

Saudi Arabia Mobile Sea Water Reverse Osmosis (SWRO) Treatment Plants - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Saudi Arabia Mobile Sea Water Reverse Osmosis Treatment Plants Market size is estimated at USD 334.64 million in 2025, and is expected to reach USD 477.74 million by 2030, at a CAGR of 7.38% during the forecast period (2025-2030).

Key Highlights

- In Saudi Arabia, the market for mobile seawater reverse osmosis treatment plants is being propelled by the nation's growing population, urbanization, and challenges related to water scarcity.
- However, the market faces challenges due to the high capital and operational costs associated with these plants.
- Nevertheless, integrating mobile seawater reverse osmosis (SWRO) treatment plants with renewable energy sources presents a significant opportunity to enhance water treatment solutions in Saudi Arabia.

Saudi Arabia Mobile Sea Water Reverse Osmosis (SWRO) Treatment Plants Market Trends

Refinery and Petrochemical Sector Expected to Dominate in Mobile SWRO Plant Applications in Saudi Arabia

- Mobile Sea Water Reverse Osmosis (SWRO) plants are stepping up to meet the high-quality water demands of refineries and petrochemical plants, providing essential cooling, steam generation, and chemical reaction needs through seawater desalination.
- Modern SWRO systems, equipped with energy recovery devices, are slashing energy consumption during desalination. This advancement not only boosts their cost-effectiveness for industrial applications but also plays a pivotal role in ensuring sustainable and economical operations for water-hungry refineries and petrochemical plants.

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- In the Saudi Arabia Mobile Sea Water Reverse Osmosis (SWRO) Treatment Plants market, the refinery and petrochemical sectors lead with a commanding 43.31 percent revenue share. Municipalities follow, holding 32.15 percent, while the energy and power sector accounts for 17.79 percent. This distribution underscores the petrochemical sectors' heightened water demand and the challenges in tailoring water supply systems to their specific operational needs.
- Aligning with its Vision 2030 aspirations, the Saudi Arabian government is heavily investing in Sea Water Reverse Osmosis (SWRO) treatment plants.
- Take the Yanbu Desalination Plant, for example. This pivotal project, contracted at approximately USD 317 million to VA TECH WABAG, boasts a design capacity of 300 million liters per day (MLD) of desalinated water, poised to cater to the region's industrial and residential water demands.
- In a forward-looking move, the Ministry of Investment of Saudi Arabia, in December 2023, spotlighted a whopping USD 600 billion investment in the petrochemical sector, set for realization by 2030.
- Given these developments, the Refinery and Petrochemical sector is poised to maintain its market dominance.

Rising Population and Urbanization to Drive the Market

- Saudi Arabia's population growth has led to increased water consumption across domestic, industrial, and agricultural sectors. In 2023, the population reached 36.94 million, spurring a 70% rise in demand for potable water. Consequently, the Kingdom's total annual water demand surged to approximately 25.29 billion m³, with forecasts suggesting a slight increase to 25.79 billion m³ by 2025.
- Given Saudi Arabia's desert climate and its constraints on freshwater resources, desalination has become essential to meet the nation's water needs. By 2025, the Kingdom aims to achieve a desalination capacity of 8.5 million cubic meters per day, enough to cater to the daily water needs of around 34 million households.
- Despite their effectiveness, large-scale stationary desalination plants often find it challenging to keep up with the swiftly escalating demand. In contrast, mobile seawater reverse osmosis (SWRO) treatment plants can be rapidly deployed to bolster water supplies in regions witnessing significant growth.
- As the population expands, so does the demand for potable water, sanitation, and industrial usage. With urban populations on the rise, mobile SWRO systems present a flexible solution, providing additional water supplies as needed, sidestepping the immediate need for permanent desalination infrastructure.
- The Saudi government is spearheading the development of new cities and ambitious projects like NEOM, a forward-thinking city emphasizing advanced technologies and sustainability. These urban developments often emerge in remote areas, where water infrastructure remains underdeveloped.
- During the construction and initial operational phases of such projects, mobile SWRO treatment plants offer a swift, temporary solution for fresh water supply. They serve as an interim measure until the establishment and activation of permanent desalination plants.
- Given these considerations, the market is poised for growth in the coming years.

Saudi Arabia Mobile Sea Water Reverse Osmosis (SWRO) Treatment Plants Industry Overview

The Saudi Arabia mobile seawater reverse osmosis (SWRO) treatment plants market is semi-consolidated. Some of the key players in this market (in no particular order) include the National Shipping Company of Saudi Arabia (Bahri), Veolia Environnement SA, Get Water Co Ltd, Meft International Company, and Al Kafaah LLC.

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

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