

Global Solar Desalination Device Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Solar Desalination Device market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Solar desalination uses solar radiation energy to remove salt and minerals from seawater through thermal conversion and physical separation processes to obtain fresh water. This device does not rely on fossil fuels and is a clean and renewable way of utilizing energy, which is of great significance to solving the problem of global water shortage. Solar desalination collects solar radiation energy through solar panels or collectors and converts it into heat or electricity. The collected heat or electric energy is used to drive the heating element, and the seawater is heated to a boiling state to generate water vapor. After the water vapor enters the condenser, it encounters cold air or cooling medium and condenses into liquid water, thereby realizing the desalination of seawater. The condensed fresh water is collected and stored in a water storage tank for subsequent use. According to the different energy utilization methods, solar desalination devices can be divided into two categories: passive and active. Passive solar desalination devices use solar energy to directly heat seawater, and achieve evaporation and condensation of seawater through natural convection and radiation heat dissipation, without the need for additional electric energy to drive. This type of device has a simple structure and low cost, but the water output is relatively low and is greatly affected by the weather. In addition to using solar energy to heat seawater,

active solar desalination devices are also equipped with auxiliary equipment such as water pumps and heat exchangers, which can actively recover the latent heat released by steam during the condensation process, thereby increasing water production and efficiency. Although this type of device has a complex structure and high cost, it has a large water output and good stability.

With the advancement of science and technology, the performance and efficiency of solar desalination devices are constantly improving. Modern solar desalination systems usually use high-efficiency photovoltaic panels and advanced reverse osmosis membrane technology, which can more effectively utilize solar energy and produce high-quality fresh water. Technological progress has also brought about cost reductions, making the return on investment of solar desalination technology higher. In the future, solar desalination technology will continue to innovate with the goal of improving efficiency and reliability. For example, developing more efficient photovoltaic materials, optimizing the performance of reverse osmosis membranes, etc. In summary, the solar desalination market is in a rapid development stage and has broad market prospects in the future.

This report is a detailed and comprehensive analysis for global Solar Desalination Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solar Desalination Device market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solar Desalination Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solar Desalination Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Solar Desalination Device market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solar Desalination Device

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solar Desalination Device market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE Water, Doosan Heavy Industries, Acciona, SolarSpring, Solar Water Solutions, Solar desalination factory, IDROMAR International, Atlantic UV, SunD Water, Resolute Marine Energy, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Solar Desalination Device market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Passive

Active

Market segment by Application

Water Supply for Islands and Coastal Cities

Agricultural Irrigation

Industrial Water

Other

Major players covered

GE Water

Doosan Heavy Industries

Acciona

SolarSpring

Solar Water Solutions

Solar desalination factory

IDROMAR International

Atlantic UV

SunD Water

Resolute Marine Energy

John Thompson Solar Systems

Solar Desalination Systems

Phoenix Energy

SunCulture

Aqua Sun International

SunToWater Technologies

Meva Energy

AusOcean

SunFT Water Technologies

Shenzhen Youber Technology

Laitelade (Shanghai) Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solar Desalination Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Desalination Device, with price, sales quantity, revenue, and global market share of Solar Desalination Device from 2020 to 2025.

Chapter 3, the Solar Desalination Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Desalination Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Solar Desalination Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar Desalination Device.

Chapter 14 and 15, to describe Solar Desalination Device sales channel, distributors, customers, research findings and conclusion.

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