

Industrial Wastewater Treatment Market by Offering (Treatment Technologies, Treatment Chemicals, Process Control & Automation, Design, Engineering, and Construction Services, Operation & Maintenance services), End User, and Geography - Global Forecast to 2031

<https://marketpublishers.com/r/IAEE7F746296EN.html>

Date: February 2024

Pages: 384

Price: US\$ 4,175.00 (Single User License)

ID: IAEE7F746296EN

Abstracts

The research report titled, “Industrial Wastewater Treatment Market by Offering (Treatment Technologies, Treatment Chemicals, Process Control & Automation, Design, Engineering, and Construction Services, Operation & Maintenance services), End User, and Geography—Forecast to 2031’, provides an in-depth analysis of the global industrial wastewater treatment market in five major regions worldwide and emphasizes on the current market trends, size, and share, recent developments, and forecast till 2031. The global industrial wastewater treatment market is projected to reach \$206.81 billion by 2031, at a CAGR of 6.1% from 2024 to 2031.

The requirement for freshwater in various applications has increased drastically due to considerable growth in the urban population. Industries are among the top freshwater consumers globally. Untreated wastewater from industries is a hazard to the environment as well as water resources. Consequently, government bodies are establishing strict regulations for industrial wastewater treatment due to the growing emphasis on water quality & public health and the increasing prevalence of waterborne diseases. These factors are boosting the demand for various wastewater treatment systems, driving the growth of the industrial wastewater treatment market.

The growth of the global industrial wastewater treatment market is driven by factors such as the lack of freshwater resources, government encouragement, the growing

emphasis on corporate social responsibility, and the need for critical resource recovery from wastewater. However, the high installation, maintenance, and operating costs of wastewater treatment infrastructure restrain the growth of this market.

Furthermore, the growing demand for energy-efficient and advanced wastewater treatment technologies and the generation of green hydrogen from industrial wastewater are expected to provide growth opportunities for the players operating in this market. However, high energy consumption and expenses due to excess sludge production are major challenges impacting market growth.

Based on offering, the global industrial wastewater treatment market is segmented into operation & maintenance services, process control & automation, design, engineering, and construction services, treatment technologies, and treatment chemicals. The process control & automation segment is expected to grow at the highest CAGR during the forecast period. The growth of this segment is attributed to the rising technological complexities in industrial wastewater treatment facilities, the increasing need for operational automation, the rising number of investments in process control systems, and the companies' growing focus on achieving cost & energy-saving targets.

Based on end user, the global industrial wastewater treatment market is segmented into power generation, semiconductor manufacturing, data centers, green hydrogen generation, chemical manufacturing, refining & petrochemicals, oil & gas, pulp & paper, food & beverage, pharmaceutical manufacturing, industrial manufacturing, and other end users. The food & beverage segment is expected to grow at the highest CAGR during the forecast period. The food & beverage industry is one of the major contributors to economic growth globally. Food production is expected to intensify in the coming years due to the growing global population. The food industry needs large volumes of water for production and cleaning. As a result, the industry typically generates a tremendous amount of wastewater with relatively high concentrations of Total Suspended Solids (TSS) and is a major source of environmental pollution. Food & beverage companies are adopting industrial wastewater treatment techniques, including proper screening of waste streams to increase discharge dryness, resulting in lower hauling and waste disposal costs.

Based on geography, the global industrial wastewater treatment market is segmented into Asia–Pacific, Europe, North America, Latin America, and Middle East & Africa. Asia-Pacific is expected to become the fastest-growing region in the global industrial wastewater treatment market by 2031. The market in Asia-Pacific is experiencing growth due to the increasing demand for sustainable and advanced solutions in

response to significant water stress and environmental pollution. The dairy and beverage sector, particularly in China and India, is generating substantial investment opportunities in the region, driving the demand for industrial wastewater treatment solutions.

The market growth in Asia-Pacific is further propelled by the rapid industrial expansion in developing countries, including South Korea, Indonesia, and Vietnam. China and India are poised to take the lead in adopting membrane filtration technology for wastewater treatment in the industrial sector. Some of the factors contributing to the rising demand for industrial wastewater treatment in the region are as follows:

Increasing need for water reclamation and reuse technologies

Rapid depletion of freshwater resources

High demand for energy-efficient and advanced water treatment technologies

Advancements in membrane technology

Government investments in water infrastructure

Increasing research and development expenditure by food and beverage companies.

The key players operating in the global industrial wastewater treatment market are Xylem Inc. (U.S.), SUEZ S.A. (France), Pentair plc (U.K.), Dow Inc. (U.S.), Veolia Environnement S.A. (France), BASF SE (Germany), PPU Umwelttechnik GmbH (Germany), DuPont de Nemours, Inc. (U.S.), Bio-Microbics (U.S.), Thermax Limited (India), Ecolab Inc. (U.S.), Kurita Water Industries, Ltd. (Japan), Kemira Oyj (Finland), GFL Environmental (Canada), 3M Company (U.S.), Kingspan Group plc (U.K.), Calgon Carbon Corporation (U.S.), Trojan Technologies (Canada), Clean TeQ Water Limited (Australia), SWA Water Australia Pty Limited (Australia), Adroit Associates Private Limited (India), Sauber Environmental Solutions (India), SEPC Limited (India), Golder Associates Inc. (Canada), Burns & McDonnell (U.S.), and WOG Technologies (India).

Key Questions Answered in the Report:

Which are the high-growth market segments in terms of offering, end user, and geography?

What is the historical market size for the global industrial wastewater treatment market across the globe?

What are the market forecasts and estimates for the period 2024–2031?

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

Who are the major players in the market, and what are their market shares?

What is the competitive landscape like for the global industrial wastewater treatment market?

What are the recent developments in the global 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 global industrial wastewater treatment market, and how do they compete with other players?

Scope of the Report

Global Industrial Wastewater Treatment Market Assessment—By Offering

Operation & Maintenance Services

Process Control & Automation

Design, Engineering, And Construction Services

Treatment Technologies

Membrane Separation & Filtration

Reverse Osmosis (RO) Membranes

Ultrafiltration (UF) Membranes

Microfiltration (MF) Membranes

Nanofiltration (NF) Membranes

Other Filtration Technologies

Sludge Management

Activated Sludge

Clarification

Activated Carbon

Granular Activated Carbon

Powdered Activated Carbon

Other Activated Carbon

Moving Bed Biofilm Reactor

Chlorination

Membrane Bioreactor

Ion Exchange

UV & Ozone

Dissolved Air Flotation

Other Treatment Technologies

Treatment Chemicals

Global Industrial Wastewater Treatment Market Assessment—By End User

Food & Beverage

Power Generation

Pharmaceutical Manufacturing

Pulp & Paper

Chemical Manufacturing

Oil & Gas

Refining & Petrochemicals

Industrial Manufacturing (Automotive, Heavy, And Metal Industries)

Semiconductor Manufacturing

Data Centers

Green Hydrogen Generation

Other End Users

Global Industrial Wastewater Treatment Market Assessment, By Geography

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Australia

Malaysia

Thailand

Vietnam

Philippines

Singapore

New Zealand

Taiwan

Rest Of Asia-Pacific

Europe

Germany

U.K.

France

Italy

Spain

Poland

Belgium

Switzerland

Denmark

Sweden

Rest of Europe

North America

U.S.

Canada

Latin America

Brazil

Mexico

Chile

Argentina

Rest of Latin America

Middle East & Africa

Saudi Arabia

Uae

Kuwait

South Africa

Iran

Rest of Middle East & Africa

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