



FTMRS SOLAR

Sophia solar panel battery





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

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.

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

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 project that aims ...

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Enhancing PV Panel Circularity: AIMPLAS Coordinates SOPHIA

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SOPHIA: New EU project to implement ...

Jun 30, 2025 · The SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the full value ...

SOPHIA: Advanced Digital Solutions to ...

Mar 7, 2025 · The SOPHIA project aims to increase the current reuse, repair and recycling rates of end-of-life solar panels.

SOPHIA

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Implementation of Advanced Digital Solutions to increase ...

Nov 26, 2025 · "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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SOPHIA and the future of solar panel recycling in Europe

Jul 25, 2025 · 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 and the future of solar panel ...

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photovoltaic sector. The SOPHIA project, coordinated ...

SOPHIA project: increasing the reuse, repair and recycling ...

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Project Sophia: Towards a Circular Future for Solar Panels

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