

# What is antimony used in solar glass



✓ 50KW/100KWH

✓ HIGHER POWER OUTPUT  
IN OFF-GRID MODE

✓ CONVENIENT OPERATION  
& MAINTENANCE

✓ PRE-WIRED



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### [Addressing uncertain antimony content in solar glass for recycling](#)

The solar glass sector is ready to take back the European manufactured high-quality cullet at the end-of-life stage of PV panels and use it to produce new solar glass for the European solar PV industry.

### What is antimony used in photovoltaic glass

Antimony is used as a clarifying agent in photovoltaic (PV) glass -- and, in 2023, solar PV installations reached record levels in China (already one of the world's biggest consumers of antimony).



### Necessity for recycling photovoltaic glass: Managing resource

Recycling EOL PV glass to produce new PV glass can be achieved in two ways: use of cullet (old broken glass) and whole glass. Cullet can be melted together with virgin materials and

### Concept Note/ Blue Print on Management of Antimony Containing

An application OA No. 473 of 2017, Niharika Vs Union of India and Others was filed before Hon'ble NGT regarding use of Antimony containing glasses used in solar Photo Voltaic panels





### [The Dark Side of Solar Glass: Antimony, Geopolitics and the Energy](#)

In solar glass specifically, small amounts of antimony oxide help stabilize optical properties under years of UV exposure, reducing "solarization" (the tendency of glass to brown or

### **ANTIMONY (Sb) IN SOLAR MODULES**

Because of both toxicity and recycling complications, bans and restrictions on Sb use in solar glass are increasing, driving demand for Sb-free, low-iron solar glass formulations.



### [Physicochemical Properties of Antimony-containing Photovoltaic \(PV\)](#)

These glasses, predominantly manufactured in China, are doped with antimony oxide ( $Sb_2O_3$ ) to ensure high transparency while keeping production costs low.

### [Release: ESIA Recommendation Paper Addressing uncertain antimony](#)

However, the composition of solar glass varies, especially concerning antimony (Sb) content, depending on the production method. Antimony is used to enhance the performance of



### **The Main Application Of Antimony**

Solar glass typically contains 0.25% antimony, and the front glass of each solar photovoltaic module weighs about 16 kilograms, so each module contains approximately 40 grams of

### **Antimony: The Most Important Mineral You**

### Never Heard Of

Sorry. Now, consider this: There can be no "energy transition" without adequate supplies of antimony. That thick, heavy glass used in solar panels? It's made with antimony.



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