

Global Membrane Bioreactor Systems Market Size Study & Forecast, by Membrane Type, Application, Flow Rate Capacity, Configuration, End-User and Regional Forecasts 2025-2035

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Abstracts

Global Membrane Bioreactor (MBR) Systems Market is valued approximately at USD 6.48 billion in 2024 and is anticipated to grow with a robust CAGR of 8.40% over the forecast period 2025–2035. MBR systems—integrating biological wastewater treatment with membrane filtration—are revolutionizing the landscape of modern water and wastewater management by delivering superior effluent quality and operational efficiency. These systems are increasingly being deployed across municipal, industrial, and commercial applications, driven by mounting water scarcity concerns, tightening environmental regulations, and escalating demand for water reuse and recycling. The synergy of compact design, lower sludge production, and ability to operate under high mixed liquor suspended solids (MLSS) concentrations makes MBR a compelling alternative to conventional activated sludge processes.

As nations tackle the dual challenge of urbanization and industrialization, the urgency to implement reliable, scalable, and cost-effective wastewater treatment technologies has intensified. The MBR market has been propelled by growing adoption across municipal sewage treatment facilities and industrial operations—particularly in sectors such as food & beverage, pharmaceuticals, and electronics manufacturing. Among membrane configurations, submerged MBR systems dominate owing to their ease of operation and maintenance. Meanwhile, advances in flat sheet and hollow fiber membranes are unlocking longer lifespan and energy-efficient performance. However, widespread deployment is still curtailed by high capital and operational costs, membrane fouling issues, and the need for skilled personnel for system integration and monitoring.

Regionally, Asia Pacific is poised to lead the global MBR systems market throughout the forecast horizon, fueled by rapid urban infrastructure development, growing population, and increasingly stringent water discharge norms across countries like China, India, and South Korea. Government initiatives promoting sustainable water management and industrial zero-liquid discharge (ZLD) compliance are also accelerating the uptake of MBR systems. North America remains a mature yet growing market owing to its aging wastewater infrastructure and rising emphasis on decentralized treatment facilities. Europe continues to set the benchmark for environmental compliance and reuse mandates, especially in Germany, France, and the Netherlands. Emerging economies in Latin America and the Middle East & Africa are recognizing the potential of MBR for scalable water reuse in arid and semi-arid regions.

Major market player included in this report are:

Suez Water Technologies & Solutions

Toray Industries Inc.

Evoqua Water Technologies

Mitsubishi Chemical Aqua Solutions Co., Ltd.

Koch Separation Solutions

Alfa Laval AB

Veolia Environnement S.A.

Kubota Corporation

Xylem Inc.

GE Water & Process Technologies

Aquatech International LLC

Huber SE

CITIC Envirotech Ltd.

Siemens Water Technologies

BioprocessH2O LLC

Global Membrane Bioreactor Systems Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Membrane Type:

Hollow Fiber Membrane

Flat Sheet Membrane

Tubular Membrane

Spiral Wound Membrane

By Application:

Municipal Wastewater Treatment

Industrial Wastewater Treatment

Water Reuse

Food and Beverage Processing

Pharmaceutical Manufacturing

By Flow Rate Capacity:

Less than 50,000 GPD

50,000 - 250,000 GPD

250,000 - 1,000,000 GPD

Over 1,000,000 GPD

By Configuration:

Submerged MBR

External MBR

Integrated MBR

Sequencing Batch Reactor MBR

By End-User:

Municipalities

Industries

Utilities

Commercial Buildings

Residential Developments

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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