

Neuchâtel, September 2022

Press Release

INDEOTEC SA delivers an Octopus-II PECVD after comprehensive FAT to the Solar Energy Research Institute of Singapore (SERIS).

Neuchâtel, 14 September 2022 – Indeotec SA (Switzerland) has successfully completed the extensive factory acceptance test on an Octopus-II PECVD for SERIS in August 2022. Besides the excellent uniformity and homogeneity of the deposited layers, the best-in-class deposition of nanocrystalline and microcrystalline layers were demonstrated once again. The heterojunction silicon solar cells produced during the qualification process showed iVoc of over 740 mV and iFF of over 85%, necessary to reach record efficiencies in heterojunction, Tandem, Perovskite and other next-generation solar cell technologies.

Indeotec SA has successfully completed the manufacturing and delivery of 3 PECVD / PVD Octopus-II machines in the last 18 months to ENEA (Italy), Australian National University (Australia), and SERIS (Singapore), establishing its presence in advanced R&D labs around the globe and contributing to the advancement of the research in the PV industry.

Indeotec's versatile Octopus-II cluster platform enables the all-in-vacuum PECVD + PVD process cycle without wafer flipping for HJT and other high-efficiency solar cells. Indeotec's proprietary MIRROR® technology combined with its proprietary Anti-Cross-Contamination Technology (ACCT) provides unpreceded quality increase in solar cell manufacturing.

"Our PECVD and PVD machines have been successfully installed and tested in more than 10 reputable labs and pilot lines worldwide. Our unique and proprietary Mirror technology and our Octopus Platform are being used in HJT, Perovskite, and Tandem solar cells to reach world records and have proven to be highly robust and repeatable. Our current market traction underlines our capabilities in delivering highly reliable machines to our customers and support them throughout the entire process, from requirement specification through development of new recipes, to process trouble shooting and performance improvement. We are very proud to add SERIS to our customer portfolio and increase our presence in the Asian markets." states Dr. Omid Shojaei, CEO of Indeotec.

Indeotec SA (www.indeotec.com): is an innovative thin film deposition equipment manufacturer and solution provider, located in Neuchâtel (Switzerland). With its Octopus platform the company offers a modular and fully automated pilot-scale cluster system for the deposition of various singular or multiple stacks of sophisticated thin films by means of PECVD or PVD. Beyond the classical technologies that the company masters, it focuses on developing/offering well differentiated technologies. Indeotec

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has been developing and marketing unique proprietary technologies like the PECVD-Mirror technology and ACCT enabling bifacial deposition without vacuum breakage, wafer flipping and manipulations, hence significantly increasing the throughput of the machine and the quality of the devices, providing an unprecedented flexibility in process design. The company has references all around the globe: CSEM & EPFL in Switzerland, Fraunhofer ISE and HZB in Germany, ANU in Australia, the IPVF – France, KAUST in KSA, and SPIC – China.



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