

# **Water Reclamation and Circular Water Systems Market Forecasts to 2032 – Global Analysis By System Type (Centralized Systems, Decentralized Systems, Hybrid Systems), Water Source, Technology, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Water Reclamation and Circular Water Systems Market is accounted for \$25.0 billion in 2025 and is expected to reach \$51.9 billion by 2032 growing at a CAGR of 11.0% during the forecast period. Water reclamation and circular water systems refer to sustainable approaches that recover, treat, and reuse wastewater to minimize freshwater consumption and environmental impact. These systems integrate advanced filtration, biological treatment, and recycling technologies to convert used water into safe, usable resources for industrial, agricultural, or domestic applications. Circular water systems emphasize closed-loop cycles, reducing waste and promoting efficient water management. By optimizing water use and reducing reliance on traditional sources, they support climate resilience, resource conservation, and long-term ecological balance. These solutions are vital for urban sustainability, especially in water-stressed regions facing population growth and increasing demand.

Market Dynamics:

Driver:

Rising Water Scarcity

Rising global water scarcity is a key driver for the water reclamation and circular water systems market. With freshwater sources under pressure due to climate change,

population growth, and industrial demand, reclaimed water offers a sustainable alternative. These systems help reduce dependency on traditional supplies by recycling wastewater for reuse in agriculture, industry, and urban settings. Governments and organizations are increasingly investing in circular water infrastructure to ensure long-term water security and environmental resilience, thus it drives the growth of the market.

Restraint:

#### High Installation and Maintenance Costs

High installation and maintenance costs pose a significant restraint to market growth. Advanced treatment technologies, infrastructure upgrades, and integration with existing systems require substantial capital investment. For many municipalities and industries, especially in developing regions, these costs can be prohibitive. Ongoing maintenance, skilled labor, and operational expenses further add to the financial burden. Without adequate funding or incentives, adoption of circular water systems may be delayed, limiting their potential to address water scarcity challenges.

Opportunity:

#### Technological Advancements

Technological advancements present a major opportunity for the water reclamation and circular water systems market. Innovations in membrane filtration, biological treatment, and digital monitoring are improving efficiency, scalability, and cost-effectiveness. Smart sensors and AI-driven analytics enable real-time water quality tracking and system optimization. These breakthroughs are making reclaimed water safer and more accessible for diverse applications. As technology continues to evolve, it will unlock new possibilities for sustainable water management across sectors and regions.

Threat:

#### Complex Regulatory Compliance

Complex regulatory compliance poses a significant threat to the water reclamation and circular water systems market. Diverse water quality standards, fragmented permitting processes, and inconsistent enforcement across regions create uncertainty for developers and investors. These challenges delay project approvals, increase operational costs, and discourage innovation. Without harmonized policies and

streamlined frameworks, scaling circular water systems becomes difficult, especially in cross-border or multi-jurisdictional projects.

#### Covid-19 Impact:

The COVID-19 pandemic disrupted supply chains and delayed infrastructure projects, impacting the water reclamation market. However, it also underscored the importance of resilient and sustainable water systems. Increased hygiene awareness and demand for reliable water access accelerated interest in decentralized and circular solutions. Governments and industries began prioritizing water security in recovery plans, leading to renewed investments in advanced treatment technologies. The pandemic ultimately reinforced the value of circular water systems in public health and sustainability.

The agricultural irrigation segment is expected to be the largest during the forecast period

The agricultural irrigation segment is expected to account for the largest market share during the forecast period due to agriculture's high water consumption and growing need for sustainable practices. Reclaimed water offers a reliable, cost-effective alternative to freshwater for crop irrigation, especially in arid and drought-prone regions. Governments and farmers are increasingly adopting circular water systems to improve water efficiency and reduce environmental impact. As climate change intensifies and food demand rises, the use of treated wastewater in agriculture will continue to expand, securing its leading market position.

The biological treatment segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the biological treatment segment is predicted to witness the highest growth rate owing to its effectiveness in removing organic pollutants and nutrients from wastewater. Technologies such as activated sludge, membrane bioreactors, and anaerobic digestion are gaining popularity for their environmental benefits and scalability. These systems are adaptable across industrial, municipal, and agricultural applications, offering cost-efficient and sustainable solutions. As demand for high-quality reclaimed water increases, biological treatment methods will play a crucial role in expanding circular water systems and driving market growth.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share because of its vast population, rapid urbanization, and growing water stress. Countries like China, India, and Southeast Asian nations are investing heavily in water reclamation infrastructure to support agriculture, industry, and urban development. Government initiatives promoting sustainable water use and technological innovation are accelerating adoption. With increasing demand for reliable water sources and environmental protection, Asia Pacific is positioned as a dominant force in the circular water systems market.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR due to advanced technology adoption, strong regulatory support, and rising environmental awareness. The U.S. and Canada are investing in smart water infrastructure and decentralized treatment systems to modernize aging networks and address climate challenges. Demand for sustainable water solutions in agriculture, industry, and urban areas is driving innovation and expansion. Supportive policies, private sector involvement, and a focus on water resilience position North America as a key growth engine in the market.

#### Key players in the market

Some of the key players in Water Reclamation and Circular Water Systems Market include Veolia, SUEZ, Xylem, Ecolab, Kurita Water Industries, Aquatech International, Evoqua Water Technologies, Pentair, Grundfos, Doosan Heavy Industries & Construction, DuPont de Nemours, Fluence Corporation, Jacobs Engineering Group, Alfa Laval, SPX Flow.

#### Key Developments:

In September 2025, Coromandel International has partnered with Veolia Water Technologies to expand their seawater desalination facility from 6 MLD to 9 MLD under a Build-Own-Operate model, targeting to meet 60-70 % of its Vizag plant's water needs and boost water resilience.

In May 2025, Ingenium Group and Veolia North America have formed a partnership to expand industrial hazardous waste treatment capacity, jointly investing in infrastructure to meet escalating regulatory demands and support industrial growth across North America.

**System Types Covered:**

Centralized Systems

Decentralized Systems

Hybrid Systems

**Water Sources Covered:**

Greywater

Blackwater

Stormwater

Industrial Effluents

**Technologies Covered:**

Membrane Filtration

Biological Treatment

Chemical Treatment

Advanced Oxidation Process

IoT and Smart Monitoring Systems

**Applications Covered:**

Industrial Wastewater Reuse

Municipal Water Reclamation

Agricultural Irrigation

Groundwater Recharge

Urban Landscaping and Cooling

End Users Covered:

Municipal Authorities

Industrial Facilities

Commercial Complexes

Residential Communities

Agricultural Enterprises

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 2022, 2023, 2024, 2026, and 2030
- 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

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET, BY SYSTEM TYPE**

- 5.1 Introduction
- 5.2 Centralized Systems
- 5.3 Decentralized Systems
- 5.4 Hybrid Systems

## **6 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET, BY WATER SOURCE**

- 6.1 Introduction
- 6.2 Greywater
- 6.3 Blackwater
- 6.4 Stormwater
- 6.5 Industrial Effluents

## **7 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET, BY TECHNOLOGY**

- 7.1 Introduction
- 7.2 Membrane Filtration
- 7.3 Biological Treatment
- 7.4 Chemical Treatment
- 7.5 Advanced Oxidation Proces
- 7.6 IoT and Smart Monitoring Systems

## **8 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET, BY APPLICATION**

- 8.1 Introduction
- 8.2 Industrial Wastewater Reuse
- 8.3 Municipal Water Reclamation
- 8.4 Agricultural Irrigation
- 8.5 Groundwater Recharge
- 8.6 Urban Landscaping and Cooling

## **9 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET,**

## **BY END USER**

- 9.1 Introduction
- 9.2 Municipal Authorities
- 9.3 Industrial Facilities
- 9.4 Commercial Complexes
- 9.5 Residential Communities
- 9.6 Agricultural Enterprises

## **10 GLOBAL WATER RECLAMATION AND CIRCULAR WATER SYSTEMS MARKET, BY GEOGRAPHY**

- 10.1 Introduction
- 10.2 North America
  - 10.2.1 US
  - 10.2.2 Canada
  - 10.2.3 Mexico
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 UK
  - 10.3.3 Italy
  - 10.3.4 France
  - 10.3.5 Spain
  - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
  - 10.4.1 Japan
  - 10.4.2 China
  - 10.4.3 India
  - 10.4.4 Australia
  - 10.4.5 New Zealand
  - 10.4.6 South Korea
  - 10.4.7 Rest of Asia Pacific
- 10.5 South America
  - 10.5.1 Argentina
  - 10.5.2 Brazil
  - 10.5.3 Chile
  - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia

- 10.6.2 UAE
- 10.6.3 Qatar
- 10.6.4 South Africa
- 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

## **12 COMPANY PROFILING**

- 12.1 Veolia
- 12.2 SUEZ
- 12.3 Xylem
- 12.4 Ecolab
- 12.5 Kurita Water Industries
- 12.6 Aquatech International
- 12.7 Evoqua Water Technologies
- 12.8 Pentair
- 12.9 Grundfos
- 12.10 Doosan Heavy Industries & Construction
- 12.11 DuPont de Nemours
- 12.12 Fluence Corporation
- 12.13 Jacobs Engineering Group
- 12.14 Alfa Laval
- 12.15 SPX Flow

## List Of Tables

### LIST OF TABLES

Table 1 Global Water Reclamation and Circular Water Systems Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Water Reclamation and Circular Water Systems Market Outlook, By System Type (2024-2032) (\$MN)

Table 3 Global Water Reclamation and Circular Water Systems Market Outlook, By Centralized Systems (2024-2032) (\$MN)

Table 4 Global Water Reclamation and Circular Water Systems Market Outlook, By Decentralized Systems (2024-2032) (\$MN)

Table 5 Global Water Reclamation and Circular Water Systems Market Outlook, By Hybrid Systems (2024-2032) (\$MN)

Table 6 Global Water Reclamation and Circular Water Systems Market Outlook, By Water Source (2024-2032) (\$MN)

Table 7 Global Water Reclamation and Circular Water Systems Market Outlook, By Greywater (2024-2032) (\$MN)

Table 8 Global Water Reclamation and Circular Water Systems Market Outlook, By Blackwater (2024-2032) (\$MN)

Table 9 Global Water Reclamation and Circular Water Systems Market Outlook, By Stormwater (2024-2032) (\$MN)

Table 10 Global Water Reclamation and Circular Water Systems Market Outlook, By Industrial Effluents (2024-2032) (\$MN)

Table 11 Global Water Reclamation and Circular Water Systems Market Outlook, By Technology (2024-2032) (\$MN)

Table 12 Global Water Reclamation and Circular Water Systems Market Outlook, By Membrane Filtration (2024-2032) (\$MN)

Table 13 Global Water Reclamation and Circular Water Systems Market Outlook, By Biological Treatment (2024-2032) (\$MN)

Table 14 Global Water Reclamation and Circular Water Systems Market Outlook, By Chemical Treatment (2024-2032) (\$MN)

Table 15 Global Water Reclamation and Circular Water Systems Market Outlook, By Advanced Oxidation Proces (2024-2032) (\$MN)

Table 16 Global Water Reclamation and Circular Water Systems Market Outlook, By IoT and Smart Monitoring Systems (2024-2032) (\$MN)

Table 17 Global Water Reclamation and Circular Water Systems Market Outlook, By Application (2024-2032) (\$MN)

Table 18 Global Water Reclamation and Circular Water Systems Market Outlook, By

Industrial Wastewater Reuse (2024-2032) (\$MN)

Table 19 Global Water Reclamation and Circular Water Systems Market Outlook, By Municipal Water Reclamation (2024-2032) (\$MN)

Table 20 Global Water Reclamation and Circular Water Systems Market Outlook, By Agricultural Irrigation (2024-2032) (\$MN)

Table 21 Global Water Reclamation and Circular Water Systems Market Outlook, By Groundwater Recharge (2024-2032) (\$MN)

Table 22 Global Water Reclamation and Circular Water Systems Market Outlook, By Urban Landscaping and Cooling (2024-2032) (\$MN)

Table 23 Global Water Reclamation and Circular Water Systems Market Outlook, By End User (2024-2032) (\$MN)

Table 24 Global Water Reclamation and Circular Water Systems Market Outlook, By Municipal Authorities (2024-2032) (\$MN)

Table 25 Global Water Reclamation and Circular Water Systems Market Outlook, By Industrial Facilities (2024-2032) (\$MN)

Table 26 Global Water Reclamation and Circular Water Systems Market Outlook, By Commercial Complexes (2024-2032) (\$MN)

Table 27 Global Water Reclamation and Circular Water Systems Market Outlook, By Residential Communities (2024-2032) (\$MN)

Table 28 Global Water Reclamation and Circular Water Systems Market Outlook, By Agricultural Enterprises (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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