

Global Solar Thermal Fuel Market Growth 2026-2032

<https://marketpublishers.com/r/G594E689AEF2EN.html>

Date: August 2026

Pages: 117

Price: US\$ 3,660.00 (Single User License)

ID: G594E689AEF2EN

Abstracts

The global Solar Thermal Fuel market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Solar Thermal Fuel (STF) is a new energy storage technology that can convert solar energy into chemical energy and store it for long periods of time, releasing it when needed. Currently, it is still in the research stage.

This technology uses materials with reversible molecular structure changes that can convert light energy into chemical energy and store it when receiving solar energy. When energy is needed, these materials can be restored to their original structure by external stimuli (such as heating), releasing the stored chemical energy.

STF has the potential to become a clean and sustainable energy storage technology, providing a new solution for our future energy needs.

It is expected that global demand for photovoltaic products will remain high in the next few years. According to our PV & Solar Research Center, by the end of 2022, the global cumulative installed photovoltaic power generation capacity is about 1180 GW. According to the data of China Photovoltaic Industry Association, the global newly installed photovoltaic capacity in 2022 is about 230 GW, and this number in 2023 is predicted to be 280-330 GW. According to the data of the Ministry of Industry and Information Technology, the total output value of China's photovoltaic industry exceeded 1.4 trillion yuan in 2022. From the perspective of production value, mainland China is still the global center of the PV industry. According to the International Energy Agency, China market share in all key products of the supply chain have exceeded 80%. Among them, the production capacity of silicon wafers, solar cells, and components accounts for as high as 98%, 85% and 77%, respectively. According to the data released by the European Photovoltaic Association, 27 EU countries gained a new

PV installed capacity of 41.4 GW in 2022. According to the report of the US Solar Energy Industries Association (SEIA), the US held a new PV installed capacity of less than 19 GW in 2022. But it is estimated that from 2023, the average annual growth rate of new photovoltaic installed capacity will exceed 21%. In terms of Japan, based on data from Fitch and the US Energy Information Administration (EIA), in 2022, Japan's newly installed photovoltaic capacity was 3.439 GW.

LP Information, Inc. (LPI) ' newest research report, the "Solar Thermal Fuel Industry Forecast" looks at past sales and reviews total world Solar Thermal Fuel sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Thermal Fuel sales for 2026 through 2032. With Solar Thermal Fuel sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Thermal Fuel industry.

This Insight Report provides a comprehensive analysis of the global Solar Thermal Fuel landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Thermal Fuel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Thermal Fuel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Thermal Fuel and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Thermal Fuel.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Thermal Fuel market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermochemical Heating

Photochemical Heating

Biochemical Heating

Segmentation by Application:

Industrial Energy Supply

Agriculture

Automobile

Construction

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Synhelion

Heliogen

SinoVoltaics

Massachusetts Institute of Technology

Solar Energy Industries Association

Tata Center for Technology and Design

International Energy Agency

Australian Solar Thermal Energy Association

European Solar Thermal Electricity Association

International Solar Energy Society.

Fraunhofer ISE

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Thermal Fuel market?

What factors are driving Solar Thermal Fuel market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Thermal Fuel market opportunities vary by end market size?

How does Solar Thermal Fuel break out by Type, by Application?

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