

Report Information

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Water and Wastewater Treatment Equipment Market Research Report - Global Forecast to 2030

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Description:

Global Water and Wastewater Treatment Equipment Market Overview

Water and Wastewater Treatment Equipment Market Size were valued at USD 66.5 billion in 2021. The water and wastewater treatment industry is projected to grow from USD 70.41 billion in 2022 to USD 104.97 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 5.87% during the forecast period (2022 - 2030). Heightened knowledge of health challenges and preference for nutrient-rich water are the key market drivers enhancing the market growth.

Water and Wastewater Treatment Equipment Market Overview

Water and Wastewater Treatment Market Trends

- Demand for clean and fresh water will drive market growth**

The scarcity of drinking water in various parts of the world drives the worldwide equipment for water treatment market. Among other health problems, drinking dirty water increases your risk of gastrointestinal, reproductive, and neurological disorders. The increased awareness of the detrimental effects of contaminated water among the populace is driving the demand for Wastewater Treatment System Equipment's on a scale. The easy accessibility of Water Treatment Equipment in various retail contexts, such as grocers, supermarkets, and convenience stores, has been widely blamed for the industry's rapid rise.

The growing demand for water treatment technology equipment among health-conscious consumers, rising disposable money, rising consumer health consciousness, and improved understanding of waterborne ailments have all been fueled by the growing urban population. Additionally, due to growing concerns about the amount of plastic waste created by the equipment for water & wastewater treatment process industry, companies are progressively moving to PET and plant-based water bottles to achieve sustainability. These eco-friendly bottles are expected to enhance the market for water treatment system equipment in industrialized economies like Europe and North America. It is projected that innovative packaging would greatly boost market development. Consumer brand impression is considerably aided by the use of ecologically friendly materials in the production of bottles.

Figure 1: Worldwide water demand, (2000-2050)

Worldwide water demand

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

The amount of federal support for various initiatives varies substantially. Water supply, wastewater treatment, and drinking water services compete with several other programs funded by discretionary spending. Some of these initiatives have gotten additional funding, as, for example, the 2021 Infrastructure Investment and Jobs Act provides (IIJA; P.L. 117-58). IIJA provided \$728.3 million in capitalization grants to states under the EPA's State Revolving Fund (SRF) loan programme for drinking water systems and \$1.195 billion for the EPA's SRF programme for wastewater projects, contributing an additional \$1.902 billion for each programme. Additionally, \$397.8 million for drinking water infrastructure and \$443.6 million for wastewater infrastructure were provided by "community project funding/congressionally directed spending," which is.

As a result, the market CAGR has risen significantly in recent years due to the swift shift toward sensible drinking practices. These environmentally friendly bottles are expected to enhance the

equipment demand for water treatment system in industrialized economies like Europe and North America. Innovative packaging is expected to impact the water and wastewater treatment equipment market revenue significantly.

Water and Wastewater Treatment Equipment Market Segment Insights

Market Insights of equipment for water & wastewater treatment by Type

The water and wastewater treatment equipment market segmentation, based on treatment type, includes membrane separation, disinfection, sludge treatment and others. In 2021, the market's largest water and wastewater treatment equipment market revenue-generating segment—membrane separation equipment—accounted for 20.2% of the total. Additionally, anticipated development drivers for the market are rising production activities and rising expenditures in industrial equipment. Compared to most of the current water purification methods, membrane separation offers several advantages, including greater filtering efficiency and a small operational footprint. In 2021, the biological treatment technology market accounted for 12.6% of total revenue. The need for biological treatment equipment for the water and wastewater treatment market is expected to increase due to strict regulations in developed markets, such as the U.S., Canada, Germany, and Japan, controlling water pollution at manufacturing and municipal levels through the use of environmentally friendly methods.

Market Insights of equipment for water & wastewater treatment by Application

Based on application, the water and wastewater treatment equipment market segmentation include municipal and industrial. During the anticipated period, the municipal application segment will dominate the water and wastewater treatment equipment market. The increased usage of water & wastewater treatment equipment in residential and non-residential applications may be credited with the market segment's expansion. The water & wastewater treatment equipment market is anticipated to expand at the greatest CAGR market in the municipal application category between 2019 and 2022. The Suez Group and China National Petroleum Corporation (CNPC) agreed on contracts for USD 317 million in January 2021. Zero Liquid Discharge (ZLD) of petrochemical effluents is the project's ultimate goal. It is anticipated that similar programs treating effluents would boost water and wastewater treatment equipment market demand in developed countries like China and India.

Figure 2: Water and Wastewater Treatment Equipment Market by Application 2021 & 2030 (USD Million)

Water and Wastewater Treatment Equipment Market by Application 2021 & 2030

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Water and Wastewater Treatment Equipment Market Outlook By Regions

By Region, the study provides market insights into North America, Europe, Asia-Pacific and the Rest of the World. Europe, water and wastewater treatment equipment market accounted for USD 28.99 billion in 2021 and is expected to exhibit a significant CAGR growth during the study period. The Europe market are anticipated to be driven by the rapidly growing disposal of wastewater from industrial regions. Different reasons driving the European market include the limited water supply and the quick industrialization of rising nations like Germany, Spain, and France. The areas of equipment for water treatment is anticipated to be driven by Germany's strict water treatment standards and regulations. Germany Water and Wastewater Treatment Equipment market have been concentrating on effective water management systems and water-saving innovations, including techniques for reducing local water spillage rates and increasing contemporary water reuse. The water and wastewater treatment equipment market is being driven by investments made by Spain and France in industrial and municipal wastewater treatment divisions. The U.K. equipment for water treatment market was the fastest-growing market in this Region.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the U.K., Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Water and Wastewater Treatment Equipment Market, by Region 2021 & 2030 (USD Million)

Water and Wastewater Treatment Equipment Market, by Region 2021 & 2030

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

The APAC region has the second-largest market share for water and wastewater treatment technology worldwide. The Asia Pacific water and wastewater treatment equipment market is anticipated to expand at the greatest CAGR between 2016 and 2022. The expansion of the water and wastewater treatment equipment market in the Asia Pacific region can be attributed to the presence of several major equipment producers in the area as well as the rising demand for treated water from a variety of end-use sectors, including municipal and industrial applications in nations like China, South Korea, Japan, and India.

North America water and wastewater treatment equipment market was the fastest-growing in this region. The United States government offers funds to construct sewage treatment facilities, where wastewater is subjected to primary and secondary treatment to fulfill the necessary water standards. Therefore, it is projected that the government's rigorous regulations would increase demand for water

& wastewater treatment equipment in the nation. Furthermore, it is predicted that demand for equipment for water treatment will be driven throughout the projection period by airport expansions and the construction of large-scale commercial complexes. Moreover, US water and wastewater treatment equipment market held the largest market share, and the Canada water and wastewater treatment technology market was the fastest-growing market in the region.

Water and Wastewater Treatment Equipment Key Market Players & Competitive Insights

Major market companies are spending a lot of money on R&D to diversify their product lines, propelling the industry's further expansion. Market players are engaging in several strategic initiatives to improve their worldwide footprint in conjunction with key industry developments, such as new product releases, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. Businesses in the water and wastewater treatment equipment market sector must offer reasonably priced items if they want to expand and prosper in an environment where competition is severe, and market growth is accelerating.

One of the primary business strategies manufacturers utilize in the water and wastewater treatment equipment industry to serve customers and expand the market sector is local manufacturing to reduce operational costs. Recent market developments in the have provided some of the most significant benefits for medicine. The water and wastewater treatment equipment market major players G.E. Water & Process Technologies (U.S.), Aquatech International Corporation (U.S.), Veolia Water Technologies (France), WPL Limited (U.K.), Fluence Corporation Limited (U.S.), Napier Reid Ltd. (Canada), Calgon Carbon Corporation (U.S.), Xylem Inc. (U.S.), Kemira Oyj (Finland) and Corix Water System (Canada).

The Veolia Group includes Veolia Water Technologies & Solutions (formerly SUEZ Water Technologies & Solutions). Veolia Water Technologies & Solutions addresses the world's most difficult water, wastewater, and process issues with operations in 130 countries and over 10,000 staff members. The IPMC (CNRS-Université Côte d'Azur), Veolia, and I (a company) are working together to further develop Vigie COVID-19, a revolutionary technique for quickly identifying and computing the COVID-19 virus, notably in wastewater. The first time this plan was used was in September 2020. Researchers have already been able to compute the Alpha, Gamma, and Beta variations, the possibly harmful delta variant from a year ago and the new Omicron variant.

Modern water, wastewater, and process systems solutions are provided to blue-chip clients by G.E. Water & Process Technologies, a systems and services leader for industrial clients. With over 7,500 workers, G.E. Water & Process Technologies produced about \$2.1 billion in sales in 2016. G.E. (NYSE: G.E.) transaction to sell G.E. Water & Process Technologies to SUEZ for \$3.4 billion was finalized on September 30, 2017.

List of the Water & Wastewater Treatment Equipment Manufacturers in the Market include

- G.E. Water & Process Technologies (U.S.)
- Aquatech International Corporation (U.S.)
- Veolia Water Technologies (France)
- WPL Limited (U.K.)
- Fluence Corporation Limited (U.S.)
- Napier Reid Ltd. (Canada)
- Calgon Carbon Corporation (U.S.)
- Xylem Inc. (U.S.)
- Kemira Oyj (Finland)
- Corix Water System (Canada)
- Among others.

Water and Wastewater Treatment Technology Industry Developments

- **April 2022:** Through a joint venture with Jiangsu Sino French Water Company Limited, Suez was awarded a build-and-operate contract for an industrial wastewater treatment plant in Changshu. The treatment facility is slated to debut in 2024.
- **March 2022:** In Kraljevo, in central Serbia, Veolia Environment announced plans to build a wastewater treatment facility for \$19.8 million (EUR 18 million). Construction is anticipated to start within 12 months, with a

three-and-a-half-year completion target.

- **November 2022:** WABAG LIMITED and the Asian Development Bank ('ADB') have a contract for WABAG LIMITED to issue unlisted non-convertible debt securities with five years and three months tenors to raise INR 200 crores (about USD 24.6 million). For its operations in water treatment, ADB will subscribe to it over 12 months.
- **August 2022:** For recycling and reusing wastewater, an Israeli business called Huliote Pipes introduced ClearBlack Sewage Treatment Plant specifically for the Indian market.

Water and Wastewater Treatment Technology Industry Segments

By Type Outlook

- Membrane Separation
- Disinfection
- Sludge treatment
- Others

By Application Outlook

- Municipal
- Industrial

Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World

- Middle East
- Africa
- Latin America

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