

PIENAAR ENERGY (PTY) LTD

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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