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# **Sophia is a solar panel manufacturer**

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:

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 will Sophia help the photovoltaic industry in Europe?

Additionally, SOPHIA will contribute to the generation of new markets around the photovoltaic sector across Europe. CORDIS classifies projects with EuroSciVoc, a multilingual taxonomy of fields of science, through a semi-automatic process based on NLP techniques. See: The European Science Vocabulary.

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.

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 ...

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

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 developed for a fast evaluation ...

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 ...

? Giving Solar Panels a Second Life: Inside Work Package 1 of the SOPHIA Project Solar energy is clean but solar panels eventually age, crack, or lose performance. WP1 of SOPHIA focuses on ...

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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 traceability to increase reuse ...

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