

[CLICK TO VIEW](#)

[Table of Contents 2](#)

[List of Tables & Charts 3](#)

[Study Overview 5](#)

[Sample Text, Table
& Chart 6](#)

[Sample Profile, Table &
Forecast 7](#)

[Order Form & Corporate
Use License 8](#)

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World Membrane Separation Technologies

Industry Study with Forecasts for **2017 & 2022**

Study #3006 | May 2013 | \$6300 | 499 pages

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Table of Contents

EXECUTIVE SUMMARY

MARKET ENVIRONMENT

General	4
World Economic Outlook.....	5
Recent Historical Trends.....	5
Macroeconomic Outlook	7
World Fixed Investment	10
World Demographic Outlook.....	12
Population	13
Urbanization Patterns.....	14
World Water Use	16
World Manufacturing Outlook	18
World Food & Beverage	
Processing Outlook.....	21
World Pharmaceutical Overview	23
World Chemical Industry Outlook	26
Environmental & Regulatory Issues	28
Water Pollution.....	30
Regulations.....	31
Waterborne Diseases.....	34

OVERVIEW

General	36
Regional Overview.....	37
Products	43
Microfiltration	45
Reverse Osmosis	49
Ultrafiltration	54
Other Membranes	59
Nanofiltration.....	62
Direct Osmosis.....	63
Dialysis	64
Electrodialysis	65
Pervaporation.....	66
Markets	67
Water Treatment	70
Wastewater Treatment.....	74
Food & Beverage Processing	78
Pharmaceutical & Medical.....	83
Other Markets.....	88

NORTH AMERICA

General	93
Membrane Demand	95

United States	98
Canada	110
Mexico	119

WESTERN EUROPE

General	129
Membrane Demand	131
Belgium	135
France.....	142
Germany.....	151
Italy	161
Netherlands	169
Spain	176
United Kingdom.....	186
Other Western Europe	193

ASIA/PACIFIC

General	203
Membrane Demand	205
Australia.....	209
China	217
India	229
Japan.....	239
South Korea	247
Taiwan	256
Other Asia/Pacific	263

OTHER REGIONS

Central & South America	274
Membrane Demand	276
Brazil.....	278
Other Central & South America.....	286
Eastern Europe	293
Membrane Demand	295
Poland	297
Russia	303
Other Eastern Europe.....	311
Africa/Mideast.....	319
Membrane Demand	321
Saudi Arabia.....	324
South Africa.....	332
Other Africa/Mideast	340

INDUSTRY STRUCTURE

General	349
Industry Composition	350

Market Share	353
Competitive Strategies.....	359
Research & Development.....	361
Mergers & Acquisitions.....	365
Cooperative Agreements.....	368

COMPANY PROFILES

Acciona SA.....	373
Air Liquide.....	375
Asahi Kasei	378
BASF SE.....	381
Berkshire Hathaway.....	383
BWT AG	387
China National BlueStar Group	391
Danaher Corporation.....	392
Donaldson Company	393
Dow Chemical.....	395
DuPont (EI) de Nemours.....	399
Ecolab Incorporated	401
GDF SUEZ SA	404
General Electric	406
Gore (WL) & Associates	413
Hyflux Limited.....	416
ITT Corporation.....	419
Koch Industries	420
Linde Group	424
MANN+HUMMEL	426
Merck KGaA.....	428
Nitto Denko	433
Pall Corporation.....	437
Parker-Hannifin Corporation.....	445
Pentair Limited.....	449
Permionics Membranes	452
Polymem.....	454
Polypore International	455
Sartorius AG.....	459
Severn Trent.....	463
Siemens AG	465
3M Company	468
Tianjin Motimo Membrane Technology ...	471
Tianjin Novofangyuan Membrane Separation Technology.....	472
Toray Industries	474
Ube Industries.....	476
Veolia Environnement	478
Vontron Technology.....	481
Woongjin Coway	482
Xylem Incorporated	484
Other Firms Mentioned in Study.....	486-499

List of Tables/Charts

EXECUTIVE SUMMARY

1 Summary Table3

MARKET ENVIRONMENT

1 World Gross Domestic Product
 by Region 10

2 World Gross Fixed Capital
 Formation by Region 12

3 World Population by Region 14

4 World Urban Population by Region 16

5 World Nonagricultural
 Water Use by Region 18

6 World Manufacturing Value
 Added by Region..... 20

7 World Food, Beverage, & Tobacco
 Manufacturing Value Added
 by Region 23

8 World Pharmaceutical
 Shipments by Region 26

9 World Chemical Manufacturing
 Value Added by Region 28

OVERVIEW

1 World Membrane Demand by Region .. 41

2 World Membrane Demand by Type 44

3 World Microfiltration Membrane
 Demand by Region 48

4 World Reverse Osmosis Membrane
 Demand by Region 53

5 World Ultrafiltration Membrane
 Demand by Region 58

6 World Other Membrane
 Demand by Region 61

7 World Membrane Demand by Market .. 69

8 World Water Treatment Membrane
 Demand by Region 73

9 World Wastewater Treatment Membrane
 Demand by Region 77

10 World Food & Beverage Processing
 Membrane Demand by Region 82

11 World Pharmaceutical & Medical
 Membrane Demand by Region 87

12 World Other Markets Membrane
 Demand by Region 91

NORTH AMERICA

1 North America: Market Environment
 for Membranes..... 94

2 North America: Membrane
 Demand by Type & Market 97

3 United States: Market Environment
 for Membranes..... 100

4 United States: Membrane
 Demand by Type 104

5 United States: Membrane
 Demand by Market 109

6 Canada: Market Environment
 for Membranes..... 112

7 Canada: Membrane Demand by Type 114

8 Canada: Membrane
 Demand by Market 118

9 Mexico: Market Environment
 for Membranes..... 121

10 Mexico: Membrane Demand by Type 123

11 Mexico: Membrane
 Demand by Market 127

WESTERN EUROPE

1 Western Europe: Market Environment
 for Membranes..... 131

2 Western Europe: Membrane
 Demand by Type & Market 134

3 Belgium: Market Environment
 for Membranes..... 137

4 Belgium: Membrane
 Demand by Type 139

5 Belgium: Membrane
 Demand by Market 141

6 France: Market Environment
 for Membranes..... 144

7 France: Membrane Demand by Type . 146

8 France: Membrane
 Demand by Market 149

9 Germany: Market Environment
 for Membranes..... 152

10 Germany: Membrane
 Demand by Type 155

11 Germany: Membrane
 Demand by Market 158

12 Italy: Market Environment
 for Membranes..... 163

13 Italy: Membrane Demand by Type ... 165

14 Italy: Membrane Demand by Market 168

15 Netherlands: Market Environment
 for Membranes..... 171

16 Netherlands: Membrane
 Demand by Type 173

17 Netherlands: Membrane
 Demand by Market 175

18 Spain: Market Environment
 for Membranes..... 178

19 Spain: Membrane Demand by Type .. 180

20 Spain: Membrane Demand by Market 184

21 United Kingdom: Market Environment
 for Membranes..... 187

22 United Kingdom: Membrane
 Demand by Type 189

23 United Kingdom: Membrane
 Demand by Market 191

24 Other Western Europe: Market
 Environment for Membranes..... 195

25 Other Western Europe: Membrane
 Demand by Type 197

26 Other Western Europe: Membrane
 Demand by Market 199

27 Other Western Europe: Membrane
 Demand by Country 200

ASIA/PACIFIC

1 Asia/Pacific: Market Environment
 for Membranes..... 205

2 Asia/Pacific: Membrane
 Demand by Type & Market 208

3 Australia: Market Environment
 for Membranes..... 211

4 Australia: Membrane
 Demand by Type 213

5 Australia: Membrane
 Demand by Market 216

6 China: Market Environment
 for Membranes..... 219

7 China: Membrane Demand by Type .. 221

8 China: Membrane Demand by Market 226

9 India: Market Environment
 for Membranes..... 230

10 India: Membrane Demand by Type... 233

11 India: Membrane Demand by Market 237

12 Japan: Market Environment
 for Membranes..... 241

13 Japan: Membrane Demand by Type.. 243

14 Japan: Membrane
 Demand by Market 245

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List of Tables

(continued from previous page)

15 South Korea: Market Environment for Membranes.....	249
16 South Korea: Membrane Demand by Type	251
17 South Korea: Membrane Demand by Market	254
18 Taiwan: Market Environment for Membranes.....	258
19 Taiwan: Membrane Demand by Type	260
20 Taiwan: Membrane Demand by Market	262
21 Other Asia/Pacific: Market Environment for Membranes.....	265
22 Other Asia/Pacific: Membrane Demand by Type	267
23 Other Asia/Pacific: Membrane Demand by Market	270
24 Other Asia/Pacific: Membrane Demand by Country	271

OTHER REGIONS

1 Central & South America: Market Environment for Membranes.....	276
2 Central & South America: Membrane Demand by Type & Market	278
3 Brazil: Market Environment for Membranes.....	280
4 Brazil: Membrane Demand by Type..	282
5 Brazil: Membrane Demand by Market	285
6 Other Central & South America: Market Environment for Membranes.....	287
7 Other Central & South America: Membrane Demand by Type.....	289
8 Other Central & South America: Membrane Demand by Market.....	292
9 Eastern Europe: Market Environment for Membranes.....	294
10 Eastern Europe: Membrane Demand by Type & Market	296
11 Poland: Market Environment for Membranes.....	299
12 Poland: Membrane Demand by Type.	301
13 Poland: Membrane Demand by Market	302
14 Russia: Market Environment for Membranes.....	305
15 Russia: Membrane Demand by Type .	307

16 Russia: Membrane Demand by Market	310
17 Other Eastern Europe: Market Environment for Membranes.....	313
18 Other Eastern Europe: Membrane Demand by Type	315
19 Other Eastern Europe: Membrane Demand by Market	317
20 Other Eastern Europe: Membrane Demand by Country	318
21 Africa/Mideast: Market Environment for Membranes.....	321
22 Africa/Mideast: Membrane Demand by Type & Market	323
23 Saudi Arabia: Market Environment for Membranes.....	326
24 Saudi Arabia: Membrane Demand by Type	328
25 Saudi Arabia: Membrane Demand by Market	331
26 South Africa: Market Environment for Membranes.....	334
27 South Africa: Membrane Demand by Type	336
28 South Africa: Membrane Demand by Market	339
29 Other Africa/Mideast: Market Environment for Membranes.....	342
30 Other Africa/Mideast: Membrane Demand by Type	344
31 Other Africa/Mideast: Membrane Demand by Market	346
32 Other Africa/Mideast: Membrane Demand by Country	347

INDUSTRY STRUCTURE

1 Membrane Sales by Company, 2012 .	352
2 Selected Acquisitions & Divestitures	367
3 Selected Cooperative Agreements ...	370

List of Charts

OVERVIEW

1 World Membrane Demand by Region, 2012	42
2 World Membrane Demand by Region, 2002-2022	42

3 World Membrane Demand by Type, 2012	45
4 World Microfiltration Membrane Demand by Region, 2012	49
5 World Reverse Osmosis Membrane Demand by Region, 2012	54
6 World Ultrafiltration Membrane Demand by Region, 2012	59
7 World Other Membrane Demand by Region, 2012	62
8 World Membrane Demand by Market, 2012	70
9 World Water Treatment Membrane Demand by Region, 2012	74
10 World Wastewater Treatment Membrane Demand by Region, 2012	78
11 World Food & Beverage Processing Membrane Demand by Region, 2012	83
12 World Pharmaceutical & Medical Membrane Demand by Region, 2012	88
13 World Other Markets Membrane Demand by Region, 2012	92

NORTH AMERICA

1 North America: Membrane Demand by Country, 2012.....	98
--	----

WESTERN EUROPE

1 Western Europe: Membrane Demand by Country, 2012.....	135
---	-----

ASIA/PACIFIC

1 Asia/Pacific: Membrane Demand by Country, 2012.....	209
---	-----

OTHER REGIONS

1 Eastern Europe: Membrane Demand by Country, 2012.....	297
2 Africa/Mideast: Membrane Demand by Country, 2012.....	324

INDUSTRY STRUCTURE

1 World Membrane Market Share by Company, 2012.....	354
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Economic recovery from a global recession in 2009, coupled with rising environmental regulations and standards in many parts of the world with high population growth, will spur gains.

Global demand to jump over 9% yearly thru 2017

Global demand for membranes is projected to increase a healthy 9.2 percent yearly to \$25.7 billion in 2017. Ongoing economic improvement in several key geographic markets through 2017 will boost gains as the global recession of 2009 and subsequent slow recovery restrained manufacturing activity and capital investments through 2012. Rising environmental standards and regulations in many parts of the world and high population growth, particularly in water-stressed areas, will further drive investment in membrane-based water and wastewater treatment systems.

The countries expected to see the fastest growth include the BRIC (Brazil, Russia, India, and China) countries and others with large, developing industrial bases and stressed local water resources. Combined, the US and China, the two largest national markets for membranes in 2012, are expected to account for 43 percent of all market growth between 2012 and 2017.

China to be fastest growing national market

By 2012, the Asia/Pacific region had surpassed North America to become the largest regional market, with 36 percent of global membrane sales. This region is led by the rapidly developing Chinese market, which represented 15 percent of global demand in 2012 and is projected to post the fastest growth rate through the forecast period. North America accounted for 27 percent of membrane sales worldwide in 2012. Demand growth in North America is expected to



accelerate through 2017 from the more modest gains of the 2007-2012 period. Advances will be aided by the ongoing development of improved membranes to accommodate newer water quality regulations, the use of low-quality water in water-stressed regions, and rising interest in the more efficient use of water. In developing countries, gains will be based on the continued growth of water-intensive industries, and rising investment in modernizing water and waste infrastructure, particularly in areas that need to tap brackish or otherwise poor quality water resources.

Water treatment, drug & medical to be key markets

Treatment of seawater and brackish water sources is a key use for membranes in certain regions. For instance,

much of the Middle East, North Africa, and the Caribbean have invested in membrane-based systems to ensure a sufficient supply of water for drinking, agriculture, and industry use. Historically, thermal distillation plants were more common, but even oil-rich nations are switching to more efficient reverse osmosis and other membrane-based desalination technologies.

Water treatment, the largest market for membranes, will also benefit from expansions or upgrades of water treatment infrastructures and a projected rebound in manufacturing activity in key geographic markets. However, the most rapid growth will emerge in the pharmaceutical and medical market, and other smaller markets such as chemical processing and environmental applications.

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Sample Text, Table & Chart

ASIA/PACIFIC

India: Membrane Demand by Type

Demand for membrane-based water and wastewater treatment is expected to grow per year to \$1.5 billion by 2022, with the fastest growth in the Asia/Pacific region. This growth is driven by overall manufacturing growth, particularly in the food and beverage processing industries such as dairy, beverages, pharmaceuticals, and chemicals, which will propel growth in membrane-based water and wastewater treatment. Investment in membrane-based water and wastewater treatment will also aid in the growth of membrane-based water and wastewater treatment. The growth will be driven by the installation of a rising number of membrane-based water and wastewater treatment systems. In general terms, advances will be driven by ongoing efforts to improve and extend the country's water and wastewater infrastructure, which is inefficient and incomplete. Many of these systems will involve the use of membranes since the country has insufficient fresh water resources and increasingly needs to tap into lower quality water supplies, including seawater, to accommodate the projected population growth and increasing industrialization. However, unlike many areas in which regulatory requirements are driving more widespread membrane use, India's drinking water quality standards are primarily voluntary. Further gains will also be restrained to a certain degree by the difficulty in financing projects, meaning that many installations that are announced are not completed.

In 2012, microfiltration membranes accounted for the largest share of Indian membrane demand, with 35 percent of sales. However, reverse osmosis and ultrafiltration membranes -- which accounted for 21 and 19 percent of sales, respectively -- are forecast to achieve faster growth over the forecast period. This trend will largely be aided by investment in desalination technology to treat very low-quality brackish water, or seawater for use in producing municipal water or in a variety of industrial applications.

Membrane-based desalination systems are the most widely used technology because of lower capital and energy costs compared to other technologies.

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SAMPLE TEXT

TABLE VI-10

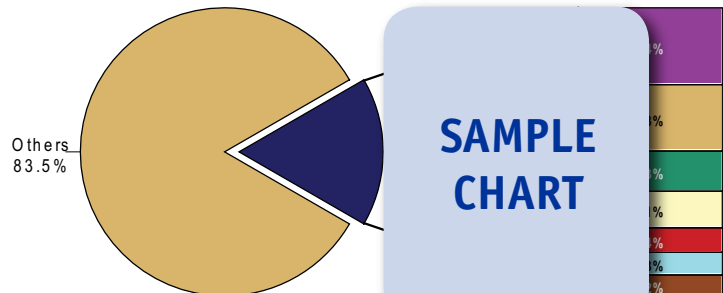
INDIA: MEMBRANE DEMAND BY TYPE (million dollars)

Item	2002	2007	2012	2017	2022
Manufacturing Value Added (bil 2011\$)					
\$ membrane/000\$ MVA					
India Membrane Demand					
Microfiltration					
Reverse Osmosis					
Ultrafiltration					
Other					
% India					
Asia/Pacific Membrane Demand					

SAMPLE TABLE

CHART VIII-1

WORLD MEMBRANE MARKET SHARE BY COMPANY (\$16.5 billion, 2012)



SAMPLE CHART

Sample Profile, Table & Forecast

TABLE VI-11
INDIA: MEMBRANE DEMAND BY MARKET
 (million dollars)

Item	2002	2007	2012	2017	2022
Water Use (bil cubic meters)					
\$ membrane/000 cubic m water use					
India Membrane Demand					
Water Treatment					
Wastewater Treatment					
Food & Beverage Processing					
Pharmaceutical & Medical					
Other					



COMPANY PROFILES

Vontron Technology Company Limited
 Room 1108, T1, Xihuan Guangchang
 No. 1 Xizhimenwai Street
 Xicheng District
 China
 86-10-5830-18
 http://www.vontron.com.cn

Annual Sales:
 Employment:
 Key Products:

SAMPLE PROFILE

Vontron Technology specializes in the design, manufacture, and sale of reverse osmosis (RO) membranes sold under the VONTRON brand name for use in potable water, seawater desalination, sewage treatment, power generation, electronics, pharmaceutical, beverage, and other markets. The Company is privately held.

VONTRON RO membranes include general purpose, fouling resistant, seawater desalination, oxidation resistant, and residential types. For example, VONTRON general purpose RO membranes include the LP series. VONTRON LP membranes feature high permeated flow and enhanced desalination performance, among other benefits. These membranes are used in brackish water desalination processes, as well as the preparation of high purity water for the electronics and electrical power sectors. Other RO membranes in the VONTRON line include the ULP, XLP, SW, FR, and HOR series.

Vontron Technology manufactures RO membranes at facilities in Guiyang and Beijing, China. The Company also maintains sales and service centers in such major Chinese cities as Shanghai, Guangzhou,

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“Additionally, membrane demand will benefit from rising interest in water reuse to protect existing water supplies that are already stressed. For instance, one goal of the government’s Jawaharlal Nehru National Urban Renewal Mission is to promote the recycling of at least 25 percent of water for use in applications such as construction, cooling towers, irrigation, and toilet flushing.”
 --Section VI, pg. 235

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OTHER STUDIES

World Consumer Water Treatment Systems

World demand for consumer water treatment systems will jump 12.4% annually, led by the BRIC (Brazil, Russia, India, China) and other countries with poor public treatment infrastructure. Gains will be driven by rising incomes and increasing awareness of water contamination. This study analyzes the \$7.5 billion world consumer water treatment system industry, with forecasts for 2017 and 2022 by type, aftermarket component, technology, world region, and for 21 countries. The study also evaluates company market share and profiles industry participants.

#3110January 2014 \$6100

World Geosynthetics

Global demand for geosynthetics is expected to rise 8.9 percent per year to 5.2 billion square meters in 2017. Developing regions will be the fastest growing markets, with the Asia/Pacific region remaining the largest. Construction will be the largest and fastest growing application, especially in the key China and US markets. This study analyzes the 3.4 billion square meter world geosynthetics industry, with forecasts for 2017 and 2022 by product, market, world region, and for 19 countries. The study also evaluates company market share and profiles industry players.

#3108December 2013 \$6100

Water Treatment Equipment

Demand for water treatment equipment in the US is forecast to grow 5.9 percent per year to \$13.0 billion in 2017. The resource extraction market will post the most rapid gains, followed by the recovering commercial and residential markets. Disinfection and membrane equipment will be the fastest growing product segments. This study analyzes the \$9.8 billion US market for water treatment equipment, with forecasts for 2017 and 2022 by product, market, and application. The study also evaluates company market share and profiles industry players.

#3052 July 2013 \$5100

Consumer Water & Air Treatment Systems

US demand for consumer water and air treatment systems will rise 6.9 percent yearly to \$2.3 billion in 2017. Whole-house air treatment systems will be the fastest growing segment, while point-of-use water treatment systems will remain the largest. Water filters and membranes will remain the largest consumables category. This study analyzes the \$1.6 billion US consumer market for water and air treatment systems, with forecasts for 2017 and 2022 by technology, product, and region. The study also evaluates company market share and profiles industry players.

#3032 May 2013 \$5300

World Water Disinfection Products

World demand for water disinfection products will rise 5.5 percent annually to \$7.7 billion in 2016. China and the Asia/Pacific and Africa/Mideast regions will be the fastest growing markets. A shift in the product mix from elemental chlorine towards higher value chemicals and advanced technologies will continue. This study analyzes the \$5.9 billion world water disinfection product industry, with forecasts for 2016 and 2021 by product, market, world region and for 16 countries. The study also evaluates company market share and profiles industry participants.

#2992 March 2013 \$6100

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