

Global CdTe Photovoltaic Market Growth 2026-2032

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Abstracts

The global CdTe Photovoltaic market size is predicted to grow from US\$ 5195 million in 2025 to US\$ 7542 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

CdTe Photovoltaic is a photovoltaic product that uses cadmium telluride (CdTe) or cadmium telluride selenide (CdSeTe) thin films as the core light-absorbing layer and glass as the main substrate and encapsulation carrier. Its cell structure typically includes conductive glass, a transparent conductive layer, a semiconductor functional layer, a back contact layer, and electrodes. These are formed through thin film deposition, material processing, and laser scribing to create a series cell structure, which is then encapsulated, edge-sealed, and electrically connected to create modules or building-integrated photovoltaic (BIPV) glass. CdTe material has strong light absorption capabilities, enabling photoelectric conversion with a relatively thin semiconductor layer, making it a major commercial thin-film photovoltaic technology. Modern CdTe cells often incorporate CdSeTe material to improve spectral absorption and device performance.

CdTe photovoltaics have developed into two main product forms: standard modules and building-integrated photovoltaic (BIPV) products. Standard CdTe modules are characterized by standard sizes, opacity, and large-scale manufacturing, primarily targeting ground-mounted power plants and photovoltaic systems that do not serve as building envelopes. CdTe photovoltaic glass serves both as a power generation and building component, primarily used in curtain walls, facades, roofs, skylights, canopies, shading, balustrades, and transportation infrastructure.

Building-integrated photovoltaics (BIPV) products must possess both photovoltaic and building product attributes. After BIPV components are removed, the building must be replaced with traditional building components with the same function. Photovoltaic

products installed only on existing roofs or wall surfaces and not replacing building materials are considered building-integrated photovoltaics (BAPV) and not BIPV. IEC 63092-1 covers the requirements for BIPV components used as building products, while IEC 63092-2 covers BIPV requirements at the installation structure and system levels.

CdTellin photovoltaic glass combines the attributes of thin-film photovoltaic manufacturing and architectural glass processing. Manufacturing capabilities typically cover conductive glass processing, semiconductor deposition, material activation, back contact, laser scribing, encapsulation, edge sealing, testing, and electrical connections; architectural products also involve processing steps such as lamination, insulated glass, coloring, patterning, irregular shapes, and structural connections. Industry competitiveness is primarily reflected in large-scale thin-film manufacturing capabilities, power per unit area, product reliability, architectural customization capabilities, regional certifications, engineering delivery capabilities, and accumulated customer projects.

Compared to standard photovoltaic modules, the transparency, color, pattern, glass construction, and non-power-generating areas of CdTe BIPV products directly affect the power per unit area. Semi-transparent and colored products typically have lower W/m², but higher product value per unit area and building system value.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CdTe Photovoltaic 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 CdTe Photovoltaic.

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

Segmentation by Type:

- Standard Opaque CdTe Modules
- Opaque BIPV Photovoltaic Glass
- Semi-transparent Photovoltaic Glass
- Colored/Printed/Decorative Type
- Custom Sizes/Irregular Shapes
- Laminated Safety Glass/IGU
- Other

Segmentation by Efficiency:

- Conversion Efficiency 17%
- Conversion Efficiency 18%
- Conversion Efficiency 19%

Segmentation by Users:

- Centralized PV Power Plants

Distributed and BIPV

Segmentation by Application:

Large-scale Ground-mounted Power Plants

Commercial and Industrial Rooftops/BAPV

BIPV Facades/Curtain Walls

BIPV Roofs/Skylights/Canopies

BIPV Lighting/Semi-transparent Enclosures

Infrastructure/Transportation/Off-grid/Other

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

Kaisheng

Advanced Solar Power

Kaifeng Chenya

Mingyang Thin Film Technology

SEG Longyan

ANTEC Solar

Zoom Solar

Zhongshan Ruike

Key Questions Addressed in this Report

What is the 10-year outlook for the global CdTe Photovoltaic market?

What factors are driving CdTe Photovoltaic market growth, globally and by region?

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

How do CdTe Photovoltaic market opportunities vary by end market size?

How does CdTe Photovoltaic break out by Type, by Application?

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