

# **Solar Photovoltaic Glass Market Report by Type (Anti-Reflective Coated Glass, Tempered Glass, TCO Glass, and Others), Module (Crystalline Silicon PV Modules, Amorphous Silicon PV Modules, Thin Film PV Modules), End Use Industry (Residential, Non-Residential, Utility), and Region 2024-2032**

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## **Abstracts**

The global solar photovoltaic glass market size reached US\$ 14.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 68.3 Billion by 2032, exhibiting a growth rate (CAGR) of 18.3% during 2024-2032.

Solar photovoltaic (PV) glass is a specially engineered construction glass that utilizes transparent semiconductor-based PV or solar cells to convert solar energy into electricity. Usually installed on windows, skylights, roofs or facades, these types of glass are extensively used to generate energy that can be used to power an entire building. A super clear float glass is used for thin film solar cells, whereas an ultra-clear figured glass cover is used for crystalline silicon solar cells. As solar PV glass technology utilizes sustainable sources of energy, it is rapidly gaining traction across the globe while gradually replacing conventional building materials in the residential and commercial segments.

### **Solar Photovoltaic Glass Market Trends:**

The global market is majorly driven by the increasing preference for green construction due to an enhanced focus on sustainable development. In line with this, numerous favorable government initiatives supporting the construction and upgradation of solar PV plants to promote the adoption of clean energy are providing an impetus to the market growth. Continual product innovations, such as the development of ergonomic

PV glass variants having higher efficacy and superior thermal insulation, are also acting as significant growth-inducing factors for the market on the global level. Apart from this, the reduced production costs of solar PV glass due to the rising deployment of feed-in tariff (FIT) programs are creating a positive outlook for the market. Other factors, such as extensive research and development (R&D) activities, the growing concerns regarding the depletion of fossil fuels, and the escalating need to limit environmental degradation, are further creating lucrative growth opportunities for key players operating in the global market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global solar photovoltaic glass market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, module, and end use industry.

#### Breakup by Type:

- Anti-Reflective Coated Glass
- Tempered Glass
- TCO Glass
- Others

#### Breakup by Module:

- Crystalline Silicon PV Modules
- Amorphous Silicon PV Modules
- Thin Film PV Modules

#### Breakup by End Use Industry:

- Residential
- Non-Residential
- Utility

#### Breakup by Region:

- North America
- United States
- Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AGC Glass Europe (AGC Inc), Borosil Limited, Compagnie de Saint-Gobain S.A., Flat Glass Group Co. Ltd., GruppoSTG, Interfloat Corporation, Kaneka Corporation, Nippon Sheet Glass Co. Ltd., Shenzhen Topraysolar Co. Ltd., Siseecam, Taiwan Glass Industry Corporation and Xinyi Solar Holdings Limited.

Key Questions Answered in This Report

1. What was the size of the global solar photovoltaic glass market in 2023?
2. What is the expected growth rate of the global solar photovoltaic glass market during 2024-2032?
3. What are the key factors driving the global solar photovoltaic glass market?
4. What has been the impact of COVID-19 on the global solar photovoltaic glass market?
5. What is the breakup of the global solar photovoltaic glass market based on the module?

6. What is the breakup of the global solar photovoltaic glass market based on the end use industry?
7. What are the key regions in the global solar photovoltaic glass market?
8. Who are the key players/companies in the global solar photovoltaic glass market?

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