Industrial Wastewater Treatment Market Growth Analysis - Forecast Trends and Outlook (2025-2034

Market Report | 2025-08-13 | 175 pages | EMR Inc.

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Report description:

The global industrial wastewater treatment market size was valued at USD 14.15 Billion in 2024 . The industry is expected to grow at a CAGR of 6.40% during the forecast period of 2025-2034 to reach a valuation of USD 26.31 Billion by 2034 .

The industrial wastewater treatment market is rapidly expanding, driven by stringent environmental regulations, the need for sustainable water management, and advancements in treatment technologies. Industries such as chemical manufacturing, food and beverage, oil and gas, and pharmaceuticals are adopting innovative solutions to address rising concerns over water pollution and resource conservation. As per USDA, Australia's foodservices sector reached USD 39.1 billion in 2023, contributing increasingly to wastewater from food preparation. The sector's growth amplifies demand for advanced wastewater treatment solutions, driving expansion in the market.

According to the National Health Expenditure Account, the United States healthcare spending rose by 4.1% to USD 4.5 trillion in 2022, leading to higher healthcare-related wastewater production. The growth in medical facilities drives demand for advanced wastewater treatment technologies to comply with health and environmental standards, supporting the industrial wastewater treatment market growth.

Key trends include the integration of advanced filtration systems, zero-liquid discharge technologies, and smart water monitoring systems powered by IoT. The growing focus on recycling and reusing wastewater further fuels market demand. Additionally, the adoption of biological treatment methods, such as activated sludge and membrane bioreactors, enhances operational efficiency. As industries aim for compliance and sustainability, the industrial wastewater treatment market continues its upward trajectory.

Key Trends and Recent Developments

February 2025

CenterOak Partners had sold Shamrock Environmental, a North Carolina-based company offering industrial waste and wastewater treatment services, to a subsidiary of Republic Services, Inc. This acquisition highlighted the continued consolidation within the environmental services industry.

January 2025

Gradient, an MIT spinout, developed customised water treatment solutions that integrated chemical treatments and filtration systems. These innovations were designed to reduce industrial wastewater by facilitating recycling and purification processes tailored to the specific needs of various industries.

January 2025

Malappuram municipality launched the Kerala State Waste Management Project with World Bank support. E.T. Mohammed Basheer, MP, inaugurated the project, urging civic bodies across the state to utilise advanced technologies for effective waste management. The project aims to improve solid waste handling in the region.

January 2025

Oriental Weavers, the world's leading manufacturer of woven carpets inaugurated the expansion of the industrial wastewater treatment plant at the group's spinning factory, which features four consecutive treatment stages and has a capacity of 1,250 cubic meters per day. The plant was established with an investment exceeding EGP 24 million, covering an area of 450 square meters.

Increasing Demand for Advanced Treatment Technologies is Boosting the Industrial Wastewater Treatment Market

The global industrial wastewater treatment market is expanding due to heightened concerns over water pollution and stricter environmental regulations. Advanced technologies, such as membrane filtration, reverse osmosis, and biological treatment methods, are increasingly sought after to ensure efficient water recycling, pollution control, and compliance with regulatory standards. In February 2025, Cedar Rapids embarked on a USD 318 million project to modernise its Water Pollution Control Facility, incorporating advanced technologies to enhance plant capacity and efficiency, meeting both current and future needs.

Adoption of Green and Sustainable Solutions

Sustainability is becoming a focal point in the industrial wastewater treatment sector, with eco-friendly technologies gaining traction. Zero-liquid discharge (ZLD) systems, which minimize water wastage and facilitate complete wastewater recycling, are being widely adopted. These green solutions help reduce environmental impacts, conserve water resources, and contribute to global sustainability targets. In February 2025, BrightWave launched algae-based technology in England, using wastewater treatment plants to produce biogas, offering a sustainable approach to both wastewater management and energy production.

Integration of IoT and Automation

The integration of IoT and automation in industrial wastewater treatment market is on the rise. IoT sensors allow for real-time water quality monitoring, while automation optimises operational efficiency. These technological innovations improve control over treatment processes, reduce energy consumption, and enable predictive maintenance, delivering cost-effective solutions for industrial facilities. In February 2025, Element3 achieved a significant milestone by producing battery-grade lithium carbonate from wastewater in the Midland Basin, recovering over 85% of lithium from produced water with low concentrations,

demonstrating sustainable lithium extraction.

Regulatory Standards and Compliance

Tighter environmental regulations on wastewater disposal are driving demand for efficient treatment solutions. Industries face increasing pressure to meet local and international wastewater discharge standards, prompting investments in advanced technologies. As per the industrial wastewater treatment market analysis, in February 2025, Ingersoll Rand acquired SSI Aeration and its subsidiaries, strengthening its wastewater treatment offerings. SSI, with USD 30 million in annual revenue, manufactures energy-efficient aeration systems. The acquisition enables Ingersoll Rand to combine technologies for comprehensive wastewater treatment solutions, with SSI's facilities joining the company's Industrial Technologies segment.

Industrial Wastewater Treatment Industry Segmentation

"Global Industrial Wastewater Treatment Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Coagulants
- Flocculants
- Corrosion Inhibitors
- Scale Inhibitors
- Biocides and Disinfectants
- Chelating Agents
- Anti-Foaming Agents
- Ph Stabilizers
- Others

Key Insight: Coagulants play a vital role in removing suspended solids and impurities from industrial wastewater. They are highly relevant in industries like chemical manufacturing and food processing, where water treatment is critical to meet environmental standards. The market for coagulants is driven by increased regulatory pressures and growing industrial awareness about water treatment. They remain a foundational product for wastewater treatment plants, owing to their effectiveness in purifying water in various industrial applications.

Market Breakup by End Use

- Power Generation
- Oil and Gas
- Mining
- Chemical
- Food and Beverage
- Others

Key Insight: The power generation sector is a major consumer of industrial wastewater treatment chemicals, particularly for cooling water systems. With power plants facing rising regulatory pressures to minimize water pollution, the demand for wastewater treatment solutions is strong. Additionally, the need for water conservation in the power sector is propelling the growth of treatment technologies that can facilitate the recycling of wastewater.

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Key Insight: North America remains the dominant region in the industrial wastewater treatment market, driven by advanced infrastructure, stringent environmental regulations, and a well-established industrial base. The U.S., in particular, leads in the adoption of innovative wastewater treatment technologies. Veolia's commitment to doubling its desalination capacity by 2030 is significantly influencing the industrial wastewater treatment landscape in the United States. As the world's leader in desalination, Veolia's expansion enhances its ability to provide sustainable water solutions to industries facing water scarcity and stringent environmental regulations.

Industrial Wastewater Treatment Market Share

Role of Flocculants and Corrosion Inhibitors in the Industrial Wastewater Treatment Market

Flocculants are crucial in facilitating the aggregation of fine particles, aiding in the treatment of wastewater in industries such as mining, food, and beverage. They are often used in tandem with coagulants to improve the efficiency of water treatment. Their market relevance has risen due to increasing concerns over water conservation and pollution control, making flocculants a key component for industries seeking to recycle and reuse water.

Corrosion inhibitors are essential for preventing the deterioration of pipelines and equipment in industries like oil and gas and power generation. With the rise in industrial activities, the demand for corrosion control is surging, especially in industries where the water used is chemically aggressive. The use of corrosion inhibitors ensures system longevity and operational efficiency, driving their steady growth in the industrial wastewater treatment market.

Water Treatment Challenges in the Oil & Gas and Mining Industries Boosting the Market Growth

The oil and gas industry is one of the largest consumers of water treatment chemicals due to the high water usage in drilling, hydraulic fracturing, and refinery operations. Water used in these processes must be treated to meet environmental standards before disposal or reuse. Regulatory frameworks are evolving to support these initiatives. In Texas, House Bill 49 permits oil companies to treat and sell fracking wastewater, including discharging it into rivers or using it for agricultural irrigation. This legislation aims to repurpose the vast amounts of wastewater generated from oil and gas extraction in the Permian Basin.

The mining industry generates large amounts of wastewater that requires treatment due to the presence of heavy metals and toxic substances. The demand for industrial wastewater treatment market in mining is driven by the need for environmental compliance and water reuse. Recent incidents, such as the 2025 tailings dam collapse in Zambia, which released approximately 50 million liters of acidic and toxic waste into the Kafue River, underscore the critical need for advanced wastewater management. As mining operations expand globally, especially in emerging regions, the demand for efficient treatment solutions will continue to rise.

Industrial Wastewater Treatment Market Regional Analysis

Growing Demand for Industrial Wastewater Treatment in Asia Pacific and Latin America

Asia Pacific is experiencing rapid growth in the industrial wastewater treatment market, driven by booming industrial activities in countries like China and India. Increasing urbanization, coupled with growing concerns over water scarcity and pollution, has led to a surge in demand for wastewater treatment solutions. In May 2025, the Punjab Pollution Control Board issued an ultimatum to dyeing units in Ludhiana to adopt zero-liquid-discharge technology by 2025, highlighting the region's commitment to addressing untreated industrial wastewater.

Latin America is emerging as a key region for the industrial wastewater treatment market, with countries like Brazil and Mexico investing in water treatment technologies due to rapid industrial growth and environmental concerns. Mexico's industrial hubs are focusing on cleaning up contaminated rivers and implementing stricter regulations to prevent further pollution. As industrial activities increase, demand for wastewater treatment chemicals and technologies is expected to rise, particularly in the mining and oil sectors.

Competitive Landscape

Key players in the industrial wastewater treatment market are focusing on developing advanced technologies to enhance efficiency and sustainability. They are investing in innovative solutions like membrane filtration, biological treatment, and chemical treatment methods to meet evolving environmental regulations and optimize water reuse. These companies are also strengthening their R&D capabilities to create customized solutions tailored to the specific needs of diverse industries.

Additionally, key players are forging strategic partnerships and acquisitions to expand their market presence and enhance their service offerings. Collaborating with local players in emerging markets is enabling global companies to tap into new growth opportunities. They are also enhancing customer engagement through digital platforms and offering comprehensive wastewater management solutions that go beyond treatment, focusing on system optimization and maintenance services.

Solenis

Solenis, headquartered in Delaware, United States was established in 2014. The company provides innovative water treatment and process chemicals, offering solutions to various industries, including pulp and paper, water treatment, and industrial manufacturing. Solenis focuses on sustainability and improving operational efficiency, helping customers reduce their environmental impact through advanced technology.

Ecolab

Ecolab, founded in 1923 and based in Minnesota, United States, is a global leader in water, hygiene, and energy technologies. The company serves industries such as foodservice, healthcare, and manufacturing. Ecolab offers sustainable solutions that help improve water usage, ensure food safety, and enhance energy efficiency, promoting a cleaner, healthier world.

Suez

Suez, established in 1858 and headquartered in Paris, France, is a multinational company focused on water and waste management. Specialising in providing sustainable solutions for water treatment, recycling, and waste recovery, Suez aims to help cities and industries manage natural resources more efficiently and reduce their environmental footprint.

Kemira OYJ

Kemira OYJ, based in Helsinki, Finland, was founded in 1920. It is a global leader in providing water treatment chemicals and process solutions for industries such as paper, oil and gas, and water treatment. Kemira focuses on sustainability, helping customers improve their environmental performance and reduce resource consumption.

Other key players in the industrial wastewater treatment market report are SNF Floerger, Feralco Group, and Ixom, among others.

Key Features of the Report:

- In-depth quantitative analysis of the industrial wastewater treatment market.
- Detailed insights into key market drivers, trends, and growth opportunities.
- Comprehensive segmentation analysis by technology, end-user, and region.
- Forecasted market size and trends from 2025 to 2034.
- In-depth competitive landscape with key players and their strategies.
- Expert insights into regulatory frameworks and technological advancements.

Why Choose Expert Market Research?

- Trusted insights from experienced analysts with global market knowledge.
- Actionable data and forecasts to guide strategic business decisions.
- Comprehensive reports covering all key market segments and regions.
- Tailored recommendations to support growth in the industrial wastewater treatment sector.

Call to Action:

Download a free sample of the Industrial Wastewater Treatment Market Report 2025-2034 to explore key trends, growth forecasts, and actionable insights. Contact us today to discuss how these insights can drive your business decisions in the evolving industrial wastewater treatment market.

More Insights On:

Asia Pacific Water and Wastewater Treatment Market Industrial Wastewater Treatment Units Market South Korea Wastewater Treatment Market Packaged Wastewater Treatment Market _x000D_

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