6.2 Japan Solar Powered Unmanned Surface Vessel Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Solar Powered Unmanned Surface Vessel Production (2020-2025)

9.7.1 China Solar Powered Unmanned Surface Vessel Production Growth Rate (2020-2025)

9.7.2 China Solar Powered Unmanned Surface Vessel Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 SubSeaSail

10.1.1 SubSeaSail Basic Information

10.1.2 SubSeaSail Solar Powered Unmanned Surface Vessel Product Overview

10.1.3 SubSeaSail Solar Powered Unmanned Surface Vessel Product Market Performance

10.1.4 SubSeaSail Business Overview

10.1.5 SubSeaSail SWOT Analysis

10.1.6 SubSeaSail Recent Developments

10.2 Saildrone USV

10.2.1 Saildrone USV Basic Information

10.2.2 Saildrone USV Solar Powered Unmanned Surface Vessel Product Overview

10.2.3 Saildrone USV Solar Powered Unmanned Surface Vessel Product Market Performance

10.2.4 Saildrone USV Business Overview

10.2.5 Saildrone USV SWOT Analysis

10.2.6 Saildrone USV Recent Developments

10.3 Eco Marine Power

10.3.1 Eco Marine Power Basic Information

10.3.2 Eco Marine Power Solar Powered Unmanned Surface Vessel Product Overview

10.3.3 Eco Marine Power Solar Powered Unmanned Surface Vessel Product Market

Performance

10.3.4 Eco Marine Power Business Overview

10.3.5 Eco Marine Power SWOT Analysis

10.3.6 Eco Marine Power Recent Developments

10.4 SeaTrac

10.4.1 SeaTrac Basic Information

10.4.2 SeaTrac Solar Powered Unmanned Surface Vessel Product Overview

10.4.3 SeaTrac Solar Powered Unmanned Surface Vessel Product Market

Performance

10.4.4 SeaTrac Business Overview

10.4.5 SeaTrac Recent Developments

10.5 Seasats

10.5.1 Seasats Basic Information

10.5.2 Seasats Solar Powered Unmanned Surface Vessel Product Overview

10.5.3 Seasats Solar Powered Unmanned Surface Vessel Product Market

Performance

10.5.4 Seasats Business Overview

10.5.5 Seasats Recent Developments

10.6 Ocious Technology

10.6.1 Ocious Technology Basic Information

10.6.2 Ocious Technology Solar Powered Unmanned Surface Vessel Product Overview

10.6.3 Ocious Technology Solar Powered Unmanned Surface Vessel Product Market

Performance

10.6.4 Ocious Technology Business Overview

10.6.5 Ocious Technology Recent Developments

10.7 Open Ocean Robotics

10.7.1 Open Ocean Robotics Basic Information

10.7.2 Open Ocean Robotics Solar Powered Unmanned Surface Vessel Product

Overview

10.7.3 Open Ocean Robotics Solar Powered Unmanned Surface Vessel Product

Market Performance

10.7.4 Open Ocean Robotics Business Overview

10.7.5 Open Ocean Robotics Recent Developments

10.8 Liquid Robotics ?Boeing?

10.8.1 Liquid Robotics ?Boeing? Basic Information

10.8.2 Liquid Robotics ?Boeing? Solar Powered Unmanned Surface Vessel Product Overview

10.8.3 Liquid Robotics ?Boeing? Solar Powered Unmanned Surface Vessel Product Market Performance

10.8.4 Liquid Robotics ?Boeing? Business Overview

10.8.5 Liquid Robotics ?Boeing? Recent Developments

10.9 Sirehna

10.9.1 Sirehna Basic Information

10.9.2 Sirehna Solar Powered Unmanned Surface Vessel Product Overview

10.9.3 Sirehna Solar Powered Unmanned Surface Vessel Product Market Performance

10.9.4 Sirehna Business Overview

10.9.5 Sirehna Recent Developments

10.10 Yunzhou Intelligence Technology

10.10.1 Yunzhou Intelligence Technology Basic Information

10.10.2 Yunzhou Intelligence Technology Solar Powered Unmanned Surface Vessel Product Overview

10.10.3 Yunzhou Intelligence Technology Solar Powered Unmanned Surface Vessel Product Market Performance

10.10.4 Yunzhou Intelligence Technology Business Overview

10.10.5 Yunzhou Intelligence Technology Recent Developments

10.11 Ocean Aero

10.11.1 Ocean Aero Basic Information

10.11.2 Ocean Aero Solar Powered Unmanned Surface Vessel Product Overview

10.11.3 Ocean Aero Solar Powered Unmanned Surface Vessel Product Market Performance

10.11.4 Ocean Aero Business Overview

10.11.5 Ocean Aero Recent Developments

10.12 QinetiQ

10.12.1 QinetiQ Basic Information

10.12.2 QinetiQ Solar Powered Unmanned Surface Vessel Product Overview

10.12.3 QinetiQ Solar Powered Unmanned Surface Vessel Product Market Performance

10.12.4 QinetiQ Business Overview

10.12.5 QinetiQ Recent Developments

11 SOLAR POWERED UNMANNED SURFACE VESSEL MARKET FORECAST BY REGION

- 11.1 Global Solar Powered Unmanned Surface Vessel Market Size Forecast
- 11.2 Global Solar Powered Unmanned Surface Vessel Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Solar Powered Unmanned Surface Vessel Market Size Forecast by Country
 - 11.2.3 Asia Pacific Solar Powered Unmanned Surface Vessel Market Size Forecast by Region
 - 11.2.4 South America Solar Powered Unmanned Surface Vessel Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Solar Powered Unmanned Surface Vessel by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Solar Powered Unmanned Surface Vessel Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Solar Powered Unmanned Surface Vessel by Type (2026-2035)
 - 12.1.2 Global Solar Powered Unmanned Surface Vessel Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Solar Powered Unmanned Surface Vessel by Type (2026-2035)
- 12.2 Global Solar Powered Unmanned Surface Vessel Market Forecast by Application (2026-2035)
 - 12.2.1 Global Solar Powered Unmanned Surface Vessel Sales (K Units) Forecast by Application
 - 12.2.2 Global Solar Powered Unmanned Surface Vessel Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Solar Powered Unmanned Surface Vessel Market Size by Type (M USD)

Table 4. Global Solar Powered Unmanned Surface Vessel Market Size by Application

Table 5. Solar Powered Unmanned Surface Vessel Market Size Comparison by Region (M USD)

Table 6. Global Solar Powered Unmanned Surface Vessel Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Solar Powered Unmanned Surface Vessel Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Solar Powered Unmanned Surface Vessel Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Solar Powered Unmanned Surface Vessel as of 2025)

Table 11. Global Market Solar Powered Unmanned Surface Vessel Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Solar Powered Unmanned Surface Vessel Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Solar Powered Unmanned Surface Vessel Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Solar Powered Unmanned Surface Vessel Sales by Type (K Units)

Table 27. Global Solar Powered Unmanned Surface Vessel Market Size by Type (M USD)

Table 28. Global Solar Powered Unmanned Surface Vessel Sales (K Units) by Type (2020-2025)

Table 29. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Type (2020-2025)

Table 30. Global Solar Powered Unmanned Surface Vessel Market Size (M USD) by Type (2020-2025)

Table 31. Global Solar Powered Unmanned Surface Vessel Market Share by Type (2020-2025)

Table 32. Global Solar Powered Unmanned Surface Vessel Price (USD/Unit) by Type (2020-2025)

Table 33. Global Solar Powered Unmanned Surface Vessel Sales (K Units) by Application

Table 34. Global Solar Powered Unmanned Surface Vessel Market Size by Application

Table 35. Global Solar Powered Unmanned Surface Vessel Sales by Application (2020-2025) & (K Units)

Table 36. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Application (2020-2025)

Table 37. Global Solar Powered Unmanned Surface Vessel Market Size by Application (2020-2025) & (M USD)

Table 38. Global Solar Powered Unmanned Surface Vessel Market Share by Application (2020-2025)

Table 39. Global Solar Powered Unmanned Surface Vessel Sales Growth Rate by Application (2020-2025)

Table 40. Global Solar Powered Unmanned Surface Vessel Sales by Region (2020-2025) & (K Units)

Table 41. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Region (2020-2025)

Table 42. Global Solar Powered Unmanned Surface Vessel Market Size by Region (2020-2025) & (M USD)

Table 43. Global Solar Powered Unmanned Surface Vessel Market Size by Region (2020-2025)

Table 44. North America Solar Powered Unmanned Surface Vessel Sales by Country (2020-2025) & (K Units)

Table 45. North America Solar Powered Unmanned Surface Vessel Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Solar Powered Unmanned Surface Vessel Sales by Country

(2020-2025) & (K Units)

Table 47. Europe Solar Powered Unmanned Surface Vessel Market Size by Country
(2020-2025) & (M USD)

Table 48. Asia Pacific Solar Powered Unmanned Surface Vessel Sales by Region
(2020-2025) & (K Units)

Table 49. Asia Pacific Solar Powered Unmanned Surface Vessel Market Size by Region
(2020-2025) & (M USD)

Table 50. South America Solar Powered Unmanned Surface Vessel Sales by Country
(2020-2025) & (K Units)

Table 51. South America Solar Powered Unmanned Surface Vessel Market Size by
Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Solar Powered Unmanned Surface Vessel Sales by
Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Solar Powered Unmanned Surface Vessel Market
Size by Region (2020-2025) & (M USD)

Table 54. Global Solar Powered Unmanned Surface Vessel Production (K Units) by
Region(2020-2025)

Table 55. Global Solar Powered Unmanned Surface Vessel Revenue (US\$ Million) by
Region (2020-2025)

Table 56. Global Solar Powered Unmanned Surface Vessel Revenue Market Share by
Region (2020-2025)

Table 57. Global Solar Powered Unmanned Surface Vessel Production (K Units),
Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Solar Powered Unmanned Surface Vessel Production (K
Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Solar Powered Unmanned Surface Vessel Production (K Units),
Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Solar Powered Unmanned Surface Vessel Production (K Units),
Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Solar Powered Unmanned Surface Vessel Production (K Units),
Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. SubSeaSail Basic Information

Table 63. SubSeaSail Solar Powered Unmanned Surface Vessel Product Overview

Table 64. SubSeaSail Solar Powered Unmanned Surface Vessel Sales (K Units),
Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. SubSeaSail Business Overview

Table 66. SubSeaSail SWOT Analysis

Table 67. SubSeaSail Recent Developments

Table 68. Saildrone USV Basic Information

Table 69. Saildrone USV Solar Powered Unmanned Surface Vessel Product Overview
Table 70. Saildrone USV Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 71. Saildrone USV Business Overview
Table 72. Saildrone USV SWOT Analysis
Table 73. Saildrone USV Recent Developments
Table 74. Eco Marine Power Basic Information
Table 75. Eco Marine Power Solar Powered Unmanned Surface Vessel Product Overview
Table 76. Eco Marine Power Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 77. Eco Marine Power Business Overview
Table 78. Eco Marine Power SWOT Analysis
Table 79. Eco Marine Power Recent Developments
Table 80. SeaTrac Basic Information
Table 81. SeaTrac Solar Powered Unmanned Surface Vessel Product Overview
Table 82. SeaTrac Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. SeaTrac Business Overview
Table 84. SeaTrac Recent Developments
Table 85. Seasats Basic Information
Table 86. Seasats Solar Powered Unmanned Surface Vessel Product Overview
Table 87. Seasats Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. Seasats Business Overview
Table 89. Seasats Recent Developments
Table 90. Ocius Technology Basic Information
Table 91. Ocius Technology Solar Powered Unmanned Surface Vessel Product Overview
Table 92. Ocius Technology Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Ocius Technology Business Overview
Table 94. Ocius Technology Recent Developments
Table 95. Open Ocean Robotics Basic Information
Table 96. Open Ocean Robotics Solar Powered Unmanned Surface Vessel Product Overview
Table 97. Open Ocean Robotics Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. Open Ocean Robotics Business Overview

Table 99. Open Ocean Robotics Recent Developments
Table 100. Liquid Robotics ?Boeing? Basic Information
Table 101. Liquid Robotics ?Boeing? Solar Powered Unmanned Surface Vessel Product Overview
Table 102. Liquid Robotics ?Boeing? Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. Liquid Robotics ?Boeing? Business Overview
Table 104. Liquid Robotics ?Boeing? Recent Developments
Table 105. Sirehna Basic Information
Table 106. Sirehna Solar Powered Unmanned Surface Vessel Product Overview
Table 107. Sirehna Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 108. Sirehna Business Overview
Table 109. Sirehna Recent Developments
Table 110. Yunzhou Intelligence Technology Basic Information
Table 111. Yunzhou Intelligence Technology Solar Powered Unmanned Surface Vessel Product Overview
Table 112. Yunzhou Intelligence Technology Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113. Yunzhou Intelligence Technology Business Overview
Table 114. Yunzhou Intelligence Technology Recent Developments
Table 115. Ocean Aero Basic Information
Table 116. Ocean Aero Solar Powered Unmanned Surface Vessel Product Overview
Table 117. Ocean Aero Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Ocean Aero Business Overview
Table 119. Ocean Aero Recent Developments
Table 120. QinetiQ Basic Information
Table 121. QinetiQ Solar Powered Unmanned Surface Vessel Product Overview
Table 122. QinetiQ Solar Powered Unmanned Surface Vessel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. QinetiQ Business Overview
Table 124. QinetiQ Recent Developments
Table 125. Global Solar Powered Unmanned Surface Vessel Sales Forecast by Region (2026-2035) & (K Units)
Table 126. Global Solar Powered Unmanned Surface Vessel Market Size Forecast by Region (2026-2035) & (M USD)
Table 127. North America Solar Powered Unmanned Surface Vessel Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America Solar Powered Unmanned Surface Vessel Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Solar Powered Unmanned Surface Vessel Sales Forecast by Country (2026-2035) & (K Units)

Table 130. Europe Solar Powered Unmanned Surface Vessel Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Solar Powered Unmanned Surface Vessel Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific Solar Powered Unmanned Surface Vessel Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Solar Powered Unmanned Surface Vessel Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Solar Powered Unmanned Surface Vessel Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Solar Powered Unmanned Surface Vessel Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Solar Powered Unmanned Surface Vessel Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Solar Powered Unmanned Surface Vessel Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global Solar Powered Unmanned Surface Vessel Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Solar Powered Unmanned Surface Vessel Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Solar Powered Unmanned Surface Vessel Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Solar Powered Unmanned Surface Vessel Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Solar Powered Unmanned Surface Vessel

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Solar Powered Unmanned Surface Vessel Market Size (M USD), 2025-2035

Figure 5. Global Solar Powered Unmanned Surface Vessel Market Size (M USD) (2020-2035)

Figure 6. Global Solar Powered Unmanned Surface Vessel Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Solar Powered Unmanned Surface Vessel Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Solar Powered Unmanned Surface Vessel Product Life Cycle

Figure 13. Solar Powered Unmanned Surface Vessel Sales Share by Manufacturers in 2025

Figure 14. Global Solar Powered Unmanned Surface Vessel Revenue Share by Manufacturers in 2025

Figure 15. Solar Powered Unmanned Surface Vessel Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Solar Powered Unmanned Surface Vessel Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Solar Powered Unmanned Surface Vessel Revenue in 2025

Figure 18. Industry Chain Map of Solar Powered Unmanned Surface Vessel

Figure 19. Global Solar Powered Unmanned Surface Vessel Market PEST Analysis

Figure 20. Global Solar Powered Unmanned Surface Vessel Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Solar Powered Unmanned Surface Vessel Market Share by Type

Figure 27. Sales Market Share of Solar Powered Unmanned Surface Vessel by Type (2020-2025)

Figure 28. Sales Market Share of Solar Powered Unmanned Surface Vessel by Type in 2025

Figure 29. Market Share of Solar Powered Unmanned Surface Vessel by Type (2020-2025)

Figure 30. Market Share of Solar Powered Unmanned Surface Vessel by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Solar Powered Unmanned Surface Vessel Market Share by Application

Figure 33. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Application (2020-2025)

Figure 34. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Application in 2025

Figure 35. Global Solar Powered Unmanned Surface Vessel Market Share by Application (2020-2025)

Figure 36. Global Solar Powered Unmanned Surface Vessel Market Share by Application in 2025

Figure 37. Global Solar Powered Unmanned Surface Vessel Sales Growth Rate by Application (2020-2025)

Figure 38. Global Solar Powered Unmanned Surface Vessel Sales Market Share by Region (2020-2025)

Figure 39. Global Solar Powered Unmanned Surface Vessel Market Size by Region (2020-2025)

Figure 40. North America Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Solar Powered Unmanned Surface Vessel Sales Market Share by Country in 2024

Figure 43. North America Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Solar Powered Unmanned Surface Vessel Market Size by Country in 2024

Figure 45. U.S. Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Solar Powered Unmanned Surface Vessel Sales (K Units) and

Growth Rate (2020-2025)

Figure 48. Canada Solar Powered Unmanned Surface Vessel Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Solar Powered Unmanned Surface Vessel Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Solar Powered Unmanned Surface Vessel Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Solar Powered Unmanned Surface Vessel Sales Market Share by Country in 2024

Figure 53. Europe Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Solar Powered Unmanned Surface Vessel Market Size by Country in 2024

Figure 55. Germany Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Solar Powered Unmanned Surface Vessel Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Solar Powered Unmanned Surface Vessel Sales Market Share by Region in 2024

Figure 67. Asia Pacific Solar Powered Unmanned Surface Vessel Market Size by Region in 2024

Figure 68. China Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Solar Powered Unmanned Surface Vessel Sales and Growth Rate (K Units)

Figure 79. South America Solar Powered Unmanned Surface Vessel Sales Market Share by Country in 2024

Figure 80. South America Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (M USD)

Figure 81. South America Solar Powered Unmanned Surface Vessel Market Size by Country in 2024

Figure 82. Brazil Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Solar Powered Unmanned Surface Vessel Sales and Growth Rate

(2020-2025) & (K Units)

Figure 87. Columbia Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Solar Powered Unmanned Surface Vessel Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Solar Powered Unmanned Surface Vessel Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Solar Powered Unmanned Surface Vessel Market Size by Region in 2024

Figure 92. Saudi Arabia Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Solar Powered Unmanned Surface Vessel Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Solar Powered Unmanned Surface Vessel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Solar Powered Unmanned Surface Vessel Production Market Share by Region (2020-2025)

Figure 103. North America Solar Powered Unmanned Surface Vessel Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Solar Powered Unmanned Surface Vessel Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Solar Powered Unmanned Surface Vessel Production (K Units) Growth Rate (2020-2025)

Figure 106. China Solar Powered Unmanned Surface Vessel Production (K Units)
Growth Rate (2020-2025)

Figure 107. Global Solar Powered Unmanned Surface Vessel Sales Forecast by
Volume (2020-2035) & (K Units)

Figure 108. Global Solar Powered Unmanned Surface Vessel Market Size Forecast by
Value (2020-2035) & (M USD)

Figure 109. Global Solar Powered Unmanned Surface Vessel Sales Market Share
Forecast by Type (2026-2035)

Figure 110. Global Solar Powered Unmanned Surface Vessel Market Share Forecast
by Type (2026-2035)

Figure 111. Global Solar Powered Unmanned Surface Vessel Sales Forecast by
Application (2026-2035)

Figure 112. Global Solar Powered Unmanned Surface Vessel Market Share Forecast
by Application (2026-2035)

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