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Sustainable Photovoltaics Integration in buildings and Infrastructure for multiple applications



SPHINX - Deliverable report

D5.1 – Project selection. Demo Design + Authorizations

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Public Summary

This deliverable describes the demonstration sites that will showcase SPHINX innovations and technology in real-world applications. It gives an insight into the demonstrations sites authorizations, planning and designs.

The SPHINX project aims to prove the capability of matrix shingle technology in building integrated PV, as well as new encapsulants and anti-glare coatings. The performance of the SPHINX innovations will be compared to benchmark modules.

These demonstrators are divided in 5 categories:

1. Industrial building lightweight matrix shingle module
2. Individual house and façade matrix shingle PV tiles
3. Heritage house matrix shingle PV tiles
4. Semi-transparent anti-glare coating PV modules on a carport
5. Semi-transparent matrix shingle module on a noise barrier

Monitoring data from these demonstrators will be gathered for one year and exploited to assess energy yield and performance ratio and compare to results obtained through modelling.

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Project partners:

#	Partner short name	Partner Full Name
1	VOL	VOLTEC SOLAR
2	ETW	ETWAY S.R.L.
3	HLP	HELIUP
4	M10	M10 INDUSTRIES AG
5	UNR	UNIRESEARCH BV
6	Fraunhofer	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV
7	ICARES	ICARES CONSULTING
7.1	BI	BECQUEREL INSTITUTE FRANCE
7.2	BIE	BECQUEREL INSTITUTE SPAIN
8	CEA	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
9	FSUNS	Freesuns SA
10	CSEM	CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT
11	EPFL	ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE
12	SOP	SOPREMA

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