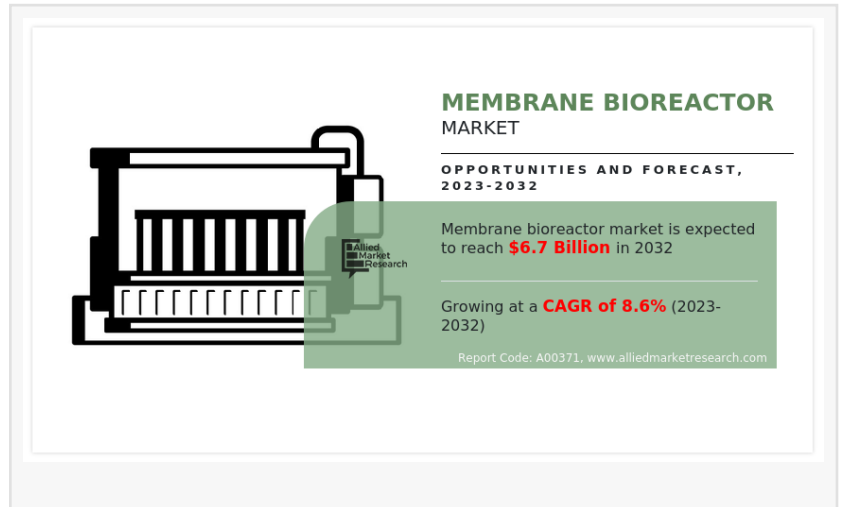


Membrane Bioreactor Market to Reach \$6.7 Billion by 2032, Driven by Sustainable Wastewater Treatment Demand

Rising Environmental Awareness Powers Growth in Membrane Bioreactor Market, Forecasted to Double by 2032

WILMINGTON, DE, UNITED STATES, October 16, 2025 /EINPresswire.com/ -- According to a recent report by Allied Market Research, the global [membrane bioreactor \(MBR\) market](#) size was valued at \$3 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 rising focus on water conservation, sustainability, and stricter environmental regulations are key factors driving market growth globally.



Membrane bioreactors combine biological wastewater treatment with membrane filtration, delivering superior water quality compared to conventional systems. These advanced systems effectively remove organic matter, nutrients (nitrogen and phosphorus), suspended solids, and pathogens, producing clean effluent suitable for reuse and environmental discharge.

“

Global membrane bioreactor market to hit \$6.7B by 2032, fueled by water scarcity, sustainability goals & strict wastewater norms. ”

Allied Market Research

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□ Key Market Drivers

Stringent wastewater discharge regulations promoting sustainable treatment technologies.

Rising water scarcity and the need for recycled water in industrial processes.

Technological improvements in membrane durability and operational efficiency.

Growing urban population demanding better municipal wastewater management.

Shift toward decentralized wastewater systems in developing regions.

□ Expanding Applications of Membrane Bioreactors

MBRs have become essential in both municipal and industrial wastewater treatment applications. They are increasingly used in industries such as food & beverage, chemicals, textiles, and pharmaceuticals, where complex wastewater compositions demand efficient treatment technologies.

The treated water from MBRs is often reused for irrigation, industrial cooling, and other non-potable purposes, reducing freshwater consumption. Their compact design and decentralized operation make them ideal for remote areas, small communities, and environmentally sensitive zones.

In addition, high-strength industrial wastewaters, including landfill leachate and waste with high salinity or extreme pH**, can be effectively treated using MBR technology. This versatility positions membrane bioreactors as a leading solution for modern wastewater challenges.

□ Sustainability and Technological Advancements

Growing global concern for sustainability and climate resilience has fueled the adoption of [environmentally friendly wastewater technologies](#). MBRs align perfectly with these goals by producing high-quality treated water, minimizing pollutants, and enabling water recycling.

Technological innovations such as enhanced membrane materials, automated cleaning systems, and energy-efficient configurations have significantly improved MBR performance. These advancements not only enhance treatment capacity but also reduce fouling and operational costs, making MBRs more viable for large-scale deployment.

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□□ Market Segmentation Insights

1. By Product Type: The hollow fiber segment dominated the membrane bioreactor market in 2022, offering a large surface area for filtration within a compact design. This efficiency ensures effective separation of solids and microorganisms, contributing to widespread adoption in municipal and industrial sectors.

2. By Configuration: The submerged configuration accounted for the largest market share in 2022. In this setup, membrane modules are directly immersed in mixed liquor, minimizing fouling and extending operational life. The continuous water flow across the membrane helps reduce maintenance frequency and enhances system reliability.
3. By End-Use Industry: The municipal segment led the market in 2022 due to increasing urban wastewater volumes and stricter environmental regulations. However, the industrial segment is expected to grow at the highest CAGR, driven by demand for advanced wastewater treatment in manufacturing, pharmaceuticals, and food processing industries.
4. By Region: The Asia-Pacific region dominated the global market in 2022 and is projected to maintain this lead through 2032. Rapid urbanization, industrial expansion, and water scarcity concerns in countries such as China, India, and Japan are key factors driving adoption. Moreover, government initiatives promoting sustainable wastewater management further support regional growth.

□ Key Market Players

Leading players operating in the global [membrane bioreactor industry](#) include:

Toray Industries, Inc.

KUBOTA Corporation

Koch Separation Solutions

Mitsubishi Chemical Corporation

Evoqua Water Technologies LLC

Veolia Water Technologies

General Electric

WEHRLE-WERK AG

Asahi Kasei Corporation

Aquatech International LLC

These companies focus on product innovation, strategic partnerships, and technological enhancements to expand their global footprint.

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□ Future Outlook

The membrane bioreactor market is poised for strong growth as industries and municipalities increasingly adopt eco-efficient solutions to tackle global water challenges. With continuous innovation, MBR systems are expected to become smarter, more compact, and cost-effective, helping bridge the gap between water scarcity and environmental preservation.

By 2032, the membrane bioreactor market is set to play a pivotal role in advancing sustainable wastewater treatment, reducing pollution, and ensuring a cleaner, greener future. □□

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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