

Global Buoy-based Water Quality Monitoring System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Buoy-based Water Quality Monitoring System market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 413 million by 2032 with a CAGR of 6.8% during review period.

A Buoy-based Water Quality Monitoring System is a floating platform-type online monitoring solution designed to continuously and autonomously monitor water quality parameters in natural and engineered water bodies. Integrated onto a buoy structure are multiple sensors for parameters such as pH, dissolved oxygen (DO), conductivity, turbidity, temperature, and nutrient levels, along with a data acquisition and communication system. These systems are typically powered by solar energy and transmit collected water quality data wirelessly or through telemetry to a central server or cloud platform in real time. The system's modular design enables unattended, long-term deployment in lakes, rivers, reservoirs, coastal zones, and other water environments. Key components include the floating buoy body, sensor array, data logger, power supply, positioning/GPS module, and remote monitoring software. Buoy-based systems provide automated, continuous, real-time data for environmental monitoring, pollution detection, ecosystem health assessment, and management decision support. They can operate under varying environmental conditions, support historical trend analysis and alerting functions, and are widely used by environmental protection agencies, research institutions, water utilities, and ecosystem restoration projects.

The buoy-based water quality monitoring system industry stands at a pivotal stage amid accelerating global environmental monitoring initiatives. In recent years, as

consensus on combating water pollution has strengthened internationally, there has been a marked increase in demand for real-time water quality data from government agencies, research institutions, and enterprises. The automation, real-time capability, and continuous monitoring advantages of buoy systems make them a compelling alternative to traditional manual sampling, particularly in dynamic aquatic environments such as rivers, lakes, and coastal zones. These systems integrate multi-parameter sensors with wireless communication to report data in real time, generating continuous monitoring datasets that aid in formulating scientific water resource management strategies and pollution early-warning systems. In developed regions, stringent environmental regulations and regulatory requirements encourage sustained investment in water monitoring infrastructure, driving industry growth; in developing economies, increasing needs related to industrial wastewater discharge and ecological restoration are being translated into tangible deployments. Overall, the market's expansion is closely tied to global emphasis on sustainable water resource monitoring, a core driver of industry growth.

At the same time, technological innovation plays a critical role in propelling the buoy-based water quality monitoring market. With the maturation of IoT, cloud platforms, big data, and AI, the analytical capability, automation, and user-friendliness of monitoring systems continue to improve. Advanced sensor-based buoy systems not only enable higher-precision measurement of water quality parameters but also process data in real time and output trend analysis, offering more reliable support for risk management. Additionally, technologies such as solar power, modular design, and remote maintenance make systems more suitable for remote deployment and unattended operation, reducing long-term operating costs. These technological trends are transforming buoy systems from standalone hardware into intelligent monitoring platforms, increasing their roles in smart water management, marine ecological protection, and urban water infrastructure.

However, industry development also faces complex challenges and risks. First, the high initial investment required for advanced buoy systems poses a barrier for budget-constrained public agencies and small to medium-sized enterprises. Reports indicate that deploying a multi-parameter, highly reliable buoy system can cost several tens of thousands of USD, and maintenance and calibration require specialized teams, limiting widespread adoption in developing regions. Moreover, aquatic environments are inherently complex; sensors exposed long-term can suffer from biofouling, physical damage, and drift, affecting data accuracy. This necessitates more durable designs and maintenance plans, increasing overall system operational costs. Data security and interoperability are also critical concerns—large volumes of monitoring data require

reliable networks and robust security measures, and in regions with limited network infrastructure data transmission may be constrained. Although these challenges exist, technological advancements and scale effects are gradually reducing their impact on market growth.

Regarding downstream demand, applications of buoy-based water quality monitoring are expanding into broader sectors. While traditional environmental protection agencies and water utilities remain core markets, the promotion of smart cities and intelligent water management has encouraged industrial enterprises, agricultural operations—especially large aquaculture facilities—research organizations, and marine engineering projects to incorporate real-time water quality monitoring as an integral component of their operations. In aquaculture, real-time water quality data helps improve production efficiency and reduce risk, turning water monitoring from purely an environmental requirement into a productivity optimization tool. Coastal tourism zones, port facilities, and international environmental projects are also including environmental monitoring in regional development plans, further stimulating demand. In the long term, downstream demand trends point to a preference for more intelligent, integrated, and low-maintenance systems, with growing needs for data service platforms, predictive models, and cross-platform data integration capabilities.

In summary, the buoy-based water quality monitoring industry holds significant long-term growth opportunities, supported by strengthened environmental regulation, technological innovation, and expanding downstream demand. Despite challenges related to cost, maintenance, and data security, the impact of these obstacles is diminishing with technological maturity and widespread deployment. Industry participants should focus on technological upgrades, differentiated product design, and cross-industry data analysis capabilities to capture market growth and achieve sustainable expansion.

This report is a detailed and comprehensive analysis for global Buoy-based Water Quality Monitoring System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Buoy-based Water Quality Monitoring System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Buoy-based Water Quality Monitoring System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Buoy-based Water Quality Monitoring System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Buoy-based Water Quality Monitoring System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Buoy-based Water Quality Monitoring System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Buoy-based Water Quality Monitoring System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Xylem, YSI (a Xylem brand), LG Sonic, WaterITech, Bluesonde, F&V Group, Suzhou Asenhe Environmental Protection Technology Co., Ltd., Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd., Shandong Trina Solar Environment, Shenzhen Care and Love Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Buoy-based Water Quality Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

30 W Solar Panel

60 W Solar Panel

72 W Solar Panel

Others

Market segment by Manufacturing Process

Modular Assembly

Integrated Cast / Molded

Hybrid Construction

Market segment by Physical Composition

Plastic / Polymer Body

Metal / Alloy Body

Composite Material Body

Market segment by Delivery

Pre-assembled Ready-to-Deploy

Kit / Modular Delivery

Custom-Built / ODM

Market segment by Application

River

Lake

Reservoir

Others

Major players covered

Xylem

YSI (a Xylem brand)

LG Sonic

WaterITech

Bluesonde

F&V Group

Suzhou Asenhe Environmental Protection Technology Co., Ltd.

Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd.

Shandong Trina Solar Environment

Shenzhen Care and Love Technology Co., Ltd.

Chongqing Haidon Technology Co., Ltd.

Hangzhou iWater Environmental Technology Co., Ltd.

Fuguang Water Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Buoy-based Water Quality Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Buoy-based Water Quality Monitoring System, with price, sales quantity, revenue, and global market share of Buoy-based Water Quality Monitoring System from 2021 to 2026.

Chapter 3, the Buoy-based Water Quality Monitoring System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Buoy-based Water Quality Monitoring System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Buoy-based Water Quality Monitoring System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Buoy-based Water Quality Monitoring System.

Chapter 14 and 15, to describe Buoy-based Water Quality Monitoring System sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Buoy-based Water Quality Monitoring System Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 30 W Solar Panel

1.3.3 60 W Solar Panel

1.3.4 72 W Solar Panel

1.3.5 Others

1.4 Market Analysis by Manufacturing Process

1.4.1 Overview: Global Buoy-based Water Quality Monitoring System Consumption Value by Manufacturing Process: 2021 Versus 2025 Versus 2032

1.4.2 Modular Assembly

1.4.3 Integrated Cast / Molded

1.4.4 Hybrid Construction

1.5 Market Analysis by Physical Composition

1.5.1 Overview: Global Buoy-based Water Quality Monitoring System Consumption Value by Physical Composition: 2021 Versus 2025 Versus 2032

1.5.2 Plastic / Polymer Body

1.5.3 Metal / Alloy Body

1.5.4 Composite Material Body

1.6 Market Analysis by Delivery

1.6.1 Overview: Global Buoy-based Water Quality Monitoring System Consumption Value by Delivery: 2021 Versus 2025 Versus 2032

1.6.2 Pre-assembled Ready-to-Deploy

1.6.3 Kit / Modular Delivery

1.6.4 Custom-Built / ODM

1.7 Market Analysis by Application

1.7.1 Overview: Global Buoy-based Water Quality Monitoring System Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 River

1.7.3 Lake

1.7.4 Reservoir

1.7.5 Others

1.8 Global Buoy-based Water Quality Monitoring System Market Size & Forecast

- 1.8.1 Global Buoy-based Water Quality Monitoring System Consumption Value (2021 & 2025 & 2032)
- 1.8.2 Global Buoy-based Water Quality Monitoring System Sales Quantity (2021-2032)
- 1.8.3 Global Buoy-based Water Quality Monitoring System Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Xylem

2.1.1 Xylem Details

2.1.2 Xylem Major Business

2.1.3 Xylem Buoy-based Water Quality Monitoring System Product and Services

2.1.4 Xylem Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Xylem Recent Developments/Updates

2.2 YSI (a Xylem brand)

2.2.1 YSI (a Xylem brand) Details

2.2.2 YSI (a Xylem brand) Major Business

2.2.3 YSI (a Xylem brand) Buoy-based Water Quality Monitoring System Product and Services

2.2.4 YSI (a Xylem brand) Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 YSI (a Xylem brand) Recent Developments/Updates

2.3 LG Sonic

2.3.1 LG Sonic Details

2.3.2 LG Sonic Major Business

2.3.3 LG Sonic Buoy-based Water Quality Monitoring System Product and Services

2.3.4 LG Sonic Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 LG Sonic Recent Developments/Updates

2.4 WaterITech

2.4.1 WaterITech Details

2.4.2 WaterITech Major Business

2.4.3 WaterITech Buoy-based Water Quality Monitoring System Product and Services

2.4.4 WaterITech Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 WaterITech Recent Developments/Updates

2.5 Bluesonde

2.5.1 Bluesonde Details

2.5.2 Bluesonde Major Business

- 2.5.3 Bluesonde Buoy-based Water Quality Monitoring System Product and Services
- 2.5.4 Bluesonde Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.5.5 Bluesonde Recent Developments/Updates
- 2.6 F&V Group
 - 2.6.1 F&V Group Details
 - 2.6.2 F&V Group Major Business
 - 2.6.3 F&V Group Buoy-based Water Quality Monitoring System Product and Services
 - 2.6.4 F&V Group Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 F&V Group Recent Developments/Updates
- 2.7 Suzhou Asenhe Environmental Protection Technology Co., Ltd.
 - 2.7.1 Suzhou Asenhe Environmental Protection Technology Co., Ltd. Details
 - 2.7.2 Suzhou Asenhe Environmental Protection Technology Co., Ltd. Major Business
 - 2.7.3 Suzhou Asenhe Environmental Protection Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services
 - 2.7.4 Suzhou Asenhe Environmental Protection Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Suzhou Asenhe Environmental Protection Technology Co., Ltd. Recent Developments/Updates
- 2.8 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd.
 - 2.8.1 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Details
 - 2.8.2 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Major Business
 - 2.8.3 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services
 - 2.8.4 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Recent Developments/Updates
- 2.9 Shandong Trina Solar Environment
 - 2.9.1 Shandong Trina Solar Environment Details
 - 2.9.2 Shandong Trina Solar Environment Major Business
 - 2.9.3 Shandong Trina Solar Environment Buoy-based Water Quality Monitoring System Product and Services
 - 2.9.4 Shandong Trina Solar Environment Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share

(2021-2026)

2.9.5 Shandong Trina Solar Environment Recent Developments/Updates

2.10 Shenzhen Care and Love Technology Co., Ltd.

2.10.1 Shenzhen Care and Love Technology Co., Ltd. Details

2.10.2 Shenzhen Care and Love Technology Co., Ltd. Major Business

2.10.3 Shenzhen Care and Love Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

2.10.4 Shenzhen Care and Love Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Shenzhen Care and Love Technology Co., Ltd. Recent Developments/Updates

2.11 Chongqing Haidon Technology Co., Ltd.

2.11.1 Chongqing Haidon Technology Co., Ltd. Details

2.11.2 Chongqing Haidon Technology Co., Ltd. Major Business

2.11.3 Chongqing Haidon Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

2.11.4 Chongqing Haidon Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Chongqing Haidon Technology Co., Ltd. Recent Developments/Updates

2.12 Hangzhou iWater Environmental Technology Co., Ltd.

2.12.1 Hangzhou iWater Environmental Technology Co., Ltd. Details

2.12.2 Hangzhou iWater Environmental Technology Co., Ltd. Major Business

2.12.3 Hangzhou iWater Environmental Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

2.12.4 Hangzhou iWater Environmental Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Hangzhou iWater Environmental Technology Co., Ltd. Recent Developments/Updates

2.13 Fuguang Water Technology Co., Ltd.

2.13.1 Fuguang Water Technology Co., Ltd. Details

2.13.2 Fuguang Water Technology Co., Ltd. Major Business

2.13.3 Fuguang Water Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

2.13.4 Fuguang Water Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Fuguang Water Technology Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BUOY-BASED WATER QUALITY MONITORING SYSTEM BY MANUFACTURER

- 3.1 Global Buoy-based Water Quality Monitoring System Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Buoy-based Water Quality Monitoring System Revenue by Manufacturer (2021-2026)
- 3.3 Global Buoy-based Water Quality Monitoring System Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Buoy-based Water Quality Monitoring System by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Buoy-based Water Quality Monitoring System Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Buoy-based Water Quality Monitoring System Manufacturer Market Share in 2025
- 3.5 Buoy-based Water Quality Monitoring System Market: Overall Company Footprint Analysis
 - 3.5.1 Buoy-based Water Quality Monitoring System Market: Region Footprint
 - 3.5.2 Buoy-based Water Quality Monitoring System Market: Company Product Type Footprint
 - 3.5.3 Buoy-based Water Quality Monitoring System Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Buoy-based Water Quality Monitoring System Market Size by Region
 - 4.1.1 Global Buoy-based Water Quality Monitoring System Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Buoy-based Water Quality Monitoring System Consumption Value by Region (2021-2032)
 - 4.1.3 Global Buoy-based Water Quality Monitoring System Average Price by Region (2021-2032)
- 4.2 North America Buoy-based Water Quality Monitoring System Consumption Value (2021-2032)
- 4.3 Europe Buoy-based Water Quality Monitoring System Consumption Value

(2021-2032)

4.4 Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value

(2021-2032)

4.5 South America Buoy-based Water Quality Monitoring System Consumption Value

(2021-2032)

4.6 Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Buoy-based Water Quality Monitoring System Sales Quantity by Type

(2021-2032)

5.2 Global Buoy-based Water Quality Monitoring System Consumption Value by Type

(2021-2032)

5.3 Global Buoy-based Water Quality Monitoring System Average Price by Type

(2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Buoy-based Water Quality Monitoring System Sales Quantity by Application

(2021-2032)

6.2 Global Buoy-based Water Quality Monitoring System Consumption Value by Application (2021-2032)

6.3 Global Buoy-based Water Quality Monitoring System Average Price by Application

(2021-2032)

7 NORTH AMERICA

7.1 North America Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2032)

7.2 North America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2032)

7.3 North America Buoy-based Water Quality Monitoring System Market Size by Country

7.3.1 North America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2032)

7.3.2 North America Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2032)

8.2 Europe Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2032)

8.3 Europe Buoy-based Water Quality Monitoring System Market Size by Country

8.3.1 Europe Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2032)

8.3.2 Europe Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Buoy-based Water Quality Monitoring System Market Size by Region

9.3.1 Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2032)

10.2 South America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2032)

10.3 South America Buoy-based Water Quality Monitoring System Market Size by Country

10.3.1 South America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2032)

10.3.2 South America Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Buoy-based Water Quality Monitoring System Market Size by Country

11.3.1 Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Buoy-based Water Quality Monitoring System Market Drivers

12.2 Buoy-based Water Quality Monitoring System Market Restraints

12.3 Buoy-based Water Quality Monitoring System Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Buoy-based Water Quality Monitoring System and Key Manufacturers

13.2 Manufacturing Costs Percentage of Buoy-based Water Quality Monitoring System

13.3 Buoy-based Water Quality Monitoring System Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Buoy-based Water Quality Monitoring System Typical Distributors

14.3 Buoy-based Water Quality Monitoring System Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Buoy-based Water Quality Monitoring System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Buoy-based Water Quality Monitoring System Consumption Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Buoy-based Water Quality Monitoring System Consumption Value by Physical Composition, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Buoy-based Water Quality Monitoring System Consumption Value by Delivery, (USD Million), 2021 & 2025 & 2032
- Table 5. Global Buoy-based Water Quality Monitoring System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 6. Xylem Basic Information, Manufacturing Base and Competitors
- Table 7. Xylem Major Business
- Table 8. Xylem Buoy-based Water Quality Monitoring System Product and Services
- Table 9. Xylem Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 10. Xylem Recent Developments/Updates
- Table 11. YSI (a Xylem brand) Basic Information, Manufacturing Base and Competitors
- Table 12. YSI (a Xylem brand) Major Business
- Table 13. YSI (a Xylem brand) Buoy-based Water Quality Monitoring System Product and Services
- Table 14. YSI (a Xylem brand) Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 15. YSI (a Xylem brand) Recent Developments/Updates
- Table 16. LG Sonic Basic Information, Manufacturing Base and Competitors
- Table 17. LG Sonic Major Business
- Table 18. LG Sonic Buoy-based Water Quality Monitoring System Product and Services
- Table 19. LG Sonic Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 20. LG Sonic Recent Developments/Updates
- Table 21. WaterITech Basic Information, Manufacturing Base and Competitors
- Table 22. WaterITech Major Business
- Table 23. WaterITech Buoy-based Water Quality Monitoring System Product and

Services

Table 24. WaterITech Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. WaterITech Recent Developments/Updates

Table 26. Bluesonde Basic Information, Manufacturing Base and Competitors

Table 27. Bluesonde Major Business

Table 28. Bluesonde Buoy-based Water Quality Monitoring System Product and Services

Table 29. Bluesonde Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Bluesonde Recent Developments/Updates

Table 31. F&V Group Basic Information, Manufacturing Base and Competitors

Table 32. F&V Group Major Business

Table 33. F&V Group Buoy-based Water Quality Monitoring System Product and Services

Table 34. F&V Group Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. F&V Group Recent Developments/Updates

Table 36. Suzhou Asenhe Environmental Protection Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 37. Suzhou Asenhe Environmental Protection Technology Co., Ltd. Major Business

Table 38. Suzhou Asenhe Environmental Protection Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 39. Suzhou Asenhe Environmental Protection Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Suzhou Asenhe Environmental Protection Technology Co., Ltd. Recent Developments/Updates

Table 41. Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 42. Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Major Business

Table 43. Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 44. Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Buoy-

based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Hangzhou FPI Instruments / Juguang Technology (Hangzhou) Co., Ltd. Recent Developments/Updates

Table 46. Shandong Trina Solar Environment Basic Information, Manufacturing Base and Competitors

Table 47. Shandong Trina Solar Environment Major Business

Table 48. Shandong Trina Solar Environment Buoy-based Water Quality Monitoring System Product and Services

Table 49. Shandong Trina Solar Environment Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Shandong Trina Solar Environment Recent Developments/Updates

Table 51. Shenzhen Care and Love Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 52. Shenzhen Care and Love Technology Co., Ltd. Major Business

Table 53. Shenzhen Care and Love Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 54. Shenzhen Care and Love Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Shenzhen Care and Love Technology Co., Ltd. Recent Developments/Updates

Table 56. Chongqing Haidon Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 57. Chongqing Haidon Technology Co., Ltd. Major Business

Table 58. Chongqing Haidon Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 59. Chongqing Haidon Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Chongqing Haidon Technology Co., Ltd. Recent Developments/Updates

Table 61. Hangzhou iWater Environmental Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 62. Hangzhou iWater Environmental Technology Co., Ltd. Major Business

Table 63. Hangzhou iWater Environmental Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 64. Hangzhou iWater Environmental Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue

(USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Hangzhou iWater Environmental Technology Co., Ltd. Recent Developments/Updates

Table 66. Fuguang Water Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 67. Fuguang Water Technology Co., Ltd. Major Business

Table 68. Fuguang Water Technology Co., Ltd. Buoy-based Water Quality Monitoring System Product and Services

Table 69. Fuguang Water Technology Co., Ltd. Buoy-based Water Quality Monitoring System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Fuguang Water Technology Co., Ltd. Recent Developments/Updates

Table 71. Global Buoy-based Water Quality Monitoring System Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 72. Global Buoy-based Water Quality Monitoring System Revenue by Manufacturer (2021-2026) & (USD Million)

Table 73. Global Buoy-based Water Quality Monitoring System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 74. Market Position of Manufacturers in Buoy-based Water Quality Monitoring System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 75. Head Office and Buoy-based Water Quality Monitoring System Production Site of Key Manufacturer

Table 76. Buoy-based Water Quality Monitoring System Market: Company Product Type Footprint

Table 77. Buoy-based Water Quality Monitoring System Market: Company Product Application Footprint

Table 78. Buoy-based Water Quality Monitoring System New Market Entrants and Barriers to Market Entry

Table 79. Buoy-based Water Quality Monitoring System Mergers, Acquisition, Agreements, and Collaborations

Table 80. Global Buoy-based Water Quality Monitoring System Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 81. Global Buoy-based Water Quality Monitoring System Sales Quantity by Region (2021-2026) & (K Units)

Table 82. Global Buoy-based Water Quality Monitoring System Sales Quantity by Region (2027-2032) & (K Units)

Table 83. Global Buoy-based Water Quality Monitoring System Consumption Value by Region (2021-2026) & (USD Million)

Table 84. Global Buoy-based Water Quality Monitoring System Consumption Value by

Region (2027-2032) & (USD Million)

Table 85. Global Buoy-based Water Quality Monitoring System Average Price by Region (2021-2026) & (US\$/Unit)

Table 86. Global Buoy-based Water Quality Monitoring System Average Price by Region (2027-2032) & (US\$/Unit)

Table 87. Global Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2026) & (K Units)

Table 88. Global Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 89. Global Buoy-based Water Quality Monitoring System Consumption Value by Type (2021-2026) & (USD Million)

Table 90. Global Buoy-based Water Quality Monitoring System Consumption Value by Type (2027-2032) & (USD Million)

Table 91. Global Buoy-based Water Quality Monitoring System Average Price by Type (2021-2026) & (US\$/Unit)

Table 92. Global Buoy-based Water Quality Monitoring System Average Price by Type (2027-2032) & (US\$/Unit)

Table 93. Global Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Global Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Global Buoy-based Water Quality Monitoring System Consumption Value by Application (2021-2026) & (USD Million)

Table 96. Global Buoy-based Water Quality Monitoring System Consumption Value by Application (2027-2032) & (USD Million)

Table 97. Global Buoy-based Water Quality Monitoring System Average Price by Application (2021-2026) & (US\$/Unit)

Table 98. Global Buoy-based Water Quality Monitoring System Average Price by Application (2027-2032) & (US\$/Unit)

Table 99. North America Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2026) & (K Units)

Table 100. North America Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 101. North America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 102. North America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 103. North America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2026) & (K Units)

Table 104. North America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2027-2032) & (K Units)

Table 105. North America Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2026) & (USD Million)

Table 106. North America Buoy-based Water Quality Monitoring System Consumption Value by Country (2027-2032) & (USD Million)

Table 107. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2026) & (K Units)

Table 108. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 109. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 110. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 111. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2026) & (K Units)

Table 112. Europe Buoy-based Water Quality Monitoring System Sales Quantity by Country (2027-2032) & (K Units)

Table 113. Europe Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2026) & (USD Million)

Table 114. Europe Buoy-based Water Quality Monitoring System Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Region (2021-2026) & (K Units)

Table 120. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity by Region (2027-2032) & (K Units)

Table 121. Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value by Region (2021-2026) & (USD Million)

Table 122. Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value by Region (2027-2032) & (USD Million)

Table 123. South America Buoy-based Water Quality Monitoring System Sales Quantity

by Type (2021-2026) & (K Units)

Table 124. South America Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 125. South America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 126. South America Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 127. South America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2026) & (K Units)

Table 128. South America Buoy-based Water Quality Monitoring System Sales Quantity by Country (2027-2032) & (K Units)

Table 129. South America Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2026) & (USD Million)

Table 130. South America Buoy-based Water Quality Monitoring System Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Type (2021-2026) & (K Units)

Table 132. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Type (2027-2032) & (K Units)

Table 133. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Application (2021-2026) & (K Units)

Table 134. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Application (2027-2032) & (K Units)

Table 135. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Country (2021-2026) & (K Units)

Table 136. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity by Country (2027-2032) & (K Units)

Table 137. Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Buoy-based Water Quality Monitoring System Raw Material

Table 140. Key Manufacturers of Buoy-based Water Quality Monitoring System Raw Materials

Table 141. Buoy-based Water Quality Monitoring System Typical Distributors

Table 142. Buoy-based Water Quality Monitoring System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Buoy-based Water Quality Monitoring System Picture
- Figure 2. Global Buoy-based Water Quality Monitoring System Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Type in 2025
- Figure 4. 30 W Solar Panel Examples
- Figure 5. 60 W Solar Panel Examples
- Figure 6. 72 W Solar Panel Examples
- Figure 7. Others Examples
- Figure 8. Global Buoy-based Water Quality Monitoring System Revenue by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Manufacturing Process in 2025
- Figure 10. Modular Assembly Examples
- Figure 11. Integrated Cast / Molded Examples
- Figure 12. Hybrid Construction Examples
- Figure 13. Global Buoy-based Water Quality Monitoring System Revenue by Physical Composition, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Physical Composition in 2025
- Figure 15. Plastic / Polymer Body Examples
- Figure 16. Metal / Alloy Body Examples
- Figure 17. Composite Material Body Examples
- Figure 18. Global Buoy-based Water Quality Monitoring System Revenue by Delivery, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Delivery in 2025
- Figure 20. Pre-assembled Ready-to-Deploy Examples
- Figure 21. Kit / Modular Delivery Examples
- Figure 22. Custom-Built / ODM Examples
- Figure 23. Global Buoy-based Water Quality Monitoring System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 24. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Application in 2025
- Figure 25. River Examples

Figure 26. Lake Examples

Figure 27. Reservoir Examples

Figure 28. Others Examples

Figure 29. Global Buoy-based Water Quality Monitoring System Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 30. Global Buoy-based Water Quality Monitoring System Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 31. Global Buoy-based Water Quality Monitoring System Sales Quantity (2021-2032) & (K Units)

Figure 32. Global Buoy-based Water Quality Monitoring System Price (2021-2032) & (US\$/Unit)

Figure 33. Global Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Manufacturer in 2025

Figure 34. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Manufacturer in 2025

Figure 35. Producer Shipments of Buoy-based Water Quality Monitoring System by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 36. Top 3 Buoy-based Water Quality Monitoring System Manufacturer (Revenue) Market Share in 2025

Figure 37. Top 6 Buoy-based Water Quality Monitoring System Manufacturer (Revenue) Market Share in 2025

Figure 38. Global Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Region (2021-2032)

Figure 39. Global Buoy-based Water Quality Monitoring System Consumption Value Market Share by Region (2021-2032)

Figure 40. North America Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 41. Europe Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 42. Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 43. South America Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 44. Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 45. Global Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 46. Global Buoy-based Water Quality Monitoring System Consumption Value Market Share by Type (2021-2032)

Figure 47. Global Buoy-based Water Quality Monitoring System Average Price by Type (2021-2032) & (US\$/Unit)

Figure 48. Global Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 49. Global Buoy-based Water Quality Monitoring System Revenue Market Share by Application (2021-2032)

Figure 50. Global Buoy-based Water Quality Monitoring System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 51. North America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 52. North America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 53. North America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Country (2021-2032)

Figure 54. North America Buoy-based Water Quality Monitoring System Consumption Value Market Share by Country (2021-2032)

Figure 55. United States Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 56. Canada Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 57. Mexico Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 58. Europe Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 59. Europe Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 60. Europe Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Country (2021-2032)

Figure 61. Europe Buoy-based Water Quality Monitoring System Consumption Value Market Share by Country (2021-2032)

Figure 62. Germany Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 63. France Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 64. United Kingdom Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 65. Russia Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 66. Italy Buoy-based Water Quality Monitoring System Consumption Value

(2021-2032) & (USD Million)

Figure 67. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 68. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 69. Asia-Pacific Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Region (2021-2032)

Figure 70. Asia-Pacific Buoy-based Water Quality Monitoring System Consumption Value Market Share by Region (2021-2032)

Figure 71. China Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 72. Japan Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 73. South Korea Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 74. India Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 75. Southeast Asia Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 76. Australia Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 77. South America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 78. South America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 79. South America Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Country (2021-2032)

Figure 80. South America Buoy-based Water Quality Monitoring System Consumption Value Market Share by Country (2021-2032)

Figure 81. Brazil Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 82. Argentina Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)

Figure 83. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Type (2021-2032)

Figure 84. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Application (2021-2032)

Figure 85. Middle East & Africa Buoy-based Water Quality Monitoring System Sales Quantity Market Share by Country (2021-2032)

- Figure 86. Middle East & Africa Buoy-based Water Quality Monitoring System Consumption Value Market Share by Country (2021-2032)
- Figure 87. Turkey Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)
- Figure 88. Egypt Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)
- Figure 89. Saudi Arabia Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)
- Figure 90. South Africa Buoy-based Water Quality Monitoring System Consumption Value (2021-2032) & (USD Million)
- Figure 91. Buoy-based Water Quality Monitoring System Market Drivers
- Figure 92. Buoy-based Water Quality Monitoring System Market Restraints
- Figure 93. Buoy-based Water Quality Monitoring System Market Trends
- Figure 94. Porters Five Forces Analysis
- Figure 95. Manufacturing Cost Structure Analysis of Buoy-based Water Quality Monitoring System in 2025
- Figure 96. Manufacturing Process Analysis of Buoy-based Water Quality Monitoring System
- Figure 97. Buoy-based Water Quality Monitoring System Industrial Chain
- Figure 98. Sales Channel: Direct to End-User vs Distributors
- Figure 99. Direct Channel Pros & Cons
- Figure 100. Indirect Channel Pros & Cons
- Figure 101. Methodology
- Figure 102. Research Process and Data Source

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