

Press Release

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SUNFILM PROVIDES MODULES FOR LARGEST ROOF INSTALLATION IN GERMANY WITH SILICON-BASED THIN FILM TANDEM JUNCTION TECHNOLOGY



Grossroehrsdorf, Germany – November 06, 2009. Sunfilm AG announced today it has completed the delivery of its thin film tandem junction modules for a 700kWp installation on the roof of Weinmann Aach AG in Dornstetten, Black Forest. This project - the largest roof installation in Germany of its kind - was contracted by Sunova AG, Grasbrunn, who is partner in several roof projects throughout Europe, acknowledging the outstanding performance of Sunfilm modules with respect to their application on flat roofs. Sunfilm provided its module Model Q, which represents the smallest out of five available formats.

The roof installation in Dornstetten will have to challenge strong winds and heavy snow loads but is perfectly prepared for such exposure as the SUNOVA MCG 2.1 System has already proved its superior mechanical stability under such conditions in the laboratory, in wind tunnel tests and in the field. The PV power station is planned to produce 2.4 times more power per year than Weinmann Aach AG used in 2008. This provides enough capacity for an increase in power requirement as the company expands. Sunfilm's thin film tandem junction technology is particularly well suited for commercial roof installations because the modules maintain their excellent energy efficiency, even when installed in parallel roof orientations. This horizontal orientation avoids negative effects of shadowing by adjacent rows of PV panels. Therefore, modules can be put closer together increasing the number of panels per roof area. In addition to this orientation advantage, the modules also maintain their efficiency at lower irradiation conditions, appropriate for most regions in Germany. Another important aspect is the environmental benefit as the PV system in Dornstetten reduces climate-active CO₂ emissions by yearly 540 tons.

Sunfilm

Sunfilm AG is one of the world's largest manufacturers of silicon-based thin film modules with a combined capacity of ~85 megawatts peak (MWp) at its two German production sites in Grossroehrsdorf and Bitterfeld/Wolfen. The company has an additional 60 MWp of capacity under construction as well. Thin film PV is one of the fastest growing segments of the solar PV industry. Sunfilm's innovative technology for silicon-based thin film tandem junction solar modules allows a larger part of the solar spectrum to be harvested, leading to higher module efficiencies. Additionally, the amount of silicon needed to produce these modules is significantly less than for silicon wafer based technologies. Sunfilm AG is headquartered in Grossroehrsdorf and employs about 400 people. www.sunfilm.com

Sunova

Sunova offers extensive flat-roof expertise combined with latest generation solar photovoltaic technology. This integrated approach forms the basis for a pan-European network of highly professional roof sealing specialists. Sunova's flat roof sealing systems have an extremely long service life, and are optimally compatible with our patented PV

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attachment solutions as well as with the innovative PV thin film technology.

This in turn allows for the realization of large-scale, technically impeccable solar roofs using thin film technology (glass/glass modules) or flexible photovoltaic roofing membranes. In our capacity as general contractor for such projects, we are able to provide single-source solutions that optimally marry flat roof to solar technology. www.sunova.eu

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