

United States Smart Water Grid Market is expected to reach US\$ 49.15 billion by 2032 | DataM Intelligence

The Global Smart Water Grid Market is expected to reach at a CAGR of 6.63% during the forecast period 2025-2032.

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Overview of the Market:

The Global [Smart Water Grid Market](#) is witnessing rapid transformation, driven by the growing adoption of advanced monitoring systems, IoT-enabled infrastructure, and data analytics in the water management

sector. According to DataM Intelligence, The Market size was valued at US\$ 29.41 billion in 2024 and is projected to reach US\$ 49.15 billion by 2032, growing at a CAGR of 6.63% during the forecast period (2025–2032). The rising pressure on water utilities to minimize losses, improve distribution efficiency, and ensure sustainable water usage is a major driver behind the market's

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The Smart Water Grid Market is transforming water management through IoT, real-time monitoring, and data analytics, enhancing efficiency, sustainability, and leak detection.”

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expansion. Governments and municipalities are increasingly investing in digital water infrastructure to address water scarcity and aging pipeline challenges.

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The Distribution network monitoring segment leads the market due to its essential role in real-time leakage detection, pressure management, and predictive maintenance. Geographically, North America dominates

the global market, fueled by large-scale smart city projects, strong regulatory frameworks, and the adoption of digital technologies by major utilities in the United States and Canada.



Key Highlights from the Report:

The Global Smart Water Grid Market is expected to grow at a CAGR of 6.63% from 2025 to 2032. IoT, AI, and cloud-based data management are key technological enablers of smart water networks.

Distribution network monitoring remains the largest revenue-generating segment.

North America leads the market, while Asia-Pacific is the fastest-growing region due to rapid urbanization.

Increasing investments in smart city infrastructure are fueling demand for smart water solutions.

Major players are focusing on mergers, partnerships, and technological innovation to strengthen their portfolios.

Market Segmentation:

The Smart Water Grid Market is segmented based on component, technology, application, and end-user.

By component, the market includes hardware, software, and services. The software segment is expanding rapidly as utilities shift toward data-driven decision-making tools and real-time analytics. Software platforms integrate various sensors, meters, and valves to optimize operations and detect inefficiencies in water distribution.

Based on technology, the market covers supervisory control and data acquisition (SCADA), advanced metering infrastructure (AMI), geographic information systems (GIS), and communication networks. The AMI segment dominates this category, allowing utilities to track consumption patterns and improve billing accuracy while promoting consumer awareness of water usage.

By application, smart water grids are used for water distribution management, wastewater monitoring, leak detection, and pressure management. Leak detection systems are gaining traction due to their ability to reduce non-revenue water losses, which account for a significant share of water utility losses globally.

In terms of end-users, the market serves residential, commercial, and industrial sectors. The industrial segment is expected to exhibit substantial growth due to increasing emphasis on sustainable operations, wastewater recycling, and environmental compliance.

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Regional Insights:

North America

North America dominates the Smart Water Grid Market, supported by well-established infrastructure, stringent water management regulations, and government funding for digital utilities. The U.S. Environmental Protection Agency (EPA) has initiated several programs to modernize water systems through smart sensors and data analytics, creating a favorable market environment.

Europe

Europe follows closely, with strong initiatives under the European Green Deal emphasizing sustainable water management and smart infrastructure deployment. Countries like Germany, the Netherlands, and the U.K. are leading the adoption of advanced metering infrastructure and predictive maintenance solutions.

Asia-Pacific

The Asia-Pacific region is expected to register the fastest growth, driven by urbanization, industrial expansion, and government investments in smart cities across China, India, and Japan. The increasing focus on water conservation and flood management has accelerated the implementation of IoT-based smart water systems.

Middle East & Africa

In the Middle East and Africa, water scarcity and growing population pressures are prompting utilities to adopt smart grid technologies. Countries such as Saudi Arabia and the UAE are investing heavily in desalination plants integrated with smart monitoring systems to enhance water efficiency.

Market Dynamics

Market Drivers

The increasing global demand for efficient water management systems and the growing scarcity of freshwater resources are key factors driving market growth. Governments worldwide are prioritizing investments in smart water infrastructure to minimize losses and enhance operational efficiency. The integration of IoT, cloud computing, and AI has made it possible to monitor real-time water quality, flow rates, and pressure, resulting in proactive maintenance and cost savings for utilities.

Market Restraints

Despite the positive outlook, the high initial investment cost associated with smart water grid infrastructure remains a major restraint, particularly in developing economies. Limited technical expertise and data security concerns also pose challenges to widespread adoption. Additionally, the complexity of integrating legacy systems with advanced digital networks can delay implementation timelines.

Market Opportunities

Rising adoption of digital twin technology, predictive analytics, and AI-based modeling offers lucrative opportunities for market expansion. The growing emphasis on sustainable development goals (SDGs) and government-funded smart city projects will further accelerate the adoption of smart water solutions. Partnerships between public utilities and technology providers are expected to unlock new opportunities for innovation and scalability in the coming years.

Frequently Asked Questions (FAQs)

How Big is the Smart Water Grid Market in 2024?

What is the Projected Growth Rate of the Global Smart Water Grid Market?

Which Region is Expected to Lead the Smart Water Grid Industry by 2032?

Who are the Key Players in the Smart Water Grid Market?

What are the Major Growth Drivers for the Smart Water Grid Market?

Company Insights:

Key players operating in the Smart Water Grid Market include:

IBM Corporation

Siemens AG

Xylem Inc.

Schneider Electric SE

Honeywell International Inc.

ABB Group

Itron Inc.

Badger Meter, Inc.

Aclara Technologies LLC

Trimble Inc.

Recent Developments:

United States:

In September 2025, Xylem Inc. launched a next-generation smart water grid platform integrating IoT sensors, AI analytics, and predictive maintenance for municipal water systems.

In August 2025, Sensus (a Xylem company) completed the acquisition of Aquatic Analytics, expanding its capabilities in real-time water monitoring, leak detection, and automated flow management.

Japan:

In September 2025, Hitachi, Ltd. introduced a smart water grid solution for urban municipalities,

integrating AI-powered monitoring, predictive maintenance, and IoT-enabled infrastructure management.

The Japan Smart Water Product Market is seeing accelerated adoption of smart water meters, leak detection systems integrated with IoT platforms and smart sensors with predictive maintenance technologies in municipal water infrastructure, driving robust growth in 2025.

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Conclusion:

The Smart Water Grid Market is at the forefront of transforming global water management through the integration of digital technologies, data analytics, and automation. With increasing emphasis on sustainability and efficient water use, the demand for intelligent, interconnected water networks will continue to rise. While challenges such as high implementation costs and data privacy concerns persist, the long-term benefits of improved water conservation, operational transparency, and cost efficiency are driving strong adoption across the world. As utilities and governments intensify their focus on smart infrastructure, the market is set to witness remarkable growth, shaping a sustainable and digitally connected water future.

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