

# Decentralized Water Treatment Market Trends and Competitive Landscape 2025-2032 | DataM Intelligence

The Global Decentralized Water Treatment Market was valued at US\$ 23.08 billion in 2024 and is projected to reach US\$ 67.33 billion by 2032

AUSTIN, TX, UNITED STATES, May 21, 2025 /EINPresswire.com/ --Decentralized Water Treatment Market: An Emerging Driver of Sustainable Water Solutions

As water scarcity and contamination challenges grow across the globe, decentralized water treatment (DWT) systems are gaining traction for their



ability to treat water at or near the point of use. These systems offer modularity, lower costs, and faster deployment compared to traditional centralized systems. Industries, municipalities, and rural communities alike are increasingly turning to these systems for both wastewater treatment and potable water applications.

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In the U.S. rising demand for resilient and off-grid water systems is driving Decentralized Water Treatment Market adoption, fueling strong market expansion through 2032" DataM Intelligence Market Value and Growth Outlook

The Decentralized Water Treatment Market Size is currently Valued US\$ 23.08 billion in 2024 and is expected to reach US\$ 67.33 billion till 2032, growing with a CAGR of 14.32% during the forecast period 2025-2032. This growth is driven by factors such as increasing urbanization, stricter water quality regulations, and a rising focus on sustainable and resilient infrastructure.

One of the key differentiators of DWT systems is their flexibility. Whether it's a small community in a remote area or a new industrial plant, these systems can be scaled up or down with ease,

avoiding the massive capital investments required for centralized infrastructure. Their adoption is particularly evident in developing nations, but high-income countries are also increasingly investing in smart, decentralized solutions to modernize aging water infrastructure.

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**Regional Outlook** 

### North America

North America remains a mature yet rapidly innovating region for decentralized water treatment. The U.S., in particular, is seeing a shift toward localized water reuse systems in both commercial buildings and residential developments. Climate-driven concerns such as droughts in California and Arizona have accelerated the implementation of water recycling at the neighborhood or building scale.

#### Europe

In Europe, nations like Germany, France, and the Netherlands are incorporating decentralized systems into circular economy initiatives. Water reuse and treatment at the community level are being encouraged through incentives and strict environmental standards, especially in agriculture and food processing industries.

#### Asia-Pacific

Asia-Pacific is emerging as the fastest-growing region in this market. Rapid urbanization, combined with inadequate access to clean water and sanitation, particularly in India, China, and Southeast Asia, is driving heavy investments into DWT technologies. The demand is high for compact, energy-efficient units that can operate in diverse and remote environments.

# Latin America and Middle East & Africa

In Latin America and Africa, decentralized water systems are playing a pivotal role in ensuring clean water access in rural and underserved regions. International organizations and public-private partnerships are playing an essential role in financing and deploying these systems where infrastructure is lacking.

Major Companies in the Market Several companies are spearheading innovation in the decentralized water treatment space:

Fluence Corporation Veolia Environnement S.A. Suez S.A. Xylem Inc. Ecolab Inc. A.O. Smith Corporation Pentair plc Aquatech International LLC BioMicrobics Inc. Organica Water Inc.

Market Segmentation:

By Technology: Reverse Osmosis, Ultrafiltration, UV Disinfection, Chlorination, Membrane Bioreactors, Others

By System Type: On-site Treatment Systems, Cluster Systems, Mobile/Containerized Systems

By Water Source: Groundwater, Surface Water, Seawater, Wastewater Reuse

By Application: Residential, Commercial, Industrial, Agricultural, Others

By End-User: Households, Resorts & Hotels, Healthcare Institutions, Government & NGOs, Others

#### Latest News – USA

In 2025, several cities in the U.S. have taken bold steps toward water resilience using decentralized water systems. Notably, Austin, Texas, announced the launch of a city-wide initiative encouraging commercial and residential buildings to adopt on-site water reuse systems, including greywater recycling and stormwater harvesting.

Meanwhile, Silicon Valley tech campuses are increasingly relying on their own decentralized systems to handle water treatment, reducing pressure on municipal facilities and showcasing sustainability leadership. Additionally, the U.S. Environmental Protection Agency (EPA) is expected to introduce updated water reuse guidelines this year, which will likely further encourage adoption across multiple sectors.

#### Latest News – Japan

Japan, a country known for its technological leadership and stringent environmental norms, has recently unveiled a national program focused on decentralized wastewater treatment in disasterprone areas. Following the lessons learned from past natural disasters, the Japanese Ministry of Land, Infrastructure, Transport and Tourism (MLIT) launched a campaign in early 2025 promoting mobile, off-grid water treatment systems designed to provide safe water access in emergency situations.

Japanese manufacturers are also working on ultra-compact treatment systems with Al-powered sensors. Cities such as Kobe and Fukuoka are testing advanced decentralized water treatment systems in public facilities and train stations to build smart, self-operating water infrastructure.

#### Key Developments of 2025

#### 1. Smart Integration with IoT:

Companies are increasingly embedding IoT-based remote monitoring and automation features into decentralized units, enabling predictive maintenance, data-driven optimization, and real-time compliance tracking.

#### 2. Shift to Modular & Portable Systems:

Demand is surging for plug-and-play containerized systems, especially in mining, oil & gas, and emergency response sectors. 2025 has seen a 30% rise in mobile unit sales compared to 2024.

#### 3. Public-Private Partnerships (PPPs):

Governments are partnering with private firms to co-fund decentralized water solutions, especially for rural development and sustainable tourism zones.

#### 4. Energy-Efficient Technologies:

New innovations in membrane filtration, solar-powered operation, and low-energy desalination are helping bring down operational costs and carbon footprints, making these systems more attractive to environmentally-conscious buyers.

#### 5. Expansion in Construction & Real Estate:

Green building certifications like LEED and WELL now actively encourage the integration of onsite water recycling systems. As of Q1 2025, over 15% of new commercial buildings in the U.S. are installing decentralized treatment units.

#### Conclusion

The decentralized water treatment market is undergoing a transformation, evolving from a niche segment to a core strategy in achieving water sustainability, resilience, and inclusivity. Whether it's combating climate change impacts in the U.S., preparing for disasters in Japan, or addressing water scarcity in emerging regions, decentralized systems are providing the adaptability and efficiency needed for today's water challenges.

With evolving technology, supportive regulations, and growing environmental awareness, 2025 stands as a turning point for the DWT industry ushering in a future where clean water is both accessible and sustainable for all.

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