

Sophia solar Modules





Overview

What is Sophia & how does it work?

In this context, AIMPLAS, the Technological Institute of Plastics, leads the European project SOPHIA. The main objective is Increase the rates of reuse, repair, and recycling of solar panels Using advanced digitalization technologies and innovation from the very design of the modules.

How can Sophia improve the health of solar panels?

One of SOPHIA's great contributions is the creation of a prototype that allows analyzing the state of health (SoH) of solar panels Thanks to this system, it's possible to evaluate efficiency, detect dark areas or structural damage, and decide whether the panel should be repaired or recycled.

What is Sophia's Horizon Europe project?

The project partners of SOPHIA gathered on 26 June 2025 in Valencia (Spain) to kick-off this Horizon Europe project. Through the development of innovative solutions to boost PV panels circularity, SOPHIA will contribute to fostering a more circular, innovative and competitive Europe.

Where can I attend the 2024 Sophia workshop?

Hasselt University, that is: the Joint Research Institute IMO-IMOMEC that is based there, and which is part of the collaboration EnergyVille (Belgium), and the Fraunhofer Institute for Solar Energy Systems ISE (Germany) proudly invite you to the 2024 SOPHIA Workshop.



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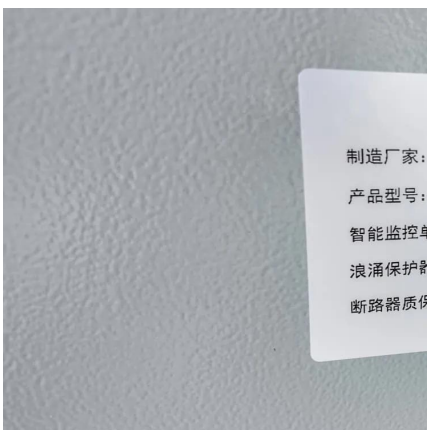


[SOPHIA: New EU project to implement Advanced Digital ...](#)

Jun 30, 2025 · The SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the full value chain - is an EU-funded Horizon Europe ...

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The objective of the PV Module Lifetime Prediction work-package in the FP7 project SOPHIA was to investigate and establish the research infrastructure needed to develop a standard for ...



[2504-Bruckman-Martin-Sophia-IEA-v2](#)

Apr 30, 2025 · How to handle UVID for TOPCon and SHJ modules Laura S. Bruckman & Ina T. Martin, Case Western Reserve University IEA PVPS Task 13: 15th SOPHIA PV-Module ...

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[SOPHIA and the future of solar panel recycling in Europe](#)

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[ENCO joins the SOPHIA project to advance circularity in solar ...](#)

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