

Water and Wastewater Treatment Technologies Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 150 pages | Mordor Intelligence

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Report description:

The water and wastewater treatment technologies market is expected to register a CAGR of over 7% during the forecast period (2022-2027).

The market was negatively impacted by the COVID-19 pandemic in 2020, but it has since observed growth to reach the pre-pandemic levels.

Over the short term, one of the major driving factors of the market is the rapidly diminishing freshwater resources across the world. Increasing demand from shale gas exploration activities and growing wastewater complexities in developing economies are likely to boost the market growth. However, the lack of awareness of optimum utilization of water treatment techniques is likely to restrain the market. Active research on water treatment technologies may provide opportunities for market growth in the future.

Middle-East is likely to witness the highest growth rate during the forecast period.

Water & Wastewater Treatment Technologies Market Trends

The Municipal Water and Wastewater Treatment Segment is Expected to Dominate the Market

Wastewater treatment is necessary and used across the world in different cities. The major applications of treatment technologies include preliminary treatment, primary and secondary treatment, tertiary treatment, biological nutrient removal (BNR), resource recovery, energy generation, etc.

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The global water consumption rate has been increasing by 100% every twenty years. The rising scarcity of potable water and the growing population and water demand are the major concerns driving the demand in the market.

North America and Europe are adopting the latest technologies in wastewater treatment at a faster rate than other regions. The developed regions of North America and Europe are expected to continue the momentum of adoption of the latest technologies.

With an estimated USD 23 billion investment in wastewater treatment and reuse-related capital improvement projects over the next 20 years, the demand in the market studied is expected to rise in the coming years.

Hence, the municipal water and wastewater treatment industry is likely to dominate the market during the forecast period.

Asia-Pacific is Likely to Dominate the Market

Asia-Pacific accounted for the major share of the water and wastewater treatment technologies market due to high demand from countries like China and Japan.

China has been discharging more wastewater than industrial wastewater in recent times. Adding to the issue is the huge problem of pollution, especially in the major industrial locations of the country.

Due to the increase in the urban population throughout the country, 70% of the nation's population is expected to reside in cities by 2030. As the urban population increases, it may also face an influx of wastewater and sludge.

Currently, 80% of sludge in China is improperly dumped, an increasingly controversial environmental issue that has urban centers scrambling to decrease pollution by improving their wastewater treatment plants (WWTPs).

The sewage penetration rate in Japan is ~76%, with the country generating more than 2.2 million ton of sewage sludge on a dry basis. Sewage sludge contains 60-80% organic matter and constitutes a stable source of energy.

Nearly 80% of sewage sludge is recycled and reused, with material recycling in the form of ingredients for cement. In the basic act for the promotion of biomass utilization from 2009, the government had aimed to recycle and reuse 85% of this by 2020 by promoting the use of energies derived from sewage sludge such as biogas.

Hence, Asia-Pacific is likely to dominate the market during the forecast period.

Water & Wastewater Treatment Technologies Market Competitor Analysis

The water and wastewater treatment technologies market is partially fragmented in nature. Some of the major players in the market (not in any particular order) include Veolia, Suez, Evoqua Water Technologies LLC, DuPont, and Kurita Water Industries Ltd.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

1 INTRODUCTION

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1.1 Study Assumptions

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Drivers

4.1.1 Rapidly Diminishing Freshwater Resources

4.1.2 Increasing Demand from Shale Gas Exploration Activities

4.1.3 Growing Wastewater Complexities in Developing Economies

4.2 Restraints

4.2.1 Lack of Awareness on Appropriate Usage of Water Treatment Techniques

4.2.2 Other Restraints

4.3 Industry Value Chain Analysis

4.4 Porter's Five Forces Analysis

4.4.1 Bargaining Power of Suppliers

4.4.2 Bargaining Power of Consumers

4.4.3 Threat of New Entrants

4.4.4 Threat of Substitute Products and Services

4.4.5 Degree of Competition

5 MARKET SEGMENTATION

5.1 Type

5.1.1 Oil/Water Separation

5.1.2 Suspended Solids Removal

5.1.3 Dissolved Solids Removal

5.1.4 Biological Treatment/Nutrient and Metals Recovery

5.1.5 Disinfection/Oxidation

5.1.6 Other Types

5.2 End-user Industry

5.2.1 Municipal Water and Wastewater Treatment

5.2.2 Food and Beverage

5.2.3 Pulp and Paper

5.2.4 Oil and Gas

5.2.5 Healthcare

5.2.6 Poultry and Aquaculture

5.2.7 Chemical and Petrochemical

5.2.8 Other End-user Industries

5.3 Geography

5.3.1 Asia-Pacific

5.3.1.1 China

5.3.1.2 India

5.3.1.3 Japan

5.3.1.4 South Korea

5.3.1.5 ASEAN Countries

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- 5.3.1.6 Rest of Asia-Pacific
- 5.3.2 North America
 - 5.3.2.1 United States
 - 5.3.2.2 Canada
 - 5.3.2.3 Rest of North America
- 5.3.3 Europe
 - 5.3.3.1 Germany
 - 5.3.3.2 France
 - 5.3.3.3 United Kingdom
 - 5.3.3.4 Italy
 - 5.3.3.5 Rest of Europe
- 5.3.4 South America
 - 5.3.4.1 Brazil
 - 5.3.4.2 Argentina
 - 5.3.4.3 Rest of South America
- 5.3.5 Middle-East
 - 5.3.5.1 Saudi Arabia
 - 5.3.5.2 South Africa
 - 5.3.5.3 Rest of Middle-East

6 COMPETITIVE LANDSCAPE

- 6.1 Mergers and Acquisitions, Joint Ventures, Collaborations, and Agreements
- 6.2 Market Share(%)**/Ranking Analysis
- 6.3 Strategies Adopted by Leading Players
- 6.4 Company Profiles
 - 6.4.1 AECOM
 - 6.4.2 Aquatech International LLC
 - 6.4.3 Black & Veatch Holding Company
 - 6.4.4 Doosan Heavy Industries & Construction
 - 6.4.5 DuPont
 - 6.4.6 Ecolab
 - 6.4.7 Evoqua Water Technologies LLC
 - 6.4.8 ITT INC.
 - 6.4.9 Kurita Water Industries Ltd
 - 6.4.10 REMONDIS SE & Co. KG
 - 6.4.11 Schlumberger Limited
 - 6.4.12 Siemens
 - 6.4.13 SUEZ
 - 6.4.14 Veolia

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

- 7.1 Innovations in Water Treatment Technologies

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