Rising Wastewater Treatment Demand to Drive Membrane Bioreactor Market to USD 6.7 Billion by 2032

Membrane bioreactor technology is transforming wastewater into a valuable resource, ensuring sustainable water management for future generations.

Allied

WILMINGTON, DE, UNITED STATES, September 2, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, “Membrane Bioreactor Market by CONFIGURATION (Submerged, Side Stream), by PRODUCT (Hollow Fiber, Flat Sheet, Multi Tabular), by End Use Industry (Municipal, Industrial, Others): Global Opportunity Analysis and Industry Forecast, 2022 - 2032" The global membrane bioreactor market size was valued at $3.0 billion in 2022, and is projected to reach $6.7 billion by 2032, growing at a CAGR of 8.6% from 2023 to 2032.

The membrane bioreactor (MBR) market is witnessing significant growth due to rising concerns over water scarcity, stringent wastewater treatment regulations, and increasing adoption of advanced water recycling technologies. MBR systems, which combine biological wastewater treatment with membrane filtration, are gaining popularity across municipal, industrial, and commercial sectors for their ability to produce high-quality effluent suitable for reuse.

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The growing demand for clean water across urban and industrial areas is a key driver for the membrane bioreactor market. Rapid urbanization and industrialization have put immense pressure on freshwater resources, boosting the need for efficient wastewater treatment solutions like MBR.

Regulatory support also plays a pivotal role in driving adoption. Governments worldwide are implementing strict wastewater discharge standards and promoting water reuse, encouraging industries and municipalities to shift toward advanced treatment technologies.

Technological advancements in membrane filtration are further contributing to market expansion. Modern MBR systems feature improved membrane durability, reduced fouling, and energy efficiency, lowering overall operating costs and making them more attractive to end-users.

However, high installation and maintenance costs remain major restraints to widespread adoption, particularly in developing economies. Smaller municipalities and industries may find it challenging to implement MBR systems without subsidies or incentives.

On the opportunity side, the growing focus on circular economy practices, particularly in water recycling and reuse, creates strong prospects for MBR adoption. Integration with smart monitoring systems and IoT-enabled wastewater management solutions is expected to enhance efficiency and widen market penetration in the future.

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The membrane bioreactor market overview is segmented by membrane type (hollow fiber, flat sheet, and multi-tubular), system configuration (submerged and external), application (municipal and industrial), and region. Among these, the municipal wastewater treatment segment dominates the market, while the industrial sector, particularly food & beverage and pharmaceuticals, is expected to grow rapidly due to increasing sustainability goals.

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North America and Europe hold a significant share of the MBR market, driven by strict environmental regulations, advanced infrastructure, and early adoption of water reuse technologies. The U.S., Germany, and the U.K. remain leading contributors due to high investment in wastewater management.

Meanwhile, Asia-Pacific is projected to grow at the fastest pace, led by China, India, and Southeast Asian nations. Rapid urban growth, water shortages, and government initiatives for sustainable water management are driving demand for advanced treatment systems in the region.

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The membrane bioreactor market is moderately consolidated, with key players focusing on

technological innovation, strategic partnerships, and expansion into emerging markets. Companies are investing in R&D to develop energy-efficient and low-maintenance MBR systems to meet diverse industrial and municipal needs.

Major players in the market include SUEZ Water Technologies & Solutions, Kubota Corporation, Mitsubishi Chemical Aqua Solutions, Toray Industries, and Veolia Water Technologies. These companies are strengthening their portfolios through collaborations and acquisitions while expanding service capabilities to enhance customer retention.

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1. Rising water scarcity and regulatory pressures are key market drivers.
2. Municipal wastewater treatment remains the largest application segment.
3. Asia-Pacific is expected to lead future growth due to urbanization and industrialization.
4. High installation and operational costs remain barriers to adoption.
5. Integration with digital monitoring and automation is shaping the next phase of MBR evolution.

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