

Global CdTe Photovoltaic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CdTe Photovoltaic market size is expected to reach \$ 7766 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global CdTe Photovoltaic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CdTe Photovoltaic and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CdTe Photovoltaic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CdTe Photovoltaic total production and demand, 2021-2032, (MW)

Global CdTe Photovoltaic total production value, 2021-2032, (USD Million)

Global CdTe Photovoltaic production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global CdTe Photovoltaic consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: CdTe Photovoltaic domestic production, consumption, key domestic

manufacturers and share

Global CdTe Photovoltaic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global CdTe Photovoltaic production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global CdTe Photovoltaic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global CdTe Photovoltaic market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include First Solar, Kaisheng, Advanced Solar Power, Kaifeng Chenya, Mingyang Thin Film Technology, SEG Longyan, ANTEC Solar, Zoom Solar, Zhongshan Ruike, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World CdTe Photovoltaic market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CdTe Photovoltaic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CdTe Photovoltaic Market, 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

Global CdTe Photovoltaic Market, Segmentation by Efficiency:

Conversion Efficiency 17%

Conversion Efficiency 18%

Conversion Efficiency 19%

Global CdTe Photovoltaic Market, Segmentation by Users:

Centralized PV Power Plants

Distributed and BIPV

Global CdTe Photovoltaic Market, 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

Companies Profiled:

First Solar

Kaisheng

Advanced Solar Power

Kaifeng Chenya

Mingyang Thin Film Technology

SEG Longyan

ANTEC Solar

Zoom Solar

Zhongshan Ruike

Key Questions Answered:

1. How big is the global CdTe Photovoltaic market?
2. What is the demand of the global CdTe Photovoltaic market?
3. What is the year over year growth of the global CdTe Photovoltaic market?
4. What is the production and production value of the global CdTe Photovoltaic market?
5. Who are the key producers in the global CdTe Photovoltaic market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 CdTe Photovoltaic Introduction
- 1.2 World CdTe Photovoltaic Supply & Forecast
 - 1.2.1 World CdTe Photovoltaic Production Value (2021 & 2025 & 2032)
 - 1.2.2 World CdTe Photovoltaic Production (2021-2032)
 - 1.2.3 World CdTe Photovoltaic Pricing Trends (2021-2032)
- 1.3 World CdTe Photovoltaic Production by Region (Based on Production Site)
 - 1.3.1 World CdTe Photovoltaic Production Value by Region (2021-2032)
 - 1.3.2 World CdTe Photovoltaic Production by Region (2021-2032)
 - 1.3.3 World CdTe Photovoltaic Average Price by Region (2021-2032)
 - 1.3.4 North America CdTe Photovoltaic Production (2021-2032)
 - 1.3.5 Europe CdTe Photovoltaic Production (2021-2032)
 - 1.3.6 China CdTe Photovoltaic Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 CdTe Photovoltaic Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 CdTe Photovoltaic Major Market Trends

2 DEMAND SUMMARY

- 2.1 World CdTe Photovoltaic Demand (2021-2032)
- 2.2 World CdTe Photovoltaic Consumption by Region
 - 2.2.1 World CdTe Photovoltaic Consumption by Region (2021-2026)
 - 2.2.2 World CdTe Photovoltaic Consumption Forecast by Region (2027-2032)
- 2.3 United States CdTe Photovoltaic Consumption (2021-2032)
- 2.4 China CdTe Photovoltaic Consumption (2021-2032)
- 2.5 Europe CdTe Photovoltaic Consumption (2021-2032)
- 2.6 Japan CdTe Photovoltaic Consumption (2021-2032)
- 2.7 South Korea CdTe Photovoltaic Consumption (2021-2032)
- 2.8 ASEAN CdTe Photovoltaic Consumption (2021-2032)
- 2.9 India CdTe Photovoltaic Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World CdTe Photovoltaic Production Value by Manufacturer (2021-2026)
- 3.2 World CdTe Photovoltaic Production by Manufacturer (2021-2026)

3.3 World CdTe Photovoltaic Average Price by Manufacturer (2021-2026)

3.4 CdTe Photovoltaic Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global CdTe Photovoltaic Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for CdTe Photovoltaic in 2025

3.5.3 Global Concentration Ratios (CR8) for CdTe Photovoltaic in 2025

3.6 CdTe Photovoltaic Market: Overall Company Footprint Analysis

3.6.1 CdTe Photovoltaic Market: Region Footprint

3.6.2 CdTe Photovoltaic Market: Company Product Type Footprint

3.6.3 CdTe Photovoltaic Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: CdTe Photovoltaic Production Value Comparison

4.1.1 United States VS China: CdTe Photovoltaic Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: CdTe Photovoltaic Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: CdTe Photovoltaic Production Comparison

4.2.1 United States VS China: CdTe Photovoltaic Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: CdTe Photovoltaic Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: CdTe Photovoltaic Consumption Comparison

4.3.1 United States VS China: CdTe Photovoltaic Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: CdTe Photovoltaic Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based CdTe Photovoltaic Manufacturers and Market Share, 2021-2026

4.4.1 United States Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers CdTe Photovoltaic Production Value

(2021-2026)

4.4.3 United States Based Manufacturers CdTe Photovoltaic Production (2021-2026)

4.5 China Based CdTe Photovoltaic Manufacturers and Market Share

4.5.1 China Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers CdTe Photovoltaic Production Value (2021-2026)

4.5.3 China Based Manufacturers CdTe Photovoltaic Production (2021-2026)

4.6 Rest of World Based CdTe Photovoltaic Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers CdTe Photovoltaic Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers CdTe Photovoltaic Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World CdTe Photovoltaic Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Standard Opaque CdTe Modules

5.2.2 Opaque BIPV Photovoltaic Glass

5.2.3 Semi-transparent Photovoltaic Glass

5.2.4 Colored/Printed/Decorative Type

5.2.5 Custom Sizes/Irregular Shapes

5.2.6 Laminated Safety Glass/IGU

5.2.7 Other

5.3 Market Segment by Type

5.3.1 World CdTe Photovoltaic Production by Type (2021-2032)

5.3.2 World CdTe Photovoltaic Production Value by Type (2021-2032)

5.3.3 World CdTe Photovoltaic Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY EFFICIENCY

6.1 World CdTe Photovoltaic Market Size Overview by Efficiency: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Efficiency

6.2.1 Conversion Efficiency 17%

6.2.2 Conversion Efficiency 18%

6.2.3 Conversion Efficiency 19%

6.3 Market Segment by Efficiency

6.3.1 World CdTe Photovoltaic Production by Efficiency (2021-2032)

6.3.2 World CdTe Photovoltaic Production Value by Efficiency (2021-2032)

6.3.3 World CdTe Photovoltaic Average Price by Efficiency (2021-2032)

7 MARKET ANALYSIS BY USERS

7.1 World CdTe Photovoltaic Market Size Overview by Users: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Users

7.2.1 Centralized PV Power Plants

7.2.2 Distributed and BIPV

7.3 Market Segment by Users

7.3.1 World CdTe Photovoltaic Production by Users (2021-2032)

7.3.2 World CdTe Photovoltaic Production Value by Users (2021-2032)

7.3.3 World CdTe Photovoltaic Average Price by Users (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World CdTe Photovoltaic Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Large-scale Ground-mounted Power Plants

8.2.2 Commercial and Industrial Rooftops/BAPV

8.2.3 BIPV Facades/Curtain Walls

8.2.4 BIPV Roofs/Skylights/Canopies

8.2.5 BIPV Lighting/Semi-transparent Enclosures

8.2.6 Infrastructure/Transportation/Off-grid/Other

8.3 Market Segment by Application

8.3.1 World CdTe Photovoltaic Production by Application (2021-2032)

8.3.2 World CdTe Photovoltaic Production Value by Application (2021-2032)

8.3.3 World CdTe Photovoltaic Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 First Solar

9.1.1 First Solar Details

9.1.2 First Solar Major Business

9.1.3 First Solar CdTe Photovoltaic Product and Services

9.1.4 First Solar CdTe Photovoltaic Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.1.5 First Solar Recent Developments/Updates

9.1.6 First Solar Competitive Strengths & Weaknesses

9.2 Kaisheng

9.2.1 Kaisheng Details

9.2.2 Kaisheng Major Business

9.2.3 Kaisheng CdTe Photovoltaic Product and Services

9.2.4 Kaisheng CdTe Photovoltaic Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.2.5 Kaisheng Recent Developments/Updates

9.2.6 Kaisheng Competitive Strengths & Weaknesses

9.3 Advanced Solar Power

9.3.1 Advanced Solar Power Details

9.3.2 Advanced Solar Power Major Business

9.3.3 Advanced Solar Power CdTe Photovoltaic Product and Services

9.3.4 Advanced Solar Power CdTe Photovoltaic Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.3.5 Advanced Solar Power Recent Developments/Updates

9.3.6 Advanced Solar Power Competitive Strengths & Weaknesses

9.4 Kaifeng Chenya

9.4.1 Kaifeng Chenya Details

9.4.2 Kaifeng Chenya Major Business

9.4.3 Kaifeng Chenya CdTe Photovoltaic Product and Services

9.4.4 Kaifeng Chenya CdTe Photovoltaic Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.4.5 Kaifeng Chenya Recent Developments/Updates

9.4.6 Kaifeng Chenya Competitive Strengths & Weaknesses

9.5 Mingyang Thin Film Technology

9.5.1 Mingyang Thin Film Technology Details

9.5.2 Mingyang Thin Film Technology Major Business

9.5.3 Mingyang Thin Film Technology CdTe Photovoltaic Product and Services

9.5.4 Mingyang Thin Film Technology CdTe Photovoltaic Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.5.5 Mingyang Thin Film Technology Recent Developments/Updates

9.5.6 Mingyang Thin Film Technology Competitive Strengths & Weaknesses

9.6 SEG Longyan

9.6.1 SEG Longyan Details

9.6.2 SEG Longyan Major Business

9.6.3 SEG Longyan CdTe Photovoltaic Product and Services

9.6.4 SEG Longyan CdTe Photovoltaic Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SEG Longyan Recent Developments/Updates

9.6.6 SEG Longyan Competitive Strengths & Weaknesses

9.7 ANTEC Solar

9.7.1 ANTEC Solar Details

9.7.2 ANTEC Solar Major Business

9.7.3 ANTEC Solar CdTe Photovoltaic Product and Services

9.7.4 ANTEC Solar CdTe Photovoltaic Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 ANTEC Solar Recent Developments/Updates

9.7.6 ANTEC Solar Competitive Strengths & Weaknesses

9.8 Zoom Solar

9.8.1 Zoom Solar Details

9.8.2 Zoom Solar Major Business

9.8.3 Zoom Solar CdTe Photovoltaic Product and Services

9.8.4 Zoom Solar CdTe Photovoltaic Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Zoom Solar Recent Developments/Updates

9.8.6 Zoom Solar Competitive Strengths & Weaknesses

9.9 Zhongshan Ruike

9.9.1 Zhongshan Ruike Details

9.9.2 Zhongshan Ruike Major Business

9.9.3 Zhongshan Ruike CdTe Photovoltaic Product and Services

9.9.4 Zhongshan Ruike CdTe Photovoltaic Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Zhongshan Ruike Recent Developments/Updates

9.9.6 Zhongshan Ruike Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 CdTe Photovoltaic Industry Chain

10.2 CdTe Photovoltaic Upstream Analysis

10.2.1 CdTe Photovoltaic Core Raw Materials

10.2.2 Main Manufacturers of CdTe Photovoltaic Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 CdTe Photovoltaic Production Mode

10.6 CdTe Photovoltaic Procurement Model

10.7 CdTe Photovoltaic Industry Sales Model and Sales Channels

10.7.1 CdTe Photovoltaic Sales Model

10.7.2 CdTe Photovoltaic Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World CdTe Photovoltaic Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World CdTe Photovoltaic Production Value by Region (2021-2026) & (USD Million)

Table 3. World CdTe Photovoltaic Production Value by Region (2027-2032) & (USD Million)

Table 4. World CdTe Photovoltaic Production Value Market Share by Region (2021-2026)

Table 5. World CdTe Photovoltaic Production Value Market Share by Region (2027-2032)

Table 6. World CdTe Photovoltaic Production by Region (2021-2026) & (MW)

Table 7. World CdTe Photovoltaic Production by Region (2027-2032) & (MW)

Table 8. World CdTe Photovoltaic Production Market Share by Region (2021-2026)

Table 9. World CdTe Photovoltaic Production Market Share by Region (2027-2032)

Table 10. World CdTe Photovoltaic Average Price by Region (2021-2026) & (US\$/KW)

Table 11. World CdTe Photovoltaic Average Price by Region (2027-2032) & (US\$/KW)

Table 12. CdTe Photovoltaic Major Market Trends

Table 13. World CdTe Photovoltaic Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MW)

Table 14. World CdTe Photovoltaic Consumption by Region (2021-2026) & (MW)

Table 15. World CdTe Photovoltaic Consumption Forecast by Region (2027-2032) & (MW)

Table 16. World CdTe Photovoltaic Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key CdTe Photovoltaic Producers in 2025

Table 18. World CdTe Photovoltaic Production by Manufacturer (2021-2026) & (MW)

Table 19. Production Market Share of Key CdTe Photovoltaic Producers in 2025

Table 20. World CdTe Photovoltaic Average Price by Manufacturer (2021-2026) & (US\$/KW)

Table 21. Global CdTe Photovoltaic Company Evaluation Quadrant

Table 22. World CdTe Photovoltaic Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and CdTe Photovoltaic Production Site of Key Manufacturer

Table 24. CdTe Photovoltaic Market: Company Product Type Footprint

Table 25. CdTe Photovoltaic Market: Company Product Application Footprint

Table 26. CdTe Photovoltaic Competitive Factors
Table 27. CdTe Photovoltaic New Entrant and Capacity Expansion Plans
Table 28. CdTe Photovoltaic Mergers & Acquisitions Activity
Table 29. United States VS China CdTe Photovoltaic Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China CdTe Photovoltaic Production Comparison, (2021 & 2025 & 2032) & (MW)
Table 31. United States VS China CdTe Photovoltaic Consumption Comparison, (2021 & 2025 & 2032) & (MW)
Table 32. United States Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers CdTe Photovoltaic Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers CdTe Photovoltaic Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers CdTe Photovoltaic Production (2021-2026) & (MW)
Table 36. United States Based Manufacturers CdTe Photovoltaic Production Market Share (2021-2026)
Table 37. China Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers CdTe Photovoltaic Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers CdTe Photovoltaic Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers CdTe Photovoltaic Production, (2021-2026) & (MW)
Table 41. China Based Manufacturers CdTe Photovoltaic Production Market Share (2021-2026)
Table 42. Rest of World Based CdTe Photovoltaic Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers CdTe Photovoltaic Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers CdTe Photovoltaic Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers CdTe Photovoltaic Production, (2021-2026) & (MW)
Table 46. Rest of World Based Manufacturers CdTe Photovoltaic Production Market Share (2021-2026)

Table 47. World CdTe Photovoltaic Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World CdTe Photovoltaic Production by Type (2021-2026) & (MW)

Table 49. World CdTe Photovoltaic Production by Type (2027-2032) & (MW)

Table 50. World CdTe Photovoltaic Production Value by Type (2021-2026) & (USD Million)

Table 51. World CdTe Photovoltaic Production Value by Type (2027-2032) & (USD Million)

Table 52. World CdTe Photovoltaic Average Price by Type (2021-2026) & (US\$/KW)

Table 53. World CdTe Photovoltaic Average Price by Type (2027-2032) & (US\$/KW)

Table 54. World CdTe Photovoltaic Production Value by Efficiency, (USD Million), 2021 & 2025 & 2032

Table 55. World CdTe Photovoltaic Production by Efficiency (2021-2026) & (MW)

Table 56. World CdTe Photovoltaic Production by Efficiency (2027-2032) & (MW)

Table 57. World CdTe Photovoltaic Production Value by Efficiency (2021-2026) & (USD Million)

Table 58. World CdTe Photovoltaic Production Value by Efficiency (2027-2032) & (USD Million)

Table 59. World CdTe Photovoltaic Average Price by Efficiency (2021-2026) & (US\$/KW)

Table 60. World CdTe Photovoltaic Average Price by Efficiency (2027-2032) & (US\$/KW)

Table 61. World CdTe Photovoltaic Production Value by Users, (USD Million), 2021 & 2025 & 2032

Table 62. World CdTe Photovoltaic Production by Users (2021-2026) & (MW)

Table 63. World CdTe Photovoltaic Production by Users (2027-2032) & (MW)

Table 64. World CdTe Photovoltaic Production Value by Users (2021-2026) & (USD Million)

Table 65. World CdTe Photovoltaic Production Value by Users (2027-2032) & (USD Million)

Table 66. World CdTe Photovoltaic Average Price by Users (2021-2026) & (US\$/KW)

Table 67. World CdTe Photovoltaic Average Price by Users (2027-2032) & (US\$/KW)

Table 68. World CdTe Photovoltaic Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World CdTe Photovoltaic Production by Application (2021-2026) & (MW)

Table 70. World CdTe Photovoltaic Production by Application (2027-2032) & (MW)

Table 71. World CdTe Photovoltaic Production Value by Application (2021-2026) & (USD Million)

Table 72. World CdTe Photovoltaic Production Value by Application (2027-2032) &

(USD Million)

Table 73. World CdTe Photovoltaic Average Price by Application (2021-2026) & (US\$/KW)

Table 74. World CdTe Photovoltaic Average Price by Application (2027-2032) & (US\$/KW)

Table 75. First Solar Basic Information, Manufacturing Base and Competitors

Table 76. First Solar Major Business

Table 77. First Solar CdTe Photovoltaic Product and Services

Table 78. First Solar CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. First Solar Recent Developments/Updates

Table 80. First Solar Competitive Strengths & Weaknesses

Table 81. Kaisheng Basic Information, Manufacturing Base and Competitors

Table 82. Kaisheng Major Business

Table 83. Kaisheng CdTe Photovoltaic Product and Services

Table 84. Kaisheng CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Kaisheng Recent Developments/Updates

Table 86. Kaisheng Competitive Strengths & Weaknesses

Table 87. Advanced Solar Power Basic Information, Manufacturing Base and Competitors

Table 88. Advanced Solar Power Major Business

Table 89. Advanced Solar Power CdTe Photovoltaic Product and Services

Table 90. Advanced Solar Power CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Advanced Solar Power Recent Developments/Updates

Table 92. Advanced Solar Power Competitive Strengths & Weaknesses

Table 93. Kaifeng Chenya Basic Information, Manufacturing Base and Competitors

Table 94. Kaifeng Chenya Major Business

Table 95. Kaifeng Chenya CdTe Photovoltaic Product and Services

Table 96. Kaifeng Chenya CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kaifeng Chenya Recent Developments/Updates

Table 98. Kaifeng Chenya Competitive Strengths & Weaknesses

Table 99. Mingyang Thin Film Technology Basic Information, Manufacturing Base and Competitors

Table 100. Mingyang Thin Film Technology Major Business

Table 101. Mingyang Thin Film Technology CdTe Photovoltaic Product and Services

Table 102. Mingyang Thin Film Technology CdTe Photovoltaic Production (MW), Price

(US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Mingyang Thin Film Technology Recent Developments/Updates

Table 104. Mingyang Thin Film Technology Competitive Strengths & Weaknesses

Table 105. SEG Longyan Basic Information, Manufacturing Base and Competitors

Table 106. SEG Longyan Major Business

Table 107. SEG Longyan CdTe Photovoltaic Product and Services

Table 108. SEG Longyan CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SEG Longyan Recent Developments/Updates

Table 110. SEG Longyan Competitive Strengths & Weaknesses

Table 111. ANTEC Solar Basic Information, Manufacturing Base and Competitors

Table 112. ANTEC Solar Major Business

Table 113. ANTEC Solar CdTe Photovoltaic Product and Services

Table 114. ANTEC Solar CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ANTEC Solar Recent Developments/Updates

Table 116. ANTEC Solar Competitive Strengths & Weaknesses

Table 117. Zoom Solar Basic Information, Manufacturing Base and Competitors

Table 118. Zoom Solar Major Business

Table 119. Zoom Solar CdTe Photovoltaic Product and Services

Table 120. Zoom Solar CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Zoom Solar Recent Developments/Updates

Table 122. Zoom Solar Competitive Strengths & Weaknesses

Table 123. Zhongshan Ruike Basic Information, Manufacturing Base and Competitors

Table 124. Zhongshan Ruike Major Business

Table 125. Zhongshan Ruike CdTe Photovoltaic Product and Services

Table 126. Zhongshan Ruike CdTe Photovoltaic Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Zhongshan Ruike Recent Developments/Updates

Table 128. Zhongshan Ruike Competitive Strengths & Weaknesses

Table 129. Global Key Players of CdTe Photovoltaic Upstream (Raw Materials)

Table 130. Global CdTe Photovoltaic Typical Customers

Table 131. CdTe Photovoltaic Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. CdTe Photovoltaic Picture

Figure 2. World CdTe Photovoltaic Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World CdTe Photovoltaic Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World CdTe Photovoltaic Production (2021-2032) & (MW)

Figure 5. World CdTe Photovoltaic Average Price (2021-2032) & (US\$/KW)

Figure 6. World CdTe Photovoltaic Production Value Market Share by Region (2021-2032)

Figure 7. World CdTe Photovoltaic Production Market Share by Region (2021-2032)

Figure 8. North America CdTe Photovoltaic Production (2021-2032) & (MW)

Figure 9. Europe CdTe Photovoltaic Production (2021-2032) & (MW)

Figure 10. China CdTe Photovoltaic Production (2021-2032) & (MW)

Figure 11. CdTe Photovoltaic Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 14. World CdTe Photovoltaic Consumption Market Share by Region (2021-2032)

Figure 15. United States CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 16. China CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 17. Europe CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 18. Japan CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 19. South Korea CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 20. ASEAN CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 21. India CdTe Photovoltaic Consumption (2021-2032) & (MW)

Figure 22. Producer Shipments of CdTe Photovoltaic by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for CdTe Photovoltaic Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for CdTe Photovoltaic Markets in 2025

Figure 25. United States VS China: CdTe Photovoltaic Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: CdTe Photovoltaic Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: CdTe Photovoltaic Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers CdTe Photovoltaic Production Market Share 2025

Figure 29. China Based Manufacturers CdTe Photovoltaic Production Market Share 2025

Figure 30. Rest of World Based Manufacturers CdTe Photovoltaic Production Market Share 2025

Figure 31. World CdTe Photovoltaic Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World CdTe Photovoltaic Production Value Market Share by Type in 2025

Figure 33. Standard Opaque CdTe Modules

Figure 34. Opaque BIPV Photovoltaic Glass

Figure 35. Semi-transparent Photovoltaic Glass

Figure 36. Colored/Printed/Decorative Type

Figure 37. Custom Sizes/Irregular Shapes

Figure 38. Laminated Safety Glass/IGU

Figure 39. Other

Figure 40. Other

Figure 41. World CdTe Photovoltaic Production Market Share by Type (2021-2032)

Figure 42. World CdTe Photovoltaic Production Value Market Share by Type (2021-2032)

Figure 43. World CdTe Photovoltaic Average Price by Type (2021-2032) & (US\$/KW)

Figure 44. World CdTe Photovoltaic Production Value by Efficiency, (USD Million), 2021 & 2025 & 2032

Figure 45. World CdTe Photovoltaic Production Value Market Share by Efficiency in 2025

Figure 46. Conversion Efficiency 17%

Figure 47. Conversion Efficiency 18%

Figure 48. Conversion Efficiency 19%

Figure 49. World CdTe Photovoltaic Production Market Share by Efficiency (2021-2032)

Figure 50. World CdTe Photovoltaic Production Value Market Share by Efficiency (2021-2032)

Figure 51. World CdTe Photovoltaic Average Price by Efficiency (2021-2032) & (US\$/KW)

Figure 52. World CdTe Photovoltaic Production Value by Users, (USD Million), 2021 & 2025 & 2032

Figure 53. World CdTe Photovoltaic Production Value Market Share by Users in 2025

Figure 54. Centralized PV Power Plants

Figure 55. Distributed and BIPV

Figure 56. World CdTe Photovoltaic Production Market Share by Users (2021-2032)

Figure 57. World CdTe Photovoltaic Production Value Market Share by Users (2021-2032)

Figure 58. World CdTe Photovoltaic Average Price by Users (2021-2032) & (US\$/KW)

Figure 59. World CdTe Photovoltaic Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World CdTe Photovoltaic Production Value Market Share by Application in 2025

Figure 61. Large-scale Ground-mounted Power Plants

Figure 62. Commercial and Industrial Rooftops/BAPV

Figure 63. BIPV Facades/Curtain Walls

Figure 64. BIPV Roofs/Skylights/Canopies

Figure 65. BIPV Lighting/Semi-transparent Enclosures

Figure 66. Infrastructure/Transportation/Off-grid/Other

Figure 67. World CdTe Photovoltaic Production Market Share by Application (2021-2032)

Figure 68. World CdTe Photovoltaic Production Value Market Share by Application (2021-2032)

Figure 69. World CdTe Photovoltaic Average Price by Application (2021-2032) & (US\$/KW)

Figure 70. CdTe Photovoltaic Industry Chain

Figure 71. CdTe Photovoltaic Procurement Model

Figure 72. CdTe Photovoltaic Sales Model

Figure 73. CdTe Photovoltaic Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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