

Global Thin-film Solar Cell Market Growth 2025-2031

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Abstracts

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The global Thin-film Solar Cell market size is predicted to grow from US\$ 11850 million in 2025 to US\$ 21670 million in 2031; it is expected to grow at a CAGR of 10.6% from 2025 to 2031.

Thin film solar cells refer to the fact that these types of solar cells use a much thinner level of photovoltaic material than mono-crystalline or multi-crystalline solar cells. The thin-film solar cells are made by depositing one or more thin layers, or thin film (TF) of photovoltaic material on a substrate, such as glass, plastic or metal. Thin-film solar cells are commercially used in several technologies, including cadmium telluride (CdTe), copper indium gallium diselenide (CIGS), and amorphous thin-film silicon (a-Si, TF-Si)

Now, the leading manufacturers of Thin-film Solar Cells located in the USA, Japan and China, such as First Solar (USA), occupied 50% market share, followed by Solar Frontier (Japan), Sharp Thin Film (Japan) and Hanergy (China), they occupied 18%, 4%, 6% market share, thus the four leading companies hold above 80% market share in the world market. There is a big gap between domestic companies and abroad companies, the major companies include Hanergy, ENN Energy Holdings and Topray Solar in China.

LP Information, Inc. (LPI) ' newest research report, the "Thin-film Solar Cell Industry Forecast" looks at past sales and reviews total world Thin-film Solar Cell sales in 2024, providing a comprehensive analysis by region and market sector of projected Thin-film Solar Cell sales for 2025 through 2031. With Thin-film Solar Cell sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thin-film Solar Cell industry.

This Insight Report provides a comprehensive analysis of the global Thin-film Solar Cell 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 Thin-film Solar Cell portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thin-film Solar Cell market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thin-film Solar Cell 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 Thin-film Solar Cell.

This report presents a comprehensive overview, market shares, and growth opportunities of Thin-film Solar Cell market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CdTe Thin-Film Solar Cells

CIS/CIGS Thin-Film Solar Cells

A-Si Thin-Film Solar Cells

Segmentation by Application:

Residential Application

Commercial Application

Utility Application

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.

First Solar

Solar Frontier

Sharp Thin Film

MiaSole

NexPower

Stion

Calyxo

Kaneka Solartech

Bangkok Solar

Wurth Solar

Global Solar Energy

Hanergy

ENN Energy Holdings

Topray Solar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thin-film Solar Cell market?

What factors are driving Thin-film Solar Cell market growth, globally and by region?

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

How do Thin-film Solar Cell market opportunities vary by end market size?

How does Thin-film Solar Cell break out by Type, by Application?

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