

# How much glass is used in solars each year





## Overview

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How big is the Solar Photovoltaic Glass market?

Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0. The solar photovoltaic glass market size reached 32.10 million tons in 2025 and is forecast to reach 74.75 million tons by 2030, advancing at an 18.42% CAGR between 2025 and 2030.

How many tons of glass a year?

As of now, the domestic glass capacity is about 99,000 tons, plus 5,850 tons overseas. In Q1 2024, the industry added 3,100 tons of new capacity and 650 tons of resumption. Considering about 3,500 tons of repair, the actual increase in Q1 is limited. Q2 is expected to increase, with capacity expected to be concentrated in Q3-4.

What percentage of solar panels are made from glass?

Glass makes 67%–76% of the total solar panel weight. There is a growing concern about the industrial impact of glass production, which includes significant energy inputs and emissions of about 60 million tons of CO<sub>2</sub> equivalent per year .

How many tons of glass are there in 2021?

The glass capacity in 2021, 2022, and 2023 was 46,000, 81,000, and 105,000 tons, with a year-on-year increase of 35+%, 70+%, and 30+%. As of now, the domestic glass capacity is about 99,000 tons, plus 5,850 tons overseas. In Q1 2024, the industry added 3,100 tons of new capacity and 650 tons of resumption.



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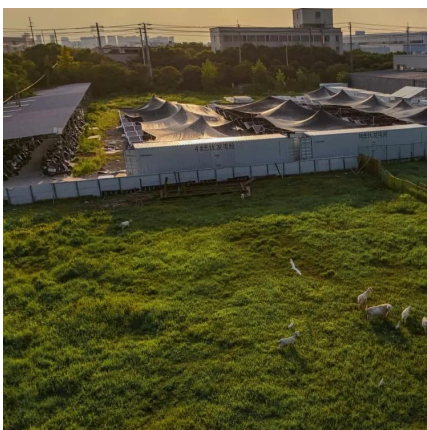


### [Review of issues and opportunities for glass supply for ...](#)

Moreover, there is scarce information about the iron content of many sand deposits worldwide. Low-iron sand is required for PV glass production, to make the glass highly transparent and ...

### [Insights into the PV Glass Sector: Capacity and Price Trends](#)

Mar 12, 2024 · The glass capacity in 2021, 2022, and 2023 was 46,000, 81,000, and 105,000 tons, with a year-on-year increase of 35+%, 70+%, and 30+%. As of now, the domestic glass ...

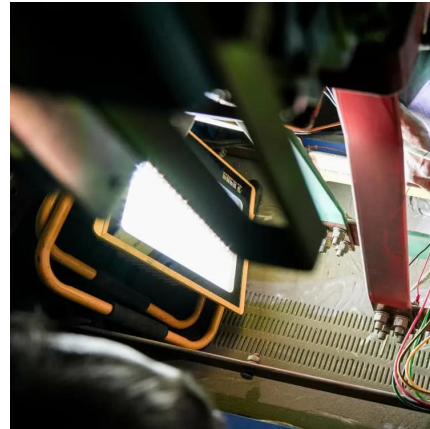


### [Solar PV Glass Market Size, 2025-2034 Trends Report](#)

The solar PV glass market size crossed USD 53.5 billion in 2024 and is estimated to grow at a CAGR of 7.9% from 2025 to 2034, driven by the significant increase in solar installations due ...

### [Solar Photovoltaic Glass Market Size to Hit USD 196.89 Bn by ...](#)

Nov 21, 2025 · The global solar photovoltaic glass market size is projected to hit around USD 196.89 billion by 2034 from USD 17.09 billion in 2025 with a CAGR of 31.20%.



### [Solar Photovoltaic Glass Market Size, Share Analysis](#)

Oct 22, 2025 · The Solar Photovoltaic Glass Market is expected to reach 32.10 million tons in 2025 and grow at a CAGR of 18.42% to reach 74.75 million tons by 2030. Xinyi Solar Holdings

...



### [Solar Glass Market Size, Trends, Growth Report, 2025-2033](#)

Nov 24, 2025 · Solar Glass Market Size, Share, Growth, and Industry Analysis, By Type (3.2mm, 2.5mm, 2.0mm and Others), By Application (Single Glass Module, Double Glass Module and

...



### [Solar glass now the largest contributor to PV module costs](#)

1 day ago · Interestingly, this looks to be somewhat flat over the whole five year period, but this masks factors that have helped reduce costs (3.2mm to 2mm thickness, lower energy input

...







### [Glassy materials for Silicon-based solar panels: Present and ...](#)

Nov 1, 2023 · Abstract Glass provides mechanical, chemical, and UV protection to solar panels, enabling these devices to withstand weathering for decades. The increasing demand for solar ...



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