
What is the Sophia Project?
Aimplas, the Plastics Technology Centre, a Spain-based technological center that provides solutions to the plastics industry, is coordinating the Sophia project, which is aimed at the implementation of advanced digital solutions to increase the circularity of photovoltaic (PV) panels throughout the value chain.

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 marketsaround 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.

How long will the Sophia Project last?
The project began in June 2025 and is expected to last 36 months. The kickoff meeting took place in Valencia,where the initial milestones and strategies needed to implement the technologies and processes developed under the SOPHIA umbrella were defined.

Sophia is a European Union-funded Horizon Europe project that aims to implement advanced digital solutions in end-of-life solar panels, involving the full value chain to increase ...

Learn how Project Sophia is leading the way in solar panel recycling and traceability in Europe using advanced digital technology.

Solar panels with remaining efficiency >80% will be repaired using a robot-assisted equipment and

high-performance dielectric varnish. The non-reparable ones will be recycled ...

Solar panels with remaining efficiency >80% will be repaired using a robot-assisted equipment and high-performance dielectric ...

Funded by the European Union through the Horizon Europe programme, SOPHIA aims to Increase current rates of reuse, repair and recycling of solar panels, involving the ...

SOPHIA is an EU-funded Horizon Europe project that aims to implement Advanced Digital Solutions in end-of-life solar panels, involving ...

The SOPHIA project, coordinated by AIMPLAS, promotes eco-design and digital traceability to increase reuse and recycling. Includes ...

The project will implement several Advanced Digital Solutions, involving all actors in the value chain, in order to increase the reuse and repair rates of these products.

On 1 June 2025, ENCO has officially joined a new European endeavour: the SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels ...

The SOPHIA project, coordinated by AIMPLAS, promotes eco-design and digital traceability to increase reuse and recycling. Includes innovative technologies for repairing, ...

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 ...

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 ...

Promote the use of recycling innovative technologies to maximize the separation of their main components, such as glass, silicon & metals and plastics. Develop a prototype for a new eco ...

Web: https://drakoulis.eu