

Global Solar Based Water Desalination Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Based Water Desalination market size is expected to reach \$ 2448 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

The gross profit margin of major companies in the industry is between 22% ? 40%.

Solar-based water desalination refers to systems that use solar energy to power thermal or membrane desalination processes for converting saline water into freshwater. It is increasingly used in remote communities, islands, industrial sites, and water-stressed regions where conventional grid power is limited or costly.

The industrial chain of SolarbasWateDesaliatio includes upstream solar panels, thermal collectors, membranes, pumps, filters, storage tanks, and control units. Midstream covers desalination system integration, skids, assembly, commissioning, and water quality testing. Downstream applications mainly include island water supply, remote communities, industrial utilities, emergency water treatment, and decentralized freshwater projects.

The solar-based water desalination market is gaining traction due to growing water scarcity, renewable energy adoption, and off-grid water security needs. Photovoltaic (PV) and concentrated solar power (CSP) technologies enable sustainable, low-carbon freshwater production. Key applications include remote communities, islands, and industrial wastewater treatment. Market growth is supported by falling solar costs, technological advancements in membrane distillation, and government incentives for water-energy solutions. Manufacturers focus on compact, energy-efficient, and cost-effective modular systems for scalable deployment.

This report studies the global Solar Based Water Desalination demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Based Water Desalination, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar Based Water Desalination that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Based Water Desalination total market, 2021-2032, (USD Million)

Global Solar Based Water Desalination total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Solar Based Water Desalination total market, key domestic companies, and share, (USD Million)

Global Solar Based Water Desalination revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solar Based Water Desalination total market by Type, CAGR, 2021-2032, (USD Million)

Global Solar Based Water Desalination total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Solar Based Water Desalination market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Acciona, SolarSpring (Fraunhofer), Boreal Light, WaterFX, GivePower, Desalitech (DuPont), Kyocera, Genesis Water Technologies, Solar Water PLC, Elemental Water Makers, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Solar Based Water Desalination market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solar Based Water Desalination Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Based Water Desalination Market, Segmentation by Type:

Solar Thermal Distillation

Solar Reverse Osmosis

Solar Membrane Distillation

Global Solar Based Water Desalination Market, Segmentation by System Scale:

Small-scale Solar Desalination System

Medium-scale Solar Desalination System

Large-scale Solar Desalination System

Global Solar Based Water Desalination Market, Segmentation by Energy Configuration:

Standalone Solar Desalination System

Hybrid Solar Desalination System

Grid-connected Solar Desalination System

Global Solar Based Water Desalination Market, Segmentation by Application:

Drinking Water Supply

Agricultural Irrigation

Industrial Water Supply

Other

Companies Profiled:

Acciona

SolarSpring (Fraunhofer)

Boreal Light

WaterFX

GivePower

Desalitech (DuPont)

Kyocera

Genesis Water Technologies

Solar Water PLC

Elemental Water Makers

Victron Energy

Sungrow

Shanghai Electric

Fresh Water Group

Soueast

Gongyuan Environment

Hegang Group (Water Business)

Haimiao Solar

Zhongyuan Environmental

Key Questions Answered

1. How big is the global Solar Based Water Desalination market?
2. What is the demand of the global Solar Based Water Desalination market?
3. What is the year over year growth of the global Solar Based Water Desalination market?
4. What is the total value of the global Solar Based Water Desalination market?
5. Who are the Major Players in the global Solar Based Water Desalination market?
6. What are the growth factors driving the market demand?

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