

Rainwater Harvesting Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Type (Rain Barrel System, Dry System, Wet System, and Green Roof System), By Harvesting Method (Above Ground (Ground Surface and Storage Tank) and Under Ground), By Application (Residential, Commercial, Industrial, and Agricultural), By Region, Competition

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Abstracts

Global Rainwater Harvesting market is propelled by the growing water scarcity, depleting groundwater levels, and awareness for water preservation for. The advantages for the usage of harvested water for irrigation & other purposes, reduces the amount of the water bill generated, associated with rainwater harvesting are fuelling the growth of the market globally.

Rainwater harvesting is referred to as a method of collecting and storing water to be used in the future. The rainwater can be stored in natural reservoirs or tanks, which are then redirected into a well or borehole. This water is used for different purposes, such as gardening or irrigation. After proper treatment, the water can also be used in households as high-quality drinking water. Rainwater harvesting is capable of decreasing the risk of urban flooding and soil erosion by ensuring water availability in different areas that have water scarcity. Out of all the water on Earth, 97 % is saltwater, leaving a mere 3 % as freshwater. However, 2% of freshwater is trapped under the ice at the poles, so all humankind relies on just 1% of that freshwater. That 1% of Earth's water that the humankind relies on is located underground, so it is difficult as well as expensive to extract. The increase of water usage worldwide has risen by 1% for every

year since 1980 and is predicted to grow about 20% - 30% larger until 2050. The rapid growth of population followed by industrialization and urbanization depending on the water consumption has resulted in water shortage, where 20% of world population is experiencing water scarcity.

Many cities across the globe are considering the rainwater harvesting (RWH) method as a feasible alternative supply for high-rise buildings. The potential of rainwater harvesting is considerable in urban areas since a roof, or impermeable materials cover many cities. Water gathered from residential or commercial building roofs is another way to decrease potable and non-potable water demand. Rainwater harvesting is a method or technology to collect rainfall from roofs, ground surfaces, pavement, or rock beds to be potentially used as alternative water resources. This practice is not only a source to partially meet water demand but also a way to reduce urban flooding when installed tanks store rainwater.

Rising Cutting-edge Rainwater Purification Systems is Fueling the Market Growth

The rise in the adoption of cutting-edge Rainwater Purification Systems helps to reduce Water prices for the residential sector. Innovations in rainwater purification systems are contributing to market growth. The U.S. and Canada-based rainwater harvesting specialist, known as Rainwater Management Solutions, is boosting the sale of rainwater purification systems through its online presence. Manufacturers in the rainwater harvesting market are improving the availability of purification systems catering to home applications to reduce water costs and supplement drinking and bathing water.

Upsurge in Innovations and Urban Techniques is Driving the Market Growth

Increasing urbanization, population growth, aging infrastructure, and extreme weather events such as droughts and bushfires have pushed urban water managers into exploring more innovative ways to tackle increasingly complex traditional problems. Water-sensitive urban design (WSUD) is one of the widespread techniques in which urban rainwater is managed across the developing countries. Since WSUD is concerned with both quantitative and qualitative issues, being the major growth driver for the market.

Increasing IoT Applications with Smart City Developments is Driving the Market Growth

Internet of Things (IoT) has come a long way in its relatively short history while the consumer applications still account for most IoT adoptions, businesses and even local

governments have started relying on these technologies. As the smart city movement emerges, IoT sensors and devices are installed on a city-wide scale across the globe. With smart city spending at USD 32.12 billion in 2020 in the United States, the IoT city infrastructure has near-countless benefits for the rainwater harvesting systems. This is the major trend for the enormous growth of the global rainwater harvesting market in the forecast period.

Trend of Green Technologies is Driving the Market Growth

Environmentally conscious population has started to focus on green rainwater harvesting strategies. This helps in imitating the ecological functions of natural wetlands that can absorb rainfall and runoffs by reducing the number of runoffs leaving the development sites. There has been an increasing focus on treating the water runoff with smaller decentralized structures rather than larger detention basins located below the drainage area. Green infrastructure techniques consist of permeable pavements, rain gardens, bioretention cells (or bioswales), vegetative swales, infiltration trenches, green roofs, planter boxes, stormwater management, rooftop (downspout) disconnection, and urban tree canopies. Hence, the green technologies are expected to spur the growth of the global rainwater harvesting market in the forecast period.

Growing Government Initiatives is Driving the Market Growth

The upsurge in the government initiatives that leads to the increased awareness about the benefits of rainwater harvesting management is the major driver for the market. For instance, on March 29, 2021, the United States Environment Protection Agency announced the Sewer Overflow and Stormwater Reuse Municipal Grants (OSG) program which will provide funding for critical rainwater harvesting infrastructure projects in communities including combined sewer overflows (CSO) and sanitary sewer overflows (SSO) in the country.

Market Segmentation

Based on type, the Global Rainwater Harvesting Market is segmented into rain barrel system, dry system, wet system, and green roof system. Based on harvesting method, the market is fragmented into above ground and underground. Based on above ground harvesting method, the market is divided into ground surface and storage tank. Based on application, the market is segmented into residential, commercial, industrial, and agricultural. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among North America, Europe, Asia-Pacific,

South America, and Middle East & Africa.

Company Profiles

Rainwater Harvesting Ltd., Watts Water Technologies, Heritage Water Tanks, Water Field Technologies Pvt. Ltd., Innovative Water Solutions LLC, Kingspan Group Plc., Graf UK Ltd., Tosca Tech Rainwater Harvesting System, B.S. Rain Harvesting Co., Filtracon Technology Private Limited, Ashwath Infratech., are among the major market players in the global platform that lead the market growth of the global Rainwater Harvesting market.

Report Scope:

In this report, the global Rainwater Harvesting market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Rainwater Harvesting Market, By Type:

Rain Barrel System

Dry System

Wet System

Green Roof System

Rainwater Harvesting Market, By Harvesting Method:

Above Ground

Ground Surface

Storage Tank

Under Ground

Rainwater Harvesting Market, By Application:

Residential

Commercial

Industrial

Agricultural

Rainwater Harvesting Market, By Region:

Asia-Pacific

China

Japan

India

Australia

New Zealand

South Korea

Thailand

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Netherlands

Switzerland

Middle East & Africa

Saudi Arabia

UAE

Qatar

Kuwait

South Africa

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global Rainwater Harvesting market.

Available Customizations:

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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