

Global Solar Photovoltaic Glass Market Size study & forecast, by Type (Anti-reflective Coated Glass, Tempered Glass, TCO Glass, Others) by End User Industry (Residential, Commercial, Utility-scale) and Regional Analysis, 2022-2029

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Abstracts

Global Solar Photovoltaic Glass Market is valued at approximately USD 4.42 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 30.80% over the forecast period 2022-2029. Solar photovoltaic glass is a type of glass that is designed to generate electricity from sunlight. It is also known as solar glass or PV glass (photovoltaic glass). The solar photovoltaic glass contains photovoltaic cells that convert solar energy into electrical energy. The photovoltaic cells are sandwiched between two layers of glass, with a conductive coating on one side. When sunlight falls on the glass, the photovoltaic cells absorb the energy and convert it into direct current (DC) electricity. The conductive coating allows the electricity to be collected and transported away from the glass. Solar photovoltaic glass is often used in building facades, windows, and skylights to generate electricity and reduce energy consumption. It can also be used in solar panels and other solar applications. The key factor driving the market growth is the rising demand for solar photovoltaic (PV) glass among residential applications, and supportive government regulations and initiative for the usage of photovoltaic technology is anticipated to create a lucrative demand for the solar photovoltaic glass market during the forecast period.

However, supportive government initiatives for the development of solar energy are anticipated to influence market growth. For instance, in 2022, the US Department of Energy introduced a 26% tax credit program for homeowners who had solar PV systems installed within the previous two years. The Investment Tax Credit (ITC) was also extended by the government, increasing it to 30% for projects completed within the

next ten years. Similarly, China raised its budget for renewable energy rebates to USD 840 million for 2021, with about 55% of that amount going to the solar power sector. On the other hand, India's government has projected significant increases in solar power generation capacity, maximizing production from the current 49.6 GW in 2021 to approximately 300 GW by 2030. Similar efforts are being made by almost all national governments, and it is anticipated that this will increase demand for solar PV modules and, in turn, solar PV glass. Additionally, the growing demand for renewable energy is anticipated to create a lucrative opportunity for the market during the forecast period. However, the high cost of Solar Photovoltaic Glass stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Solar Photovoltaic Glass Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is the dominating region across the world in terms of market share, owing to the presence of key market players and growing demand in the residential sector. Whereas, Asia Pacific is also anticipated to exhibit the highest growth rate over the forecast period, owing to factors such as supportive govt. initiative and rising investment in the renewal energy sector in the region would create lucrative growth prospects for the Solar Photovoltaic Glass market across the Asia Pacific region.

Major market player included in this report are:

Onyx Solar Group LLC
Shenzhen Topray Solar Co., Ltd.
Borosil Glass Works Limited
Trina Solar
JA Solar Holdings Co Ltd
SHARP CORPORATION
Brite Solar
WUXI SUNTECH POWER CO., LTD.
GruppoSTG
Polysolar Ltd.

Recent Developments in the Market:

In Dec. 2022, DAS Solar launched the black-thru series, an all-black N-type bifacial dual-glass module. The product is built on a 54-cell M10 design and has a maximum power output of 430W and a maximum module efficiency of 22.0%. The module has an attractive all-black appearance due to new coating technology, a black busbar overlaid with black silicon, and colourless coated glass that reduces light reflection and improves power generation.

Global Solar Photovoltaic Glass Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Type, End User Industry, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

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 Type:

Anti-reflective Coated Glass

Tempered Glass

TCO Glass

Others

By End User Industry:

Residential

Commercial

Utility-scale

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

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