

Trade Press Release

Singapore – December 9, 2013

Heraeus Increases PV Paste Production Capacity at its Singapore Site

- **Heraeus continues its commitment to the PV Industry**

Heraeus' Photovoltaics Business Unit is increasing their production capacity at its site in Singapore. As Pete Horan, Vice President Operations, points out, "ever since we built our Singapore factory we have seen increasing concentration of our customer base in Asia. I expect our paste production volume in Singapore to increase significantly over the next years".

Heraeus will continue production at its site in West Conshohocken, Pennsylvania, where it had recently enhanced its R&D capabilities. In parallel, the site in Hanau, Germany will concentrate on Technical Service and Applications. Andreas Liebheit, Senior Vice President managing the Photovoltaics Business Unit adds: "Bringing even more of our Production Capacity close to our prominent Asian partners, our Singapore site will become even more important in the future. Being able to meet increasing demand at reasonable lead times is the key to success in the fast moving PV industry. Moreover this South-East Asian operation provides a perfect environment for continuous improvements in lean management throughout the entire supply chain and manufacturing process."

Increasing production capacity at its Singapore site underlines Heraeus' continued strong commitment to the PV market. Heraeus has been a technology leader in silver paste ever since it entered this industry in 2008.

About the Heraeus Photovoltaics Business Unit

The Heraeus Photovoltaics Business Unit is an industry leading developer and manufacturer of silver metallization pastes for the photovoltaic industry. For over 40 years, Heraeus has built a reputation of innovation, extensive research and new product development in thick film technologies for some of the most prominent companies within a variety of industries. In the field of photovoltaics, the Heraeus Photovoltaics Business Unit applies this history and its innovative technology to offer metallization pastes for solar cell applications. The Heraeus SOL Series of silver pastes is specially formulated to provide higher efficiencies and wider processing windows, resulting in better yields and higher output for cell manufacturers.

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, quartz glass, and specialty light sources. In the financial year 2012 Heraeus generated product revenues of €4.2 billion

and precious metal trading revenues of €16 billion. With more than 12,200 employees in over 100 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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