Eindhoven, The Netherlands, October 28th 2013

20% conversion efficiency by Chinese Tier One cell manufacturer with Al_2O_3: Repeat order for RENA-SoLayTec

A tier one cell manufacturer has ordered a second RENA-SoLayTec machine to start producing PERC cells in their production base of mono-Si wafers in China. The customer used the ALD Al_2O_3 InPassion LAB tool from RENA-SoLayTec in their R&D department, which has been used for their research of high-performance solar cells. This tier one cell manufacturer is one of the first adopters of the Al_2O_3 passivation technology and has recently announced results of average conversion efficiency of over 20% with their p-type mono-Si wafers.

This tier one customer has decided to continue the transition of Al_2O_3 into mass production based on the superior quality of Al_2O_3 deposition using ALD and the related low costs per layer. “They have tested several Al_2O_3 solutions in its lab and we are proud that they have chosen our InPassion ALD technology for their next step towards mass production of their high efficiency cells”, comments Roger Görtzen, manager marketing and sales and co-founder of SoLayTec.

The cell efficiency improvement of Al_2O_3 from RENA-SoLayTec leads to an increase of up to 1,0% efficiency gain. Further, InPassion ALD has many distinct advantages: with smaller footprint gained higher throughput; independent module design achieved flexible throughput and production; thinner deposition thickness greatly reduced the chemical consumption; lower running and maintenance cost compared with other technologies.

“RENA-SoLayTec is continuously working to reduce the Cost of Ownership for affordable Al_2O_3 deposition. Our main developments focus on increasing output using the same machine hardware and a further reduction of all consumables, but especially the TMAL precursor. In this way RENA-SoLayTec is able to provide cell manufacturers “best in class" efficiencies, combined with a very attractive commercial solution.”, added Roger Görtzen.

RENA GmbH
RENA is a leading production equipment and plant supplier for the application fields Clean Water, Green Energy, Health and Electronics. Around 50 % of the solar cells worldwide are produced on RENA wet processing equipment. In close cooperation with chosen partners, RENA further provides turnkey systems and technology transfer for the photovoltaic industry. RENA is also the majority shareholder of SoLayTec.
For more information, please visit www.rena.com.

SoLayTec
SoLayTec is a spin-off company from 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 intended for research and industrial mass production in the solar market. SoLayTec high volume production equipment will be exclusively sold by RENA GmbH on the market.
For more information, please visit www.solaytec.com.

SoLayTec BV
Dillenburgstraat 9G
5652 AM Eindhoven
The Netherlands
www.solaytec.com

Eindhoven, The Netherlands, October 28th 2013

Press contact:

RENA GmbH
Norbert Bürger / Michaela Schätzle
Phone: +49 7723 9313-19
Norbert.Buerger@rena.com

SoLayTec
Roger Görtzen
Phone: +31 40 2380220
Mobile number: +31 6 30615719
Roger.Gortzen@solaytec.com