PRESS RELEASE

Nanogate awarded DBU project to develop energy-efficient fine-particle filters

German environmental organisation Deutsche Bundesstiftung Umwelt (DBU) awards Nanogate a grant to develop an energy-efficient air purification product – Innovative filter finish has potential to reduce environmental impact of ventilation and exhaust technology – Grant worth a sizeable six-figure sum

Göttelborn, Germany, 25 August 2011. Nanogate AG (ISIN DE000A0JKHC9), the leading international integrated systems provider for nanosurfaces, is developing an innovative coating for fine-particle filters with the financial support of the environmental organisation Deutsche Bundesstiftung Umwelt (DBU). The project centres on reducing the energy needed to operate filters in ventilation and air-conditioning systems. It has been awarded a grant worth a sizeable six-figure euro sum.

The development aims to increase filter efficiency by improving dust recovery. In addition to this, the project is seeking to enhance the filters' durability, thereby significantly improving cost-effectiveness. There are many uses for filter fleeces with enhanced properties. These range from exhaust and ventilation technology in industrial systems to domestic air-conditioning and ventilation systems which are increasingly becoming standard for low-energy and passive-energy homes.

Ralf Zastrau, CEO of Nanogate AG, comments: "We see this grant from the DBU as great recognition of our long-standing expertise in air filtration. As fine-particle filters are now used in both large-scale industrial systems and private homes, we believe there are good sales opportunities which will enable our

energy-efficient products to contribute towards optimum energy utilisation in a range of applications."

Technical background:

In dust and fine-particle filtration, a filter's performance is determined primarily by its fibre density. Higher-performance filters – those designed to recover the most dust – need denser filter material. However, the disadvantage of this technology is that with higher filter density the pressure loss experienced during filter use is also higher. This means that considerably more energy is needed to force air through the filter. With the right filter finish, it is possible to achieve higher dust recovery without altering the density of the filter material. The pressure loss is therefore the same as for an untreated filter, leading to improved filter efficiency without increased energy consumption.

gefördert durch

DBU

Deutsche Bundesstiftung Umwelt

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Nanogate AG:

Nanogate is the leading international integrated systems provider for nanosurfaces, concentrating primarily on enhancing high-performance surfaces. The firm, which is based in Göttelborn (Saarland), enables the programming and integration of additional properties – such as non-stick, antibacterial, anti-corrosive and ultra-low friction – into

materials and surfaces. As an enabler, Nanogate gains a competitive edge for its customers by means of product refinement using chemical nanotechnology. Nanogate covers a wide range of industries, functions and substrates. The company thus provides a decisive interface for the commercial use of chemical nanotechnology and bridges the gap between the suppliers of raw materials and industrial conversion into products. In doing so, Nanogate concentrates as an enabler on one of the most attractive segments in the industry. Nanogate has a unique combination of extensive materials expertise paired with comprehensive, first-class process and production know-how. As a systems provider, Nanogate covers the entire value chain, from the purchase of raw materials, to the synthesis and formulation of the material systems, right through to the enhancement and production of the finished surfaces. Nanogate focuses primarily on plastic and metal coatings for all surface types (two and three-dimensional components).

The Nanogate Group has been a trailblazer in nanotechnology since commencing operations in 1999. The company has first-class customer references (e.g. Audi, BMW, Bosch-Siemens Haushaltsgeräte, Junkers, Kärcher, Hörmann Group, Opel and REWE International AG) and many years' experience of different industries and applications. Several hundred projects have already gone into mass production.