

2021 Membrane and Filtration Research Review

<https://marketpublishers.com/r/26E822927D56EN.html>

Date: March 2022

Pages: 411

Price: US\$ 3,000.00 (Single User License)

ID: 26E822927D56EN

Abstracts

Report Scope:

This 2021 Research Review of membrane and filtration features a sampling of the quantitative market information, analysis, and guidance that BCC Research has, since its inception in 1971, been providing to help readers make informed business decisions. It includes highlights of the following reports published by BCC Research in 2021 and early 2022 -

MST036E Advanced Technologies for Municipal Water Treatment.

MST051D Global Markets and Technologies for Water Recycling and Reuse.

AVM043J Nonwoven Filter Media: Global Markets.

MST044F Ultrafiltration Membranes: Technologies and Global Markets.

Reason for Studying Advanced Technologies for Municipal Water Treatment

The reasons behind considering “Advanced Technologies for Municipal Water Treatment” in this review paper are -

To understand various types of filtration technologies used for municipal water treatment.

To analyze the future trends of current technologies and to highlight the new technologies that have yet to be launched in the market.

Reason for Studying Global Markets and Technologies for Water Recycling and Reuse

The reasons behind considering “Water Recycling and Reuse Technologies” in this review paper are -

To summarize existing wastewater recycling and reuse technologies and to highlight the upcoming technologies that are under the development phase now.

To present an overview of the developers of these technologies and highlight their stake in and contribution to the industry.

Reason for Studying Nonwoven Filter Media

The reasons behind considering “Nonwoven Filter Media” in this review paper are -

To understand the existing nonwoven filter media, their types and their usage in different applications.

To understand the impact of COVID-19 on the market.

To analyze the pricing of different types of nonwoven filter media present in the market.

Reason for Studying Ultrafiltration Membranes

The reasons behind considering “Ultrafiltration Membranes” in this review paper are -

To understand various technologies used in ultrafiltration membranes.

To analyze the future trends of ultrafiltration membranes.

To provide an in-depth analysis and comparison of various types of membranes and specifications of ultrafiltration membranes.

Report Highlights:

The global market for advanced municipal water treatment technologies is estimated to grow from \$13.7 billion in 2021 to reach \$20.5 billion by 2026, at a compound annual growth rate (CAGR) of 8.4% during the forecast period of 2021-2026.

The global market for wastewater recycling and reuse technologies is estimated to grow from \$21.3 billion in 2021 to reach \$40.5 billion by 2026, at a CAGR of 13.8% during the forecast period of 2021-2026.

The global market for nonwoven filter media is estimated to grow from \$5.7 billion in 2021 to reach \$7.2 billion by 2026, at a CAGR of 4.9% during the forecast period of 2021-2026.

Contents

CHAPTER 1 FOREWORD

Foreword

CHAPTER 2 ADVANCED TECHNOLOGIES FOR MUNICIPAL WATER TREATMENT (MST036E)

Introduction

Market Definition

Study Goals and Objectives

Reasons for Doing This Study

Scope of Report

Intended Audience

Methodology

Geographic Breakdown

What's New in This Update?

Related BCC Research Reports

Summary and Highlights

Market Overview

History of Drinking Water Treatment

Overview of Advanced Municipal Water Treatment Technologies

Market Dynamics

Regulatory Landscape

Impact of COVID-19

U.S. Market for Municipal Water Treatment

Introduction

Drinking Water Infrastructure Needs Survey and Assessment

Federal Investment in Clean Water

Water Availability and Usage in the U.S.

Public Water Supply

Climate Change

Potable Water Cost

Water Reuse

U.S. Market Breakdown, by Type of Filtration Technology

Overview

Membrane Filtration (Non-MBR)

Microfiltration Membrane Bioreactors (MBRs)

U.S. Market Breakdown, by Type of Disinfection System

Overview

Ozone

Ultraviolet Light

Novel Disinfection Technologies

Global Market for Advanced Technologies for Municipal Water Treatment, by Region

Overview

North America

Europe

Asia-Pacific

Rest of the World

CHAPTER 3 GLOBAL MARKETS AND TECHNOLOGIES FOR WATER RECYCLING AND REUSE (MST051D)

Introduction

Study Goals and Objectives

Reasons for Doing This Study

Scope of Report

Intended Audience

Methodology

Geographic Breakdown

Summary and Highlights

Market Overview

Introduction

Global Water Supply

Water Shortages and Drought

Water Supply Sources

Global Water Demand

Global Wastewater Production and Treatment

Human Health Effects of Wastewater Discharge

Global Wastewater Reuse and Recycling

End Uses and Benefits of Wastewater Recycling and Reuse

Drawbacks to Wastewater Recycling and Reuse

Relevant Emerging Techniques and Their Potential for Market Readiness

Impact of COVID-19 on the Global Market for Wastewater Recycling and Reuse

Technologies

Global Market for Wastewater Recycling and Reuse Technologies, by Type

Overview

Agricultural and Nonpotable Municipal and Industrial (M&I) Reuse
Direct and Indirect Potable Reuse and Environmental Reuse
Global Market for Wastewater Recycling and Reuse Technologies, by Sector
Overview
Municipal
Industrial
Global Market for Wastewater Recycling and Reuse, by Technology
Overview
Conventional Treatment Technologies
Membrane Filtration Technologies
Membrane Bioreactor Technologies
Chemical Treatments and Disinfection Technologies
Demineralization Technologies
Global Market for Wastewater Recycling and Reuse Technologies, by End Use
Overview
Agricultural Reuse
Discharge to Surface Water or Groundwater
Municipal and Industrial Nonpotable Reuse
Direct Potable Reuse

CHAPTER 4 NONWOVEN FILTER MEDIA: GLOBAL MARKETS (AVM043J)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
What's New in This Report?
Scope of Report
Methodology
Intended Audience
Geographic Breakdown
Summary and Highlights
Primary Respondents
Primary Insights from a Few Respondents
Market Overview
Development of Nonwoven Materials
Definition of Nonwovens
Nonwoven Functionality
Nonwoven Products
Raw Materials: Fibers and Polymers

Types of Fibers
Nonwovens Approaching Membrane Efficiency
Industry Structure and Technological Trends
Industry Trends
Customer Landscape
Commodity and Specialized Markets
Market Drivers
Competitive Strategies Used in the Nonwoven Filter Media Industry
Volume and Pricing Analysis
Pricing Analysis
Volume Analysis
Nonwoven Filter Media Market, by Type
Overview
Depth Filter
Surface Filters
Nonwoven Filter Media Market, by Application
Overview
Water Filtration
Transportation
Healthcare
HVAC
Food Processing
Industrial Manufacturing
Oil & Gas
Electronics
Others

CHAPTER 5 ULTRAFILTRATION MEMBRANES: TECHNOLOGIES AND GLOBAL MARKETS (MST044F)

Introduction
Study Goals and Objectives
Reasons for Doing This Study
What's New in this Update?
Scope of Report
Methodology
Geographic Breakdown
Summary and Highlights
Market Overview

Ultrafiltration Membrane

History of Ultrafiltration

Ultrafiltration and Other Membrane Processes

Contrasting Separation and Disinfection with Reference to Ultraviolet Disinfection

How UV Works?

Impact of the Coronavirus on the Global Economy

Conclusion

Market Dynamics

Drivers

Challenges

Opportunities

Restraints

Ultrafiltration Membrane Market, by Material Type

Introduction

Ceramics

Polymeric

Ultrafiltration Membrane Market, by Membrane Type

Introduction

Hollow Fiber

Flat Sheet

Spiral-wound

Tubular

Ultrafiltration Membrane Market, by Application

Introduction

Hemodialysis

Industrial Processes

Food and Beverage

Potable Water

Biopharmaceuticals

Wastewater

List Of Tables

LIST OF TABLES

Table 1: Global Market for Advanced Municipal Water Treatment Technologies, by Region, Through 2026

Table 2: ETV Drinking Water Systems Evaluations, 1999-2014

Table 3: Comparison of Disinfection Methods

Table 4: Cost of Converting to Non-chlorine Alternatives at Municipal Drinking Water Plants

Table 5: Share of U.S. Population on Public Water Supply Using Water Treated with Chloramination, 2019

Table 6: Average Cost of Water and Wastewater Treatment

Table 7: New Water Infrastructure Expansion/Upgradation Projects in the U.S.

Table 8: SDWA Contaminant Regulation Timeline, 1975-2020

Table 9: National Secondary Drinking Water Regulations

Table 10: Total 20-Year Need, by System Size, System Type, and Project Type, January 2015

Table 11: Trends in U.S. Water Use, Through 2015

Table 12: Percentage Increase in the Price at the 50-Gallons-per-Day Level in Drinking Water for Different U.S. Cities, 2018-2019

Table 13: U.S. Market for Filtration Technology for Municipal Water Treatment, by Type of Filtration Technology, Through 2026

Table 14: U.S. Market for Membrane Filtration Technology for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 15: U.S. Market for MBRs for Municipal Water Treatment, Through 2026

Table 16: U.S. Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 17: U.S. Market for Ozone Disinfection Systems for Municipal Water Treatment, Through 2026

Table 18: U.S. Market for UV Disinfection Systems for Municipal Water Treatment, Through 2026

Table 19: U.S. Market for Novel Disinfection Systems for Municipal Water Treatment, by Disinfectant Type, Through 2026

Table 20: Global Market for Advanced Technologies for Municipal Water Treatment, by Region, Through 2026

Table 21: Global Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, Through 2026

Table 22: Global Market for Filtration Technology for Municipal Water Treatment, by

Type, Through 2026

Table 23: Global Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 24: Global Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 25: North American Market for Advanced Technologies for Municipal Water Treatment, by Country, Through 2026

Table 26: North American Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, Through 2026

Table 27: North American Market for Filtration Technology for Municipal Water Treatment, by Type, Through 2026

Table 28: North American Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 29: North American Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 30: European Market for Advanced Technologies for Municipal Water Treatment, by Country, Through 2026

Table 31: European Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, Through 2026

Table 32: European Market for Filtration Technology for Municipal Water Treatment, by Type, Through 2026

Table 33: European Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 34: European Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 35: Asia-Pacific Market for Advanced Technologies for Municipal Water Treatment, by Country, Through 2026

Table 36: Asia-Pacific Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, Through 2026

Table 37: Asia-Pacific Market for Filtration Technology for Municipal Water Treatment, by Type, Through 2026

Table 38: Asia-Pacific Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 39: Asia-Pacific Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 40: RoW Market for Advanced Technologies for Municipal Water Treatment, by Sub-Region, Through 2026

Table 41: RoW Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, Through 2026

Table 42: RoW Market for Filtration Technology for Municipal Water Treatment, by Type, Through 2026

Table 43: RoW Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, Through 2026

Table 44: RoW Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, Through 2026

Table 45: Global Market for Wastewater Recycling and Reuse Technologies, by Region, Through 2026

Table 46: Countries with High Rates of Wastewater Treatment, 2016-2019

Table 47: Wastewater Recycling and Reuse End Uses Considered in this Report

Table 48: FAO Guidelines for the Agricultural Reuse of Treated Water

Table 49: Comparison between IPR and DPR

Table 50: Common Wastewater Constituents Targeted for Measurement, Removal and Inactivation

Table 51: Conventional Primary Wastewater Treatment Methods

Table 52: Conventional Secondary Wastewater Treatment Methods

Table 53: Conventional Tertiary Wastewater Treatment Methods

Table 54: Wastewater Recycling and Reuse Technologies Considered in this Report

Table 55: Membrane Filtration Size Categories

Table 56: Common Chemical Treatment Applications

Table 57: Advanced Treatment Technologies for Direct Potable Reuse

Table 58: Select Emerging Technologies Relevant to Wastewater Recycling and Reuse

Table 59: Global Market for Wastewater Recycling and Reuse Technologies, by Type, Through 2026

Table 60: Global Market for Wastewater Recycling and Reuse Technologies in the Agricultural and Nonpotable M&I Reuse Segment, by Region, Through 2026

Table 61: Global Market for Wastewater Recycling and Reuse Technologies in the Direct and Indirect Potable Reuse and Environmental Reuse Segment, by Region, Through 2026

Table 62: Global Annual Increase in Incremental Treatment Capacity in Wastewater Recycling and Reuse, by Sector, Through 2026

Table 63: Global Market for Wastewater Recycling and Reuse Technologies, by Sector, Through 2026

Table 64: Global Increase in Annual Incremental Treatment Capacity in Municipal Wastewater Recycling and Reuse, by Region, Through 2026

Table 65: Global Market for Municipal Wastewater Recycling and Reuse Technologies, by Region, Through 2026

Table 66: Global Increase in Annual Incremental Treatment Capacity in Industrial Wastewater Recycling and Reuse, by Region, Through 2026

Table 67: Global Market for Industrial Wastewater Recycling and Reuse Technologies, by Region, Through 2026

Table 68: Global Market for Wastewater Recycling and Reuse, by Technology, Through 2026

Table 69: Global Market for Conventional Treatment Technologies in Wastewater Recycling and Reuse, by Region, Through 2026

Table 70: Global Market for Membrane Filtration Technologies* in Wastewater Recycling and Reuse, by Region, Through 2026

Table 71: Global Market for Membrane Bioreactor Technologies* in Wastewater Recycling and Reuse, by Region, Through 2026

Table 72: Global Market for Chemical Treatment and Disinfection Technologies in Wastewater Recycling and Reuse, by Region, Through 2026

Table 73: Global Market for Demineralization Technologies in Wastewater Recycling and Reuse, by Region, Through 2026

Table 74: Global Market Volumes of Wastewater Recycling and Reuse Technologies, by End Use, Through 2026

Table 75: Global Market for Wastewater Recycling and Reuse Technologies, by End Use, Through 2026

Table 76: Global Market Volumes of Wastewater Recycling and Reuse in Agricultural Reuse, by Region, Through 2026

Table 77: Global Market for Wastewater Recycling and Reuse Technologies in Agricultural Reuse, by Region, Through 2026

Table 78: Global Market Volumes of Wastewater Recycling and Reuse in Discharge to Surface Water or Groundwater End Uses, by Region, Through 2026

Table 79: Global Market for Wastewater Recycling and Reuse Technologies in Discharge to Surface Water or Groundwater End Uses, by Region, Through 2026

Table 80: Global Market Volumes of Wastewater Recycling and Reuse Technologies in Municipal and Industrial Nonpotable Reuse, by Region, Through 2026

Table 81: Global Market for Wastewater Recycling and Reuse Technologies in Municipal and Industrial Nonpotable Reuse, by Region, Through 2026

Table 82: Global Market Volumes of Wastewater Recycling and Reuse Technologies in Direct Potable Reuse, by Region, Through 2026

Table 83: Global Market for Wastewater Recycling and Reuse Technologies in Direct Potable Reuse, by Region, Through 2026

Table 84: Global Market for Nonwoven Filter Media, by Application, Through 2026

Table 85: *List of Primary Respondents in the Nonwoven Filter Media Business

Table 86: Primary Insights

Table 87: Global Market for Nonwoven Filter Media, by Value and Volume, Through 2026

Table 88: Air Quality Index, November 2021

Table 89: Global Market Volume for Nonwoven Filter Media, Through 2026

Table 90: Global Market for Nonwoven Filter Media, by Type, Through 2026

Table 91: Global Market for Depth Filter Segment in the Nonwoven Filter Media, by Region, Through 2026

Table 92: Global Market for Surface Filter Segment in the Nonwoven Filter Media, by Region, Through 2026

Table 93: Global Market for Nonwoven Filter Media, by Application, Through 2026

Table 94: Global Market for Microfiltration Membranes, by Application, Through 2026

Table 95: Global Market for Ultrafiltration Membranes, by Application, Through 2026

Table 96: Global Market for Nanofiltration Membranes, by Application, Through 2026

Table 97: Global Market for Reverse Osmosis, by Application, Through 2026

Table 98: Global Market for Wastewater Recycling and Reuse, by Type, Through 2026

Table 99: Global Market for Membrane Bioreactor Technologies* for the Wastewater Recycling and Reuse, by Region, Through 2026

Table 100: Global Market for Industrial Category for the Wastewater Recycling and Reuse, by Region, Through 2026

Table 101: Global Market for Municipal Category for Wastewater Recycling and Reuse, by Region, Through 2026

Table 102: Global Market for Nonwoven Filter Media in Water Filtration, by Region, Through 2026

Table 103: Global Market for Nonwoven Filter Media in Water Filtration, by Manufacturing Process, Through 2026

Table 104: Global Market for Nonwoven Filter Media in Transportation, by Region, Through 2026

Table 105: Global Market for Nonwoven Filter Media in Transportation, by Manufacturing Process, Through 2026

Table 106: Global Market for Bioprocess Filtration, by Product Type, Through 2026

Table 107: Global Pharmaceutical Company Rankings, 2019 and 2020

Table 108: Average Size of Common Contaminants in Hospital Air

Table 109: Characteristics of Nonwoven Filter Media in Hospital Air Filtration Applications

Table 110: HEPA and ULPA Filter Classes According to the EN 1822:2009 Standard

Table 111: Global Market for Nonwoven Filter Media in Healthcare, by Region, Through 2026

Table 112: Global Market for Nonwoven Filter Media in Healthcare, by Manufacturing Process, Through 2026

Table 113: Cost Comparison of Retail HVAC Filters

Table 114: Effectiveness and Annual Cost of Six HVAC Filters

Table 115: Global Market for Nonwoven Filter Media in HVAC, by Region, Through 2026

Table 116: Global Market for Nonwoven Filter Media in HVAC, by Manufacturing Process, Through 2026

Table 117: Typical Filtering Operations within a Food Processing Plant

Table 118: Global Market for Nonwoven Filter Media in Food Processing, by Region, Through 2026

Table 119: Global Market for Nonwoven Filter Media in Food Processing, by Manufacturing Process, Through 2026

Table 120: Typical Maximum Operating Temperatures and Weights of Fibers Employed in Media for High-Temperature Applications

Table 121: Survey of Common Airborne Contaminant Concentration and Sizes, by Type of Area

Table 122: Global Market for Nonwoven Filter Media in Industrial Manufacturing, by Region, Through 2026

Table 123: Global Market for Nonwoven Filter Media in Industrial Manufacturing, by Manufacturing Process, Through 2026

Table 124: Key Filtration Operations in Oil Refining

Table 125: Global Market for Nonwoven Filter Media in Oil & Gas, by Region, Through 2026

Table 126: Global Market for Nonwoven Filter Media in Oil & Gas, by Manufacturing Process, Through 2026

Table 127: Global Market for Nonwoven Filter Media in Electronics, by Region, Through 2026

Table 128: Global Market for Nonwoven Filter Media in Electronics, by Manufacturing Process, Through 2026

Table 129: Global Market for Nonwoven Filter Media in Other Applications, by Region, Through 2026

Table 130: Global Market for Nonwoven Filter Media in Other Applications, by Manufacturing Process, Through 2026

Table 131: Global Market for Ultrafiltration Membranes, by Application, Through 2026

Table 132: History of UF Membranes, 1907-2000

Table 133: Comparative Parameters of Membrane Processes

Table 134: Categories of UV light

Table 135: Global Market for UF Membranes, by Material Type, Through 2026

Table 136: Global Market Volumes of UF Membranes, by Material Type, Through 2026

Table 137: Global Market for Ceramic-based UF Membranes, by Region, Through 2026

Table 138: Global Market Volumes of Ceramic-based UF Membranes, by Region, Through 2026

Table 139: Global Market for Ceramic-based UF Membranes, by Application, Through 2026

Table 140: Global Market Volumes of Ceramic-based UF Membranes, by Application, Through 2026

Table 141: Global Market for Polymeric-based UF Membranes, by Region, Through 2026

Table 142: Global Market Volumes of Polymeric-based UF Membranes, by Region, Through 2026

Table 143: Global Market for Polymeric-based UF Membranes, by Application, Through 2026

Table 144: Global Market Volumes of Polymeric-based UF Membranes, by Application, Through 2026

Table 145: Global Market for UF Membranes, by Membrane Type, Through 2026

Table 146: Global Market for Hollow Fiber UF Membranes, by Region, Through 2026

Table 147: Global Market for Flat Sheet UF Membranes, by Region, Through 2026

Table 148: Global Market for Spiral-wound UF Membranes, by Region, Through 2026

Table 149: Global Market for Tubular UF Membranes, by Region, Through 2026

Table 150: Global Market for UF Membranes, by Application, Through 2026

Table 151: Global Market Volumes of UF Membranes, by Application, Through 2026

Table 152: Global Market for UF Membranes Used in Hemodialysis Applications, by Region, Through 2026

Table 153: Global Market Volumes of UF Membranes Used in Hemodialysis Applications, by Region, Through 2026

Table 154: Global Market for UF Membranes Used in Hemodialysis Applications, by Material Type, Through 2026

Table 155: Global Market Volumes of UF Membranes Used in Hemodialysis Applications, by Material Type, Through 2026

Table 156: Global Market for UF Membranes Used in Industrial Process Applications, by Region, Through 2026

Table 157: Global Market Volumes of UF Membranes Used in Industrial Process Applications, by Region, Through 2026

Table 158: Global Market for UF Membranes Used in Industrial Process Applications, by Material Type, Through 2026

Table 159: Global Market Volumes of UF Membranes Used in Industrial Process Applications, by Membrane Material, Through 2026

Table 160: Whey Protein Concentrate

Table 161: Average Total Yield of Blood per Slaughtered Animal

Table 162: Global Market for UF Membranes in Used in Food and Beverage Applications, by Region, Through 2026

Table 163: Global Market Volumes of UF Membranes in Used in Food and Beverage Applications, by Region, Through 2026

Table 164: Global Market for UF Membranes Used in Food and Beverage Applications, by Material Type, Through 2026

Table 165: Global Market Volumes of UF Membranes Used in Food and Beverage Applications, by Material Type, Through 2026

Table 166: Global Market for UF Membranes Used in Potable Water Applications, by Region, Through 2026

Table 167: Global Market Volumes of UF Membranes Used in Potable Water Applications, by Region, Through 2026

Table 168: Global Market for UF Membranes Used in Potable Water Applications, by Material Type, Through 2026

Table 169: Global Market Volumes of UF Membranes Used in Potable Water Applications, by Material Type, Through 2026

Table 170: Process-Scale Purification Products

Table 171: Global Market for UF Membranes Used in Biopharmaceutical Applications, by Region, Through 2026

Table 172: Global Market Volumes of UF Membranes Used in Biopharmaceutical Applications, by Region, Through 2026

Table 173: Global Market for UF Membranes Used in Biopharmaceutical Applications, by Material Type, Through 2026

Table 174: Global Market Volumes of UF Membranes Used in Biopharmaceutical Applications, by Material Type, Through 2026

Table 175: Potential Wastewater Contaminants, by Industry

Table 176: Global Market for UF Membranes Used in Wastewater Applications, by Region, Through 2026

Table 177: Global Market Volumes of UF Membranes Used in Wastewater Applications, by Region, Through 2026

Table 178: Global Market for UF Membranes Used in Wastewater Applications, by Material Type, Through 2026

Table 179: Global Market Volumes of UF Membranes Used in Wastewater Applications, by Material Type, Through 2026

List Of Figures

LIST OF FIGURES

Figure 1: Global Market for Advanced Municipal Water Treatment Technologies, by Region, 2020-2026

Figure 2: Investment Cost of Converting to Non-chlorine Alternatives at Medium-Size Municipal Drinking Water Plants

Figure 3: Share of U.S. Population on Public Water Supply Using Water Treated with Chloramination, 2019

Figure 4: U.S. Population Growth, Projection and Trends, 2020-2060

Figure 5: Total 20-Year Need, by System Size, System Type, and Project Type, January 2015

Figure 6: Share of Total Regulatory Needs, by Microbial and Chemical Regulations, January 2015

Figure 7: U.S. Market for Filtration Technology for Advanced Municipal Water Treatment, by Type of Filtration Technology, 2020-2026

Figure 8: U.S. Market for Membrane Filtration Technology for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 9: Comparison of Membrane Processes

Figure 10: U.S. Market for MBRs for Municipal Water Treatment, 2020-2026

Figure 11: U.S. Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 12: U.S. Market for Ozone Disinfection Systems for Municipal Water Treatment, 2020-2026

Figure 13: U.S. Market for UV Disinfection Systems for Municipal Water Treatment, 2020-2026

Figure 14: U.S. Market for Novel Disinfection Systems for Municipal Water Treatment, by Disinfectant Type, 2020-2026

Figure 15: Global Market for Advanced Technologies for Municipal Water Treatment, by Region, 2020-2026

Figure 16: Global Market Shares of Advanced Technologies for Municipal Water Treatment, by Region, 2020

Figure 17: Global Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020-2026

Figure 18: Global Market Shares of Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020

Figure 19: Global Market for Filtration Technology for Municipal Water Treatment, by Type, 2020-2026

Figure 20: Global Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 21: Global Market Shares of Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020

Figure 22: Global Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 23: Global Market Shares of Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020

Figure 24: North American Market for Advanced Technologies for Municipal Water Treatment, by Country, 2020-2026

Figure 25: North American Market Shares of Advanced Technologies for Municipal Water Treatment, by Country, 2020

Figure 26: North American Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020-2026

Figure 27: North American Market Shares of Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020

Figure 28: North American Market for Filtration Technology for Municipal Water Treatment, by Type, 2020-2026

Figure 29: North American Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 30: North American Market Shares of Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020

Figure 31: North American Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 32: North American Market Shares of Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020

Figure 33: European Market for Advanced Technologies for Municipal Water Treatment, by Country, 2020-2026

Figure 34: European Market Shares of Advanced Technologies for Municipal Water Treatment, by Country, 2020

Figure 35: European Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020-2026

Figure 36: European Market Shares of Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020

Figure 37: European Market for Filtration Technology for Municipal Water Treatment, by Type, 2020-2026

Figure 38: European Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 39: European Market Shares of Membrane Filtration for Municipal Water

Treatment, by Filtration Technology, 2020

Figure 40: European Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 41: European Market Shares of Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020

Figure 42: Asia-Pacific Market for Advanced Technologies for Municipal Water Treatment, by Country, 2020-2026

Figure 43: Asia-Pacific Market Shares of Advanced Technologies for Municipal Water Treatment, by Country, 2020

Figure 44: Asia-Pacific Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020-2026

Figure 45: Asia-Pacific Market Shares of Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020

Figure 46: Asia-Pacific Market for Filtration Technology for Municipal Water Treatment, by Type, 2020-2026

Figure 47: Asia-Pacific Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 48: Asia-Pacific Market Shares of Membrane Filtration for Municipal Water, by Filtration Technology, 2020

Figure 49: Asia-Pacific Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 50: Asia-Pacific Market Shares of Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020

Figure 51: RoW Market for Advanced Technologies for Municipal Water Treatment, by Sub-Region, 2020-2026

Figure 52: RoW Market Shares of Advanced Technologies for Municipal Water Treatment, by Sub-Region, 2020

Figure 53: RoW Market for Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020-2026

Figure 54: RoW Market Shares of Advanced Technologies for Municipal Water Treatment, by Technology Type, 2020

Figure 55: RoW Market for Filtration Technology for Municipal Water Treatment, by Type, 2020-2026

Figure 56: RoW Market for Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020-2026

Figure 57: RoW Market Shares of Membrane Filtration for Municipal Water Treatment, by Filtration Technology, 2020

Figure 58: RoW Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020-2026

Figure 59: RoW Market for Advanced Disinfection Systems for Municipal Water Treatment, by Type, 2020

Figure 60: Global Market for Wastewater Recycling and Reuse Technologies, by Region, 2020-2026

Figure 61: Global Water Distribution, 2020

Figure 62: Global Increase in Water Withdrawal, by Sector, 1960-2020

Figure 63: Global Market Shares of Wastewater Recycling and Reuse Technologies, by Type, 2020

Figure 64: Global Market Shares of Wastewater Recycling and Reuse Technologies in the Agricultural and Nonpotable M&I Reuse Segment, by Region, 2020

Figure 65: Global Market Shares of Wastewater Recycling and Reuse Technologies in the Direct and Indirect Potable Reuse and Environmental Reuse Segment, by Region, 2020

Figure 66: Global Capacity Shares of Wastewater Recycling and Reuse Technologies, by Sector, 2026

Figure 67: Global Market Shares of Wastewater Recycling and Reuse Technologies, by Sector, 2020

Figure 68: Global Market Shares of Municipal Wastewater Recycling and Reuse Technologies, by Region, 2020

Figure 69: Global Market Shares of Industrial Wastewater Recycling and Reuse Technologies, by Region, 2020

Figure 70: Global Market Shares of Wastewater Recycling and Reuse, by Technology, 2020

Figure 71: Global Market Shares of Conventional Treatment Technologies in Wastewater Recycling and Reuse, by Region, 2020

Figure 72: Global Market Shares of Membrane Filtration Technologies* in Wastewater Recycling and Reuse, by Region, 2020

Figure 73: Global Market Shares of Membrane Bioreactor Technologies* in Wastewater Recycling and Reuse, by Region, 2020

Figure 74: Global Market Shares of Chemical-Treatment and Disinfection Technologies in Wastewater Recycling and Reuse, by Region, 2020

Figure 75: Global Market Shares of Demineralization Technologies in Wastewater Recycling and Reuse, by Region, 2020

Figure 76: Global Market Volume Shares of Wastewater Recycling and Reuse Technologies, by End Use, 2020

Figure 77: Global Market Shares of Wastewater Recycling and Reuse Technologies, by End Use, 2020

Figure 78: Global Market Shares of Wastewater Recycling and Reuse Technologies in Agricultural Reuse, by Region, 2020

- Figure 79: Global Market Shares of Wastewater Recycling and Reuse Technologies in Discharge to Surface Water or Groundwater End Uses, by Region, 2020
- Figure 80: Global Market Shares of Wastewater Recycling and Reuse Technologies in Municipal and Industrial Nonpotable Reuse, by Region, 2020
- Figure 81: Global Market Shares of Wastewater Recycling and Reuse Technologies in Direct Potable Reuse, by Region, 2020
- Figure 82: Various Approaches for Nonwoven Filter Media Market
- Figure 83: Global Market Share of Nonwoven Filter Media, by Application, 2020
- Figure 84: Segmentation Covered in the Nonwoven Filter Media Market
- Figure 85: Segmentation Covered in the Nonwoven Filter Media Market
- Figure 86: Type of Fibers for Nonwoven Filter Media Market
- Figure 87: Major Industry Trends for the Nonwoven Filter Media Market
- Figure 88: Major Drivers for the Nonwoven Filter Media Market
- Figure 89: Strategies for the Nonwoven Filter Media Market
- Figure 90: Overview of the Nonwoven Filter Media Market, by Type
- Figure 91: Global Market Share of Nonwoven Filter Media, by Type, 2020
- Figure 92: Depth Filter Segments
- Figure 93: Surface Filter Segments
- Figure 94: Overview of Factors Controlling Nonwoven Filter Media Market
- Figure 95: Applications for the Nonwoven Filter Media Market
- Figure 96: Global Market Shares of Nonwoven Filter Media, by Application, 2020
- Figure 97: Global Increase in Water Withdrawal, by Sector, 1960-2020
- Figure 98: Overview of Membrane-Based Filtration of Nonwoven Filter Media
- Figure 99: Forms of Membranes
- Figure 100: Overview of Water Filtration Applications of Nonwoven Filter Media
- Figure 101: Overview of Transportation Applications of Nonwoven Filter Media
- Figure 102: Overview of Healthcare Applications of Nonwoven Filter Media
- Figure 103: Global Market Shares of Pharmaceutical Industry, by Region, 2020
- Figure 104: Overview of Biofluid Filtration Applications of Nonwoven Filter Media
- Figure 105: Other Major Healthcare Applications of Nonwoven filter media
- Figure 106: Overview of HVAC Applications of Nonwoven Filter Media
- Figure 107: Overview of Food Processing Applications of Nonwoven Filter Media
- Figure 108: Overview of Dairy Applications of Nonwoven Filter Media
- Figure 109: Overview of Brewing Applications of Nonwoven Filter Media
- Figure 110: Overview of Industrial Manufacturing Applications of Nonwoven Filter Media
- Figure 111: Overview of Oil & Gas Applications of Nonwoven Filter Media
- Figure 112: Overview of Electronics Applications of Nonwoven Filter Media
- Figure 113: Methodology Overview
- Figure 114: Global Market for Ultrafiltration Membranes, by Application, 2020-2026

Figure 115: Impact of COVID-19

Figure 116: Market Drivers

Figure 117: Market Challenges

Figure 118: Market Opportunities

Figure 119: Global Market Shares of UF Membranes, by Material Type, 2020

Figure 120: Global Market Shares of UF Membranes, by Membrane Type, 2020

Figure 121: Model Configuration of Hollow Fiber UF Membrane

Figure 122: Global Market Shares of UF Membranes, by Application, 2020

I would like to order

Product name: 2021 Membrane and Filtration Research Review

Product link: <https://marketpublishers.com/r/26E822927D56EN.html>

Price: US\$ 3,000.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/26E822927D56EN.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