

# **Sustainable Water Technology Market Forecasts to 2032 – Global Analysis By Component (Equipment, Software & Monitoring Systems, and Services), Technology Type, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Sustainable Water Technology Market is accounted for \$383.57 billion in 2025 and is expected to reach \$701.18 billion by 2032 growing at a CAGR of 9.0% during the forecast period. Sustainable Water Technology encompasses advanced solutions that enhance water management, purification, and conservation while reducing ecological harm. It focuses on recycling water, cutting wastage, and maintaining high-quality standards using modern treatment, desalination, and monitoring systems. By leveraging renewable energy and smart innovations, these technologies secure reliable water access, protect natural habitats, and help meet sustainability objectives. They play a vital role in addressing global water scarcity and environmental pressures caused by increasing consumption and climate change.

### **Market Dynamics:**

Driver:

Global water scarcity and stress

Climate change, population growth, and industrial expansion are placing unprecedented pressure on global water resources. Governments and utilities are investing in advanced treatment, recycling, and desalination systems to address long-term water stress. The rise of water reuse mandates and zero-liquid discharge policies is accelerating technology adoption. Smart water infrastructure is gaining traction to

optimize distribution and reduce losses. As water becomes a strategic resource, demand for resilient and efficient solutions is surging worldwide.

#### Restraint:

##### Lack of awareness and skilled labor

Many regions lack trained professionals to operate and maintain advanced water systems. Educational gaps and insufficient vocational training programs slow the deployment of smart technologies. Small-scale utilities and rural communities struggle to adopt innovations due to resource constraints. The complexity of integrating IoT and AI into legacy infrastructure adds to the challenge. Without targeted awareness campaigns and workforce development, market growth may remain uneven.

#### Opportunity:

##### Digital twin and predictive analytics

Predictive analytics are helping utilities anticipate failures, reduce downtime, and improve asset performance. These tools support proactive maintenance and efficient resource allocation, lowering operational costs. Cloud-based platforms are facilitating remote monitoring and decision-making across decentralized networks. As data-driven governance gains momentum, regulatory bodies are encouraging digital adoption. The convergence of AI, sensors, and modeling is unlocking new frontiers in water efficiency and resilience.

#### Threat:

##### Competition from cheaper, less sustainable alternatives

Many stakeholders prioritize upfront affordability over long-term environmental impact. In price-sensitive markets, outdated systems and chemical-intensive treatments remain prevalent. The lack of standardized sustainability metrics makes it difficult to compare alternatives objectively. Some vendors undercut eco-friendly solutions by offering short-term savings with hidden lifecycle costs. Without stronger policy incentives and procurement reforms, sustainable technologies risk being sidelined by cheaper incumbents.

#### Covid-19 Impact:

The pandemic disrupted water infrastructure projects and delayed technology deployments due to supply chain constraints. Lockdowns and labor shortages affected installation timelines and maintenance schedules. However, the crisis accelerated interest in contactless monitoring, remote diagnostics, and decentralized water systems. Utilities began investing in automation and digital platforms to enhance operational continuity. Post-Covid strategies now emphasize resilience, redundancy, and smart infrastructure to future-proof water systems.

The equipment segment is expected to be the largest during the forecast period

The equipment segment is expected to account for the largest market share during the forecast period, due to its foundational role in water treatment, filtration, and distribution. Technologies such as membrane systems, UV disinfection units, and smart meters are widely deployed across municipal and industrial settings. Continuous innovation in energy-efficient pumps and modular treatment units is driving adoption. Equipment upgrades are essential for meeting evolving regulatory standards and sustainability goals. The segment benefits from recurring demand for replacements and retrofits.

The commercial & residential segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the commercial & residential segment is predicted to witness the highest growth rate, driven by rising consumer awareness and urbanization. Smart home water systems, greywater recycling, and point-of-use filtration are gaining popularity. Builders and developers are integrating water-saving technologies into green building designs. Regulatory mandates for water efficiency in buildings are boosting product uptake. The shift toward decentralized water management is empowering households and small businesses.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, supported by large-scale infrastructure investments and water stress mitigation efforts. Countries like China, India, and Indonesia are deploying advanced water technologies to meet growing demand. Government programs are promoting local manufacturing and technology transfer to boost self-reliance. Rapid urbanization and industrialization are driving the need for efficient water treatment and reuse systems. Regional collaboration and public-private partnerships are accelerating innovation.

### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fueled by strong R&D activity and regulatory support. The U.S. and Canada are leading in smart water grids, AI-powered leak detection, and digital twins. Federal and state agencies are streamlining approvals and offering incentives for sustainable technologies. Utilities are adopting predictive analytics and IoT to enhance system performance and customer engagement. The region's emphasis on climate resilience and infrastructure renewal is driving market momentum.

### Key players in the market

Some of the key players in Sustainable Water Technology Market include Veolia, Metito, SUEZ, Doosan, Xylem, Thermax, Ecolab, Acciona, Pentair, Kurita Wat, DuPont, Grundfos, Evoqua W, IDE Techn, and Aquatech.

### Key Developments:

In October 2025, DuPont's Electronics business announced the signing of a Memorandum of Understanding (MOU) with SK hynix, establishing a strategic long-term agreement for the supply of polishing pads for chemical mechanical planarization (CMP) in semiconductor fabrication.

In July 2023, IDE has partnered with Ridgewood Infrastructure (RI) to create this unique project in which IDE and RI will fund 25% of the project costs and own the risk of construction and the long-term risk of operation and maintenance of the project.

### Components Covered:

Equipment

Software & Monitoring Systems

Services

### Technology Types Covered:

Water Treatment Technologies

Water Recycling & Reuse Technologies

Desalination Technologies

Digital & Smart Water Solutions

Rainwater Harvesting & Stormwater Systems

Sustainable Infrastructure Technologies

Applications Covered:

Municipal Water & Wastewater Treatment

Industrial Water Management

Agricultural Irrigation & Water Efficiency

Residential & Commercial Water Systems

Energy & Power Sector Water Solutions

End Users Covered:

Food & Beverage

Pharmaceuticals & Healthcare

Chemicals & Petrochemicals

Power Generation

Manufacturing & Metals

Agriculture

Municipal Utilities

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends

- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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