

SWISSPANEL SOLAR

A colourful new direction for photovoltaics

SWISSPANEL SOLAR adds a new dimension to photovoltaics (PV). Thanks to funding from ÜserHuus AG and the Swiss National Science Foundation, Lucerne University of Applied Sciences and Arts has developed a method allowing a multicoloured image to be modified in such a way that it is also perfectly suited for PV modules. The optimised image file is printed on the high-quality float glass using a ceramic digital print process and integrated as the face pane in the multi-layer construction of the PV module. A huge variety of motifs may be applied which can be customised to individual requirements. Printing has been optimised in such a way as to achieve the desired balance of colour saturation and output of the printed solar modules.

SWISSPANEL SOLAR highlights architecture to great effect while supplying adequate energy from a sustainable source. The multicoloured PV modules allow the intelligent and creative planning of facades that finally bring more life to the otherwise monotonous appearance of solar installations.

Characteristics

- Multicoloured digital printing on the face pane of the PV module
- Optimum efficiency with maximum possible print coverage, ca. 80% depending on motif and choice of colour
- Manufacture of the printed glass and delivery to any PV manufacturer for assembly
- Maximum dimensions according to the PV module manufacturer

Advantages

- SWISSPANEL SOLAR can be used on facades and roofs
- Freely designable facades thanks to ceramic digital printing with a resulting reduction in the typical visual appearance of PV modules
- Maximum flexibility in terms of design and colour choices (logos, photos, full-surface printing, etc.)



Uses

- Facades with exacting design requirements
- Facades for energy generation with simultaneous use as advertising space
- Roof area with desired colour Adaptation (e.g. historical buildings, optical interference, etc.)

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