

# Global MABR Membrane Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global MABR Membrane market size was valued at US\$ 31.99 million in 2025 and is forecast to a readjusted size of US\$ 47.72 million by 2032 with a CAGR of 5.6% during review period.

MABR membrane refers to the gas-transfer membrane material and core membrane element used in membrane aerated biofilm reactor systems. It serves two functions simultaneously: as the oxygen delivery interface and as the biofilm attachment surface. In operation, air or oxygen-enriched gas is supplied from the membrane side and diffuses through the membrane without visible bubbles, enabling counter-diffusion biofilm growth and efficient simultaneous nitrification-denitrification.

The upstream of the MABR membrane value chain consists mainly of polymer resins and specialty additives, including PVDF, PTFE, PP, PE, and PDMS/silicone-based materials, together with headers, spacers, supports, potting resin, air manifolds, and frames. Downstream customers include water technology vendors, OEMs, EPC contractors, utilities, and industrial end users, with major demand coming from municipal wastewater upgrades, retrofit intensification, industrial nitrogen removal, decentralized sewage treatment, and ecological water restoration.

In 2025, global MABR membrane production reached approximately 1,700 K Sqm, with an average global market price is \$18 per sqm.

MABR systems offer a compelling combination of operational advantages and technical challenges. Key benefits include enhanced nitrogen removal efficiency, reduced aeration energy demand, compact footprint, lower sludge production, and applicability

for retrofit and decentralized solutions. Meanwhile, limitations such as membrane fouling, the need for robust materials with long service life, and the optimization of process control under varying influent conditions remain topics of ongoing research and engineering refinement. These factors will shape the trajectory of MABR adoption and innovation in the medium term. The development of Membrane Aerated Biofilm Reactor (MABR) technology reflects a dynamic and project-driven adoption landscape rather than a steady linear growth. Global demand for MABR installations has exhibited temporal and regional fluctuations, strongly influenced by project scale, funding cycles, regulatory drivers, and the specific classification of applications. As jurisdictions prioritize different environmental and infrastructure outcomes, the volume of new MABR deployments may rise or fall accordingly, rather than conform to a uniform annual increase.

Regionally, MABR adoption is concentrated in China, North America, Europe, and Southeast Asia, where regulatory pressure on nutrient discharge, infrastructure renewal needs, and growing interest in energy-efficient wastewater solutions have supported both pilot projects and scaled deployments. Among these regions, China currently appears to be the most active application market, benefiting from a broader mix of municipal wastewater upgrading, capacity expansion, and surface water ecological restoration projects than most other markets.

From a technical classification perspective, MABR applications can be grouped based on membrane configuration into two primary categories: Hollow Fiber Membrane and Flat Sheet Membrane. Hollow fiber membranes typically provide high surface-area-to-volume ratios and efficient internal oxygen transfer pathways, making them suitable for compact, high-capacity installations. However, their fine filament structure can be more mechanically sensitive and prone to issues such as entanglement or fouling that are harder to remediate without full module replacement. In contrast, flat sheet membranes offer modular simplicity and design flexibility, and tend to exhibit better resistance to contamination and fouling because the flat membranes can be arranged with controlled gaps and gas-liquid flow to scour the surface more effectively.

In terms of end-use segmentation, MABR applications can be broadly categorized into Municipal Wastewater, Surface Water Ecological Restoration, and Others. Municipal wastewater treatment remains the largest and most mature sector, largely driven by stringent effluent nutrient limits and demand for retrofit solutions in aging treatment systems.

This report is a detailed and comprehensive analysis for global MABR Membrane market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global MABR Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global MABR Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global MABR Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global MABR Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MABR Membrane

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MABR Membrane market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Fluence Corporation, Hydroking Tech, Veolia, DuPont OxyMem, Green Source Environmental Protection Technology, Jiangsu Julan Nano, LEDON-TECH, Oxymo Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

MABR Membrane market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Hollow Fiber Membrane

Flat Sheet Membrane

### Market segment by Membrane Configuration

Hollow Fiber Type

Flat Plate Type

Spiral Coil Type

Tube Type

### Market segment by Material

Polyvinylidene fluoride (PVDF)

Polypropylene (PP)

Others

### Market segment by Application

Surface Water Ecological Restoration

Municipal Sewage

Others

Major players covered

Fluence Corporation

Hydroking Tech

Veolia

DuPont OxyMem

Green Source Environmental Protection Technology

Jiangsu Julan Nano

LEDON-TECH

Oxymo Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe MABR Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MABR Membrane, with price, sales quantity, revenue, and global market share of MABR Membrane from 2021 to 2026.

Chapter 3, the MABR Membrane competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MABR Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MABR Membrane market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MABR Membrane.

Chapter 14 and 15, to describe MABR Membrane sales channel, distributors, customers, research findings and conclusion.

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