

## InPassion® ALD from SoLayTec to be evaluated by Hanwha Q CELLS

Germany based Hanwha Q CELLS in Thalheim starts to evaluate the SoLayTec InPassion® ALD “LAB to FAB solution”. This tool will be used for the further development of high efficiency cell concepts at Hanwha Q CELLS.

Roger Görtzen, co-founder of SoLayTec and manager marketing and sales commented: “Last month in November SoLayTec announced it sold its first production machine in the U.S. for a 100MW n-type bi-facial cell line. Now also Hanwha Q CELLS decided to start the evaluation of the InPassion ALD system from SoLayTec for its high efficiency cell concepts in Thalheim.”

“Our goal is to show the solar community that the spatial ALD solution for the passivation of c-Si cells has a higher potential compared to PECVD  $\text{AlO}_x$ . The biggest advantages of our spatial ALD tool compared to PECVD are a better step coverage, a stable uniformity and a layer thickness requirement of only 5 nm  $\text{Al}_2\text{O}_3$ . Furthermore, if in the ALD cell process flow a direct PECVD is used for the SiN capping layer an integrated annealing process can be implemented, resulting in better cell performance compared to PECVD  $\text{AlO}_x$ ”, comments Roger Görtzen.

“After several years of intensive discussions with Hanwha Q CELLS, SoLayTec is now proud that we have the opportunity to prove the InPassion ALD benefits on site in Thalheim”, mentions Roger Görtzen.

### SoLayTec

SoLayTec is a spin-off company of the Dutch research organisation TNO and established in 2010. The company develops, delivers and services machines for atomic layer deposition (ALD) on solar cells worldwide. The SoLayTec ALD machines are designed for mass production in the solar market. In the field of solar cell ALD equipment, SoLayTec has a leading position.

For more information, please visit [www.solaytec.com](http://www.solaytec.com).

### Hanwha Q CELLS

Hanwha Q CELLS is headquartered in Germany and the largest European photovoltaics provider according to global shipments from January to October 2014. Around the globe the Q CELLS brand is known for solar modules, system solutions and complete power plants in superior quality – “Engineered in Germany”. Moreover the company offers long-term partnership and financial stability being part of Hanwha Group – a South Korean Top-Ten business enterprise and a “FORTUNE Global 500” company. At its headquarters in Thalheim (Germany), Hanwha Q CELLS has a unique setup of R&D, production and quality management, enabling the company to develop leading quality products as well as manufacturing innovations and quickly transfer them into mass production. Q CELLS` products are manufactured according to strict quality standards, mainly in the company`s production plants in Germany and Malaysia as well as in cooperation with partners in Europe and Asia. Customers of Hanwha Q CELLS can purchase Q CELLS` products via the company`s international sales network with branches in Germany (HQ), Malaysia, Japan, USA, Korea, France, Turkey, Chile and Australia. Thanks to its truly international setup, high quality products and the financial stability, Hanwha Q CELLS is the reliable partner for PV customers around the globe. For more information, visit: [www.q-cells.com](http://www.q-cells.com).

### Press contact:

SoLayTec

Roger Görtzen

Co-founder

Manager Marketing and Sales

Phone: +31 40 2380220

Mobile number: +31 6 30615719

[Roger.Gortzen@solaytec.com](mailto:Roger.Gortzen@solaytec.com)