

PROJECT PARTNERS



CONTACT

Project coordinator:
Mehdi Sahlí
(VOLTEC)


Communication & dissemination
Anna Molinari
(Uniresearch)

Visit our website!
sphinxproject.eu

<https://www.linkedin.com/company/sphinx/>

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SOLAR PHOTOVOLTAICS INTEGRATED INTO THE BUILT ENVIRONMENT



Enable PV energy to be produced from **all buildings and infrastructures** for new & renovated constructions



Fabrication of 5 demonstrators in different locations in Europe :
Renovated buildings (CH)
New architectural buildings (CH)
Carport (FR)
Noise barrier (IT/DE)
Renovated Industrial Building (FR)



Production of **affordable, aesthetics & sustainable active construction elements** for energy production from buildings and infrastructure

← SPH INX GOALS →



Start date: 1-11-2023



Duration: 36 months



Grant number: 101136094



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MAIN OBJECTIVE

Discover cost-effective, aesthetically pleasing photovoltaic solutions and cutting-edge technology, driving us toward a sustainable and low-impact energy future.

SPH INX aims to create cost-effective and quickly deployable Building Integrated Photovoltaic (BIPV) elements using disruptive matrix shingling technology.

SPH INX aims to bring back to Europe some products fabrication and supply chain for semi-transparent PV panels, solar roof and facade tiles and lightweight PV modules.

EXPECTED OUTCOMES



New Breakthrough Technology:
Matrix Shingling



Novel functional layers (coatings, encapsulants)



New PV products:
• Semi-transparent deployable Building modules
• Roof and Façade tiles
• Lightweight Modules



On-site Demonstration
• Carport
• Noise barrier
• Roof
• Façade
• Industrial Buildings



Cost reduction



Life cycle assessment