



NKOSITHANDILEB SOLAR

Sophia solar Module Project



Overview

What is Sophia & how does it work?

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 and recycling rates. The end goal is to foster a more circular, innovative and competitive Europe. The project will focus on::

What is Sophia Project?

New developments and trends in plastics recycling. The SOPHIA project aims to increase the current reuse, repair and recycling rates of end-of-life solar panels.

Who coordinates the Sophia project – implementation of Advanced Digital Solutions?

In this context, AIMPLAS, the Plastics Technology Centre, coordinates the SOPHIA project – Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the entire value chain.

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.

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"SOPHIA addresses to the problem of photovoltaic panels End of Life, their management and the society awareness on electronicwaste management. The project will ...

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AIMPLAS, the Plastics Technology Centre based in Spain, has initiated a groundbreaking project titled SOPHIA, aimed at enhancing the circularity of photovoltaic (PV) ...

The SOPHIA project aims to increase the current reuse, repair and recycling rates of end-of-life solar panels.

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 ...

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The Sophia project seeks to promote the reuse, repair, and recycling of solar panels in Europe. New digital technologies such as the Digital Product Passport are being ...

Recycling solar panels is essential to ensuring the sustainability of the photovoltaic sector. The SOPHIA project, coordinated by AIMPLAS, promotes eco-design and digital ...

SOPHIA SOLar PHotovoltaics InfrAstructure The SOPHIA project brings together 17 main Photovoltaic Research Centres in Europe and three additional partners, EUREC, DERlab and ...

The SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the full value chain - is an ...

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