

Emitec's latest emission reduction campaign

Comprehensive emission control for non-road and stationary applications, OEM development partner for products and systems

Emitec Gesellschaft für Emissionstechnologie mbH from Lohmar near Köln has, as usual, set ambitious goals for emission control and the associated benefits timely for the Agritechnica 2011. Emitec's specialists always deliver forward-looking solutions for emission control and for lowering fuel consumption, maintain highest quality production and additionally provide a wide range of engineering skills for joint development projects with OEMs and system integrators.

Agritechnica news in brief:

The innovative **Emitec SCR-only emission control concept**, which will be presented at the Agritechnica, already meets future emission limits, such as EU Stage IV or US Tier 4 Final today. These innovations build on the great progress currently being made in engine development and control strategies and most import also on the increased SCR system efficiency through "turbulent" high-performance catalyst substrates and precise dosing systems that cut NO_x emissions by between 95 and 98 per cent. With this level of performance of the NO_x control system the engine-out particulate matter emissions are low enough so that particulate filters may not be required even at Stage IV. The benefits of the new design are obvious: it simplifies the exhaust system by eliminating the bulky filter component and so offers a significant investment advantage. In addition, it also reduces pressure loss and fuel consumption. These are not the only advantages; by minimising particulate emissions from the engine the new design frees up installation

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space, which can now be used for other purposes. The absence of filter monitoring and filter regeneration also simplifies the operation of the system.

Legislation on air pollution places increasingly stricter technological requirements on **emission control in distributed power generation**. Emitec responded by massively expanding its range of technologies and services in this area. For the first time, the company will present special components and systems for minimizing emissions from large, stationary gas engines and from engines running on biogas and vegetable oil. These types of application are subject to stringent emission standards for nitrogen oxides, carbon monoxide and unburned hydrocarbons, especially formaldehyde. Emitec provides a full range of engineering services and has many years of experience in the automated large-scale production of standardised substrate modules, enabling it to design cost-effective systems for its customers. The company can supply aftertreatment systems tailored to the application, cost-optimised, market proven and adapted to the full range of engine power ratings – all this with Emitec's "zero-defect" philosophy. As these emission control technologies substantially reduce formaldehyde in the exhaust gas, customers will qualify for the statutory additional bonus of 1 cent/kWh in accordance with the Renewable Energy Sources Act.

Emitec is more than just a manufacturer or supplier. The company is a global market leader in metal substrates for catalytic converters and diesel particulate filters and employs many highly qualified specialists, who are the foundation of Emitec's **engineering expertise and services for OEMs and system integrators**. Emitec's technicians, designers and engineers have access to a wide range of development tools, from state-of-the-art design software, such as CFD, FEM and CAD, to catalyst performance modelling software specially developed in-house. To guarantee the cost-effective and

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durable operation of its products under any operating conditions, Emitec runs its own test centre with engine test benches, roller dynamometers, component test benches and exhaust gas measuring systems for catalyst substrates, particulate filters and SCR dosing systems.

This means that joint project developments with our customers are not the exception but the norm.

The topics raised here and other news will be explained in more detail in the press kit and **at Emitec's press conference at booth A 51 in exhibition hall 13 on Monday, 14 November 2011.**

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