

Industrialization and System Integration of the Aesthetic Energy Roof Concept

Publieke samenvatting / Public summary

Aanleiding

The future of the European photovoltaic industry depends heavily on breakthroughs in 'mass customization' of photovoltaic roofs, that require the European local execution of engineering, on-demand manufacturing and on-site delivery, and that need a high level of aesthetics to appeal to a broad public.

Doelstelling

The objective of the AER II project is to further develop the AER concept into more product lines and bring these products to the market.

Korte omschrijving

In this project the project partners Soltech, Heijmans, SEAC and AERspire join forces to research, develop, industrialize and bring to the market the Aesthetic Energy Roof (AER) concept. The AER concept is based on a patent pending frameless, junction-box-less, glass-glass laminate with integrated mounting functionality. The building integrated energy roof concept has a unique set of properties like full roof filling, unsurpassed high-end aesthetic appearance, minimized bill-of-materials, optionally included integrated window and integrated solar thermal panel. The AER concept will result in a full range of products that can be build up modular at any type of roof at customer energy and heat demand. The cross-border AER II project follows-up the Dutch nationally funded AER I project, in which the proof of principle for the water tightness, the mounting principle and the electricity

Projectinformatie / Project information

Projectnummer / Project number
TEMW140008

Subsidiebedrag / Grant amount
€ 239.745,00

Algemene informatie / General information

Penvoerder / Secretariat
AERspire B.V.

Publicaties en materialen / Publications and attachments

- 27.08.2018

**Eindrapport AER II 2016
(TEMW140008)**

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generation of the concept has been demonstrated.

Resultaat

First, a market study will deliver an overview of the various BIPV market segments and the best fit for the various AER product lines. Next, we will optimize and industrialize the base product and its manufacturing processes and research and develop the envisaged range of product lines within the AER platform. Finally, a demo roof will be built up based on the applicable building codes and regulations. The demo roof will be followed in a 4 seasons performance measurement setup.

De data in deze applicatie is afkomstig van de Rijksdienst voor Ondernemend Nederland (RVO) en wordt in samenwerking met de Topsector Energie ontsloten.

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