

**PIENAAR ENERGY (PTY) LTD**

# **Sophia solar Glass**



## Sophia solar Glass

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### **SOPHIA and the future of solar panel recycling in Europe**

If repair is not possible, solar panels are subjected to Recycling processes that promote the efficient separation of key materials such as glass, silicon, metals and plastics.

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## **SOPHIA Project**

Promote the use of recycling innovative technologies to maximize the separation of their main components, such as glass, silicon & metals and plastics. Develop a prototype for a new eco ...



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### **Sophia solar Glass**

SOPHIA is an EU-funded Horizon Europe project that aims to implement advanced digital solutions in end-of-life solar panels, involving the full value chain in order to increase their current reuse, repair ...

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## **Sophia plastic support for solar**

## panels

Formulated through the Restylon compound with glass fiber technopolymer. Sophia is a practical solution for the support of solar panels.

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## SOPHIA: Advanced Digital Solutions to Increase the Circularity of PV ...

Solar panels with remaining efficiency >80% will be repaired using robot-assisted equipment and high-performance dielectric varnish. The non-reparable ones will be recycled using ...

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## Fire resistant glass-free solar panels: SOPHIA workshop summary

CSEM produced 7 encapsulants with new formulations. After burning these encapsulants, we were able to demonstrate a ~30% reduction in flame height. Various modules were then produced using either ...

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## Solar-SOPHIA



Running over 36 months, SOPHIA aims to set new benchmarks for circularity in the solar industry, with outcomes that will benefit manufacturers, recyclers, and end-users alike.

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## ENCO joins the SOPHIA project to advance circularity in solar panel

On 1 June 2025, ENCO has officially joined a new European endeavour: the SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the ...

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## Project Sophia: Towards a Circular Future for Solar Panels

Learn how Project Sophia is leading the way in solar panel recycling and traceability in Europe using advanced digital technology.

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## Enhancing PV Panel Circularity: AIMPLAS Coordinates SOPHIA

Solar panels with remaining efficiency

>80% will be repaired using a robot-assisted equipment and high-performance dielectric varnish. The non-reparable ones will be recycled using ...

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