

Global Solar Steam Turbine 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 Steam Turbine market size was valued at US\$ 1054 million in 2024 and is forecast to a readjusted size of USD 1854 million by 2031 with a CAGR of 7.7% during review period.

A Solar Steam Turbine is a power generation system that uses solar energy to produce steam, which is then used to drive a steam turbine and generate electricity. This process is typically part of Concentrated Solar Power (CSP) systems. CSP technologies use mirrors or lenses to focus sunlight onto a receiver, where it heats a working fluid (such as water or oil). This fluid produces steam, which drives a steam turbine connected to an electricity generator. The generated electricity can then be used for both grid and off-grid applications.

The solar steam turbine market is a subset of the larger renewable energy and concentrated solar power (CSP) market. The growth of this market is driven by several factors, including the increasing global demand for clean and renewable energy, advancements in CSP technology, and the need for decarbonizing the energy sector.

Market Size & Growth:

The global solar thermal energy market, including CSP systems, is growing at a compound annual growth rate (CAGR) of approximately 7%. The solar steam turbine market is expanding as more countries invest in CSP projects, with a particular focus on regions that receive high solar insolation, such as the Middle East, North Africa, Southern Europe, and parts of the United States and Australia. By 2030, it is estimated that the CSP market will significantly contribute to the global energy mix, with increasing

investments in utility-scale CSP plants.

Key Drivers:

Renewable Energy Transition: There is a global shift towards cleaner energy sources to combat climate change and reduce reliance on fossil fuels. Solar steam turbines play a key role in this transition. **Government Incentives and Policies:** Many governments around the world are offering incentives, subsidies, and policies to promote solar energy adoption, including CSP and steam turbine technologies. For example, tax credits, grants, and long-term power purchase agreements (PPAs) for CSP developers. **Energy Storage Demand:** CSP systems, including solar steam turbines, are particularly well-suited for coupling with thermal energy storage systems, providing consistent power output even during non-sunny hours. This makes them a preferred option for balancing grid demand. **Technological Advancements:** Improvements in turbine efficiency, heat transfer fluids, and solar collectors have made CSP and solar steam turbines more cost-effective and commercially viable.

Key Challenges:

High Initial Costs: The capital investment for CSP plants, including the solar steam turbine systems, is relatively high compared to other renewable technologies like wind and photovoltaic (PV) solar. **Land and Water Use:** CSP plants require large tracts of land and significant amounts of water for cooling purposes, which can limit their applicability in water-scarce regions. **Intermittency and Storage:** While CSP with thermal storage can mitigate intermittency issues, the overall integration of solar steam turbines with existing grids, especially in regions with less sunlight, remains a challenge.

This report is a detailed and comprehensive analysis for global Solar Steam Turbine 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 Steam Turbine market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Solar Steam Turbine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Solar Steam Turbine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (USD/KW), 2020-2031

Global Solar Steam Turbine market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (USD/KW), 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 Steam Turbine
- 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 Steam Turbine 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 General Electric, Siemens, Dongfang Turbine, Shanghai Electric, Hangzhou Steam Turbine(HTC), Harbin Electric Corporation, Mitsubishi Power, MAN Energy Solutions, Fuji Electric, Ebara Elliott, etc.

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

Market Segmentation

Solar Steam Turbine 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

Non-Condensing Steam Turbine

Condensing Steam Turbine

Market segment by Application

Small Plant

Large Plant

Major players covered

General Electric

Siemens

Dongfang Turbine

Shanghai Electric

Hangzhou Steam Turbine(HTC)

Harbin Electric Corporation

Mitsubishi Power

MAN Energy Solutions

Fuji Electric

Ebara Elliott

Doosan

Ansaldo

Kawasaki Heavy Industries

Power Machines

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 Steam Turbine product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Solar Steam Turbine 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 Steam Turbine 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 Steam

Turbine.

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

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