

Investment costs down to \$ 1/Wp, production costs down to \$ 0.5/Wp –  
New record cell achieving 12.5 % efficiency

## **Oerlikon Solar's 2<sup>nd</sup> generation ThinFab™ presented in Abu Dhabi today delivers 23 % investment cost reduction and 17 % higher capacity**

**Abu Dhabi (United Arab Emirates) / Truebbach (Switzerland), January 16, 2012 – Oerlikon Solar presented its 2<sup>nd</sup> generation ThinFab™ at the World Future Energy Summit 2012 (WFES) in Abu Dhabi today. This end-to-end production line resets the standard for manufacturing sustainable solar modules at low cost and high quality. The new design reduces capital expenditure (Capex) by 23 % to just \$ 1/Wp including engineering support and performance guarantees. The production line enables customers to produce high-quality thin film silicon modules for costs of around \$ 0.5/Wp (€ 0.35/Wp), a record in the solar industry. Oerlikon Solar also announced a new record thin film silicon cell today. At 12.5 %, the efficiency of this lab cell is 1.7 percentage points higher than the large scale production modules of the 2<sup>nd</sup> generation ThinFab™ (an increase of 16 %) and clearly demonstrates the potential of Oerlikon Solar's thin film silicon technology.**

The 2<sup>nd</sup> generation ThinFab™, announced on December 19, 2011, is available in the market as of today. In addition to lower Capex requirements and the lowest module production costs, the upgraded ThinFab™ provides customers with a guaranteed average module efficiency of 10.8 % (154 Wp) – an increase of 8 % – and a 17 % higher output capacity compared with the 1<sup>st</sup> generation.

The new record cell with 12.5 % efficiency was developed in cooperation with leading specialty glass manufacturer Corning Incorporated. Oerlikon Solar set the previous record in September 2010 when it developed a champion cell delivering 11.9 % efficiency. This significant efficiency increase in such a short period of time demonstrates the future potential of Oerlikon Solar's Micromorph® thin film silicon technology and Oerlikon Solar's leading thin film silicon research and development capabilities.

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**About Oerlikon**

*Oerlikon (SIX: OERL) is a leading high-tech industrial group specializing in machine and plant engineering. The Company is a provider of innovative industrial solutions and cutting-edge technologies for textile manufacturing, drive, vacuum, thin film, coating, and advanced nanotechnology. A Swiss company with a tradition going back over 100 years, Oerlikon is a global player with more than 17,000 employees at over 150 locations in 38 countries and sales of CHF 3.6 billion in 2010. The Company invested in 2010 CHF 239 million in R&D, with over 1 200 specialists working on future products and services. In most areas, the operative businesses rank either first or second in their respective global markets.*

**About Oerlikon Solar**

*Oerlikon Solar designs and manufactures field-proven equipment and turnkey manufacturing lines for the mass production of environmentally sustainable thin film silicon solar modules. With its amorphous and high-efficiency Micromorph® tandem technology, Oerlikon has dramatically increased the efficiency of thin film silicon and created innovative turnkey manufacturing solutions for thin film PV, enabling new entrants in the fast-growing, global PV manufacturing business. Oerlikon Solar leads the thin film solar equipment sector with 15 customers in production in seven countries, and more than 5 million modules and 450 MW of capacity produced worldwide.*

*For more information, please visit [www.oerlikon.com/solar](http://www.oerlikon.com/solar) and [www.oerlikon.com/solar/thinfb](http://www.oerlikon.com/solar/thinfb)*