

Saudi Arabia Solar Water Desalination Plant Market By Membrane Process (Ultrafiltration Systems, Vacuum Evaporation and Distillation, Reverse Osmosis Systems, Paper Bed Filters, Solid Bowl Centrifuges, Tramp Oil Separators, Vacuum Filters, And Others), By Method (Solar-powered Humidification-Dehumidification (HDH) Desalination, Solar Diffusion Driven Desalination, Solar Membrane Distillation, Concentrated Solar Power (CSP)- based Desalination, and Solar Pond Desalination), By Industry (Industrial, Agriculture, Domestic, Municipal, and Commercial), By Region, Competition Forecast and Opportunities, 2028

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Report description:

Saudi Arabia Solar Water Desalination Plants Market is expected to register a high CAGR during the forecast period.

Saudi Arabia is the world's largest nation without access to running surface water with one of the highest water consumption rates. The use of solar energy for water desalination is gaining popularity in Saudi Arabia, a country that is characterized by its arid climate and limited freshwater resources. The country has set ambitious targets to increase its reliance on renewable energy sources, including solar, as part of its Vision 2030 initiative.

Total water consumption has surpassed 8 million cubic meters per day (m³/d) and is expected to reach 12.3 million m³/d by 2040, with daily water consumption per person at 263 liters in 2019.

As of 2019, Saudi Arabia had 204 wastewater treatment facilities. Much of the non-potable wastewater that had been processed

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was used for "grey water" irrigating crops, watering urban green spaces, or being recycled in the industrial sector. The Kingdom's water reuse market is estimated to be worth \$4.69 billion, placing it third in the world behind China and the United States. Treated and repurposed wastewater is less expensive to produce on average than desalinated water; as a result, the country regards it as a critical source of water for certain uses and has set a goal of achieving 100% reuse of treated urban wastewater by 2025.

High installation cost

The installation of a solar water desalination plant is costly. Solar water desalination plants necessitate a significant amount of sludge, energy, and money. Additionally, specialized knowledge and abilities are required, and chemicals such as hydrogen peroxide, chlorine, and hydrochloric acid are used as byproducts prior to the desalination process. Saline water desalination plants discharge large amounts of brine into the ocean or sea. In addition to concentrated salt, this brine contains chemicals such as anti-scaling agents from pre and post-treatment. As a result, brine disposal is a concern that may slow the rate of adoption of all desalination processes.

Municipal industry contributes significantly

The municipal industry contributes significantly to the solar water desalination plant's CAGR. The municipal segment is expected to experience strong revenue growth over the forecast period due to urbanization and the resulting expansion of urban infrastructure, which has increased demand for resources such as water and electricity. The municipal sector provides water fit for human consumption to the world's urban population. Furthermore, the municipal sector is expected to see an increase in demand for solar water desalination plants as the cost of desalinated waterfalls and the cost of surface water in urban areas rises.

Market Segmentation

The Saudi Arabia Solar Water Desalination Plant Market is divided into Membrane Process, Method, Industry, Regional and Competitive landscape. Based on Membrane Process, the market is divided into Ultrafiltration Systems, Vacuum Evaporation and Distillation, Reverse Osmosis Systems, Paper Bed Filters, Solid Bowl Centrifuges, Tramp Oil Separators, Vacuum Filters, And Others. By Method, the market is divided into Solar-powered Humidification-Dehumidification (HDH) Desalination, Solar Diffusion Driven Desalination, Solar Membrane Distillation, Concentrated Solar Power (CSP)- based Desalination, and Solar Pond Desalination. By Industry, the market is divided into Industrial, Agriculture, Domestic, Municipal, and Commercial. By Region, the market is divided into Riyadh, Makkah, Eastern Province, Rest of Saudi Arabia

The demand for waters resources is fueling the market for Solar Water Desalination Plant Market and exhibiting a robust compound annual growth rate (CAGR) during the forecast period.

Market Players

Alfanar Group, Abdul Latif Jameel Energy, Rawafid Systems, Saline Water Conversion Corporation (SWCC), RAHA Water Treatment Corporation, Environmental Equipment Company Ltd., SAWACO Water - Desalination, TORAY MEMBRANE MIDDLE EAST LLC. (TMME), Tech Universal Arabia, WETICO, are some of the major market players operating in the market.

The key players have created many key developments and strategies to drive the Saudi Arabia Solar Water Desalination Plants Market.

Report Scope:

In this report, the Saudi Arabia Solar Water Desalination Plants Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

- Saudi Arabia Solar Water Desalination Plants Market, By Membrane Process:

- o Solar-powered Reverse Osmosis
- o Membrane Distillation
- o Electro-dialysis and Electro-dialysis Reversal
- o Nano Filtration
- o Others

- Saudi Arabia Solar Water Desalination Plants Market, By Method:

- o Solar-powered Humidification-Dehumidification (HDH) Desalination
- o Solar Diffusion Driven Desalination
- o Solar Membrane Distillation

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- o Concentrated Solar Power (CSP)- based Desalination
- o Solar Pond Desalination
- Saudi Arabia Solar Water Desalination Plants Market, By Industry:
 - o Industrial
 - o Agriculture
 - o Domestic
 - o Municipal
 - o Commercial
- Saudi Arabia Solar Water Desalination Plants Market, By Region:
 - o Riyadh
 - o Makkah
 - o Eastern Province
 - o Rest of Saudi Arabia
- Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Solar Water Desalination Plants Market.

Available Customizations:

With the given market data, Tech Sci 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.

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