

# Sophia Telecom solar Site





## Overview

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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 & how does it work?

In this context, AIMPLAS, the Technological Institute of Plastics, leads the European project SOPHIA. The main objective is to 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 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 will Sophia impact the solar industry?

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



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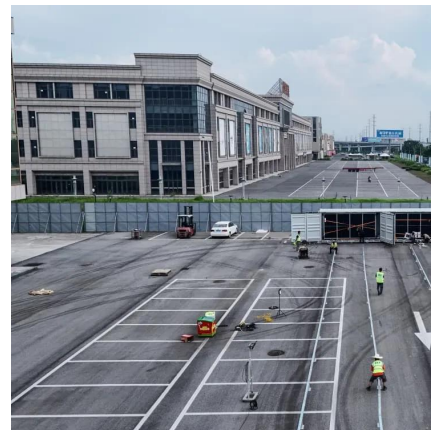


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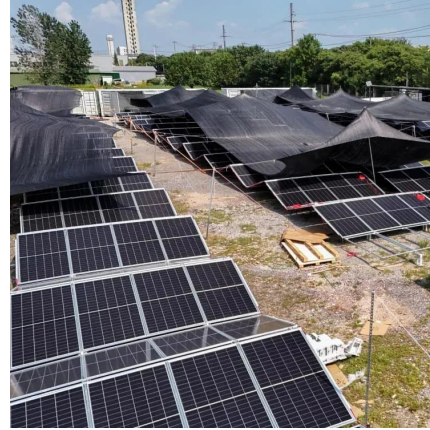
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### **SOPHIA project: increasing the reuse, repair and recycling ...**

Jul 11, 2025 · 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 ...



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### **ENCO joins the SOPHIA project to advance circularity in solar ...**

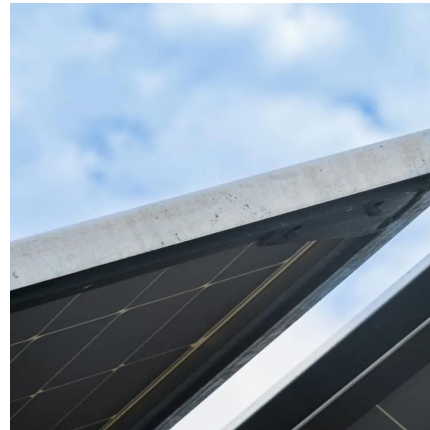
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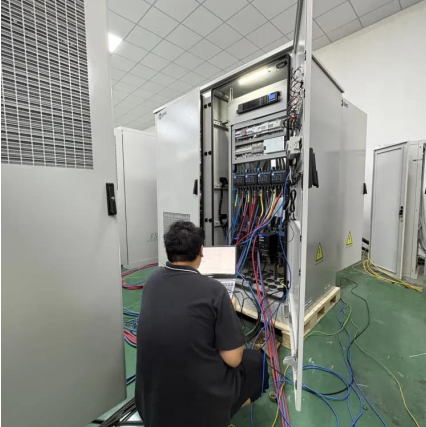
### **Implementation of Advanced Digital Solutions to increase ...**

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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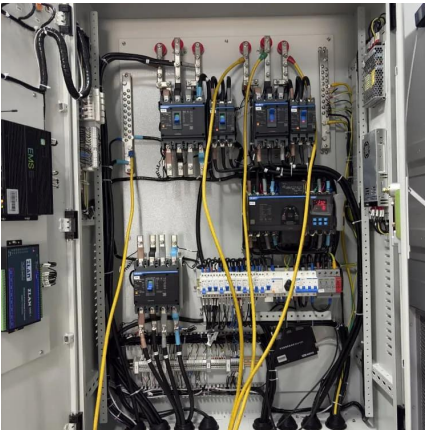
The PV system installed on the roof of the telecom site has a capacity of 8.8kW and an energy storage capacity of 204.8kWh, and is equipped with a diesel generator set to ensure a reliable ...



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