

# **Wastewater Recovery System Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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## **Abstracts**

The Global Wastewater Recovery System Market was valued at USD 44.5 billion in 2024 and is projected to exhibit a CAGR of 9.2% from 2025 to 2034. The market is primarily driven by growing concerns over freshwater scarcity, the rising adoption of sustainable treatment solutions, and increased industrial initiatives focused on wastewater reuse. As industrialization and population growth continue to surge, the demand for clean and usable water has intensified, especially in rapidly urbanizing regions like Asia Pacific. These regions are experiencing significant pressure on freshwater resources, compelling industries to adopt advanced wastewater recovery systems.

Furthermore, governments worldwide are enforcing stricter regulations on the treatment and disposal of industrial liquid waste, thereby accelerating market growth. The United States, through its Clean Water Act, mandates companies to adhere to strict standards for discharged water quality, highlighting the need for innovative and efficient wastewater recovery technologies. Advances in reverse osmosis and membrane filtration have significantly improved the economic viability and energy efficiency of wastewater recovery processes, making them more accessible to a wider range of industries.

The market is segmented based on technology, including activated carbon, ultra-filtration and reverse osmosis, membrane filtration, ion exchange resin systems, media filtration, and others. Among these, activated carbon has emerged as a highly effective solution for removing organic contaminants in various sectors, including food and beverage, pharmaceuticals, and municipal water treatment. Ultra-filtration and reverse osmosis technologies are also gaining traction due to their ability to filter microscopic impurities, making them ideal for industrial applications where water purity is paramount. Membrane filtration has witnessed remarkable advancements, ensuring

better efficiency and reliability in the recovery process. Ion exchange resin systems offer a proven method for eliminating dissolved salts and impurities, while media filtration plays a crucial role in removing suspended particles and enhancing water quality.

The pharmaceutical segment is poised for notable growth in the wastewater recovery system market, with a projected CAGR of over 14.2% by 2034. This growth is attributed to the sector's stringent compliance requirements and the need for high-quality water during production processes. Additionally, advancements in treatment technologies are making it possible for pharmaceutical companies to meet stringent regulatory standards while minimizing their environmental impact.

The United States remains a significant market for wastewater recovery systems, with substantial growth recorded in recent years. The market was valued at USD 12.5 billion in 2022, USD 13.8 billion in 2023, and USD 15.1 billion in 2024, driven by robust regulatory frameworks and increasing investments in advanced treatment solutions. As industries prioritize environmental sustainability and regulatory compliance, the demand for wastewater recovery systems in the United States is expected to remain strong, contributing to overall global market growth.

## Contents

### CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid
    - 1.4.2.2 Public

### CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

### CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
  - 3.3.1 Growth drivers
  - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
  - 3.5.1 Bargaining power of suppliers
  - 3.5.2 Bargaining power of buyers
  - 3.5.3 Threat of new entrants
  - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

### CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

### CHAPTER 5 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 - 2034 (USD)

**BILLION)**

- 5.1 Key trends
- 5.2 Activated carbon
- 5.3 Ultra filtration & reverse osmosis
- 5.4 Membrane filtration
- 5.5 Ion exchange resin system
- 5.6 Media filtration
- 5.7 Others

**CHAPTER 6 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 - 2034 (USD BILLION)**

- 6.1 Key trends
- 6.2 Pharmaceuticals
- 6.3 Oil & gas
- 6.4 Metal mining
- 6.5 Chemical
- 6.6 Food & beverage
- 6.7 Others

**CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2034 (USD BILLION)**

- 7.1 Key trends
- 7.2 North America
  - 7.2.1 U.S.
  - 7.2.2 Canada
- 7.3 Europe
  - 7.3.1 UK
  - 7.3.2 France
  - 7.3.3 Italy
  - 7.3.4 Spain
  - 7.3.5 Germany
  - 7.3.6 Poland
- 7.4 Asia Pacific
  - 7.4.1 China
  - 7.4.2 India
  - 7.4.3 Japan

- 7.4.4 Australia
- 7.4.5 Indonesia
- 7.4.6 Malaysia
- 7.5 Middle East & Africa
  - 7.5.1 Saudi Arabia
  - 7.5.2 UAE
  - 7.5.3 South Africa
- 7.6 Latin America
  - 7.6.1 Brazil
  - 7.6.2 Argentina
  - 7.6.3 Mexico

## **CHAPTER 8 COMPANY PROFILES**

- 8.1 BioChem Technology
- 8.2 Calgon Carbon Corporation
- 8.3 CECO Environmental
- 8.4 CLEARAS Water Recovery
- 8.5 ClearBlu Environmental
- 8.6 DYNATEC SYSTEMS, INC.
- 8.7 ENCON Evaporators
- 8.8 Evoqua Water Technologies LLC
- 8.9 Koch Separation Solutions
- 8.10 KONTEK ECOLOGY SYSTEMS INC.
- 8.11 KORTE Kornyezettechnika Zrt.
- 8.12 Mech-Chem Associates, Inc.
- 8.13 Pall Corporation
- 8.14 Veolia
- 8.15 Westlake Vinnolit GmbH & Co. KG

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