



Sophia Solar Systems Engineering

What is Sophia engineering?

An economic model based on sharing value with whoever creates it An empowering managerial model and a "Sophia" culture which frees up energies A versatile technological innovation platform model with various operational and commitment methods "Sophia Engineering is a great example of both quality of life at work and passion."

Are Sophia tiles solar powered?

Sophia TILES are solar powered. Earth observation imagery and sensor data downlinked to Earth currently suffer long analysis times due to bandwidth constraints. Sophia TILES process that data in orbit and relay near-real-time results to defense and emergency responders.

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.

What is a Sophia tile?

Sophia TILES have proprietary thermal load balancing hardware plus software. Expanding data centers on Earth is increasingly difficult due to regulatory and environmental issues. Deployed at 600-1,000 KM in a sun-synchronous orbit,Sophia ODCs will place data centers in their natural habitat,space. Why now?

Overall introduction SOPHIA ENGINEERING"s strategic positioning is also based upon the cross-sector nature of the company"s business. It strengthens its multi-sector, multi-application technological ...

Why Sophia Space? Terrestrial data centers are facing constraints that limit AI and cloud growth while current LEO services suffer from bandwidth and latency issues.

The Department of Engineering and Applied Sciences, aims to foster human resources with solid fundamental knowledge of science and technology who can contribute to the acquisition of ...

A 3 kWe-size pressurized HTE system, coupled to a concentrated solar energy source will be designed, fabricated and operated on-sun for proof of principle. Second, it will prove the concept of co ...

SOPHIA addresses the problem of photovoltaic (PV) panels end-of-life, their management and the society awareness on electronic waste management to increase their current reuse, repair and ...

Take a different approach to engineering with Sophia Engineering. Together, we turn ideas into industrial reality.

Through integrated studies of science such as physics and mathematics, and engineering such as materials, electronics, energy, and mechanical systems, the department fosters talented individuals ...



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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 ...

By combining three academic disciplines (mechanical engineering, electrical and electronics engineering, and physics) with three key themes (Generation and Utilization of Energy, ...

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