

## Presseinformation

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### **Solarion develops partially transparent flexible solar cells: Introduction of semi-transparent glass-glass module at Intersolar**

Leipzig. Solarion AG presents their new developed semi-transparent solar cells at the Intersolar 2010 trade fair in Munich. These cells are a further development of the flexible thin film solar cells based on copper indium gallium diselenide (CIGS), which the Leipzig based company manufactures in a self-developed roll-to-roll production process. The flexible plastic material as a substrate allows a punching of the solar cells without affecting their function. The performance of each cell is reduced by only the potential of the missing area. The cells will be used for the first time in glass-glass modules with the size of about one square meter. With a light transmission of about 9 % the efficiency of the frameless module reaches between 8 and 9 %. "With this technology we are able to ideally combine natural lighting and solar power generation." says CEO Dr. Karsten Otte. Applications are, among others in the field of photovoltaic glazing and for greenhouses. The launch of the glass-glass modules planned for 2011. In the future the company will also use the cells for making flexible modules.

#### **About Solarion**

Solarion AG is developing, producing and offering high-efficient and low-cost thin-film solar modules using Copper-Indium-Gallium-Diselenide (CIGS).

Solarion's technology is based on a proprietary ion-beam assisted deposition of the CIGS absorber in a roll-to-roll process. The advantages of this technology are its low deposition temperature, improved solar cell efficiency, higher process speed as well as lower energy and material costs. The utilization of a flexible carrier enables new fields of photovoltaic applications.

Solarion was founded in 2000 in Leipzig, Germany, and has established the first European pilot-line for the manufacturing of flexible and highly efficient CIGS thin-film cells on a flexible carrier material in 2002. Entering mass-manufacturing of CIGS based modules is planned for the year 2011.

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