

IoT in Water Treatment Systems Market Outlook 2026-2034: Market Share, and Growth Analysis By Component (Hardware, Software, Services), By Application (Water Quality Monitoring, Asset Management & Predictive Maintenance, Leakage Detection & Management, Energy Management & Optimization, Chemical Dosing Management, Remote Operation & Control, Sludge Management, Customer Engagement & Billing), By Technology, By End-User, By Treatment Stage

<https://marketpublishers.com/r/I763BB78A7BAEN.html>

Date: November 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: I763BB78A7BAEN

Abstracts

The IoT in Water Treatment Systems Market is valued at USD 2.52 billion in 2025 and is projected to grow at a CAGR of 13.1% to reach USD 7.63 billion by 2034.

IoT in Water Treatment Systems Market

The IoT in water treatment market connects field instruments, smart meters, analyzers, drives, and controllers to edge gateways, cloud platforms, and enterprise systems to optimize drinking water, wastewater, and industrial process treatment. Deployed across plants, networks, and decentralized modules, IoT architectures stream real-time data for quality, flow, energy, and asset health - turning periodic checks into continuous control. Adoption is propelled by water scarcity, stricter discharge/potability standards, aging infrastructure, workforce shortages, and the need to harden operations against climate extremes. Technology roadmaps emphasize low-power sensing, reagent-less optics, multi-parameter sondes, and vibration/thermal analytics for rotating equipment; on the

compute side, edge AI validates signals, detects anomalies, and drives closed-loop dosing, aeration, and filtration controls with millisecond latency. Connectivity blends wired industrial buses with LoRaWAN/NB-IoT/cellular private networks and satellite for remote catchments, while digital twins and simulation guide setpoints and maintenance windows. Integration priorities include secure APIs to SCADA, LIMS, CMMS/EAM, GIS, and AMI, enabling event-triggered sampling, root-cause tracing, and predictive work orders. Buyers evaluate lifecycle economics - calibration drift, antifouling, battery autonomy, firmware management - alongside cybersecurity, interoperability, and audit-ready data provenance. Commercial models are shifting from CapEx to “monitoring/optimization-as-a-service,” with outcome SLAs tied to energy per cubic meter, chemical yield, and compliance uptime. Competitive dynamics span automation OEMs, sensor specialists, telco/satellite providers, and software platforms. As utilities and industrials connect portfolios of plants and networks, the market is moving from point telemetry to orchestrated, cyber-hardened systems that deliver resilient water quality at the lowest achievable cost and carbon intensity.

IoT in Water Treatment Systems Market Key Insights

From visibility to autonomy. Plants are evolving from dashboard monitoring to closed-loop optimization - edge analytics validate data quality, then drive dosing, aeration, and backwash cycles to stabilize effluent and reduce manual interventions.

Asset performance becomes a core use case. Predictive models on pumps, blowers, mixers, and membranes cut unplanned downtime, align maintenance with energy tariffs, and extend asset life with condition-based overhauls and soft-start strategies.

Interoperability beats lock-in. Open protocols and API-first platforms knit legacy SCADA with modern IoT stacks; standardized data models enable cross-site benchmarking and faster rollout of sensors, skids, and packaged systems.

Cybersecurity by design. Network segmentation, certificate-based device identity, signed firmware, and SBOM transparency are now mandatory, with continuous patching and secure remote access built into vendor SLAs.

Energy and chemical optimization drive ROI. Aeration control, variable-speed pumping, real-time coagulant/polymer dosing, and heat recovery orchestration materially reduce OPEX while keeping quality within tight bands.

Field survivability decides lifecycle cost. Antifouling, wipers, flow-cell design, and drift behavior determine visit frequency; device health dashboards and spare-kit logistics protect uptime across harsh water chemistries.

Decentralized and modular growth. Containerized treatment, reuse skids, and rural/community systems rely on remote commissioning, cellular/satellite backhaul, and lightweight HMI - expanding reach beyond large plants.

Data governance and auditability matter. Time-stamped, tamper-evident records with chain-of-custody support permits, ESG disclosures, and incident investigations - turning compliance into a repeatable process.

Workforce enablement is strategic. Mobility apps, digital work instructions, AR support, and twin-driven training offset staffing gaps, raise first-time fix rates, and standardize best practices across multi-site operators.

Outcome-based commercial models scale adoption. Monitoring- and optimization-as-a-service contracts align fees to kWh, chemical consumption, leakage, or compliance uptime, de-risking upgrades for budget-constrained operators.

IoT in Water Treatment Systems Market Regional Analysis

North America

Utilities modernize aging plants and networks with IoT overlays for leak detection, source-to-tap visibility, and resilience to storms and wildfire runoff. Edge-to-cloud architectures integrate with existing SCADA and CMMS, while cybersecurity and incident transparency are procurement gates. Industrial corridors deploy predictive maintenance and real-time dosing to stabilize variable influent. Outcome-based service contracts and private cellular networks gain traction across multi-state portfolios.

Europe

Strict water quality and energy policies accelerate digital optimization of aeration, pumping, and reuse. Utilities emphasize open standards, data sovereignty, and verifiable M&V to access green financing. Leakage reduction, smart pressure

management, and catchment monitoring are prioritized alongside NIS-aligned cybersecurity. Brownfield plants adopt reagent-less analyzers and twin-driven controls to meet tightening discharge and abstraction limits without footprint expansion.

Asia-Pacific

Rapid urbanization and industrial growth drive greenfield digital plants and retrofits in mega-utilities and industrial parks. Cost-sensitive buyers favor modular sensors, local fabrication, and managed services. Governments sponsor smart-city water and non-revenue water programs; hybrid connectivity (cellular/LPWAN/satellite) covers remote basins. Electronics and semiconductor clusters demand tight drift control and high-purity monitoring.

Middle East & Africa

Scarcity and desalination dependence put IoT front-and-center for intake protection, membrane health, and brine management. Harsh environments require ruggedized hardware, solar-ready power, and sand/heat-tolerant enclosures. Large mixed-use developments integrate district cooling/water with cyber-hardened, twin-enabled BMS interfaces. Service depth, rapid spares, and sovereign deployment options are decisive.

South & Central America

Economic cyclicalities favor phased rollouts - priority sensors, pump VSD analytics, and targeted leak programs - expanding to basin-wide monitoring as ROI is proven. Mining, agro-industrial, and hydropower sites adopt solar-satellite stations to cut truck rolls. Local integrators and cloud-hosted analytics reduce IT burden; compliance reporting and drought/flood resilience underpin funding.

IoT in Water Treatment Systems Market Segmentation

By Component

Hardware

Software

Services

By Application

Water Quality Monitoring

Asset Management & Predictive Maintenance

Leakage Detection & Management

Energy Management & Optimization

Chemical Dosing Management

Remote Operation & Control

Sludge Management

Customer Engagement & Billing

By Technology

Connectivity

Cloud Platforms

Digital Twins

AI & Machine Learning

By End-User

Municipal Water & Wastewater Treatment

Industrial Treatment

Power Generation

Oil & Gas

Chemicals & Petrochemicals

Food & Beverage

Pharmaceuticals

Pulp & Paper

Commercial & Residential

By Treatment Stage

Raw Water Intake & Monitoring

Treatment Process Control

Distribution Network Monitoring

Wastewater Collection & Treatment

Effluent Discharge Monitoring

Key Market players

Xylem, Veolia, SUEZ, ABB, Siemens, Schneider Electric, Emerson, Honeywell, Badger Meter, Itron, Hach, Aquatic Informatics, Grundfos, Alfa Laval, Evoqua

IoT in Water Treatment Systems 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.

IoT in Water Treatment Systems 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 — IoT in Water Treatment Systems market data and outlook to 2034

United States

Canada

Mexico

Europe — IoT in Water Treatment Systems market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — IoT in Water Treatment Systems market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — IoT in Water Treatment Systems market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — IoT in Water Treatment Systems 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 IoT in Water Treatment Systems 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 IoT in Water Treatment Systems 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 IoT in Water Treatment Systems Market Report

Global IoT in Water Treatment Systems market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on IoT in Water Treatment Systems trade, costs, and supply chains

IoT in Water Treatment Systems market size, share, and outlook across 5 regions and 27 countries, 2023-2034

IoT in Water Treatment Systems market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term IoT in Water Treatment Systems market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and IoT in Water Treatment Systems supply chain analysis

IoT in Water Treatment Systems trade analysis, IoT in Water Treatment Systems market price analysis, and IoT in Water Treatment Systems supply/demand dynamics

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

Latest IoT in Water Treatment Systems 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 IOT IN WATER TREATMENT SYSTEMS MARKET SUMMARY, 2025

- 2.1 IoT in Water Treatment Systems Industry Overview
 - 2.1.1 Global IoT in Water Treatment Systems Market Revenues (In US\$ billion)
- 2.2 IoT in Water Treatment Systems Market Scope
- 2.3 Research Methodology

3. IOT IN WATER TREATMENT SYSTEMS MARKET INSIGHTS, 2024-2034

- 3.1 IoT in Water Treatment Systems Market Drivers
- 3.2 IoT in Water Treatment Systems Market Restraints
- 3.3 IoT in Water Treatment Systems Market Opportunities
- 3.4 IoT in Water Treatment Systems Market Challenges
- 3.5 Tariff Impact on Global IoT in Water Treatment Systems Supply Chain Patterns

4. IOT IN WATER TREATMENT SYSTEMS MARKET ANALYTICS

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

4.5.6 IoT in Water Treatment Systems Market Entry Intelligence

5. GLOBAL IOT IN WATER TREATMENT SYSTEMS MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

5.1 World IoT in Water Treatment Systems Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global IoT in Water Treatment Systems Sales Outlook and CAGR Growth By Component, 2024- 2034 (\$ billion)

5.2 Global IoT in Water Treatment Systems Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)

5.3 Global IoT in Water Treatment Systems Sales Outlook and CAGR Growth By Technology, 2024- 2034 (\$ billion)

5.4 Global IoT in Water Treatment Systems Sales Outlook and CAGR Growth By End-User, 2024- 2034 (\$ billion)

5.5 Global IoT in Water Treatment Systems Sales Outlook and CAGR Growth By Treatment Stage, 2024- 2034 (\$ billion)

5.6 Global IoT in Water Treatment Systems Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC IOT IN WATER TREATMENT SYSTEMS INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

6.1 Asia Pacific IoT in Water Treatment Systems Market Insights, 2025

6.2 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast By Component, 2024- 2034 (USD billion)

6.3 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast By Application, 2024- 2034 (USD billion)

6.4 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast By Technology, 2024- 2034 (USD billion)

6.5 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast By End-User, 2024- 2034 (USD billion)

6.6 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast By Treatment Stage, 2024- 2034 (USD billion)

6.7 Asia Pacific IoT in Water Treatment Systems Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.7.1 China IoT in Water Treatment Systems Market Size, Opportunities, Growth 2024- 2034

6.7.2 India IoT in Water Treatment Systems Market Size, Opportunities, Growth 2024-2034

6.7.3 Japan IoT in Water Treatment Systems Market Size, Opportunities, Growth 2024- 2034

6.7.4 Australia IoT in Water Treatment Systems Market Size, Opportunities, Growth 2024- 2034

7. EUROPE IOT IN WATER TREATMENT SYSTEMS MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe IoT in Water Treatment Systems Market Key Findings, 2025

7.2 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown By Component, 2024- 2034 (USD billion)

7.3 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.4 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown By Technology, 2024- 2034 (USD billion)

7.5 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown By End-User, 2024- 2034 (USD billion)

7.6 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown By Treatment Stage, 2024- 2034 (USD billion)

7.7 Europe IoT in Water Treatment Systems Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.7.1 Germany IoT in Water Treatment Systems Market Size, Trends, Growth Outlook to 2034

7.7.2 United Kingdom IoT in Water Treatment Systems Market Size, Trends, Growth Outlook to 2034

7.7.2 France IoT in Water Treatment Systems Market Size, Trends, Growth Outlook to 2034

7.7.2 Italy IoT in Water Treatment Systems Market Size, Trends, Growth Outlook to 2034

7.7.2 Spain IoT in Water Treatment Systems Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA IOT IN WATER TREATMENT SYSTEMS MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America IoT in Water Treatment Systems Market Analysis and Outlook By

Component, 2024- 2034 (\$ billion)

8.3 North America IoT in Water Treatment Systems Market Analysis and Outlook By Application, 2024- 2034 (\$ billion)

8.4 North America IoT in Water Treatment Systems Market Analysis and Outlook By Technology, 2024- 2034 (\$ billion)

8.5 North America IoT in Water Treatment Systems Market Analysis and Outlook By End-User, 2024- 2034 (\$ billion)

8.6 North America IoT in Water Treatment Systems Market Analysis and Outlook By Treatment Stage, 2024- 2034 (\$ billion)

8.7 North America IoT in Water Treatment Systems Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.7.1 United States IoT in Water Treatment Systems Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Canada IoT in Water Treatment Systems Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.7.1 Mexico IoT in Water Treatment Systems Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA IOT IN WATER TREATMENT SYSTEMS MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America IoT in Water Treatment Systems Market Data, 2025

9.2 Latin America IoT in Water Treatment Systems Market Future By Component, 2024- 2034 (\$ billion)

9.3 Latin America IoT in Water Treatment Systems Market Future By Application, 2024- 2034 (\$ billion)

9.4 Latin America IoT in Water Treatment Systems Market Future By Technology, 2024- 2034 (\$ billion)

9.5 Latin America IoT in Water Treatment Systems Market Future By End-User, 2024- 2034 (\$ billion)

9.6 Latin America IoT in Water Treatment Systems Market Future By Treatment Stage, 2024- 2034 (\$ billion)

9.7 Latin America IoT in Water Treatment Systems Market Future by Country, 2024- 2034 (\$ billion)

9.7.1 Brazil IoT in Water Treatment Systems Market Size, Share and Opportunities to 2034

9.7.2 Argentina IoT in Water Treatment Systems Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA IOT IN WATER TREATMENT SYSTEMS MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa IoT in Water Treatment Systems Market Statistics By Component, 2024- 2034 (USD billion)

10.3 Middle East Africa IoT in Water Treatment Systems Market Statistics By Application, 2024- 2034 (USD billion)

10.4 Middle East Africa IoT in Water Treatment Systems Market Statistics By Technology, 2024- 2034 (USD billion)

10.5 Middle East Africa IoT in Water Treatment Systems Market Statistics By End-User, 2024- 2034 (USD billion)

10.6 Middle East Africa IoT in Water Treatment Systems Market Statistics By Treatment Stage, 2024- 2034 (USD billion)

10.7 Middle East Africa IoT in Water Treatment Systems Market Statistics by Country, 2024- 2034 (USD billion)

10.7.1 Middle East IoT in Water Treatment Systems Market Value, Trends, Growth Forecasts to 2034

10.7.2 Africa IoT in Water Treatment Systems Market Value, Trends, Growth Forecasts to 2034

11. IOT IN WATER TREATMENT SYSTEMS MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

11.1 Key Companies in IoT in Water Treatment Systems Industry

11.2 IoT in Water Treatment Systems Business Overview

11.3 IoT in Water Treatment Systems Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

12 APPENDIX

12.1 Global IoT in Water Treatment Systems Market Volume (Tons)

12.1 Global IoT in Water Treatment Systems Trade and Price Analysis

12.2 IoT in Water Treatment Systems Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 IoT in Water Treatment Systems Industry Report Sources and MethodologyOGAMV25R0222

I would like to order

Product name: IoT in Water Treatment Systems Market Outlook 2026-2034: Market Share, and Growth Analysis By Component (Hardware, Software, Services), By Application (Water Quality Monitoring, Asset Management & Predictive Maintenance, Leakage Detection & Management, Energy Management & Optimization, Chemical Dosing Management, Remote Operation & Control, Sludge Management, Customer Engagement & Billing), By Technology, By End-User, By Treatment Stage

Product link: <https://marketpublishers.com/r/I763BB78A7BAEN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I763BB78A7BAEN.html>