

EQACC SOLAR

Sofia solar Panel Power Generation Project



Overview

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.

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:.

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.

Sofia solar Panel Power Generation Project



Power plant profile: AES Sofia Solar PV Park, Bulgaria

AES Sofia Solar PV Park is a 100MW solar PV power project. It is planned in Sofia, Bulgaria. According to GlobalData, who tracks and profiles over 170,000 power plants ...

Enhancing PV Panel Circularity: AIMPLAS ...

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



SOPHIA: Advanced Digital Solutions to Increase the Circularity of PV Panels

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



SOPHIA: A key European project for solar panel recycling ...

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

This will increase the quality of the secondary raw materials obtained and reduce waste generation. The repaired and eco-designed panels and upcycled fractions from end-of ...

CIDETEC Surface Engineering participates in SOPHIA project ...

The project partners of SOPHIA gathered on 26 June 2025 in Valencia (Spain) to kick-off this Horizon Europe project. Through the development of innovative solutions to boost ...



SOPHIA

The SOPHIA project - Implementation of Advanced Digital Solutions to increase the circularity of PV panels throughout the full value chain - is an ...



CIDETEC Surface Engineering participates in ...

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SOPHIA: New EU project to implement ...

With the rapid rollout of solar energy, which is at the forefront of efforts to reduce carbon emissions, there is a growing need for ...

SOPHIA Project

What is 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 ...



SOPHIA: A key European project for solar ...

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SOPHIA: Advanced Digital Solutions to ...

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Enhancing PV Panel Circularity: AIMPLAS Coordinates SOPHIA

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a prototype will be ...

SOPHIA: New EU project to implement Advanced Digital ...

With the rapid rollout of solar energy, which is at the forefront of efforts to reduce carbon emissions, there is a growing need for solutions to increase the circularity of PV ...



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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