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Global Buoy-based Water Quality Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Buoy-based Water Quality Monitoring System market size is expected to reach $ 413 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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

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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,

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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 studies the global Buoy-based Water Quality Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Buoy-based Water Quality Monitoring System and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Buoy-based Water Quality Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Buoy-based Water Quality Monitoring System total production and demand,

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2021-2032, (K Units)
Global Buoy-based Water Quality Monitoring System total production value, 2021-2032, (USD Million)
Global Buoy-based Water Quality Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Buoy-based Water Quality Monitoring System consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Buoy-based Water Quality Monitoring System domestic production, consumption, key domestic manufacturers and share
Global Buoy-based Water Quality Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Buoy-based Water Quality Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Buoy-based Water Quality Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Buoy-based Water Quality Monitoring System market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Buoy-based Water Quality Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

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Global Buoy-based Water Quality Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Buoy-based Water Quality Monitoring System Market, Segmentation by Type:

30 W Solar Panel

60 W Solar Panel

72 W Solar Panel

Others

Global Buoy-based Water Quality Monitoring System Market, Segmentation by Manufacturing Process:

Modular Assembly

Integrated Cast / Molded

Hybrid Construction

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Global Buoy-based Water Quality Monitoring System Market, Segmentation by Physical Composition:

Plastic / Polymer Body

Metal / Alloy Body

Composite Material Body

Global Buoy-based Water Quality Monitoring System Market, Segmentation by Delivery:

Pre-assembled Ready-to-Deploy

Kit / Modular Delivery

Custom-Built / ODM

Global Buoy-based Water Quality Monitoring System Market, Segmentation by Application:

River

Lake

Reservoir

Others

Companies Profiled:

Xylem

YSI (a Xylem brand)

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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.

Key Questions Answered:
1. How big is the global Buoy-based Water Quality Monitoring System market?
2. What is the demand of the global Buoy-based Water Quality Monitoring System market?
3. What is the year over year growth of the global Buoy-based Water Quality Monitoring System market?
4. What is the production and production value of the global Buoy-based Water Quality Monitoring System market?
5. Who are the key producers in the global Buoy-based Water Quality Monitoring System market?
6. What are the growth factors driving the market demand?

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