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Water Infrastructure Development Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Infrastructure Type (Water Supply Infrastructure, Wastewater Infrastructure, Stormwater Management Infrastructure), By End-User (Residential, Commercial, Industrial, Municipal), By Project Type (New Construction, Rehabilitation & Upgrades, Operations & Maintenance), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global Water Infrastructure Development Market was valued at USD 25.84 billion in 2024 and is projected to reach USD 46.44 billion by 2030, growing at a CAGR of 10.10% during the forecast period. This growth is primarily driven by rising demand for clean water, increasing concerns around water scarcity, and the urgent need to modernize aging infrastructure. Global water consumption is climbing due to population expansion, industrial growth, and intensified agricultural activities, prompting governments and private entities to invest in infrastructure such as treatment plants, pipelines, wastewater systems, and smart water networks. Climate change has further emphasized the necessity for resilient water systems that can endure extreme weather events. Developed countries are upgrading legacy infrastructure with advanced digital technologies, while emerging markets are rapidly building new systems to expand access to safe water and sanitation. Notably, Asia-Pacific is emerging as the fastest-growing region, supported by large-scale government-backed projects in China, India, and Southeast Asia.

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Key Market Drivers

Increasing Water Scarcity and Demand

The escalating global demand for freshwater and declining availability of resources are major factors fueling investments in water infrastructure. Nearly 4 billion people face water scarcity at least one month annually, and global consumption has surged by about 600% over the past century. Projections suggest a 55% increase in water demand by 2050, particularly from agriculture, which already consumes roughly 70% of freshwater withdrawals. With over 25 countries facing extreme water stress, the urgency for infrastructure expansion is mounting. Leakage losses amount to more than 32 billion cubic meters annually, equating to global economic losses of over USD 9 billion. In response, initiatives for expanding reservoirs, deploying smart water grids, and implementing desalination and reuse technologies are gaining momentum to address rising demand and reduce wastage.

Key Market Challenges

High Capital Costs and Long Payback Periods

A major hurdle in the development of water infrastructure is the substantial capital required for project execution, along with long financial return periods. Building treatment plants, pipelines, and desalination facilities often involves investments in the hundreds of millions of dollars, with payback timelines extending over a decade or more. This poses a challenge for developing economies that face budget limitations and constrained access to international funding. Furthermore, private investors remain cautious due to the sector’s complex regulations and limited profitability. Project delays due to land acquisition, permitting, and planning inefficiencies further impact feasibility. Additionally, variable material costs and workforce shortages contribute to frequent budget overruns.

Key Market Trends

Rise of Decentralized Water Treatment Solutions

A growing shift toward decentralized water systems is reshaping the infrastructure landscape, particularly in underserved and rapidly urbanizing regions. These modular systems—ranging from compact wastewater units to localized drinking water treatment

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and greywater recycling technologies—offer advantages such as faster deployment, reduced transmission losses, and adaptability to population growth. Decentralized infrastructure is proving vital in rural communities, disaster-prone zones, and off-grid industrial sites. These systems also promote water reuse, support local resource cycles, and offer cost-effective alternatives to traditional centralized systems. Regulatory support is increasing, with several countries introducing guidelines to facilitate decentralized deployment and encourage sustainable water practices. As demand rises for localized, flexible, and low-carbon solutions, decentralized models are becoming an integral part of future infrastructure planning.

Key Market Players

Veolia Water Technologies

Xylem Inc.

AQUAFINE Corporation

Trojan Technologies

Kurita Water Industries Ltd.

Calgon Carbon Corporation

Advanced Oxidation Technologies

Pall Corporation

Lenntech B.V.

Aquatech International

Report Scope:

In this report, the Global Water Infrastructure Development Market has been segmented into the following categories, in addition to the industry trends which have also been

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detailed below:

Water Infrastructure Development Market, By Infrastructure Type:

- Water Supply Infrastructure
- Wastewater Infrastructure
- Stormwater Management Infrastructure

Water Infrastructure Development Market, By End-User:

- Residential
- Commercial
- Industrial
- Municipal

Water Infrastructure Development Market, By Project Type:

- New Construction
- Rehabilitation & Upgrades
- Operations & Maintenance

Water Infrastructure Development Market, By Region:

- North America
  - United States
  - Canada
  - Mexico

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- Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
- South America
  - Brazil
  - Argentina
  - Colombia
- Asia-Pacific
  - China
  - India
  - Japan
  - South Korea
  - Australia
- Middle East & Africa
  - Saudi Arabia
  - UAE

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South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Water Infrastructure Development Market.

Available Customizations:

Global Water Infrastructure Development Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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