

India Water and Wastewater Treatment (Wwt) Technology Market - Growth, Trends, Covid-19 Impact, and Forecast (2023 - 2028)

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Report description:

The Indian water and wastewater treatment (WWT) technology market is projected to register a CAGR higher than 8.5% during the forecast period.

The COVID-19 outbreak negatively affected the Indian economy and the operations of several end-user industries of the market studied. It reduced the outflow of industrial wastewater. The COVID-19 pandemic resulted in a massive drop in oil demand. As a result, the industry's need for water treatment technologies declined. In the food and beverage industry, labor shortages and the shutdown of plants reduced the food production levels in 2020. Furthermore, in the pulp and paper industry, major consumers' reduced imports of packaging material resulted in a domestic oversupply of pulp and paper products in the manufacturing countries. This oversupply issue is negatively affecting the growth of the industry.

Key Highlights

In the medium term, the rapidly diminishing freshwater resources and growing wastewater complexities will likely drive the demand for water and wastewater treatment technologies in India.

The high cost of water treatment plants is expected to hinder the growth of the market studied.

Innovations in water treatment technologies are anticipated to act as an opportunity for the market studied.

India Water & Wastewater Treatment Technology Market Trends

Treatment Equipment to Dominate the Market

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Treatment Equipment technology includes oil/water separation, suspended solids removal, dissolved solids removal, biological treatment/nutrient and metals recovery, disinfection/oxidation, and other treatment equipment.

India is the third-largest producer of coal. Coal production requires plenty of water, and there is a need for extensive wastewater treatment. Clarifiers and disposable filtration equipment are primarily used to treat suspended solids in the mining sector in the country. The COVID-19 pandemic led to mining production and expansion disruptions in 2020, which affected newer equipment adoption for solid treatments.?

According to Financial Express, by 2030, India's water demand will exceed supply by two times, indicating severe water scarcity in the country. This water shortage for industrial and residential use is expected to increase the need for such water treatment systems in the long run.?

Major end-user industries using anaerobic biological treatment in India include municipal wastewater treatment, food and beverage manufacturing, chemical effluent, and agricultural waste. The growing awareness is driving the demand for anaerobic biological treatment equipment in India.

In the fiscal year 2021-2022, it is estimated that the total implementation cost of Swachh Bharat Mission-Urban 2.0 for its various components is INR 1,41,600 crores (~USD 18.998 billion). Out of which, the Government of India's share will be INR 36,465 crores (~USD 4.892 billion), while the rest will be from other sources of funds, including CSR from the public/ private sector, external assistance, etc. It includes the fund allocation for water and wastewater treatment in the country.

India's zinc production witnessed growth in recent years with increasing consumer demand. According to the Economic Times, India consumes over 850,000-900,000 tons of zinc yearly, with an annual growth rate of 7-8%. However, increasingly stringent environmental regulations on zinc production are estimated to hamper the growth of water treatment technologies in recent times.

Due to the abovementioned factors, treatment equipment is expected to dominate the studied market.

The Municipal Segment to Dominate the Market

Wastewater treatment is necessary and used across India in different cities. The significant applications of treatment technologies include preliminary treatment, primary and secondary treatment, tertiary treatment, biological nutrient removal (BNR), resource recovery, and energy generation. Municipal wastewater treatment involves a lot of biomass. Therefore, biological treatment is a significant step used to treat biowaste.

Wastewater technology is primarily used in municipal wastewater treatment by the municipal authority of various cities across India. As per the World Bank, India, along with China, Indonesia, Nigeria, and the United States, will lead the world's urban population surge by 2050.

Moreover, the municipal water treatment in various municipalities in the country is observing a significant increase owing to government initiatives to provide the more rural population with access to safe and adequate drinking water within their premises.

According to the Ministry of Jal Shakti of the Government of India, in FY 2022, the percentage of the rural population having access to safe and adequate drinking water within premises increased to 61.52% from 55.23% in FY2021.

Furthermore, the Indian government is targeting to provide 100% of its population with safe and adequate drinking water within premises by the year 2024 or 2025, which will boost the municipal water treatment plants in the country.

IDE Technologies, an Israeli firm, joined hands with the government of Andhra Pradesh to set up desalination plants in various states to overcome the water scarcity in the cities.

To fulfill the scarcity of water, the Council on Energy, Environment, and Water (CEEW), in association with the 2030 Water Resources Group, is planning to improve wastewater management in India, along with increasing private investments to build wastewater treatment plants.

Over the past few years, the urban sewage capacity in the country grew significantly. This growing capacity will likely drive the

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country's innovative water treatment technology demand.

Hence, owing to the abovementioned factors, municipal water, and wastewater treatment technologies will likely dominate the market during the forecast period.

India Water & Wastewater Treatment Technology Market Competitor Analysis

The Indian water and wastewater treatment (WWT) technology market is partially consolidated, with the major players accounting for a moderate market share. Key players in the market studied include (not in any particular order) Veolia, Suez, Thermax Limited, VA TECH WABAG LIMITED, and DuPont.

Additional Benefits:

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

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