

Cloud-Based Water Treatment Monitoring Market Outlook 2026-2034: Market Share, and Growth Analysis By Service Model (Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS), Infrastructure-as-a-Service (IaaS)), By Application (Real-Time Process Monitoring & Control, Water Quality & Compliance Management, Asset Performance & Predictive Maintenance, Energy Management & Optimization, Chemical Feed & Dosing Control, Data Analytics & Reporting, Remote Operations Management), By End-User, By Deployment Type, By Component

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Abstracts

The Cloud-Based Water Treatment Monitoring Market is valued at USD 1.2 billion in 2025 and is projected to grow at a CAGR of 7.6% to reach USD 2.32 billion by 2034.

Cloud-Based Water Treatment Monitoring Market

The Cloud-Based Water Treatment Monitoring market comprises SaaS platforms, edge gateways, and analytics that collect, normalize, and visualize data from treatment plants, networks, and industrial systems to improve safety, compliance, and cost performance. Core applications span municipal drinking water and wastewater plants, industrial process water and effluent, commercial buildings, district cooling, desalination, and remote/temporary treatment units. Typical use-cases include real-time quality and process KPIs (pH, ORP, DO, turbidity, COD/BOD proxies), asset health and energy optimization for pumps/blowers/aerators, predictive maintenance, chemical dosing

control, leakage and non-revenue water management, compliance reporting, and incident response. The latest trends emphasize cloud-native historians, digital twins of processes and networks, low-power IoT and NB-IoT/LTE-M telemetry, AI-driven anomaly detection, inline spectrometry, cybersecurity-hardening for OT/IT convergence, and embedded ESG reporting. Drivers include aging water infrastructure, stricter discharge and potable standards, climate-driven variability, scarcity and non-revenue water losses, rising energy and chemical costs, and a shortage of skilled operators. Competitive dynamics bring together industrial automation majors, water OEMs, specialist SaaS/IoT vendors, systems integrators, and telco utilities. Differentiation hinges on open data models and connectors (SCADA, PLCs, AMI, lab LIMS), configurable dashboards and alarms, validated analytics (explainable models with process constraints), and secure multi-tenant architectures with role-based access. Buyers increasingly prefer outcome-linked deployments - reducing energy per m³, chemical consumption, and compliance risk - delivered via modular subscriptions, with options for managed services and remote monitoring centers. Vendors that combine domain expertise, secure-by-design cloud, and rapid time-to-value through prebuilt playbooks and edge templates are best positioned.

Cloud-Based Water Treatment Monitoring Market Key Insights

From SCADA visualization to closed-loop optimization. Platforms evolve from read-only dashboards to model-assisted set-points for aeration, disinfection, and dosing, lifting effluent quality and lowering energy/chemicals when guardrails are in place.

Edge intelligence reduces bandwidth and latency. Local filtering, event detection, and protocol translation (Modbus, OPC UA) cut cloud costs and support resilient operations during connectivity dips.

Data unification is a moat. Connectors to legacy PLCs, historians, AMI/AMI-I, CMMS, and LIMS - plus asset and GIS layers - enable root-cause analytics and prioritize high-impact interventions.

AI needs process physics. Hybrid models that embed mass-balance and kinetics outperform black-box ML, improving operator trust and auditability for regulators.

Cybersecurity is purchasing-critical. Zero-trust, SBOM visibility, MFA, network segmentation, and secure update pipelines are now RFP prerequisites; vendors bundle playbooks for incident response.

Compliance automation saves operator time. Auto-generated logs, eDMR packages, and audit trails reduce manual reporting; exception workflows escalate exceedances with corrective-action tracking.

Non-revenue water and distribution analytics rise. DMA-based leakage detection, pressure optimization, and smart metering analytics deliver fast paybacks for utilities under drought stress.

Industrial ESG and water positivity. Manufacturers adopt monitoring to hit reuse/circularity targets, verify discharge, and support sustainability disclosures with verifiable datasets.

Service models expand. Remote operations centers, “analytics as a service,” and performance guarantees shift risk and address skill shortages, especially in small/medium utilities.

Interoperability and openness win. API-first architectures and standards-based data schemas reduce lock-in and accelerate multi-vendor deployments across plants and regions.

Cloud-Based Water Treatment Monitoring Market Regional Analysis

North America

Modernization programs and stricter state-level rules drive upgrades from legacy on-prem systems to cloud-native monitoring. Emphasis on cybersecurity frameworks and audit-ready reporting is high. Drought and NRW mandates push distribution analytics. Industrial water reuse and ZLD pilots benefit from hybrid edge-cloud controls. Buyers value rapid integration with existing SCADA/CMMS and outcome-based contracts that cut energy and chemical costs.

Europe

Tight water quality directives, energy-efficiency goals, and data-privacy requirements shape solution design. Utilities pursue leakage reduction via DMA analytics and pressure management at scale. Brownfield plants require connectors to diverse PLCs and historians; vendors with strong OT security credentials gain preference. Industrial

clusters adopt cloud monitoring for discharge compliance and heat-recovery optimization. Multi-language, multi-site rollouts favor open APIs.

Asia-Pacific

Heterogeneous maturity: advanced smart-city utilities coexist with rapidly expanding networks. Population growth and industrialization boost demand for scalable, cost-efficient SaaS with mobile operator tooling. Desalination and advanced reuse (especially in arid zones) adopt digital twins for energy optimization. Telco partnerships enable wide-area IoT coverage. Governments back NRW and contamination early-warning projects.

Middle East & Africa

Desalination and district cooling create high-value monitoring opportunities; energy-intensive processes benefit from AI-assisted optimization. Utilities prioritize remote operations across dispersed assets, with cloud plus hardened edge gateways. Regulatory frameworks are strengthening, with a focus on potable security and wastewater reuse. In Africa, donor-funded projects and private concessions drive pilots; offline-tolerant solutions are critical.

South & Central America

Urban expansion and water-stress events heighten interest in NRW reduction and incident response. Budget constraints favor modular subscriptions and managed services. Compliance needs around industrial effluents and river basin protection are rising. Integrations with AMI and GIS support leak localization. Vendors with strong local SI ecosystems and Spanish/Portuguese support accelerate adoption and uptime.

Cloud-Based Water Treatment Monitoring Market Segmentation

By Service Model

Software-as-a-Service (SaaS)

Platform-as-a-Service (PaaS)

Infrastructure-as-a-Service (IaaS)

By Application

- Real-Time Process Monitoring & Control
- Water Quality & Compliance Management
- Asset Performance & Predictive Maintenance
- Energy Management & Optimization
- Chemical Feed & Dosing Control
- Data Analytics & Reporting
- Remote Operations Management

By End-User

- Municipal Water & Wastewater Utilities
- Industrial Users

By Deployment Type

- Public Cloud
- Private Cloud
- Hybrid Cloud

By Component

- Software
- Services

Key Market players

Xylem, Veolia Water Technologies & Solutions, SUEZ, Hach (Danaher), Aquatic Informatics (Danaher), Endress+Hauser, Siemens, ABB, Schneider Electric, Emerson, Honeywell, Yokogawa Electric Corporation, AVEVA (OSIsoft), Badger Meter, Itron

Cloud-Based Water Treatment Monitoring Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Cloud-Based Water Treatment Monitoring Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Cloud-Based Water Treatment Monitoring market data and outlook to 2034

United States

Canada

Mexico

Europe — Cloud-Based Water Treatment Monitoring market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Cloud-Based Water Treatment Monitoring market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Cloud-Based Water Treatment Monitoring market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Cloud-Based Water Treatment Monitoring market data and outlook to 2034

Brazil

Argentina

Chile

Peru

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

Research Methodology

This study combines primary inputs from industry experts across the Cloud-Based Water Treatment Monitoring value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Cloud-Based Water Treatment Monitoring industry at global, regional, and country levels?

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

How are supply chains adapting to geopolitical and economic shocks?

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

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

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

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

Your Key Takeaways from the Cloud-Based Water Treatment Monitoring Market Report

Global Cloud-Based Water Treatment Monitoring market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Cloud-Based Water Treatment Monitoring trade, costs, and supply chains

Cloud-Based Water Treatment Monitoring market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Cloud-Based Water Treatment Monitoring market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Cloud-Based Water Treatment Monitoring market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Cloud-Based Water Treatment Monitoring supply chain analysis

Cloud-Based Water Treatment Monitoring trade analysis, Cloud-Based Water Treatment Monitoring market price analysis, and Cloud-Based Water Treatment Monitoring supply/demand dynamics

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

Latest Cloud-Based Water Treatment Monitoring market news and developments

Additional Support

With the purchase of this report, you will receive

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

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

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

* The updated report will be delivered within 3 working days

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL CLOUD-BASED WATER TREATMENT MONITORING MARKET SUMMARY, 2025

- 2.1 Cloud-Based Water Treatment Monitoring Industry Overview
 - 2.1.1 Global Cloud-Based Water Treatment Monitoring Market Revenues (In US\$ billion)
- 2.2 Cloud-Based Water Treatment Monitoring Market Scope
- 2.3 Research Methodology

3. CLOUD-BASED WATER TREATMENT MONITORING MARKET INSIGHTS, 2024-2034

- 3.1 Cloud-Based Water Treatment Monitoring Market Drivers
- 3.2 Cloud-Based Water Treatment Monitoring Market Restraints
- 3.3 Cloud-Based Water Treatment Monitoring Market Opportunities
- 3.4 Cloud-Based Water Treatment Monitoring Market Challenges
- 3.5 Tariff Impact on Global Cloud-Based Water Treatment Monitoring Supply Chain Patterns

4. CLOUD-BASED WATER TREATMENT MONITORING MARKET ANALYTICS

- 4.1 Cloud-Based Water Treatment Monitoring Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Cloud-Based Water Treatment Monitoring Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Cloud-Based Water Treatment Monitoring Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Cloud-Based Water Treatment Monitoring Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Cloud-Based Water Treatment Monitoring Market
 - 4.5.1 Cloud-Based Water Treatment Monitoring Industry Attractiveness Index, 2025
 - 4.5.2 Cloud-Based Water Treatment Monitoring Supplier Intelligence

- 4.5.3 Cloud-Based Water Treatment Monitoring Buyer Intelligence
- 4.5.4 Cloud-Based Water Treatment Monitoring Competition Intelligence
- 4.5.5 Cloud-Based Water Treatment Monitoring Product Alternatives and Substitutes Intelligence
- 4.5.6 Cloud-Based Water Treatment Monitoring Market Entry Intelligence

5. GLOBAL CLOUD-BASED WATER TREATMENT MONITORING MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

- 5.1 World Cloud-Based Water Treatment Monitoring Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)
- 5.1 Global Cloud-Based Water Treatment Monitoring Sales Outlook and CAGR Growth By Service Model, 2024- 2034 (\$ billion)
- 5.2 Global Cloud-Based Water Treatment Monitoring Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)
- 5.3 Global Cloud-Based Water Treatment Monitoring Sales Outlook and CAGR Growth By End-User, 2024- 2034 (\$ billion)
- 5.4 Global Cloud-Based Water Treatment Monitoring Sales Outlook and CAGR Growth By Deployment Type, 2024- 2034 (\$ billion)
- 5.5 Global Cloud-Based Water Treatment Monitoring Sales Outlook and CAGR Growth By Component, 2024- 2034 (\$ billion)
- 5.6 Global Cloud-Based Water Treatment Monitoring Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC CLOUD-BASED WATER TREATMENT MONITORING INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

- 6.1 Asia Pacific Cloud-Based Water Treatment Monitoring Market Insights, 2025
- 6.2 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast By Service Model, 2024- 2034 (USD billion)
- 6.3 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast By Application, 2024- 2034 (USD billion)
- 6.4 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast By End-User, 2024- 2034 (USD billion)
- 6.5 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast By Deployment Type, 2024- 2034 (USD billion)
- 6.6 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast By Component, 2024- 2034 (USD billion)

6.7 Asia Pacific Cloud-Based Water Treatment Monitoring Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.7.1 China Cloud-Based Water Treatment Monitoring Market Size, Opportunities, Growth 2024- 2034

6.7.2 India Cloud-Based Water Treatment Monitoring Market Size, Opportunities, Growth 2024- 2034

6.7.3 Japan Cloud-Based Water Treatment Monitoring Market Size, Opportunities, Growth 2024- 2034

6.7.4 Australia Cloud-Based Water Treatment Monitoring Market Size, Opportunities, Growth 2024- 2034

7. EUROPE CLOUD-BASED WATER TREATMENT MONITORING MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Cloud-Based Water Treatment Monitoring Market Key Findings, 2025

7.2 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown By Service Model, 2024- 2034 (USD billion)

7.3 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.4 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown By End-User, 2024- 2034 (USD billion)

7.5 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown By Deployment Type, 2024- 2034 (USD billion)

7.6 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown By Component, 2024- 2034 (USD billion)

7.7 Europe Cloud-Based Water Treatment Monitoring Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.7.1 Germany Cloud-Based Water Treatment Monitoring Market Size, Trends, Growth Outlook to 2034

7.7.2 United Kingdom Cloud-Based Water Treatment Monitoring Market Size, Trends, Growth Outlook to 2034

7.7.2 France Cloud-Based Water Treatment Monitoring Market Size, Trends, Growth Outlook to 2034

7.7.2 Italy Cloud-Based Water Treatment Monitoring Market Size, Trends, Growth Outlook to 2034

7.7.2 Spain Cloud-Based Water Treatment Monitoring Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA CLOUD-BASED WATER TREATMENT MONITORING

MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook By Service Model, 2024- 2034 (\$ billion)

8.3 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.4 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook By End-User, 2024- 2034 (\$ billion)

8.5 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook By Deployment Type, 2024- 2034 (\$ billion)

8.6 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook By Component, 2024- 2034 (\$ billion)

8.7 North America Cloud-Based Water Treatment Monitoring Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.7.1 United States Cloud-Based Water Treatment Monitoring Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Canada Cloud-Based Water Treatment Monitoring Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Mexico Cloud-Based Water Treatment Monitoring Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA CLOUD-BASED WATER TREATMENT MONITORING MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Cloud-Based Water Treatment Monitoring Market Data, 2025

9.2 Latin America Cloud-Based Water Treatment Monitoring Market Future By Service Model, 2024- 2034 (\$ billion)

9.3 Latin America Cloud-Based Water Treatment Monitoring Market Future By Application, 2024- 2034 (\$ billion)

9.4 Latin America Cloud-Based Water Treatment Monitoring Market Future By End-User, 2024- 2034 (\$ billion)

9.5 Latin America Cloud-Based Water Treatment Monitoring Market Future By Deployment Type, 2024- 2034 (\$ billion)

9.6 Latin America Cloud-Based Water Treatment Monitoring Market Future By Component, 2024- 2034 (\$ billion)

9.7 Latin America Cloud-Based Water Treatment Monitoring Market Future by Country, 2024- 2034 (\$ billion)

9.7.1 Brazil Cloud-Based Water Treatment Monitoring Market Size, Share and

Opportunities to 2034

9.7.2 Argentina Cloud-Based Water Treatment Monitoring Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA CLOUD-BASED WATER TREATMENT MONITORING MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics By Service Model, 2024- 2034 (USD billion)

10.3 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics By Application, 2024- 2034 (USD billion)

10.4 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics By End-User, 2024- 2034 (USD billion)

10.5 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics By Deployment Type, 2024- 2034 (USD billion)

10.6 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics By Component, 2024- 2034 (USD billion)

10.7 Middle East Africa Cloud-Based Water Treatment Monitoring Market Statistics by Country, 2024- 2034 (USD billion)

10.7.1 Middle East Cloud-Based Water Treatment Monitoring Market Value, Trends, Growth Forecasts to 2034

10.7.2 Africa Cloud-Based Water Treatment Monitoring Market Value, Trends, Growth Forecasts to 2034

11. CLOUD-BASED WATER TREATMENT MONITORING MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in Cloud-Based Water Treatment Monitoring Industry

11.2 Cloud-Based Water Treatment Monitoring Business Overview

11.3 Cloud-Based Water Treatment Monitoring Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global Cloud-Based Water Treatment Monitoring Market Volume (Tons)

12.1 Global Cloud-Based Water Treatment Monitoring Trade and Price Analysis

12.2 Cloud-Based Water Treatment Monitoring Parent Market and Other Relevant

Analysis

12.3 Publisher Expertise

12.2 Cloud-Based Water Treatment Monitoring Industry Report Sources and
MethodologyOGAMV25R0870

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