

# **Industrial Wastewater Treatment Market by Treatment Technology (Membrane Separation, Activated Sludge, Clarification, Membrane Bio-reactor, and Sludge Digestion), and Application (Food & Beverages, Power, Energy, Mining) — Global Forecast to 2028**

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## **Abstracts**

Industrial Wastewater Treatment Market by Treatment Technology (Membrane Separation, Activated Sludge, Clarification, Membrane Bio-reactor, and Sludge Digestion), and Application (Food & Beverages, Power, Energy, Mining) — Global Forecast to 2028

The research report titled “Industrial Wastewater Treatment Market by Treatment Technology (Membrane Separation, Activated Sludge, Clarification, Membrane Bio-reactor, and Sludge Digestion), and Application (Food & Beverages, Power, Energy, Mining) — Global Forecast to 2028” provides an in-depth analysis of the industrial wastewater treatment market across five major geographies and emphasizes on the current market trends, market size, market shares, recent developments, and forecast till 2028. The Industrial Wastewater Treatment Market is expected to reach USD 78.0 billion by 2028, at a CAGR of 6.8% during the forecast period, 2021-2028.

The growth of this market is mainly attributed to the increasing industrialization and urbanization, declining freshwater resources, increasing energy demand across the globe, rising focus on water quality and public health, and increasing prevalence of water-borne diseases. Rising industrial demand and stringent governmental regulations on treating wastewater are also a few of the key factors driving the growth of the industrial wastewater treatment market.

The study offers a comprehensive analysis of the industrial wastewater treatment

market with respect to the technologies, applications, and geography. The industrial wastewater treatment market is mainly segmented by treatment technologies (membrane separation {Reverse Osmosis [RO] membranes, Ultrafiltration [UF] Membranes, Micro-filtration [MF] membrane, Nano-filtration [NF] membrane, and other membrane separation technology}, activated sludge, clarification, sludge thickening and dewatering, wastewater pre-treatment, chlorination, industrial demineralization, sludge drying, Membrane Bio-reactor [MBR], sludge digestion, sludge incineration, ozonization, activated carbon, electrochemical water treatment, electrochemical scale treatment system, and other treatment technologies), application (food & beverages, pharmaceuticals and chemicals, power, energy, pulp & paper, mining, petrochemicals, semiconductors, and other industrial applications), and geography. The study also evaluates industry competitors and analyzes the market at the country level.

Based on technology, the membrane separation segment is estimated to account for the largest share of the industrial wastewater treatment market in 2021. The large share of this segment is mainly attributed to the rising demand for low energy-consuming water treatment processes, growing emphasis on reducing the use of chemicals in water treatment, and effective purification and reduced cost of operations offered by membrane filtration technology. However, the Membrane Bio-reactor (MBR) segment is expected to witness significant growth during the forecast period.

Based on application, the food & beverages segment is estimated to account for the largest share of the industrial wastewater treatment market in 2021. However, the energy segment is expected to grow at the highest CAGR during the forecast period. The rapid growth of this segment is mainly attributed to the rising demand for clean water and energy.

Geographically, the market is segmented into five major regions: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. Asia-Pacific region is estimated to account for the largest share of the industrial wastewater treatment market in 2021. The large share of this region is primarily attributed to the increasing population, growing manufacturing, pulp & paper, and power generation industries, declining availability of clean water, growing research and development expenditures, and increasing environmental regulations regarding industrial wastewater in the region, especially in developing countries such as China and India.

The key players operating in the industrial wastewater treatment market are Suez Environnement S.A. (France), Xylem, Inc. (U.S.), DuPont de Nemours, Inc. (U.S.), Evoqua Water Technologies Corporation (U.S.), 3M Company, Inc. (U.S.), Pentair plc

(U.K.), United Utilities Group P.L.C. (U.K.), Kingspan Water & Energy (U.K.), The Dow Chemical Company (U.S.), Kemira Oyj (Finland), BASF SE (Germany), Calgon Carbon Corporation (U.S.), Kurita Water Industries Ltd. (Japan), Bio-Microbics, Inc. (U.S.), Trojan Technologies Inc. (Canada), Aquatech International Corporation (U.S.), ASIO, spol. s r.o. (Czech Republic), Orenco Systems, Inc. (U.S.), Scinor Water America, L.L.C. (U.S.), Elgressy Engineering Services Ltd. (Israel), Outotec Oyj (Finland), Blue Eden CleanTech Solutions Inc. (Canada), Solenis (U.S.), Aries Chemical, Inc. (U.S.), Thermax Limited (India), and Lenntech B.V. (Netherlands).

#### Key Questions Answered in the Report-

Which are the high-growth market segments in terms of technology, applications, and geography?

What is the historical market size for the industrial wastewater treatment market?

What are the market forecasts and estimates for the period 2021-2028?

What are the major drivers, restraints, opportunities, and challenges in the industrial wastewater treatment market?

Who are the major players in the market, and what share of the market do they hold?

Who are the major players in various countries, and what share of the market do they hold?

How is the competitive landscape for the industrial wastewater treatment market?

What are the recent developments in the industrial wastewater treatment market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the industrial wastewater treatment

market, and how do they compete with the other players?

## Scope of the Report

### Industrial Wastewater Treatment Market, by Technology

#### Membrane Separation

Reverse Osmosis (RO) Membrane Technology

Ultrafiltration (UF) Membrane Technology

Micro-Filtration (MF) Membrane Technology

Nano-Filtration (NF) Membrane Technology

Other Membrane Separation Technologies

Activated Sludge

Clarification

Sludge Thickening and Dewatering

Wastewater Pre-Treatment

Chlorination

Industrial Demineralization

Sludge Drying

Membrane Bio-reactor (MBR)

Sludge Digestion

Sludge Incineration

Ozonization

Activated Carbon

Electrochemical Water Treatment (EEC/EEO)

Electrochemical Scale Treatment System (E.S.T)

Other Treatments Technologies

#### Industrial Wastewater Treatment Market, by Application

Food & Beverages

Pharmaceuticals and Chemicals

Power

Energy

Pulp and Paper

Mining

Petrochemical

Semiconductors

Other Industrial Applications

#### Industrial Wastewater Treatment Market, by Geography

North America

U.S.

Canada

Mexico

Europe

France

Germany

U.K.

Italy

Spain

Poland

Belgium

Switzerland

Denmark

Sweden

Rest of Europe (RoE)

Asia-Pacific (APAC)

China

Japan

India

Indonesia

Australia

South Korea

Malaysia

Thailand

Vietnam

Philippines

Singapore

Taiwan

New Zealand

Rest of Asia-Pacific (RoAPAC)

Rest of the World

Latin America

Brazil

Chile

Argentina

Rest of Latin America (RoLATAM)

Middle East & Africa

Saudi Arabia

UAE (United Arab Emirates)

Kuwait

Iran

South Africa

Rest of the Middle East (RoME)



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