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Sustainable Photovoltaics Integration in buildings and Infrastructure for multiple applications



SPHINX - Deliverable report

D2.2 – Communication and Dissemination (C&D) Plan Report



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Public Summary

The SPHINX project aims to accelerate the adoption of photovoltaics, the cheapest source of energy, by developing new photovoltaic products for integrated construction that are multi-functional, aesthetically pleasing, and have a minimal impact on resources such as land and materials.

The project will demonstrate solutions for an economic and sustainable integration of five innovative PV products in five respective demonstration sites covering different construction typologies: lightweight modules for installation on rooftops with weight constraints, tiles for heritage buildings, tiles for facades, semi-transparent modules for carports, and noise barriers.

Each of these products will be piloted and monitored to demonstrate high energy production, low degradation rates, competitive installation costs, and a low environmental impact.

To increase the efficiency of solar modules, SPHINX is leveraging a disruptive European interconnection technology known as matrix shingling. This technology improves the filling of the active area of solar modules, leading to a 3% increase in power output, and make them less sensitive to shading. This translates to up to 3 times more energy yield compared to standard modules under strong partial shading. Furthermore, this technology drastically reduces the use of resources such as lead and copper. To further enhance module performance, SPHINX will add new functionalities to the encapsulant, including UV selective absorption and reemission for power increase, selective reflection of IR light to increase bifacial boost, and reduce temperature behind the panel. New coatings will also be developed to provide anti-glare and anti-fouling capabilities based on a new deposition process that can be reapplied in the field in case of damage.

With such expectations, it is crucial to define a solid Communication and Dissemination plan, this aspect will be covered by this deliverable. The report outlines the Communication and Dissemination Plan for the SPHINX project, aiming to present the planned strategy and actions for communicating and disseminating the project's results. The overarching goal of dissemination activities within the project is to maximize the impact by effectively communicating project innovations to relevant target groups.

Dissemination efforts includes preparing information for the project website and facilitating project exploitation activities to ensure that project results are made known to possible (future) users. A key component of the dissemination plan is to foster synergies with relevant linked projects and stakeholders in the fields of BIPV research and applications, with the aim of combining efforts and broader the effect of the communication and dissemination of key messages and results.

Additionally, an objective is to promote project findings through presentations at workshops, scientific publications, and events, thereby enhancing visibility and engagement within the PV community.

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