

# Thin-Film Solar Cell Market Worth \$25.3 Billion by 2030

*Global Thin-Film Solar Cell Market projected to grow at a CAGR of 8.4% from 2021 to 2030*

WILMINGTON, DE, UNITED STATES,  
December 17, 2024 /  
EINPresswire.com/ --

According to a new report published by Allied Market Research, the [thin-film solar cell market](#) size was valued at \$11.3 billion in 2020, and is projected to reach \$25.3 billion by 2030, growing at a CAGR of 8.4% from 2021 to 2030.

A thin-film solar cell is a second-generation solar cell that is 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). Thin-film solar cells are cost-effective and is an efficient way to transform sunlight into electricity. These films own the property of bandgap and requires 10 times lesser quantity of material to absorb light as compared to silicon.



Technological evolution of thin film solar cell, increasing solar power demand and rise in urbanization are the current trend expected to influence the Global Thin film solar cell Market.”

*Allied Market Research*



Download PDF Brochure:

<https://www.alliedmarketresearch.com/request-sample/2294>

Asia-Pacific dominated the global thin-film solar cell market in 2020, and is projected to remain the fastest-growing segment during the forecast period. This is attributed to numerous factors such as a large consumer

base and industrialization & urbanization.

The key players operating and profiled in the [global thin-film solar cell industry](#) report include Ascent Solar Technologies, Filsom AG, First Solar, Hanergy mobile energy, Kaneka corporation, Miasole, Mitsubishi Heavy Industries, Shunfeng International Clean Energy, SUNQ, and Trony Solar.

The thin-film solar cell market is anticipated to witness considerable growth during the forecast period. This is attributed to factors such as rise in demand for rooftop solar among residential & commercial application is the important factor of pushing the market growth.

The factors that drive the market growth are increase in awareness toward green energy, rise in energy consumption across the globe, growth in installation flexibility, and cost & performance efficiency of thin-film solar cell.

Rise in environmental concerns and increase in research activities in the field of thin-film solar cells provide a substantial growth opportunity to market.

Enquiry Before Buying: <https://www.alliedmarketresearch.com/purchase-enquiry/2294>

Rise in product modernization and technological advancement is anticipated to create new opportunities for thin-film solar cell market in the coming years.

High initial manufacturing cost and technological complexity associated with the use of thin-film solar cells hamper the market growth.

Thin-films are easier to work with and utilize low cost substrate that make them relatively cheaper compared to silicon. Moreover, several research activities resulted into the increased efficiency of thin-film solar cell, which beat multi-crystalline silicon cells.

Depending on type, the market is categorized into cadmium telluride, amorphous thin-film silicon, copper indium gallium selenide, microcrystalline tandem cells, thin-film polycrystalline silicon, and others. Cadmium telluride segment holds the largest [thin-film solar cell market share](#) in 2020.

According to installation, it is divided into on-grid and off-grid. The on-grid segment accounted for the largest market share in 2020.

Procure This Report (390 Pages PDF with Insights, Charts, Tables, and Figures):  
<https://bit.ly/4gDvtTI>

As per the end user, it is classified into residential, commercial, and utility. The utility segment accounted for the largest market share in 2020.

## COVID-19 Impact on the Market

The manufacturing of thin-film solar cell was halted for a specific period due to high peak of COVID-19 situation, which significantly impacted the sales of thin-film solar cell.

Sales of thin-film solar cell are directly proportional to the demand for solar panels. Solar projects have been negatively impacted amid the lockdown imposed due to the COVID-19 outbreak and recorded a huge decline in sales of thin-film solar cell.

Construction plays a vital role in the development of solar industry. The COVID-19 pandemic severely impacted integrated construction industry across the globe. Factors include disruption due to migration of workers and unavailability of material. However, decrease in construction activity significantly impacted the thin-film solar cell market.

COVID-19 impacted almost all industries by hindering various industrial operations and disrupting the supply chain. Maximum companies halted their operation due to less workforce. However, there is a sluggish decline in the global thin-film solar cell market due to impact of COVID-19.

Get a Customized Research Report: <https://www.alliedmarketresearch.com/request-for-customization/2294>

Import and export activities were significantly impacted, which, in turn, adversely affected the industries using thin-film solar cell, thereby affecting the global thin-film solar cell market.

Trending Reports in Energy and Power Industry:

Perovskite Solar Cell Market

<https://www.alliedmarketresearch.com/perovskite-solar-cell-market-A13745>

Solar Cell and Module Market

<https://www.alliedmarketresearch.com/solar-cell-and-module-market-A207453>

Crystalline Silicon PV Cell Market

<https://www.prnewswire.com/news-releases/crystalline-silicon-pv-cell-market-to-reach-52-8-billion-globally-by-2033-at-3-9-cagr-allied-market-research-302222324.html>

Solar Cell Paste Market

<https://www.prnewswire.com/news-releases/solar-cell-paste-market-to-reach-29-1-billion-globally-by-2033-at-13-2-cagr-allied-market-research-302210758.html>

HIT(HJT) Solar Cell Market

<https://www.alliedmarketresearch.com/hit-hjt-solar-cell-market-A194384>

Transparent Solar Cells Market

<https://www.alliedmarketresearch.com/transparent-solar-cells-market-A53571>

Solar Cell Market

<https://www.alliedmarketresearch.com/solar-cell-market-A08602>

Thin-Film Solar Cell Market

<https://www.globenewswire.com/news-release/2022/05/31/2453254/0/en/Thin-Film-Solar-Cell-Market-Is-Expected-to-Reach-25-3-Billion-by-2030-Allied-Market-Research.html>

Solar Encapsulation Market

<https://www.alliedmarketresearch.com/solar-encapsulation-market>

Solar Cell Films Market

<https://www.alliedmarketresearch.com/solar-cell-films-market>

Polymer Solar Cells Market

<https://www.alliedmarketresearch.com/polymer-solar-cells-market-A10741>

Organic Solar Cells Market

<https://www.alliedmarketresearch.com/organic-solar-cells-market-A15556>

Solar Energy Market

<https://www.alliedmarketresearch.com/solar-energy-market>

About Us

Allied Market Research (AMR) is a full-service market research and business-consulting wing of

Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients to make strategic business decisions and achieve sustainable growth in their respective market domain.

Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

David Correa  
Allied Market Research  
+1 800-792-5285

[email us here](#)

Visit us on social media:

[Facebook](#)

[X](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/769625349>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.