
Sophiar Adam solar Panels

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 entire value chain to increase their current reuse, repair, and recycling rates.

How will Sophia impact the solar industry?

panels in the long term, an eco-designed and easy dismantling solar panel will be developed as prototype. It is expected that in the ecodesign practise fully sustainable PV industry. Additionally, SOPHIA will contribute to the generation of new markets around the photovoltaic sector across Europe.

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.

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

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 ...

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 ...

The SOPHIA project aims to increase the current reuse, repair and recycling rates of end-of-life solar panels. For the evaluation of their State-of-Health (SoH), a prototype will be ...

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

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