

Global Thin Film Photovoltaics Market Size study & Forecast, by Type (Cadmium Telluride (CdTe), Amorphous Silicon (a-Si), Copper Indium Gallium Diselenide (CIGS)) by End-Users (Residential, Commercial, Utility) and Regional Analysis, 2022-2029

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Abstracts

Global Thin Film Photovoltaics Market is valued approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2029. The second generation of solar cells, known as thin-film photovoltaics, are created by depositing one or more thin layers, or thin films, of photovoltaic material over a substrate comprised of plastic, glass, or metal. The major driving factor for the market are favorable policies to adopt renewable energy and growing demand for renewable energy. Moreover, reduction in carbon emission is creating lucrative growth opportunity for the market over the forecast period.

The market in 2020 has witnessed a 3% increase in the usage of renewable energy, while demand for all other fuels has decrease according to International Energy Agency (IEA). The main factor was an increase of roughly 7% in the production of power from renewable sources. Despite decreasing electricity demand, building delays and supply chain issues in many regions of the world, renewable energy growth was supported by long-term contracts, priority access to the floating grid, and continued installation of new plants. As a result, the proportion of renewable energy in the world's electrical generation increased from 27% in 2019 to 29% in 2020. The government of different nations are investing the advancement and construction of thin film photovoltaics which is majorly driving the growth for the market over the forecasted period. Major supportive government policy is to achieve the renewable energy target and achieve the targeted plan according to The World Bank. For instance, U.S. Department of Energy announced on February 5, 2020 that it would contribute USD 130 million toward 55–80 projects



under this initiative. However, the high cost of Thin Film Photovoltaics stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Thin Film Photovoltaics Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the space in terms of revenue, owing to growing technological advancement in the region and increasing demand for solar energy in countries such as United States, Canada. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising development of semiconductors in the electronics industry and rising demand for solar energy.

Major market player included in this report are:

MiaSol?

Avancis GmbH

Solar Frontier K.K.

First Solar

Solibro GmbH

Kaneka Corporation

Sharp Electronics Corporation USA

Ascent Solar Technologies, Inc.

Xunlight (Kunshan) Co., Ltd.

TS Solar GmbH

Recent Developments in the Market:

In June 2019, MiaSol? announced improvements to the FLEX-03W solar module that will increase output while significantly reducing weight. With successful applications in off-grid and on-grid settings, the improved device is made to weigh just 5.6 kg and deliver up to 540W.

PowerFLEX+ FG-M1, a 55W thin-film PV module from Global Solar that is more streamlined, flexible, and only a metre long, was released in March 2019. The product is expected to have a wide range of uses in mobile homes and off-grid regions, expanding the company's product line.

Global Thin Film Photovoltaics Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered Type, End-Users, 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 Type offerings of key players. The detailed segments and sub-segment of the market are explained below: By Type:

Cadmium Telluride (CdTe)

Amorphous Silicon (a-Si)

Copper Indium Gallium Diselenide (CIGS)

By End-Users:

Residential

Commercial

Utility

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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