Asia-Pacific Membrane Water & Wastewater Treatment (Wwt) Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

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Report description:

The Asia-Pacific membrane water and wastewater treatment (WWT) market is expected to register a CAGR of over 8% during the forecast period.

The market was negatively impacted by COVID-19 in 2020. Due to lockdown and travel limitations, large industrial and commercial users' decreased demand for water treatment utilities has had a significant negative impact on the market's prospective revenue growth. However, the market is projected to grow steadily, owing to the growing demand for water resources in every sector.

Key Highlights
Over the short term, rising demand for low-pressure membrane technologies is a major factor driving the growth of the market studied.
However, poor fouling resistance of nanoporous membranes is a key factor anticipated to restrain the growth of the target industry over the forecast period.
Nevertheless, the growing usage of membrane bio-reactors is likely to create lucrative growth opportunities for the market soon.
China is estimated to witness healthy growth over the assessment period in the Asia-Pacific membrane water and wastewater treatment market due to the immense need of treating unhealthy surfaces and groundwater for human consumption.

APAC Membrane Water & Wastewater Treatment Market Trends

Municipal Industry to Dominate the Market

The municipal segment represents the largest application base for the membrane waste and wastewater treatment market. Municipal wastewater refers to the water that drains from the 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 environment and to avoid the spreading of harmful diseases.
Reverse osmosis technology is the majorly used membrane technology in municipal applications. This technology uses a semi-permeable membrane to remove ions, molecules, and larger particles from water designed for drinking or cooking. In addition, rainwater collected from storm drains is often purified with reverse osmosis membranes for use as landscape irrigation and industrial cooling.
Cost-effective ultrafiltration and reverse osmosis systems make surface water safe to the source by removing turbidity and suspended solids, bacteria, and viruses. Additionally, communities using groundwater as their water source rely on our ultrafiltration systems to remove silt, iron, and manganese to produce colorless, crystal-clear drinking water. For communities with seawater intrusion or inland aquifers, there is a need for energy-efficient UF and RO systems for softening and desalination.
According to the International Trade Administration, as of January 2020, around 10,000 water treatment plants in China treat wastewater for 95% of municipalities and 30% of rural areas. In 2020, around 39,000 new wastewater treatment facilities were set up.
According to the Central Pollution Control Board (March 2021), India's current water treatment capacity is 27.3% and wastewater treatment capacity is 18.6% (with an additional capacity of 5.2% added).
Hence, owing to the above-mentioned factors, municipalities are expected to dominate the market during the forecast period.

China to Witness the Highest Growth Rate

In China, membrane water and wastewater treatment are required mainly because of the effluents produced in various industries, such as power generation, chemicals, food and beverage, mineral processing, and pulp and paper, among others, which require freshwater for day-to-day activities.
North China has approximately 90% of the country's coal-based industries. Also, North China has fewer reserves of freshwater; thereby, increasing the demand for wastewater technologies, which, in turn, is providing opportunities for the membrane wastewater treatment market.
The demand for processed food in China has been exhibiting a significant growth rate over the past few years. The increasing demand for protein, dairy, and meat products is drastically increasing; the demand is more than the supply. This scenario is estimated to boost the demand for membranes for water treatment in the food processing industry.
China is also a hub for chemical processing, accounting for a major chunk of the chemicals produced globally. With the rising demand for various chemicals globally, the demand for membrane water & wastewater treatment from this sector is projected to increase during the forecast period.
Increasing water requirements from the industrial sector and changing government regulations for the prevention of water pollution and control action plan have increased the demand for membrane technology in recent years.
Moreover, according to government statistics, water shortage in China's coastal areas is expected to reach 21.4 billion m3 over the next eight years. This shortage of water for industrial and residential use is expected to increase the demand for water treatment technologies during the forecast period.
Hence, owing to the above-mentioned reasons, China is projected to witness the highest growth rate during the forecast period.

APAC Membrane Water & Wastewater Treatment Market Competitor Analysis

The membrane water & wastewater treatment market in Asia-Pacific is moderately fragmented in nature. The major players include Evoqua Water Technologies LLC, Aquatech International LLC., Kurita Water Industries Ltd., Kemira, and Suez, among others.

Additional Benefits:

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

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