

Membrane Separation Technology Market Size, Share & Trends Analysis Report By Technology (Microfiltration, Ultrafiltration, Nanofiltration, Reverse Osmosis), By Application, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Membrane Separation Technology Market Growth & Trends

The global membrane separation technology market size is expected to reach USD 62.45 billion by 2030 expanding at a CAGR of 12.2% during the forecast period, according to a new report by Grand View Research, Inc. This growth can be attributed to the growing population that has accelerated the depletion of water resources coupled with the contamination of ground and surface water bodies, which has encouraged the adoption of water treatment processes and thus increased the demand for membrane separation technology.

Industry participants in collaboration with research institutes are undertaking various R&D projects to improve and accelerate the membrane separation manufacturing technology. Increasing investments and continuous R&D in membrane separation technology have led to the introduction of products with enhanced durability and higher flow rates. Moreover, manufacturers are developing industry applications to address the specific requirements of the end-use industries.

Technological advancements related to durability enhancement and reduction of fouling potential are expected to have a favorable impact on the widespread adoption of membrane separation technologies. Manufacturers have also developed membrane

separation technology that can withstand high operating temperatures and harsh chemical environments. Moreover, advancements in manufacturing technologies have enabled manufacturers to make considerable improvements in increasing the membrane surface area per module.

The high prices associated with membrane modules have been posing a major challenge to membrane separation technology. High prices of principal raw materials such as Polyethersulfone (PES) and Polyvinylidene Fluoride (PVDF) coupled with complicated manufacturing processes are the principal factors driving up the membrane separation prices.

Manufacturers of membrane separation technology distribute their products through third-party distributors or often opt for direct distribution. As the product finds a wide range of applications in the industrial sector, manufacturers often cater to this sector through filtration equipment manufacturers and system integrators through direct distribution.

Membrane Separation Technology Market Report Highlights

Water & wastewater treatment accounted for the highest share of 46.1% in 2021 due to the rapidly increasing global population coupled with rising industrialization and urbanization exerting considerable stress on the existing freshwater resources. Furthermore, the changing rainfall pattern and overexploitation of groundwater resources are expected to have an adverse impact on the availability of water which in turn is expected to increase the demand for membrane separation technology

The reverse osmosis technology segment led the market in 2021 and is growing at a CAGR of 12.2% over the forecast period 2022-2030, owing to the rising scarcity of freshwater resources across the world. Countries such as China, India, the U.S., the UK, and Saudi Arabia are making considerable investments in the development of new desalination plants. As a result, the reverse osmosis segment is expected to witness considerable growth over the forecast period

Asia Pacific is estimated to dominate the regional market for membrane separation technology and accounted for growth at a CAGR of 14.0%, owing to the rapid industrialization coupled with stringent regulations set by various governments to maintain environmental quality. The growth of industries such as chemicals, mining, and metal processing is expected to result in increased

discharge of pollutants into the environment. Thus, rising the need for wastewater treatment, which in turn is expected to drive the demand for membrane separation technology

The market demand was hampered owing to the global outbreak of the COVID pandemic in 2020. Supply of raw materials and finished goods has been hampered owing to restrictions on trade and manufacturing in some economies. However, gradual resumption of industrial activities and trade operations to smoothen economic conditions, several economies are offering ease in trade operations, thus, positively impacting the market.

The industry is identified by a small number of participants competing for market share. Developing economies are presumed to offer ample growth and development opportunities to companies. The application of reverse osmosis in seawater desalination is further expected to increase the rivalry.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 GVR'S Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Third Party Perspective
 - 1.3.5 Primary Research
- 1.4 Information Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation and Data Visualization
- 1.6 List of data sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook 2021
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MEMBRANE SEPARATION TECHNOLOGY MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1 Penetration & Growth Prospect Mapping
- 3.2 Membrane Separation Technology Market - Value Chain Analysis
- 3.3 Raw Material Trends
 - 3.3.1 Polyethersulfone (PES)
 - 3.3.2 Polyvinylidene Fluoride (PVDF)
- 3.4 Technological Roadmap
- 3.5 Impact of Macroeconomic Factors on the Membrane Separation Technology Market
 - 3.5.1 Growing Urbanization
 - 3.5.2 Growing Population
 - 3.5.3 Rapid Industrial Growth
 - 3.5.4 Increase in Per-Capita Income
- 3.6 Regulatory Framework
- 3.7 Market Dynamics

- 3.7.1 Market Driver Analysis
 - 3.7.1.1 Growing demand for water treatment
 - 3.7.1.2 Growing preference for reverse osmosis in desalination application
- 3.7.2 Market Restraint Analysis
 - 3.7.2.1 Fluctuations in raw material prices
- 3.7.3 Industry Challenges
 - 3.7.3.1 Raw material availability
 - 3.7.3.2 High prices
 - 3.7.3.3 High fouling potential
- 3.8 Business Environment Analysis: Membrane Separation Technology Market
 - 3.8.1 Industry Analysis - Porter's
 - 3.8.1.1 Supplier Power
 - 3.8.1.2 Buyer Power
 - 3.8.1.3 Threat of Substitution
 - 3.8.1.4 Threat from New Entrants
 - 3.8.1.5 Competitive Rivalry
 - 3.8.2 PESTEL Analysis
 - 3.8.2.1 Political Landscape
 - 3.8.2.2 Environmental Landscape
 - 3.8.2.3 Social Landscape
 - 3.8.2.4 Technology Landscape
 - 3.8.2.5 Economic Landscape
 - 3.8.2.6 Legal Landscape
- 3.9 Case Studies
 - 3.9.1 Sorek Desalination Plant
- 3.10 COVID-19 Impact

CHAPTER 4. MEMBRANE SEPARATION TECHNOLOGY MARKET: TECHNOLOGY ESTIMATES & TREND ANALYSIS

- 4.1 Definition & Scope
- 4.2 Membrane Separation Technology Market: Technology Movement Analysis, 2021 & 2030
- 4.3 Microfiltration
 - 4.3.1 Microfiltration Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)
- 4.4 Ultrafiltration
 - 4.4.1 Ultrafiltration Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

4.5 Nanofiltration

4.5.1 Nanofiltration Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

4.6 Reverse Osmosis

4.6.1 Reverse Osmosis Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

CHAPTER 5. MEMBRANE SEPARATION TECHNOLOGY MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

5.1 Definition & Scope

5.2 Membrane Separation Technology Market: Application Movement Analysis & Market Share, 2021 & 2030

5.3 Water & Wastewater Treatment

5.3.1 Membrane Separation Technology Market Estimates and Forecasts, In Water & Wastewater Treatment Application, 2017 - 2030 (USD Million)

5.4 Industry Processing

5.4.1 Membrane Separation Technology Market Estimates and Forecasts, In Industry Processing Application, 2017 - 2030 (USD Million)

5.5 Food & Beverage Processing

5.5.1 Membrane Separation Technology Market Estimates and Forecasts, In Food & Beverage Processing Application, 2017 - 2030 (USD Million)

5.6 Pharmaceutical & Medical

5.6.1 Membrane Separation Technology Market Estimates and Forecasts, In Pharmaceutical & Medical Application, 2017 - 2030 (USD Million)

5.7 Others

5.7.1 Membrane Separation Technology Market Estimates and Forecasts, In Other Application, 2017 - 2030 (USD Million)

CHAPTER 6. MEMBRANE SEPARATION TECHNOLOGY MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1 Membrane Separation Technology Market: Regional Movement Analysis, 2021 & 2030

6.2 North America

6.2.1 North America Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

6.2.2 North America Membrane Separation Technology Market Estimates and Forecasts, By Technology 2017 - 2030 (USD Million)

6.2.3 North America Membrane Separation Technology Market Estimates and Forecasts, By Application 2017 - 2030 (USD Million)

6.2.4 U.S.

6.2.4.1 U.S. Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.2.4.2 U.S. Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.2.4.3 U.S. Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.2.5 Canada

6.2.5.1 Canada Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.2.5.2 Canada Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.2.5.3 Canada Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.2.6 Mexico

6.2.6.1 Mexico Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.2.6.2 Mexico Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.2.6.3 Mexico Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3 Europe

6.3.1 Europe Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

6.3.2 Europe Membrane Separation Technology Market Estimates and Forecasts, By Technology 2017 - 2030 (USD Million)

6.3.3 Europe Membrane Separation Technology Market Estimates and Forecasts, By Application 2017 - 2030 (USD Million)

6.3.4 U.K.

6.3.4.1 U.K. Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.3.4.2 U.K. Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.4.3 U.K. Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3.5 Germany

6.3.5.1 Germany Membrane Separation Technology market estimates and forecasts,

2017 - 2030 (USD Million)

6.3.5.2 Germany Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.5.3 Germany Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3.6 France

6.3.6.1 France Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.3.6.2 France Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.6.3 France Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3.7 Italy

6.3.7.1 Italy Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.3.7.2 Italy Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.7.3 Italy Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3.8 Spain

6.3.8.1 Spain Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.3.8.2 Spain Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.8.3 Spain Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.3.9 Russia

6.3.9.1 Russia Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.3.9.2 Russia Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.3.9.3 Russia Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.4 Asia Pacific

6.4.1 Asia Pacific Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

6.4.2 Asia Pacific Membrane Separation Technology Market Estimates and Forecasts, By Technology 2017 - 2030 (USD Million)

6.4.3 Asia Pacific Membrane Separation Technology Market Estimates and Forecasts,

By Application 2017 - 2030 (USD Million)

6.4.4 China

6.4.4.1 China Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.4.4.2 China Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.4.4.3 China Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.4.5 Japan

6.4.5.1 Japan Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.4.5.2 Japan Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.4.5.3 Japan Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.4.6 India

6.4.6.1 India Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.4.6.2 India Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.4.6.3 India Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.4.7 Australia

6.4.7.1 Australia Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.4.7.2 Australia Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.4.7.3 Australia Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.4.8 South Korea

6.4.8.1 South Korea Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.4.8.2 South Korea Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.4.8.3 South Korea Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.5 Central & South America

6.5.1 Central & South America Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

6.5.2 Central & South America Membrane Separation Technology Market Estimates and Forecasts, By Technology 2017 - 2030 (USD Million)

6.5.3 Central & South America Membrane Separation Technology Market Estimates and Forecasts, By Application 2017 - 2030 (USD Million)

6.5.4 Brazil

6.5.4.1 Brazil Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.5.4.2 Brazil Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.5.4.3 Brazil Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.5.5 Argentina

6.5.5.1 Argentina Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.5.5.2 Argentina Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.5.5.3 Argentina Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.6 Middle East & Africa

6.6.1 Middle East & Africa Membrane Separation Technology Market Estimates and Forecasts, 2017 - 2030 (USD Million)

6.6.2 Middle East & Africa Membrane Separation Technology Market Estimates and Forecasts, By Technology 2017 - 2030 (USD Million)

6.6.3 Middle East & Africa Membrane Separation Technology Market Estimates and Forecasts, By Application 2017 - 2030 (USD Million)

6.6.4 Saudi Arabia

6.6.4.1 Saudi Arabia Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.6.4.2 Saudi Arabia Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.6.4.3 Saudi Arabia Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

6.6.5 South Africa

6.6.5.1 South Africa Membrane Separation Technology market estimates and forecasts, 2017 - 2030 (USD Million)

6.6.5.2 South Africa Membrane Separation Technology market estimates and forecasts, by Technology 2017 - 2030 (USD Million)

6.6.5.3 South Africa Membrane Separation Technology market estimates and forecasts, by Application 2017 - 2030 (USD Million)

CHAPTER 7. MEMBRANE SEPARATION TECHNOLOGY MARKET: COMPETITIVE ANALYSIS

7.1 Key global players & recent developments & their impact on the industry

7.2 Company Market Share

7.3 Key Company/Competition Categorization

7.4 Competitive Dashboard Analysis

7.5 Product Benchmarking (Top 10 Players)

7.5.1 Suez

7.5.2 Pall Corporation

7.5.3 Toray Industries Inc.

7.5.4 Pentair Plc

7.5.5 Dupont De Nemours, Inc.

7.5.6 Koch Membrane Systems, Inc.

7.5.7 Hydranautics

7.5.8 Asahi Kasei Corporation

7.5.9 GEA Group Aktiengesellschaft

7.5.10 3M Company

7.6 Public Companies SWOT

7.6.1 Strength

7.6.2 Weakness

7.6.3 Opportunity

7.6.4 Threats

CHAPTER 8. COMPANY PROFILES

8.1 Merck KGaA

8.1.1 Company Overview

8.1.2 Financial Performance

8.1.3 Product Benchmarking

8.2 Toray Industries, Inc.

8.2.1 Company Overview

8.2.2 Financial Performance

8.2.3 Product Benchmarking

8.3 Pentair plc

8.3.1 Company Overview

8.3.2 Financial Performance

8.3.3 Product Benchmarking

- 8.4 Hydranautics
 - 8.4.1 Company Overview
 - 8.4.2 Product Benchmarking
- 8.5 AXEON Water Technologies
 - 8.5.1 Company Overview
 - 8.5.2 Product Benchmarking
 - 8.5.3 Strategic Initiatives
- 8.6 GEA Group Aktiengesellschaft
 - 8.6.1 Company Overview
 - 8.6.2 Financial Performance
 - 8.6.3 Product Benchmarking
- 8.7 Hyflux Ltd.
 - 8.7.1 Company Overview
 - 8.7.2 Product Benchmarking
- 8.8 Koch Membrane Systems, Inc.
 - 8.8.1 Company Overview
 - 8.8.2 Product Benchmarking
- 8.9 Corning Incorporated
 - 8.9.1 Company Overview
 - 8.9.2 Financial Performance
 - 8.9.3 Product Benchmarking
- 8.10 Huber SE
 - 8.10.1 Company Overview
 - 8.10.2 Product Benchmarking
- 8.11 Pall Corporation
 - 8.11.1 Company Overview
 - 8.11.2 Product Benchmarking
- 8.12 3M Company
 - 8.12.1 Company Overview
 - 8.12.2 Financial Performance
 - 8.12.3 Product Benchmarking
- 8.13 SUEZ
 - 8.13.1 Company Overview
 - 8.13.2 Financial Performance
 - 8.13.3 Product Benchmarking
 - 8.13.4 Strategic Initiatives
- 8.14 Asahi Kasei Corporation
 - 8.14.1 Company Overview
 - 8.14.2 Financial Performance

- 8.14.3 Product Benchmarking
- 8.14.4 Strategic Initiatives
- 8.15 DuPont de Nemours, Inc.
 - 8.15.1 Company Overview
 - 8.15.2 Financial Performance
 - 8.15.3 Product Benchmarking
 - 8.15.4 Strategic Initiatives
- 8.16 Parker-Hannifin Corporation
 - 8.16.1 Company Overview
 - 8.16.2 Financial Performance
 - 8.16.3 Product Benchmarking
 - 8.16.4 Strategic Initiatives
- 8.17 Synder Filtration
 - 8.17.1 Company Overview
 - 8.17.2 Product Benchmarking
 - 8.17.3 Strategic Initiatives
- 8.18 Microdyn Nadir
 - 8.18.1 Company Overview
 - 8.18.2 Product Benchmarking
 - 8.18.3 Strategic Initiatives
- 8.19 Via Separations
 - 8.19.1 Company Overview
 - 8.19.2 Product Benchmarking
 - 8.19.3 Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 Microfiltration membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 2 Ultrafiltration membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 3 Nanofiltration membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 4 Reverse osmosis membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 5 Membrane separation technology market estimates and forecasts, in water & wastewater treatment application, 2017 - 2030 (USD Million)

Table 6 Membrane separation technology market estimates and forecasts, in industry processing application, 2017 - 2030 (USD Million)

Table 7 Membrane separation technology market estimates and forecasts, in food & beverage processing application, 2017 - 2030 (USD Million)

Table 8 Membrane separation technology market estimates and forecasts, in pharmaceutical & medical application, 2017 - 2030 (USD Million)

Table 9 Membrane separation technology market estimates and forecasts, in other applications, 2017 - 2030 (USD Million)

Table 10 North America membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 11 North America membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 12 North America membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 13 U.S. membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 14 U.S. membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 15 U.S. membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 16 Canada membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 17 Canada membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 18 Canada membrane separation technology market estimates and forecasts, by

application, 2017 - 2030 (USD Million)

Table 19 Mexico membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 20 Mexico membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 21 Mexico membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 22 Europe membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 23 Europe membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 24 Europe membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 25 U.K. membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 26 U.K. membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 27 U.K. membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 28 Germany membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 29 Germany membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 30 Germany membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 31 France membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 32 France membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 33 France membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 34 Italy membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 35 Italy membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 36 Italy membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 37 Spain membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 38 Spain membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 39 Spain membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 40 Russia membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 41 Russia membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 42 Russia membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 43 Asia Pacific membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 44 Asia Pacific membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 45 Asia Pacific membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 46 China membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 47 China membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 48 China membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 49 Japan membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 50 Japan membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 51 Japan membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 52 India membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 53 India membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 54 India membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 55 Australia membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 56 Australia membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 57 Australia membrane separation technology market estimates and forecasts, by

application, 2017 - 2030 (USD Million)

Table 58 South Korea membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 59 South Korea membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 60 South Korea membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 61 Central & South America membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 62 Central & South America membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 63 Central & South America membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 64 Brazil membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 65 Brazil membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 66 Brazil membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 67 Argentina membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 68 Argentina membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 69 Argentina membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 70 Middle East & Africa membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 71 Middle East & Africa membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 72 Middle East & Africa membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 73 Saudi Arabia membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 74 Saudi Arabia membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 75 Saudi Arabia membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

Table 76 South Africa membrane separation technology market estimates and forecasts, 2017 - 2030 (USD Million)

Table 77 South Africa membrane separation technology market estimates and forecasts, by technology, 2017 - 2030 (USD Million)

Table 78 South Africa membrane separation technology market estimates and forecasts, by application, 2017 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Pattern
- Fig. 3 Primary Research Process
- Fig. 4 Market research approaches - Bottom-Up Approach
- Fig. 5 Market research approaches - Top-Down Approach
- Fig. 6 Market research approaches - Combined Approach
- Fig. 7 Regional Outlook
- Fig. 8 Segmental Outlook
- Fig. 9 Competitive Outlook
- Fig. 10 Penetration & growth prospect mapping (USD Billion)
- Fig. 11 Membrane separation technology market - Value chain analysis
- Fig. 12 Membrane separation technology: Market dynamics
- Fig. 13 Membrane separation technology market driver impact analysis
- Fig. 14 Operational desalination facilities by technology (%)
- Fig. 15 Membrane separation technology market restraint impact analysis
- Fig. 16 Global Crude Oil Prices (Dollars Per Barrel)
- Fig. 17 Membrane separation technology market: Product movement analysis, 2021 & 2030
- Fig. 18 Membrane separation technology market: Application movement analysis, 2021 & 2030
- Fig. 19 Membrane separation technology market: Regional movement analysis, 2021 & 2030
- Fig. 20 Membrane separation technology market: Key company market share analysis (%)
- Fig. 21 Membrane separation technology market: Key company/ competition categorization
- Fig. 22 Membrane separation technology market: Competitive dashboard analysis

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