

# **Cadmium Telluride Solar Panel Market - Global Industry Size, Share, Trends, Competition, Opportunity and Forecast, 2017-2027 Segmented By End Use (Residential, Commercial, Industrial, Utility), By Application (Cell Efficiency, Process Optimization, Ambient Temperature, Solar Tracking), By Material (Cadmium, Telluride), By Region**

<https://marketpublishers.com/r/CA8B1F13B2F5EN.html>

Date: December 2022

Pages: 119

Price: US\$ 4,900.00 (Single User License)

ID: CA8B1F13B2F5EN

## **Abstracts**

Global cadmium telluride solar panel market is anticipated to grow with an impressive CAGR in the forecast period, 2023-2027 on account of growing usage of cadmium telluride based solar panel in end use application. Moreover, surge in demand for renewable energy sources along with the adoption of renewable sources to maximize the energy output through these methods and products, is further driving the growth of the global cadmium telluride solar panel market in the upcoming five years.

Cadmium telluride solar panels are photovoltaic devices that utilize solar energy and convert it into electronic energy. A thin layer of cadmium telluride performs the function of energy conversion. Other crystalline silicon based devices may be more efficient than cadmium telluride solar panels but are more expensive to produce. But the advancing technology of cadmium telluride solar panels may generate higher capacity as compared to silicon based solar panels. CdTe, Cadmium Telluride is a commonly used material in thin film solar panels. Though cadmium is a toxic heavy metal and extremely dangerous. Cadmium is a waste byproduct of mining, smelting and refining sulfidic ores of zinc refining.

Technological Advancement Drives Market Growth

Rapidly increasing demand for cadmium telluride in the electro-optic modulator owing to the high electro-optic coefficient of the material is driving the growth of the global cadmium telluride solar panel market. Also, increasing demand for renewable sources of energy for the utilization of the solar energy for generation of the electric energy is supporting the growth of the global cadmium telluride solar panel market in the next five years.

According to IRENA 2021, total renewable energy production in the year 2020 was recorded to be 2,799,094 MW globally. In the US alone, 292,065 MW of renewable energy production was recorded. Increasing demand for generation of electric energy from solar energy is further substantiating the growth of the global cadmium telluride solar panel market in the future five years.

### Market Segmentation

The global cadmium telluride solar panel market is segmented based on end use, application, material, regional distribution, and competitive landscape. Based on end use, the market is segmented into residential, commercial, industrial, and utility. On the basis of application, the market is sub-segmented into cell efficiency, process optimization, ambient temperature, and solar tracking. Based on material, the market is fragmented into Cadmium and Telluride. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among Asia-Pacific region, North American region, European region, South American region, and Middle East & African region.

### Company Profile

First Solar, Toledo Solar, Calyxo GmbH, Advanced Solar Power, Antec Solar GmbH, Dmsolar LLC, Nexcis, Reel Solar, Lucintech Inc., are enlisted in a partial list of major market players of the global cadmium telluride solar panel market.

### Report Scope:

In this report, global cadmium telluride solar panel market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

#### Cadmium Telluride Solar Panel Market, By End Use:

Residential

Commercial

Industrial

Utility

#### Cadmium Telluride Solar Panel Market, By Application:

Cell Efficiency

Process Optimization

Ambient Temperature

Solar Tracking

#### Cadmium Telluride Solar Panel Market, By Material:

Cadmium

Telluride

#### Cadmium Telluride Solar Panel Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Italy

Spain

Poland

Denmark

#### Asia-Pacific

China

India

Japan

South Korea

Australia

Singapore

Malaysia

#### Middle East & Africa

South Africa

Saudi Arabia

UAE

Iraq

Turkey

## South America

Brazil

Argentina

Colombia

Peru

Chile

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global cadmium telluride solar panel market.

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

### **2. RESEARCH METHODOLOGY**

### **3. IMPACT OF COVID-19 ON GLOBAL CADMIUM TELLURIDE SOLAR PANEL MARKET**

### **4. EXECUTIVE SUMMARY**

### **5. VOICE OF CUSTOMERS**

#### 5.1. Brand Awareness

#### 5.2. Factors Considered while Selecting a Supplier

#### 5.3. Satisfaction Level

#### 5.4. Major Challenges Faced

### **6. GLOBAL CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK**

#### 6.1. Market Size & Forecast

##### 6.1.1. By Value & Volume

#### 6.2. Market Share & Forecast

##### 6.2.1. By End Use (Residential, Commercial, Industrial, Utility)

##### 6.2.2. By Application (Cell Efficiency, Process Optimization, Ambient Temperature, Solar Tracking)

##### 6.2.3. By Material (Cadmium, Telluride)

##### 6.2.4. By Region

##### 6.2.5. By Company

#### 6.3. Product Market Map

### **7. NORTH AMERICA CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK**

#### 7.1. Market Size & Forecast

##### 7.1.1. By Value & Volume

#### 7.2. Market Share & Forecast

##### 7.2.1. By End Use

##### 7.2.2. By Application

##### 7.2.3. By Material

#### 7.2.4. By Country

### 7.3. North America: Country Analysis

#### 7.3.1. United States Cadmium Telluride Solar Panel Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By End Use

###### 7.3.1.2.2. By Application

###### 7.3.1.2.3. By Material

##### 7.3.1.3. Major Policies Supporting Solar Power in the Country

#### 7.3.2. Canada Cadmium Telluride Solar Panel Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By End Use

###### 7.3.2.2.2. By Application

###### 7.3.2.2.3. By Material

##### 7.3.2.3. Major Policies Supporting Solar Power in the Country

#### 7.3.3. Mexico Cadmium Telluride Solar Panel Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value

##### 7.3.3.2. Market Share & Forecast

###### 7.3.3.2.1. By End Use

###### 7.3.3.2.2. By Application

###### 7.3.3.2.3. By Material

##### 7.3.3.3. Major Policies Supporting Solar Power in the Country

## 8. ASIA-PACIFIC CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK

### 8.1. Market Size & Forecast

#### 8.1.1. By Value & Volume

### 8.2. Market Share & Forecast

#### 8.2.1. By End Use

#### 8.2.2. By Application

#### 8.2.3. By Material

#### 8.2.4. By Country

### 8.3. Asia-Pacific: Country Analysis

#### 8.3.1. China Cadmium Telluride Solar Panel Market Outlook

##### 8.3.1.1. Market Size & Forecast

- 8.3.1.1.1. By Value
- 8.3.1.2. Market Share & Forecast
  - 8.3.1.2.1. By End Use
  - 8.3.1.2.2. By Application
  - 8.3.1.2.3. By Material
- 8.3.1.3. Major Policies Supporting Solar Power in the Country
- 8.3.2. India Cadmium Telluride Solar Panel Market Outlook
  - 8.3.2.1. Market Size & Forecast
    - 8.3.2.1.1. By Value
  - 8.3.2.2. Market Share & Forecast
    - 8.3.2.2.1. By End Use
    - 8.3.2.2.2. By Application
    - 8.3.2.2.3. By Material
  - 8.3.2.3. Major Policies Supporting Solar Power in the Country
- 8.3.3. Japan Cadmium Telluride Solar Panel Market Outlook
  - 8.3.3.1. Market Size & Forecast
    - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
    - 8.3.3.2.1. By End Use
    - 8.3.3.2.2. By Application
    - 8.3.3.2.3. By Material
  - 8.3.3.3. Major Policies Supporting Solar Power in the Country
- 8.3.4. South Korea Cadmium Telluride Solar Panel Market Outlook
  - 8.3.4.1. Market Size & Forecast
    - 8.3.4.1.1. By Value
  - 8.3.4.2. Market Share & Forecast
    - 8.3.4.2.1. By End Use
    - 8.3.4.2.2. By Application
    - 8.3.4.2.3. By Material
  - 8.3.4.3. Major Policies Supporting Solar Power in the Country
- 8.3.5. Australia Cadmium Telluride Solar Panel Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By End Use
    - 8.3.5.2.2. By Application
    - 8.3.5.2.3. By Material
  - 8.3.5.3. Major Policies Supporting Solar Power in the Country
- 8.3.6. Singapore Cadmium Telluride Solar Panel Market Outlook



- 8.3.6.1. Market Size & Forecast
  - 8.3.6.1.1. By Value
- 8.3.6.2. Market Share & Forecast
  - 8.3.6.2.1. By End Use
  - 8.3.6.2.2. By Application
  - 8.3.6.2.3. By Material
- 8.3.6.3. Major Policies Supporting Solar Power in the Country
- 8.3.7. Malaysia Cadmium Telluride Solar Panel Market Outlook
  - 8.3.7.1. Market Size & Forecast
    - 8.3.7.1.1. By Value
  - 8.3.7.2. Market Share & Forecast
    - 8.3.7.2.1. By End Use
    - 8.3.7.2.2. By Application
    - 8.3.7.2.3. By Material
  - 8.3.7.3. Major Policies Supporting Solar Power in the Country

## **9. EUROPE CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value & Volume
- 9.2. Market Share & Forecast
  - 9.2.1. By End Use
  - 9.2.2. By Application
  - 9.2.3. By Material
  - 9.2.4. By Country
- 9.3. Europe: Country Analysis
  - 9.3.1. Germany Cadmium Telluride Solar Panel Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By End Use
      - 9.3.1.2.2. By Application
      - 9.3.1.2.3. By Material
    - 9.3.1.3. Major Policies Supporting Solar Power in the Country
  - 9.3.2. United Kingdom Cadmium Telluride Solar Panel Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By End Use

- 9.3.2.2.2. By Application
- 9.3.2.2.3. By Material
- 9.3.2.3. Major Policies Supporting Solar Power in the Country
- 9.3.3. France Cadmium Telluride Solar Panel Market Outlook
  - 9.3.3.1. Market Size & Forecast
    - 9.3.3.1.1. By Value
  - 9.3.3.2. Market Share & Forecast
    - 9.3.3.2.1. By End Use
    - 9.3.3.2.2. By Application
    - 9.3.3.2.3. By Material
  - 9.3.3.3. Major Policies Supporting Solar Power in the Country
- 9.3.4. Italy Cadmium Telluride Solar Panel Market Outlook
  - 9.3.4.1. Market Size & Forecast
    - 9.3.4.1.1. By Value
  - 9.3.4.2. Market Share & Forecast
    - 9.3.4.2.1. By End Use
    - 9.3.4.2.2. By Application
    - 9.3.4.2.3. By Material
  - 9.3.4.3. Major Policies Supporting Solar Power in the Country
- 9.3.5. Spain Cadmium Telluride Solar Panel Market Outlook
  - 9.3.5.1. Market Size & Forecast
    - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
    - 9.3.5.2.1. By End Use
    - 9.3.5.2.2. By Application
    - 9.3.5.2.3. By Material
  - 9.3.5.3. Major Policies Supporting Solar Power in the Country
- 9.3.6. Poland Cadmium Telluride Solar Panel Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
    - 9.3.6.2.1. By End Use
    - 9.3.6.2.2. By Application
    - 9.3.6.2.3. By Material
  - 9.3.6.3. Major Policies Supporting Solar Power in the Country
- 9.3.7. Denmark Cadmium Telluride Solar Panel Market Outlook
  - 9.3.7.1. Market Size & Forecast
    - 9.3.7.1.1. By Value
  - 9.3.7.2. Market Share & Forecast

- 9.3.7.2.1. By End Use
- 9.3.7.2.2. By Application
- 9.3.7.2.3. By Material
- 9.3.7.3. Major Policies Supporting Solar Power in the Country

## **10. SOUTH AMERICA CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value & Volume
- 10.2. Market Share & Forecast
  - 10.2.1. By End Use
  - 10.2.2. By Application
  - 10.2.3. By Material
  - 10.2.4. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Cadmium Telluride Solar Panel Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By End Use
      - 10.3.1.2.2. By Application
      - 10.3.1.2.3. By Material
    - 10.3.1.3. Major Policies Supporting Solar Power in the Country
  - 10.3.2. Argentina Cadmium Telluride Solar Panel Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By End Use
      - 10.3.2.2.2. By Application
      - 10.3.2.2.3. By Material
    - 10.3.2.3. Major Policies Supporting Solar Power in the Country
  - 10.3.3. Colombia Cadmium Telluride Solar Panel Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By End Use
      - 10.3.3.2.2. By Application
      - 10.3.3.2.3. By Material
    - 10.3.3.3. Major Policies Supporting Solar Power in the Country

#### 10.3.4. Peru Cadmium Telluride Solar Panel Market Outlook

##### 10.3.4.1. Market Size & Forecast

###### 10.3.4.1.1. By Value

##### 10.3.4.2. Market Share & Forecast

###### 10.3.4.2.1. By End Use

###### 10.3.4.2.2. By Application

###### 10.3.4.2.3. By Material

##### 10.3.4.3. Major Policies Supporting Solar Power in the Country

#### 10.3.5. Chile Cadmium Telluride Solar Panel Market Outlook

##### 10.3.5.1. Market Size & Forecast

###### 10.3.5.1.1. By Value

##### 10.3.5.2. Market Share & Forecast

###### 10.3.5.2.1. By End Use

###### 10.3.5.2.2. By Application

###### 10.3.5.2.3. By Material

##### 10.3.5.3. Major Policies Supporting Solar Power in the Country

## **11. MIDDLE EAST & AFRICA CADMIUM TELLURIDE SOLAR PANEL MARKET OUTLOOK**

### 11.1. Market Size & Forecast

#### 11.1.1. By Value & Volume

### 11.2. Market Share & Forecast

#### 11.2.1. By End Use

#### 11.2.2. By Application

#### 11.2.3. By Material

#### 11.2.4. By Country

### 11.3. Middle East & Africa: Country Analysis

#### 11.3.1. Saudi Arabia Cadmium Telluride Solar Panel Market Outlook

##### 11.3.1.1. Market Size & Forecast

###### 11.3.1.1.1. By Value

##### 11.3.1.2. Market Share & Forecast

###### 11.3.1.2.1. By End Use

###### 11.3.1.2.2. By Application

###### 11.3.1.2.3. By Material

##### 11.3.1.3. Major Policies Supporting Solar Power in the Country

#### 11.3.2. South Africa Cadmium Telluride Solar Panel Market Outlook

##### 11.3.2.1. Market Size & Forecast

###### 11.3.2.1.1. By Value

- 11.3.2.2. Market Share & Forecast
  - 11.3.2.2.1. By End Use
  - 11.3.2.2.2. By Application
  - 11.3.2.2.3. By Material
- 11.3.2.3. Major Policies Supporting Solar Power in the Country
- 11.3.3. UAE Cadmium Telluride Solar Panel Market Outlook
  - 11.3.3.1. Market Size & Forecast
    - 11.3.3.1.1. By Value
  - 11.3.3.2. Market Share & Forecast
    - 11.3.3.2.1. By End Use
    - 11.3.3.2.2. By Application
    - 11.3.3.2.3. By Material
  - 11.3.3.3. Major Policies Supporting Solar Power in the Country
- 11.3.4. Iraq Cadmium Telluride Solar Panel Market Outlook
  - 11.3.4.1. Market Size & Forecast
    - 11.3.4.1.1. By Value
  - 11.3.4.2. Market Share & Forecast
    - 11.3.4.2.1. By End Use
    - 11.3.4.2.2. By Application
    - 11.3.4.2.3. By Material
  - 11.3.4.3. Major Policies Supporting Solar Power in the Country
- 11.3.5. Turkey Cadmium Telluride Solar Panel Market Outlook
  - 11.3.5.1. Market Size & Forecast
    - 11.3.5.1.1. By Value
  - 11.3.5.2. Market Share & Forecast
    - 11.3.5.2.1. By End Use
    - 11.3.5.2.2. By Application
    - 11.3.5.2.3. By Material
  - 11.3.5.3. Major Policies Supporting Solar Power in the Country

## **12. MARKET DYNAMICS**

- 12.1. Drivers
- 12.2. Challenges

## **13. MARKET TRENDS & DEVELOPMENTS**

## **14. COMPANY PROFILES**

- 14.1. First Solar Inc.
- 14.2. Toledo Solar Inc.
- 14.3. Calyxo GmbH
- 14.4. Advanced Solar Power Inc.
- 14.5. Antec Solar GmbH
- 14.6. DMsolar LLC
- 14.7. Nexcis
- 14.8. Reel Solar
- 14.9. Lucintech Inc.

## **15. STRATEGIC RECOMMENDATIONS**

## **16. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Cadmium Telluride Solar Panel Market - Global Industry Size, Share, Trends, Competition, Opportunity and Forecast, 2017-2027 Segmented By End Use (Residential, Commercial, Industrial, Utility), By Application (Cell Efficiency, Process Optimization, Ambient Temperature, Solar Tracking), By Material (Cadmium, Telluride), By Region

Product link: <https://marketpublishers.com/r/CA8B1F13B2F5EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/CA8B1F13B2F5EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970