

Membrane Water And Wastewater Treatment - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Membrane Water And Wastewater Treatment Market is expected to register a CAGR of 7.2% during the forecast period.

The COVID-19 outbreak brought several short-term and long-term consequences in various industries, food and beverage processing, chemicals power, and other end-user industries, affecting the market.

Key Highlights

- One of the major factors driving the market is the rising demand for low-pressure membrane technologies.
- However, poor fouling resistance of nanoporous membranes is likely to hinder the growth of the market studied.
- Municipal Industry dominated the market whereas the food & beverage industry is expected to grow at the highest rate during the forecast period.
- Lack of access to safely managed drinking water in some countries is anticipated to provide numerous opportunities over the forecast period.

Membranes for Water and Wastewater Market Trends

Municipal Industry to dominate the Market

- Municipal wastewater is the water draining from toilets, showers, sinks, bathrooms, washing machines, dishwashers, and liquid industrial waste. Municipal wastewater should be treated before releasing it into the environment to avoid damage to the

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environment and the spreading of harmful diseases.

- The major applications of treatment technologies include preliminary treatment, primary and secondary treatment, tertiary treatment, biological nutrient removal (BNR), resource recovery, energy generation, and others.
- In China, there are approximately 1,944 municipal wastewater treatment plants in city/urban regions and 1,599 municipal wastewater treatment plants in counties. These facilities have daily processing capacities of 140 and 29 million cubic meters, respectively. In line with the 14th Five-Year Plan (FYP), China has introduced new guidelines for wastewater reuse, aiming to increase the proportion of treated sewage to reuse standards to 25% by 2025.
- In Mexico, out of the total 6,425 water and wastewater treatment plants, there are a total of 2,477 municipal wastewater treatment plants in the country. Furthermore, Stormwater Treatment Area 1 West Expansion project involves the construction of water treatment facilities on 2,509 ha of land in Florida, the United States, with an investment of USD 170 million.
- Construction commenced in Q4 2021 and is expected to finish by Q3 2023. The project aims to remove excess phosphorus and other nutrients from water flowing into the refuge and other parts of the greater Everglades and improve water quality. It will also increase the treatment capacity of water quality facilities by 50%.
- The Government of India has been focusing majorly on the treatment and recycling of water and wastewater in the country, which is creating a market opportunity for membrane water and wastewater treatment. Dwindling natural water resources in major cities, like Bangalore and Chennai, is one of the major reasons behind this trend.
- Such trends are likely to propel the demand for membrane water and wastewater treatment over the forecast period.

Asia-Pacific to Dominate the Market

- Asia-Pacific region is expected to dominate the membrane water and wastewater treatment market globally during the forecast period. Due to the increase in the urban population throughout China, 70% of the nation's population is expected to reside in cities by 2030. As the urban population increases, they also face an influx of wastewater and sludge.
- Currently, 80% of sludge in China is improperly dumped, an increasingly controversial environmental issue that has urban centers scrambling to decrease pollution by improving their wastewater treatment plants (WWTPs).
- In June 2022, China Everbright Water, an environmental protection company specializing in water environment management, successfully secured the expansion and upgrading project for the Zhangdian East Chemical Industry Park Industrial Wastewater Treatment in Zibo City, Shandong Province. This project will be implemented under a build-operate-transfer (BOT) model, with a planned daily industrial wastewater treatment capacity of approximately 5,000 m³.
- Further, in India, according to the central pollution control board (India), the country currently generates around 72.36 billion liters per day (BLD) of urban wastewater, and only 28% (20.23 BLD) is treated.
- Furthermore, in the Union Budget 2022, the Government of India announced a package of INR 60 lakh crore (USD 7.27 billion) to provide drinkable water to every household, thus, boosting the demand for water treatment in the country.
- The sewage penetration rate in Japan is 76%, with the country generating more than 2.2 million tons of sewage sludge on a dry basis. Nearly 80% of sewage sludge is recycled and reused, with material recycling in the form of ingredients for cement.
- South Korea has successfully achieved a sewage penetration rate of over 92% through the implementation of the 1st National Sewage Comprehensive Plan (2007-2015), which involved the continuous expansion of sewage treatment facilities. Furthermore, the government's Water Environment Management Master Plan (WEMMP) for 2016-2025 is expected to further enhance water treatment initiatives in the country.
- Hence, such trends in the region will contribute to the growth of the membrane water and water treatment market during the forecast period.

Membranes for Water and Wastewater Industry Overview

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The global membrane water and wastewater treatment market is highly fragmented. Some of the major players (not in any particular order) include Alfa Laval, Xylem, Koch Separation Solutions, Veolia, and SUEZ, among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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