

Global Transparent Solar Cells Market Size study & Forecast, by Cell Type (Thin-Film Photovoltaics (TPV), Polymer Solar Cell, Others), by Transparency Type (Partial, Full), by Application (Building Integrated Photovoltaics (BIPV), Automobile, Consumer Electronics, Others) and Regional Analysis, 2023-2030

https://marketpublishers.com/r/GE840A1EF36EEN.html

Date: August 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GE840A1EF36EEN

Abstracts

Global Transparent Solar Cells Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Transparent solar cells, also known as see-through solar cells or clear solar cells, are a type of photovoltaic (PV) technology that allows light to pass through them while simultaneously converting sunlight into electricity. Unlike traditional opaque solar panels, transparent solar cells have the potential to be integrated into various transparent surfaces, such as windows, facades, screens, and other see-through materials, enabling solar energy generation without compromising the aesthetics or functionality of the underlying structure. The key factors driving the market growth is rising demand for renewable energy, growing consumer awareness positively impacting the transparent solar cell and growing awareness and environmental concerns that are anticipated to support the market growth during the forecast period 2023-2030.

Moreover, the rising government investment in the development of renewable energy infrastructure is anticipated to support the market growth. For instance, In Sept. 2021, The United States Department of Agriculture announced plans to invest USD 464 million to create or expand renewable energy infrastructure to help rural communities, agricultural producers, and businesses cut energy costs in 48 states and Puerto Rico. The USDA supported USD 129 million of these projects under the Rural Electricity for



America Programme. This programme offers assistance to support the purchase and installation of renewable energy systems as well as improvements to energy efficiency for rural small enterprises and agricultural producers. Additionally, supportive government initiatives for the development of smart city projects and growing strategic partnership & collaboration with industries are anticipated to create a lucrative opportunity for the market during the forecast period. However, the high production cost stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Transparent Solar Cells Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for renewable energy, supportive government incentives and policies, growing building integrated photovoltaics (BIPV), and growing consumer awareness and corporate sustainability goals. Whereas, the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as the increasing energy demand, cohesive government incentives and policies, growing environmental awareness, and rising investment in renewable energy in the region.

Major market player included in this report are:

Ubiquitous Energy, Inc.

Onyx Solar Group LLC

EnergyGlass

Polysolar Ltd

Xiamen Solar First Energy Technology Co., Ltd.

Heliatek GmbH

Brite Solar

Sharp Corporation

SolarScape Enterprises LLP

Physee Technologies

Recent Developments in the Market:

In July 2021, Swiss research institution Agroscope and energy company Romande Energie are constructing an agrivoltaic project in Conthey, canton of Valais, Switzerland, with the supporting of the Swiss Federal Office of Energy (SFOE). The project was built using unique transparent concentrator PV panels supplied by Swiss firm Insolight. The Theia (Translucency and High Efficiency in Agrivoltaics) modules have a 30% efficiency rating and are estimated to allow up to 78% of sunlight through. Global Transparent Solar Cells Market Report Scope:

Historical Data - 2020 - 2021



Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered – Cell Type, Transparency Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East &

Africa

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 product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Cell Type:

Thin-Film Photovoltaics (TPV)

Polymer Solar Cell

Others

By Transparency Type:

Partial

Full

By Application:

Building Integrated Photovoltaics (BIPV)

Automobile

Consumer Electronics

Others

By Region:

North America

U.S.

Canada



Europe
UK
Germai

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa Saudi Arabia South Africa Rest of Middle East & Africa



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