

New from EMITEC:**Reduce nitrogen oxides, filter particulates and save fuel at the same time**

Road traffic accounts for around half (47%) of nitrogen oxide emissions in urban areas. Nitrogen oxides from vehicles can be dramatically reduced with SCR technology (selective catalytic reduction).

Nitrogen oxide (NO<sub>x</sub>) reduction via SCR will be the main focus at the IAA stand of EMITEC Gesellschaft für Emissionstechnologie mbH from Lohmar near Cologne. The principles of how NO<sub>x</sub> emission control works in city traffic are demonstrated by Emitec system components fitted to actual vehicles (**fig. 1**). Visitors can see this in action on a minibus driving around the exhibition grounds.

EMITEC's engineers have developed the compact modular SCRi system (SCR with integrated particulate reduction) to meet current and future emission limits. SCRi is an easily controlled, very compact combination of mass-produced components thanks to continuous passive regeneration of the particulate filter. It is also highly suitable for retrofitting. In addition, SCRi systems make it possible to optimise engine combustion and so reduce fuel consumption by up to 15%.

**The development partner with the most powerful chassis dynamometer in the world**

EMITEC has been offering its customers engineering services for many years and helped them to develop particularly effective and economical exhaust gas technology on various engine test benches at its site in Hörselberg near Eisenach. In 2009 the world's most powerful chassis dynamometer was added to the test centre. This two-axle brake dynamometer can be used to test large busses, heavy commercial vehicles and four wheel drive vehicles with a total engine rating of up to 600 kW (816 hp) at speeds of up to 160 km/h (**fig. 2**). Extensive measurement technology allows engineers to measure emissions even at the lowest pollutant level. EMITEC thus provides an excellent tool for the development of commercial vehicles, engines and emission control systems.

The leading exhaust gas specialist EMITEC will be presenting its full range of innovative emission control technology at the IAA Commercial Vehicles from 23 to 30 September 2010. Visitors can explore the company's products at stand C26 in hall 12, including cost-optimised oxidation catalysts, particulate filters and turbulence-generating metal substrates for SCR catalysts. This year's highlight is the latest generation of AdBlue<sup>®</sup> dosing systems, which are available as components and system solutions for original equipment or for retrofitting.

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