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Vantaa, Finland

Beneq announces OLED thin film encapsulation R&D system delivery to Fraunhofer COMEDD

Beneq, a global supplier of thin film coating equipment, announces the availability of an R&D thin film encapsulation system for 200x200 mm OLED substrates. The first system will be delivered in the summer of 2013 as part of an atomic layer deposition (ALD) project to the German-based Fraunhofer COMEDD.

This research platform has been specifically designed together with the Fraunhofer Research Institution for Organics, Materials and Electronic Devices, known as COMEDD, which is an independent research institution of the Fraunhofer-Gesellschaft. Fraunhofer COMEDD offers a wide range of research, development and pilot production possibilities, especially for OLED lighting, organic solar cells and OLED microdisplays.

"We are honored to collaborate with Fraunhofer COMEDD to realize this particular OLED thin film encapsulation system," says Dr Mikko Söderlund, Director of Technical Sales at Beneq. "This new cluster integrated R&D system with face-down processing sets a new standard in thin film encapsulation quality and flexibility. We look forward to witnessing new, ALD-enabled OLED and organic photovoltaic (OPV) designs from COMEDD."

What makes the Beneq OLED thin film encapsulation system unique from a technical point of view is that it is based on a cross-flow reactor, which has been optimized for the shortest possible cycle time, even at low processing temperatures, such as <100 °C. This feature facilitates rapid prototyping of new OLED designs. Most importantly, the cross-flow reactor design enables process scale-up for large areas and high throughput, which is compatible with industrial requirements. The R&D system for 200x200 mm substrates is available as a stand-alone system and it can also be integrated with an MBraun glove box.

Beneq has been invited as a sponsor and speaker at Fraunhofer COMEDD's first Industry Partners Day, which takes place in Dresden, Germany, on April 10, 2013.

The ALD encapsulation R&D system will be delivered in the summer of 2013.

For more information, please contact:

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Beneq, based in Finland, is a leading supplier of production and research equipment for thin film coatings, as well as the world's premier manufacturer and developer of thin film electroluminescent (TFEL) displays. Beneq thin film equipment is used for thin film coatings in solar photovoltaics, flexible electronics, strengthened glass and other emerging thin film applications. Industry-proven Beneq equipment and thin film experience is used for improving the efficiency of crystalline silicon and thin film solar cells, producing transparent conductive oxide (TCO) coated glass and making touch screen glass more durable. Beneq has introduced several revolutionary innovations within its coating technologies, including roll-to-roll atomic layer deposition (ALD) and high-yield atmospheric aerosol coating (nAERO®). In addition to process equipment, Beneq also offers complete coating services. www.beneq.com

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