

Global Solar Thermal Market Size study & Forecast, by Application (Hot Water Systems, Solar Combi Systems, Swimming Pool Heating, Others) by End Use (Residential, Commercial, Industrial), by Collector Type (Evacuated Tube Collector, Flat Plate Collector, Unglazed Water Collector, Air Collector), by System (Thermosiphon Solar Heating System, Pumped Solar Heating System) and Regional Analysis, 2023-2030

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Abstracts

Global Solar Thermal Market is valued at approximately USD 22.60 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.10% over the forecast period 2023-2030. Solar thermal is a technology that harnesses the energy from sunlight to produce heat. It provides a clean and renewable source of energy, reducing reliance on fossil fuels and lowering greenhouse gas emissions. Solar thermal technology can be particularly useful in areas with abundant sunlight and high demand for heat. The Solar Thermal Market is expanding because of factors such as rising demand for electricity, rising demand and adoption of sustainable and efficient heating solutions and growing integration of low carbon power generation technologies.

Rising demand for electricity across the world is driving the market growth. As solar thermal are highly used in residential area to generate electricity as a renewable source. According to International European Agency, there has been a rise in electricity demand in the residential sector in the year 2018 the total electricity demand for the residential sector was 6 thousand TWh which increases to 7 thousand TWh in the year 2020 and it is expected to reach at 10 thousand Twh by year 2040. As a result, the rise in demand for electricity demand in the residential sector is leveraging the market growth.

Furthermore, according to International European Agency, Worldwide, In 2020, there were 250 million homes with water heating provided by solar thermal technologies. Also, According to the Net Zero Emissions by 2050 Scenario (NZE Scenario), 400 million residences will require the installation of 290 million additional solar thermal systems by the year 2030. This deployment objective takes into account the anticipated retirement of solar thermal systems in the 2020s. According to the IEA Solar Heating and Cooling (SHC) TCP, 120 million new solar thermal systems using developing technologies and 170 million new solar thermal systems using traditional technologies must be implemented by 2030.. In addition, rising government initiatives for the adoption of renewable energies and rising technological advancement in the industry is driving the market growth. However, the high cost of solar thermal Market stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Solar Thermal Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Europe dominated the market in 2022 owing to the rising government support in solar renewable energy projects, rising investment and adoption of renewable sources of renewable energies for electricity generation in the region. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising residential and industrial sector, rising demand for green energies, geographic expansion of key players, and active participation of government and nonprofit organizations in the market space.

Major market player included in this report are:

Solareast Holdings Co. Ltd
Greenonetec Solarindustrie GmbH
BTE solar Co. Ltd
Linuo Ritter International Co. Ltd
Photon Energy Systems Limited
HTP Comfort Solutions LLC
Viessmann Manufacturing Company Inc.
Alternate Energy Technologies LLC
Aalborg CSP AS
Savosolar Oyj

Recent Developments in the Market:

In July 2021, a Concentrated Solar Thermal (CST) testing facility was created in Hyderabad. This facility allows solar thermal components including solar receiver tubes, heat transfer fluids, and concentrating mirrors to be put to the test.

Global Solar Thermal Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Application, End Use, Collector Type, System, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Application:

Hot Water Systems

Solar Combi Systems

Swimming Pool Heating

Others

By End Use:

Residential

Commercial

Industrial

By Collector Type:

Evacuated Tube Collector

Flat Plate Collector

Unglazed Water Collector

Air Collector

By System:

Thermosiphon Solar Heating System

Pumped Solar Heating System

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

Rest of the World

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