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Heraeus Clevios™ PEDOT:PSS Technology Integrated into Printed Organic Solar Cells

Fully roll-to-roll printable organic photovoltaic energy cells (OPV's) have been produced by the Technical University of Denmark, Department of Energy Conservation and Storage (DTU) using printed Clevios™ PEDOT:PSS from Heraeus Conductive Polymers Division rather than traditional vacuum processed Indium Tin Oxide.

Clevios™ PEDOT:PSS is a highly conductive polymer dispersion that allows the deposition of transparent, thin conductive films with sheet resistances of less than 100 Ohm/sq. DTU was able to show that the use of Clevios™ PEDOT:PSS as an electrode in the layer stack contributes to the thin, lightweight and flexible properties of the OPV device. Also the Clevios™ material contributes to the low cost of this roll-to-roll produced energy device.

Dr Wilfried Lövenich of Heraeus said "Flexible Clevios PEDOT:PSS allows additional options, including low cost printing, in the production of OPV devices."

Prof Krebs of DTU said: "The ability to provide flexible roll-to-roll printed energy devices so simply is a major step towards the generation of mass produced organic photovoltaic cells."

The work was partially supported by a European project ROTROT, (ROll-To-Roll production of Organic Tandem cells, FP7 ICT 2011).

Heraeus, the precious metals and technology group headquartered in Hanau, Germany, is a global, private company with more than 160 years of tradition. Our fields of competence include precious metals, materials, and technologies, sensors, biomaterials, and medical products, as well as dental products, quartz glass, and specialty light sources. With product revenues of €4.8 billion and precious metal trading revenues of €21.3 billion, as well as more than 13,300 employees in over 120 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

Further information please contact:

John Bayley
Sales and Marketing Manager Europe
Heraeus Precious Metals GmbH & Co. KG
Conductive Polymers Division
Building B202, Chempark
51368 Leverkusen
Germany
john.bayley@heraeus.com