

# Global Membrane Bioreactor Market Size study & forecast, by Product (Hollow Fiber, Flat Sheet, Multi-tubular) by Configuration (Submerged, Side Stream), by Application (Municipal, Industrial) and Regional Analysis, 2022-2029

<https://marketpublishers.com/r/GF5E99B848F1EN.html>

Date: May 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GF5E99B848F1EN

## Abstracts

Global Membrane Bioreactor Market is valued approximately USD XXX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2029. Membrane Bioreactors (MBR) are biological treatment methods using semi-permeable or perm-selective membranes. This method is frequently used in the treatment of municipal and commercial wastewater and uses a membrane process, such as ultrafiltration or microfiltration, with a bioreactor with suspended growth. The primary benefits of a membrane bioreactor include the elimination of secondary and tertiary filtering processes and a reduction in the size of the plant as a result. In some cases, the footprint can be further decreased by eliminating additional process units like digesters or UV disinfection. The Membrane Bioreactor, or MBR, is based on the conventional wastewater treatment method, but membrane filtration is used to obtain microorganism separation. The key factor driving the market growth is rising demand for advanced wastewater treatment technology for more efficient and high-quality treated water, substantial increase in investments in wastewater treatment plants, and limited availability of fresh water and depleting water reserves that anticipated to support the market growth during forecast period.

However, the growing industrial wastewater treatment industry is a significant driver of the membrane bioreactor (MBR) market. MBR is a type of wastewater treatment process that combines biological treatment and membrane filtration in a single step, providing an effective and efficient solution for treating wastewater. Thus, the rising industrial wastewater treatment market is anticipated to support the market growth.

According to Statista, in 2019, the North America industrial wastewater treatment industry was valued at USD 4.2 billion and it is anticipated to reach USD 5.4 billion by 2024. Additionally, the growing technological advancements in membrane bioreactors is anticipated to create the lucrative opportunities for the market during forecast period. However, the high cost of Membrane Bioreactor stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Membrane Bioreactor Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific is the dominating region across the world in terms of market share, owing to the presence of key market players and rising demand in chemical, food & beverage, pharmaceutical, and oil & gas industries in the region. Whereas, North America is also anticipated to exhibit highest growth rate over the forecast period, owing to factors such as rising development in pharmaceutical, chemical, and automotive manufacturing facilities. Growing demand for wastewater treatment, rising immigration, and technological advancement would create lucrative growth prospects for the Membrane Bioreactor market across the Asia Pacific region.

Major market player included in this report are:

General Electric  
B&P Water Technologies S.r.l.  
CITIC Envirotech Ltd.  
MANN+HUMMEL Water & Fluid Solutions  
Calgon Carbon Corporation  
Veolia  
Reynolds Culligan  
Mitsubishi Chemical Corporation  
Aquatech International LLC  
Danaher Corporation

Recent Developments in the Market:

In October 2020, Toray Membrane USA, Inc., a division of TORAY INDUSTRIES, INC, signed a contract with M|MBR Systems, LLC to offer MBR solutions using TORAY's membrane technologies to municipal and industrial customers in the US.

Global Membrane Bioreactor Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

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

Segments Covered Product, Configuration, Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's 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 to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Hollow Fiber

Flat Sheet

Multi-tubular

By Configuration:

Submerged

Side Stream

By Application:

Municipal

Industrial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
RoLA  
Rest of the World

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Billion)
  - 1.2.1. Membrane Bioreactor Market, by Region, 2019-2029 (USD Billion)
  - 1.2.2. Membrane Bioreactor Market, by Product, 2019-2029 (USD Billion)
  - 1.2.3. Membrane Bioreactor Market, by Configuration, 2019-2029 (USD Billion)
  - 1.2.4. Membrane Bioreactor Market, by Application, 2019-2029 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL MEMBRANE BIOREACTOR MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL MEMBRANE BIOREACTOR MARKET DYNAMICS**

- 3.1. Membrane Bioreactor Market Impact Analysis (2019-2029)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Rising demand for advanced wastewater treatment technology for more efficient and high-quality treated water
    - 3.1.1.2. Substantial increase in investments in wastewater treatment plants
    - 3.1.1.3. Limited availability of fresh water and depleting water reserves
  - 3.1.2. Market Challenges
    - 3.1.2.1. High Cost of Membrane Bioreactor
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Growing technological advancements in membrane bioreactors

### **CHAPTER 4. GLOBAL MEMBRANE BIOREACTOR MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. Industry Experts Prospective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

## **CHAPTER 6. GLOBAL MEMBRANE BIOREACTOR MARKET, BY PRODUCT**

- 6.1. Market Snapshot
- 6.2. Global Membrane Bioreactor Market by Product, Performance - Potential Analysis
- 6.3. Global Membrane Bioreactor Market Estimates & Forecasts by Product 2019-2029 (USD Billion)
- 6.4. Membrane Bioreactor Market, Sub Segment Analysis
  - 6.4.1. Hollow Fiber
  - 6.4.2. Flat Sheet
  - 6.4.3. Multi-tubular

## **CHAPTER 7. GLOBAL MEMBRANE BIOREACTOR MARKET, BY CONFIGURATION**

- 7.1. Market Snapshot
- 7.2. Global Membrane Bioreactor Market by Configuration, Performance - Potential Analysis
- 7.3. Global Membrane Bioreactor Market Estimates & Forecasts by Configuration

2019-2029 (USD Billion)

7.4. Membrane Bioreactor Market, Sub Segment Analysis

7.4.1. Submerged

7.4.2. Side Stream

## **CHAPTER 8. GLOBAL MEMBRANE BIOREACTOR MARKET, BY APPLICATION**

8.1. Market Snapshot

8.2. Global Membrane Bioreactor Market by Application, Performance - Potential Analysis

8.3. Global Membrane Bioreactor Market Estimates & Forecasts by Application 2019-2029 (USD Billion)

8.4. Membrane Bioreactor Market, Sub Segment Analysis

8.4.1. Municipal

8.4.2. Industrial

## **CHAPTER 9. GLOBAL MEMBRANE BIOREACTOR MARKET, REGIONAL ANALYSIS**

9.1. Membrane Bioreactor Market, Regional Market Snapshot

9.2. North America Membrane Bioreactor Market

9.2.1. U.S. Membrane Bioreactor Market

9.2.1.1. Product breakdown estimates & forecasts, 2019-2029

9.2.1.2. Configuration breakdown estimates & forecasts, 2019-2029

9.2.1.3. Application breakdown estimates & forecasts, 2019-2029

9.2.2. Canada Membrane Bioreactor Market

9.3. Europe Membrane Bioreactor Market Snapshot

9.3.1. U.K. Membrane Bioreactor Market

9.3.2. Germany Membrane Bioreactor Market

9.3.3. France Membrane Bioreactor Market

9.3.4. Spain Membrane Bioreactor Market

9.3.5. Italy Membrane Bioreactor Market

9.3.6. Rest of Europe Membrane Bioreactor Market

9.4. Asia-Pacific Membrane Bioreactor Market Snapshot

9.4.1. China Membrane Bioreactor Market

9.4.2. India Membrane Bioreactor Market

9.4.3. Japan Membrane Bioreactor Market

9.4.4. Australia Membrane Bioreactor Market

9.4.5. South Korea Membrane Bioreactor Market

- 9.4.6. Rest of Asia Pacific Membrane Bioreactor Market
- 9.5. Latin America Membrane Bioreactor Market Snapshot
  - 9.5.1. Brazil Membrane Bioreactor Market
  - 9.5.2. Mexico Membrane Bioreactor Market
  - 9.5.3. Rest of Latin America Membrane Bioreactor Market
- 9.6. Rest of The World Membrane Bioreactor Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Top Market Strategies
- 10.2. Company Profiles
  - 10.2.1. General Electric
    - 10.2.1.1. Key Information
    - 10.2.1.2. Overview
    - 10.2.1.3. Financial (Subject to Data Availability)
    - 10.2.1.4. Product Summary
    - 10.2.1.5. Recent Developments
  - 10.2.2. B&P Water Technologies S.r.l.
  - 10.2.3. CITIC Envirotech Ltd.
  - 10.2.4. MANN+HUMMEL Water & Fluid Solutions
  - 10.2.5. Calgon Carbon Corporation
  - 10.2.6. Veolia
  - 10.2.7. Reynolds Culligan
  - 10.2.8. Mitsubishi Chemical Corporation
  - 10.2.9. Aquatech International LLC
  - 10.2.10. Danaher Corporation

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
  - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption



## List Of Tables

### LIST OF TABLES

TABLE 1. Global Membrane Bioreactor Market, report scope

TABLE 2. Global Membrane Bioreactor Market estimates & forecasts by Region  
2019-2029 (USD Billion)

TABLE 3. Global Membrane Bioreactor Market estimates & forecasts by Product  
2019-2029 (USD Billion)

TABLE 4. Global Membrane Bioreactor Market estimates & forecasts by Configuration  
2019-2029 (USD Billion)

TABLE 5. Global Membrane Bioreactor Market estimates & forecasts by Application  
2019-2029 (USD Billion)

TABLE 6. Global Membrane Bioreactor Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 7. Global Membrane Bioreactor Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 8. Global Membrane Bioreactor Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 9. Global Membrane Bioreactor Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 10. Global Membrane Bioreactor Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 11. Global Membrane Bioreactor Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 12. Global Membrane Bioreactor Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 13. Global Membrane Bioreactor Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 14. Global Membrane Bioreactor Market by segment, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 15. Global Membrane Bioreactor Market by region, estimates & forecasts,  
2019-2029 (USD Billion)

TABLE 16. U.S. Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD  
Billion)

TABLE 17. U.S. Membrane Bioreactor Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 18. U.S. Membrane Bioreactor Market estimates & forecasts by segment  
2019-2029 (USD Billion)

TABLE 19. Canada Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 20. Canada Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 21. Canada Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 22. UK Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 23. UK Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 24. UK Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 25. Germany Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 26. Germany Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 27. Germany Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 28. France Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 29. France Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 30. France Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 31. Italy Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 32. Italy Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 33. Italy Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 34. Spain Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 35. Spain Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 36. Spain Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 37. RoE Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 38. RoE Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 39. RoE Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 40. China Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 41. China Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 42. China Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 43. India Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 44. India Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 45. India Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 46. Japan Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 47. Japan Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 48. Japan Membrane Bioreactor Market estimates & forecasts by segment

2019-2029 (USD Billion)

TABLE 49. South Korea Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 50. South Korea Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 51. South Korea Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 52. Australia Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 53. Australia Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 54. Australia Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 55. RoAPAC Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 56. RoAPAC Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 57. RoAPAC Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 58. Brazil Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 59. Brazil Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 60. Brazil Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 61. Mexico Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 62. Mexico Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 63. Mexico Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 64. RoLA Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 65. RoLA Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 66. RoLA Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 67. Row Membrane Bioreactor Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 68. Row Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 69. Row Membrane Bioreactor Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Membrane Bioreactor Market

TABLE 71. List of primary sources, used in the study of global Membrane Bioreactor Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Membrane Bioreactor Market, research methodology
  - FIG 2. Global Membrane Bioreactor Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Membrane Bioreactor Market, key trends 2021
  - FIG 5. Global Membrane Bioreactor Market, growth prospects 2022-2029
  - FIG 6. Global Membrane Bioreactor Market, porters 5 force model
  - FIG 7. Global Membrane Bioreactor Market, pest analysis
  - FIG 8. Global Membrane Bioreactor Market, value chain analysis
  - FIG 9. Global Membrane Bioreactor Market by segment, 2019 & 2029 (USD Billion)
  - FIG 10. Global Membrane Bioreactor Market by segment, 2019 & 2029 (USD Billion)
  - FIG 11. Global Membrane Bioreactor Market by segment, 2019 & 2029 (USD Billion)
  - FIG 12. Global Membrane Bioreactor Market by segment, 2019 & 2029 (USD Billion)
  - FIG 13. Global Membrane Bioreactor Market by segment, 2019 & 2029 (USD Billion)
  - FIG 14. Global Membrane Bioreactor Market, regional snapshot 2019 & 2029
  - FIG 15. North America Membrane Bioreactor Market 2019 & 2029 (USD Billion)
  - FIG 16. Europe Membrane Bioreactor Market 2019 & 2029 (USD Billion)
  - FIG 17. Asia pacific Membrane Bioreactor Market 2019 & 2029 (USD Billion)
  - FIG 18. Latin America Membrane Bioreactor Market 2019 & 2029 (USD Billion)
  - FIG 19. Global Membrane Bioreactor Market, company Market share analysis (2021)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## I would like to order

Product name: Global Membrane Bioreactor Market Size study & forecast, by Product (Hollow Fiber, Flat Sheet, Multi-tubular) by Configuration (Submerged, Side Stream), by Application (Municipal, Industrial) and Regional Analysis, 2022-2029

Product link: <https://marketpublishers.com/r/GF5E99B848F1EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GF5E99B848F1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970