

Title: Sophia solar power generation panels

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What is the Sophia photovoltaic solar park?

Called the Sophia Photovoltaic Solar Park, it aims to "reconcile renewable energy production with environmental enhancement of the territory and lasting benefits for local communities", according to the website of the company behind the initiative, Lightsource bp.

What is Sophia's Horizon Europe 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 PV panels circularity, SOPHIA will contribute to fostering a more circular, innovative and competitive Europe.

How can advanced digital solutions improve end-of-life solar panels?

The project 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. For the evaluation of their State-of-Health (SoH), a prototype will be developed for a fast evaluation of its efficiency, black areas and main damages.

Why are solar PV panels becoming more popular?

In recent years, the capacity of installed solar photovoltaic (PV) panels has grown exponentially and its capacity is expected to further increase due to the decarbonization of the economy and the promotion of renewable energy generation by the countries. As the installation of PV systems grows, so does the generation of waste.

This Special Issue is designed to cover technical issues in advanced solar photovoltaic power generation, power generation forecasting, integrated energy applications, impact on sustainable ...

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