

Global Solar Thermal Power Market Size Study, by System (Thermosiphon Solar Heating System, Pumped Solar Heating System), by Application (Hot Water Systems, Solar Combi Systems, Swimming Pool Heating, Others) and Regional Forecasts 2022-2032

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Abstracts

The Global Solar Thermal Power Market is valued at approximately USD 23.51 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 4.50% over the forecast period 2024-2032. Solar thermal power, a pivotal player in the transition towards sustainable energy solutions, leverages sunlight to produce heat for applications such as electricity generation, hot water systems, and industrial processes. The market is driven by increasing environmental consciousness, supportive government policies, and technological innovations that enhance system efficiency. Despite challenges like high initial costs and intermittency, the versatility and scalability of solar thermal power make it a key contender in the renewable energy landscape. Governments worldwide are setting ambitious targets, propelling the market forward through financial incentives and regulatory frameworks. Ongoing advancements in collector designs, heat storage materials, and overall system optimization contribute to the market's competitiveness. As industries and consumers seek cleaner energy alternatives, the global solar thermal power market continues to evolve, presenting a promising and sustainable solution for meeting the world's growing energy needs.

The primary drivers propelling the global solar thermal power market include the global commitment to renewable energy sources and climate change mitigation, rising global energy demand, and technological advancements. Solar thermal power's ability to provide dispatchable power that aligns with the dynamic needs of the electricity grid

makes it an attractive solution for meeting peak demand and enhancing grid reliability. Innovations in collector design, heat storage materials, and power cycle configurations further contribute to increased energy capture and improved overall system performance, making solar thermal power more competitive with conventional and other renewable energy sources.

The high initial costs and capital intensity associated with developing and installing solar thermal power plants, particularly those employing Concentrated Solar Power (CSP) technologies, pose significant challenges. The intermittency of solar energy generation, land use requirements, and the relative lack of standardized designs also hinder the widespread adoption of solar thermal technology. However, the ongoing research and development efforts aim to overcome these challenges by driving innovation, reducing costs, and emphasizing the unique advantages of solar thermal power, such as its potential for integrated energy storage and high-temperature heat applications.

Europe dominates the global solar thermal power market due to a combination of favourable factors, including strong commitment to renewable energy and sustainability policies, robust government support, and flourishing technological innovation. The region's expertise in developing cutting-edge collector designs, heat storage materials, and power cycle configurations positions it as a hub for innovation in the solar thermal sector. The global solar thermal power market is poised for significant growth, contributing to the global renewable energy transition. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period.

Major market players included in this report are:

Acciona Energía, S.A.

BrightSource Energy, Inc.

Siemens AG

Enel S.p.A.

Abengoa S.A.

China General Technology (Group) Holding Co., Ltd.

SolarReserve LLC

Novatec Solar

Andalusia New Energies

Areva Solar

The detailed segments and sub-segment of the market are explained below:

By System:

Thermosiphon Solar Heating System

Pumped Solar Heating System

By Application:

Hot Water Systems

Solar Combi Systems

Swimming Pool Heating

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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