



## **PRESS RELEASE**

### **Nanogate AG develops new technology platform for large-scale, low-cost fabrication of electric storage layers**

**First products for industrial applications tangible by end of 2008**

**Implementation as industry standard already succeeded**

**Significant increase in efficiency in particulate filtration**

**Additional markets opened up in the area of energy efficiency**

**Göttelborn, Germany, 25 August 2008. The new N\_charge® technology platform, which was developed by Nanogate AG (ISIN DE000A0JKHC9) within the framework of the "Advanced Composites" programme initiated two years ago, for the first time enables the low-cost storage of electric charges in different underlying media such as glass, textiles and plastics. The charge is not held for a limited time, but is permanent and also encompasses flexible, transparent and printable applications. This opens up numerous possibilities, primarily in the area of energy efficiency as well as use in various industrial applications.**

Through Nanogate AG's new N\_charge® technology platform, which has an enormous range of potential applications, Nanogate is gaining access to further, highly promising application areas. Thus it is possible to provide functional textiles with a permanent electrostatic charge, significantly boosting their effectiveness as a filtration or separation medium. Specific potential applications, particularly in the area of increasingly valued particulate filtration, have already been demonstrated. In addition, through a combination of existing properties, it is conceivable that the technology platform can be used for the low-cost construction of large, efficient energy storage devices. The technology can also be used in the area of acoustic membranes.



"With N\_charge® we have developed a very exciting approach to the creation of storage layers, which will enable us to tap into new, high-potential application areas," said Holger Zytur, who is responsible for the area of functional textiles at Nanogate.

"In recent months we have succeeded in transferring technology from the laboratory to industrial-scale applications and in empirically verifying our results with selected industrial partners. During the fourth quarter we expect to be able to present to the public the first specific products for electrostatic systems and future-oriented filtration," added Ralf Zastrau, CEO of Nanogate AG.

"N\_charge® has outstanding growth potential and offers another impressive example of Nanogate AG's enabling capabilities. Along with Dotfarm Optics® and Nanopating®, the patent-protected technology platform represents an important building block for future applications in the area of energy efficiency and 'green' nanotechnology," explained Ralf Zastrau.

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**Nanogate AG:**

Nanogate AG:

Nanogate is a leading international enabler in the nanotechnology growth market and so opens the gate to this technology for its customers. The firm, which is based in



Göttelborn (Saarland), enables the programming and integration of additional properties such as non-stick, anti-bacterial, anti-corrosive and ultra-low friction. Nanogate thereby gains a competitive edge for its customers by product refinement using chemical nanotechnology. Nanogate covers a wide range of industries, functions and substrates already on the basis of technology platforms. The company thus provides a decisive interface for the commercialisation of chemical nanotechnology, bridges the gap between raw materials and their industrial conversion into products and concentrates as an enabler on one of the most attractive segments in the industry. As a partner in innovation, Nanogate provides many services along the value chain – from development and production of innovative nanocomposites and nanostructured materials to powerful support for innovation and product integration.

The Nanogate Group currently has 60 employees in all (as of 31 December 2007) and since commencing operations in 1999 has been a pioneer in nanotechnology. Nanogate is a high-growth company and has operated profitably since financial year 2004. In financial year 2007 it boosted consolidated sales by about 32.8 % to around EUR 10.4 million. The earnings before taxes (EBT, according to IFRS) increased by about 32.8 % to around EUR 1.5 million. The company has first-class customer references (e.g. ABB, BSH Bosch-Siemens Hausgeräte, Kärcher and Koenig & Bauer AG) and many years' experience of different industries and applications. It has also entered into strategic cooperation with international companies such as Dow Corning. The Group's consolidation entity includes Nanogate Advanced Materials GmbH, which specialises in complex applications like high-performance optics, and a strategic investment with a majority option in Holmenkol AG.

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