

United States Water Treatment Systems Market By Technology (Water Softeners, Filtration System, Disinfection System, Reverse Osmosis Systems, Distillation Systems, Others), By Application (Residential, Commercial, Industrial), By Installation (POU, POE), By Region, Competition, Forecast, and Opportunities, 2028

Market Report (3 business days) | 2023-10-03 | 73 pages | TechSci Research

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Report description:

United States Water Treatment Systems Market is anticipated to rise significantly during the period of 2024-2028, The rate of water pollution brought on by industrialization, uncontrolled disposal of chemical waste and building debris in water bodies, and the increase in government programs to provide purified water to citizens, are expected to contribute to the market's growth over the forecast period.

Water treatment refers to the process that improves the quality of water to make it suitable for a certain end-purpose, such as drinking, irrigation, sustaining river flow, or being safely disposed of back into the environment.

In the United States, the essential framework for limiting the discharge of contaminants into water and managing surface water quality requirements is established by the Clean Water Act, 1972. The emphasis on maintaining water quality is high in the country. The rising pollution level, especially due to constant industrial expansion, has led to an increase in the use of water treatment technologies, which acts as a catalyst for market growth. The Environmental Protection Agency (EPA) has enforced various administrative actions to assure safe drinking water in public water systems.

To upgrade its public infrastructure, the United States Government has launched several initiatives. In May 2021, the government announced the enforcement of the drinking water and wastewater Infrastructure Act, 2021. In April 2021, the US senate passed a USD 35 billion water infrastructure bill.

Advancements in Wastewater Treatment Technologies to Aid Market Growth

Nowadays, onsite water reuse has become one of the trending strategies among industries, popularising industrial water reuse in the United States. Technologies and practices that encourage water reuse, lessen pollution, and conserve energy are in highly adopted these days.

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Ageing infrastructure and rising toxin levels in the surrounding is one major challenge that this country is facing at present. The waste generated from the infrastructure and these toxins are contaminating the water. The need for improvements in water and wastewater treatment technologies has increased due to the rising demand for clean, chemical-free water. The cutting-edge technologies used in the United States are:

- Technologies for Industrial Water Reuse - These technologies encourage water reuse or sewage mining and can lower pollution and energy consumption.
- Methods for Brine Treatment - When freshwater is scarce or when salt intrusion threatens groundwater, brine treatment is frequently used.
- Stricter Federal and State Restrictions for Wastewater and Stormwater Systems - These are the key forces behind improvement in such systems. Stormwater management tools and green infrastructure techniques.
- Methods for Recovering and Removing Nutrients - This technique lessens nutrient contamination as a result of stricter rules in drinking water sources and surface water.
- Water and wastewater facilities have become net-zero energy consumers, thanks to energy conservation and recovery techniques.

Moreover, physical-chemical separation methods, such as adsorption, flocculation/precipitation, and membranes for improved filtration, ion exchange, and reverse osmosis (RO) are used in advanced wastewater treatment. Treated effluents can be utilised again to irrigate urban areas, outdoor areas, and farms. Due to this, the uptake of cutting-edge wastewater treatment technologies is expected to increase during the forecast period as water concerns spread across the United States.

Technological Advancements and Increasing R&D Driving Market

On the other hand, technological advancements and an increase in R&D effort led to the development of energy-efficient water technology systems. For instance, Pure Aqua Inc. developed an energy-efficient RO system that can successfully filter unwanted dissolved solids, present in the water, while consuming around 30% less electricity than traditional RO systems.

Moreover, advancements in automation, remote control, and communication technologies in water treatment systems have forced system designers to maximise these systems' operational flexibility in order to lower operating costs. This might increase the significance of automated water treatment technologies in a variety of end-use sectors over the coming years, opening new revenue streams for the country market.

Increasing Demand for Water for Daily Need to Aid Market

Over the next two decades, there will be a rise in the demand for water due to population expansion, lifestyle modifications, development, and increasing agricultural activities in the United States. By 2050, the industrial and domestic sectors are projected to utilize water at 20-50 percent higher rates than current levels. The relative rise until 2050 is although probably less than other industries, agriculture will continue to be the greatest overall consumer of water. While water resources in the United States are enormous, they are not limitless. Given that the average American's water footprint, or the total amount of water consumed directly and indirectly, is roughly twice as high as the global average, it is extremely important to save and safeguard this water. Due to the fact that human demand exceeds natural supply, major water resources, such as the Colorado River and the Ogallala Aquifer, which support portions of eight states in the High Plains, frequently see dramatically decreasing water levels.

According to the United States Geological Survey (USGS), Americans take out 322 billion gallons of water daily, including both freshwater and saltwater. Thermoelectric power plants use the majority of the total withdrawals for cooling, whereas the agriculture sector uses a little less than it for agricultural irrigation. The third-highest overall amount of water is used for "public supply" or as "drinking water" by municipalities and water companies, which travels daily to treatment facilities to be filtered. It is important to note that treating and moving this much water requires a significant quantity of energy, which, in turn, needs a significant amount of water to be generated.

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The pulp and paper industry uses water and wastewater treatment technologies, such reverse osmosis, ion exchange, UV disinfection, membrane filtering, biological treatment, and others, to remove particles and particulate matter and minimize effluent toxicity. One of the largest industrial employers is the pulp and paper sector. More than 1.5 million individuals, or a highly skilled workforce, are employed in the pulp and paper business in the United States, according to a recent estimate by Frost & Sullivan. In comparison to the global market, the U.S. pulp and paper sector is fairly developed, comprising a substantial transportation infrastructure and a well-established local and export business. Additionally, it ranks seventh among manufacturing sectors in terms of gross domestic product, accounting for 7% of all U.S. manufacturing sales (US\$ 240 billion in value). In the pulp and paper sector, contaminated wastewater makes up around 85% of the water used. This is made up of contaminants with high chemical and biological oxygen demands (COD and BOD), effluent solids, sediments, absorbable organic halides (AOX), chlorinated organic compounds, and more. Because of this, the majority of pulp and paper mills have primary and secondary water treatment facilities on-site to clean effluent before it is reused or discharged. The United States has a significant paper and pulp industry, one of the largest in the world. The country produces the largest amount of paper pulp in the world and, as of 2020, used about 64 million metric tons of paper and paperboard, placing it second in the world in terms of consumption.

Market Segmentation

The United States Water Treatment Systems Market is analyzed on the basis of technology, application, and installation. Based on technology, the market is divided into water softeners, filtration system, disinfection system, reverse osmosis systems, distillation systems, and Others. Based on application, the market is divided into residential, commercial, and industrial. Based on installation, the market is divided into POU and POE.

Market Players

Major market players in the United States Water Treatment Systems market are The DOW Chemical Company, Honeywell International Inc., 3M Company, Danaher Corporation, Pentair PLC, Best Water Technology (BWT) AG, Calgon Carbon Corporation, Culligan International, and General Electric.

Report Scope:

In this report, the United States Water Treatment Systems Market has been segmented into following categories, in addition to the industry trends, which have also been detailed below:

-□United States Water Treatment Systems market, By Technology:

- o□Water Softeners
- o□Filtration System
- o□Disinfection System
- o□Reverse Osmosis Systems
- o□Distillation Systems
- o□Others

-□United States Water Treatment Systems market, By Application:

- o□Residential
- o□Commercial
- o□Industrial

-□United States Water Treatment Systems market, By Installation:

- o□POU
- o□POE

-□United States Water Treatment Systems market, By Region:

- o□West
- o□Midwest
- o□Northeast
- o□South

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Water Treatment Systems market.

Available Customizations:

United States Water Treatment Systems market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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