

Press Release



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Monocrystalline silicon solar cells metallised by screen printing reach efficiency in excess of 19 percent

- Collaboration between Sunways AG and Institut für Solarenergieforschung Hameln (ISFH)
- Increased efficiency through improved back

Konstanz/Germany, 11 March 2010 - Sunways AG (FSE: SWW; ISIN DE0007332207)) and the Institut für Solarenergieforschung Hameln (ISFH) have reached an important milestone as part of a joint development project with the aim of further increasing the efficiency of silicon solar cells. Using established screen printing technology for metallising silicon solar cells the team succeeded in producing monocrystalline cells with an efficiency of 19.1 percent.

The work focused on the development of a highly efficient back for silicon solar cells, resulting in yield improvements in the long-wave range of the solar spectrum. This approach combines the high efficiency potential of the new back with the tried and tested processability of solar cells that have been metallised by screen printing. The individual process steps for the production of the prototypes with an area of 155 square centimetres (5-inch cells) were carried out at ISFH and under near-production conditions at Sunways.

Roland Burkhardt, Chief Technology Officer of Sunways AG, said: "I am delighted with the success of our development work. An efficiency of more than 19 percent for silicon solar cells with screen-printed contacts is an internationally leading achievement. This impressive progress is the result of our long-standing successful cooperation with the Institut für Solarenergieforschung Hameln (ISFH)." He added: "Sunways

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Chairman of supervisory board: Otto Mayer
Management board: Michael Wilhelm (Chairman), Roland Burkhardt, Jörg von Strom, Jürgen Frei

Sunways

Photovoltaic Technology

aims to continuously improve the technical potential and conditions for generating electricity from the sun. In this way we keep improving the electricity yield and the benefit of photovoltaic systems.”

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This press release is also available on www.sunways.de.

About Sunways

Sunways AG, Konstanz/Germany, stands for consistent use of solar energy to secure long-term energy supply of man in an efficient and sustainable manner. Sunways offers technological competence, performance and highest quality – from single components to complete solar systems.

Since its foundation in 1993, Sunways AG evolved into a technology leader in the photovoltaics industry serving international markets. With silicon-based solar cells, inverters, solar modules and solar systems, the company offers all components required for high-yield photovoltaic power generation. With photovoltaic solutions tailored to customers' needs (transparent and coloured solar cells, building-integrated photovoltaic installations), Sunways turns exceptional ideas into reality.

Sunways Production GmbH in Arnstadt/Germany is a subsidiary of Sunways AG; in addition, the group has own branch offices in Barcelona/Spain and Bologna/Italy. In 2009, Sunways AG with about 317 employees realised sales of about € 177 million.

The shares of Sunways AG are listed at the Frankfurt Stock Exchange (SWW, ISIN DE0007332207).

For further information, please visit www.sunways.de.

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