Water Recycling and Reuse Market 2020 Global Trend, Segmentation and Opportunities, Forecast 2024

Water Recycling and Reuse -Market Demand, Growth, Opportunities and Analysis Of Top Key Player Forecast To 2024

PUNE, MAHARASHTRA, INDIA, March 5, 2020 /EINPresswire.com/ -- Water Recycling and Reuse Industry

Description

The global market for wastewater recycling and reuse reached nearly $12.2 billion in 2016 and should reach $22.3 billion by 2021, at a compound annual growth rate (CAGR) of 13.1%.

Threats associated with global water scarcity are increasingly making news as continued growth in agricultural production, expansion of urban boundaries, new industrial facilities, and increased sensitivity to environmental needs drive increased water demand. Supply side constraints for water are further exacerbated by increasingly intense and frequent drought events, such as the recent four-year (2012 to 2016) California drought that drove tens of billions of dollars of economic losses in the agricultural sector alone. Even more dramatic, a long-term drought in the Middle East that has, arguably, been ongoing since 1998. Now widely thought to be brought on by climate change, the drought was recently characterized by NASA scientists as being the worst that the region has experienced in 900 years. In response to these concerns, water supply managers in water-stressed areas around the globe are increasingly looking to creative solutions to solve increasing and increasingly expensive water supply deficits.

One key development in water supply markets is the differentiation of potable and non-potable water.Potable water must meet stringent baseline public health requirements in order to ensure that waterborne diseases and harmful levels of pollutants are not passed to human populations. In contrast, agricultural irrigation, landscape irrigation, toilet flushes, and in some cases water released into the environment does not necessarily have to meet such stringent and high treatment requirements.

This differentiation has allowed water managers to implement wastewater recycling and reuse, where water is treated to minimum standards needed to meet these non-potable needs. Alternatively, treated wastewater discharged into rivers has, for decades (albeit with little notice), been mixed with natural waters then withdrawn miles downstream, treated, and used for municipal supply. In contrast, direct potable reuse, where wastewater is treated at a wastewater treatment facility and then directly injected into a water supply system, has been sensationalized and media-branded “toilet to tap” thanks to its “yuck factor.” However, recent droughts are pushing consumers past these labels, especially in waterscarce and population-dense regions like California, where multiple direct potable reuse projects are currently being considered for deployment.

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By 2030, it is estimated that there will be a global unfulfilled water demand, according to the European Commission, of roughly 3,000 cubic kilometers. Global wastewater production is approximately half that volume. Not all wastewater flows are recoverable, but many, perhaps most, are; this is especially true as nations around the globe develop wastewater collection and treatment infrastructures. Thus, a proliferation in wastewater recycling over the coming decades could support a significant lessening of
water stress in many water-stressed areas. As consumers finally start to embrace the reality of technological solutions that can reliably clean wastewater, potable reuse will become much more widespread and, indeed, commonplace in water stressed areas.

Report Scope:

The scope of this report includes the following categories of wastewater reuse and recycling technologies:

- Conventional treatment and recycling technologies.
- Membrane filtration technologies.
- Membrane bioreactor technologies.
- Chemical treatments and disinfection technologies.
- Demineralization technologies.

The current version of this report includes additional breakdowns by recycled water application, which consists of:

- Environmental water and groundwater recharge (discharge to surface water or groundwater).
- Municipal non-potable reuse.
- Indirect potable reuse.
- Direct potable reuse.

WGR Research analyzes the anticipated market values in light of regional and global markets for wastewater recycling and reuse. This report examines governments' roles with respect to wastewater quality management, wastewater recycling and reuse, as well as governmental support and incentives for the utilization of reclaimed wastewater. This study provides a review of the most relevant recycling and reuse technologies; discusses recent trends in technology development, implementation and deployment; and provides overviews and market assessments for each technology. Estimated values used are based on manufacturers' total revenues.

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Report Includes:

- An overview of the most prevalent water recycling and reuse technologies in the global market, as well as the markets and applications those technologies serve.
- Analyses of global market trends, with data from 2015 and 2016, and projections of compound annual growth rates (CAGRs) through 2021.
- A detailed look at the factors that will drive the growth of the market, as well as sources of project funding and regulation requirements.
- A breakdown of the industry structure.
- A patent analysis.
- Comprehensive company profiles of major players in the industry.

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