

# **Membrane Bioreactor (MBR) Market Report by System Configuration (Submerged, Side Stream), Membrane Type (Hollow Fiber, Flat Sheet, Multi-Tubular, and Others), Application (Municipal Waste-Water Treatment, Industrial Waste-Water Treatment, and Others), and Region 2024-2032**

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## **Abstracts**

The global membrane bioreactor (MBR) market size reached US\$ 4.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 8.6 Billion by 2032, exhibiting a growth rate (CAGR) of 8.7% during 2024-2032.

A membrane bioreactor (MBR) is primarily used for industrial and municipal wastewater treatment. It is an integration of a perm-selective or semi-permeable membrane process, such as microfiltration (MF) or ultrafiltration (UF), with a suspended growth bioreactor. Vacuum or gravity-driven and pressure-driven systems are the most commonly used types of MBR systems. They ensure that the floating matter is retained, and the sediments are separated from the sludge concentration. In comparison to the traditionally used methods, they have controlled biomass retention, improved effluent quality, minimal carbon footprint and are effective against pathogens, such as cryptosporidium and giardia.

The market is primarily being driven by the growing demand for water treatment solutions across the globe. This can be attributed to the declining freshwater resources and steadily increasing demand for chemical-free and safe drinking water from the residential sector. Furthermore, rising environmental concerns regarding efficient sanitation and wastewater disposal are also providing a boost to the market growth. There has been a significant increase in the production of wastewater across the

residential, commercial and industrial complexes that is now treated through MBRs. Additionally, the development of submerged MBRs is acting as another growth-inducing factor. These systems are cost- and energy-efficient, compact, lightweight and can create aeration to generate tangential liquid flow around the membranes. Apart from this, the increasing utilization of environment-friendly water and wastewater management technologies across industries, including chemical, pharmaceutical, power, food and beverage, and textile, is also contributing to the market growth. Other factors, including rapid industrialization and the implementation of favorable government policies for upgrading the existing wastewater treatment plants with MBRs, are projected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global membrane bioreactor (MBR) market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on system configuration, membrane type and application.

#### Breakup by System Configuration:

- Submerged
- Side Stream

#### Breakup by Membrane Type:

- Hollow Fiber
- Flat Sheet
- Multi-Tubular
- Others

#### Breakup by Application:

- Municipal Waste-Water Treatment
- Industrial Waste-Water Treatment
- Others

#### Breakup by Region:

- North America

United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States membrane bioreactor (MBR) market and Canada), Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others), Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others), Latin America (Brazil, Mexico, and others), and the Middle East and Africa.

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being ADI Systems, Alfa Laval, Aquatech International Corporation, Asahi Kasei, Bioprocessh2o LLC, Culligan, Evoqua Water Technologies LLC, GE Water & Process Technologies, GLV Groups, Huber SE, Koch Membrane Systems Inc., Kubota Corporation, Mitsubishi Rayon Co. Ltd., Suez, Toray Industries Inc., CITIC Envirotech Ltd., Veolia Water, Wehrle, etc.

## Key Questions Answered in This Report

1. What is the expected growth rate of the global membrane bioreactor (MBR) market?
2. What are the key factors driving the global membrane bioreactor (MBR) market?
3. What has been the impact of COVID-19 on the global membrane bioreactor (MBR) market?
4. What is the breakup of the global membrane bioreactor (MBR) market based on the system configuration?
5. What is the breakup of the global membrane bioreactor (MBR) market based on the membrane type?
6. What is the breakup of the global membrane bioreactor (MBR) market based on the application?
7. What are the key regions in the global membrane bioreactor (MBR) market?
8. Who are the key companies/players in the global membrane bioreactor (MBR) market?

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