



**BUHLE POWER**

# **Sophiar Adam solar Panels**





## Overview

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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.

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.



## Sophiar Adam solar Panels



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Jun 30, 2025 · 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 ...

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Nov 26, 2025 · Objective "SOPHIA addresses to the problem of photovoltaic panels End of Life, their management and the society awareness on electronic waste management. The project ...



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## About SOFAR

SOFAR is a global leading provider of solar PV and energy storage solutions. Its comprehensive portfolio includes PV inverters with a power range from 1 kW to 350 kW, hybrid inverters range ...



## SOPHIA and the future of solar panel ...

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