

# Sustainable travel



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藏书章



SCANIA EURO 6 BUSES AND COACHES





# Sustainability, here we are.

Stop waiting and get rolling. Scania offers sustainable Euro 6 travel solutions anywhere, on any route, with any commercially viable fuel.

Scania's success lies in the success of our customers. That's why we focus on creating solutions and forming strong partnerships that deliver ecologic as well as economic sustainability.

This commitment to our customer's business has given us a long experience in helping operators all over the world finding the right answer to any individual sets of demands. In any application area from busy inner city transport to relaxed luxury touring.

It includes specifying single vehicles as well as finding the ideal combination of vehicles for large fleets. It also means a helping hand in navigating through fuel options, fuel infrastructure and tailored service agreements.

The result is an optimised solution that not only meets the toughest emission levels in the world, but also the highest standards for flexibility, uptime, fuel economy, comfort and driveability.

Simply challenge us with your ambition.

# Set the standard, lead the way.

Taking on the responsibilities of technical leadership, Scania was first to introduce Euro 6 technology in early 2011. The guiding principles stay the same also when it comes to Scania Euro 6 buses and coaches. It's all about uncompromised operating economy. Unbeatable performance. And nearly unlimited options.

Scania's solution is compact, reliable and based on cutting-edge technology. It offers fuss-free daily use as well as easy access serviceability.

## Together we can lead the way

By adapting to the new legislation as early as possible there are a number of benefits that go your way. First of all Scania buses and coaches offer an opportunity to compete for new business on both commercially and environmentally sound conditions. Depending on your local conditions and regulations, it may also mean immediate benefits in terms of lower road charges or other incentives.

## Your Scania Euro 6 fuel options

Scania is convinced that renewable fuels are part of a sustainable success for the entire transport industry. That's why we have committed ourselves to put large resources into research and development in this area over the years. The result is

a unique choice of commercially viable fuels for a wide range of applications.

- propulsion is often favoured by public authorities, especially if biogas can be supplied locally – as the CO<sub>2</sub> emission levels can be reduced dramatically.
- is a fossil fuel, but offers environmental benefits in terms of low noise and lower emissions than diesel.
- is a renewable diesel fuel produced from plant oil. It's easy to handle and can be used in most Scania diesel engines.
- the most emission cut for the money spent of the currently available biofuels for city centre and urban operations.
- is still the most common choice for long-distance operation, but the alternatives are gaining ground every day.

Having access to a wide range of fuels also means the possibility to match the solutions to your local prerequisites, legislation and fuel supply infrastructure. Scania has delivered ethanol and gas buses for more than 20 years to countries all over the world.







Nitrogen oxides (g/kWh)



#### Euro 6 emission standards

In Euro 6, NOx levels are just a fifth compared to Euro 5. Euro 6 comes into force for new models on 31 December 2012 and for existing models one year later. In addition to earlier legislation, the Euro 6 directive requires the particles to be counted and the test procedure is the first step towards a harmonised world standard.



# Higher comfort. Lower emissions. Better business.

Scania Euro 6 offers sustainability in all aspects of the word. As always with Scania, both driver and passenger comfort are in full focus. The Euro 6 technology means no sacrifice whatsoever in this respect.

## **Passenger-driven**

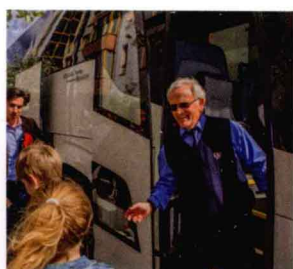
Consumers all over the world are getting more and more aware of their environmental impact. This global movement makes sustainable bus and coach travel part of a modern lifestyle. And in this perspective, Scania Euro 6 acts as a seal of quality, proving one of the most environmentally sound

travel options available. The comfortable seats and roomy, light interior in the Scania buses feel even better knowing that you have made a smart choice just by riding the right bus to work.

## **Optimised fuel economy – minimised emissions**

Continuing a strong tradition, Scania Euro 6 buses and coaches not only meet the highest emission standards, they are also carefully tuned when it comes to fuel economy, regardless of fuel choice. Less fuel means less CO<sub>2</sub> emissions, making your Scania a strong environmental option in all perspectives.





### Instant driver appeal

Ask any driver in the world. Scania stands for outstanding driveability and driver station design, promoting relaxed, safe and efficient driving.

High torque from low revs means excellent starting power and acceleration. Generous seat and steering wheel adjustability, pendant pedals and easy access complete the picture of a sound working environment. Knowing that the driver is the most significant factor when it comes to fuel economy, the instant Scania driver appeal provides a great start.

### Maximum reliability and uptime

Another key ingredient in the quest for a better operating economy is uptime and reliability. Market-leading engineering and robustness result in proven quality. Using only the best materials in tried and tested designs a Scania is built to last and deliver day in and day out even in the hardest conditions. The workshop stopovers are kept to a minimum. And also at minimum time, thanks to the unique serviceability provided by the Scania modular design.

# Your power of choice.

Choosing Scania has always meant freedom of choice. The Scania Euro 6 engine range makes no exception. With the widest range of commercially viable fuel options on the market, and with outputs ranging from 250 hp to 490 hp, there is a Scania Euro 6 engine for every application and situation.

All engines deliver full torque from low revs (around 1,000 r/min), which allows relaxed driving and enables all buses to be geared for maximum fuel efficiency, e.g. with cruising revs around 1,100-1,200 r/min for coach operation at 100 km/h.

The compact exhaust aftertreatment solution is a perfect example of state-of-the-art engineering. All Scania engines are designed and built to provide a perfect match with chassis and transmissions.

Scania has a long experience with both EGR and SCR technology and use them, sometimes in combination, sometimes as pure SCR. This makes it easy to find a solution that match both your needs and application.

## Euro 6 engine range – Scania Buses and Coaches

Engine	GAS:		BIODIESEL:			ETHANOL:	DIESEL:						
	280	340	280	450	490		250	280	320	360	410	450	490
Scania Citywide	X	X	X			X	X	X	X	X			
Scania Higer A30			X				X	X	X	X			
Scania OmniExpress			X	X	X	X	X	X	X	X	X	X	X
Scania Touring				X	X					X	X	X	X
<hr/>													
N-series	X	X	X			X	X	X	X				
K-series	X	X	X	X	X	X	X	X	X	X	X	X	X

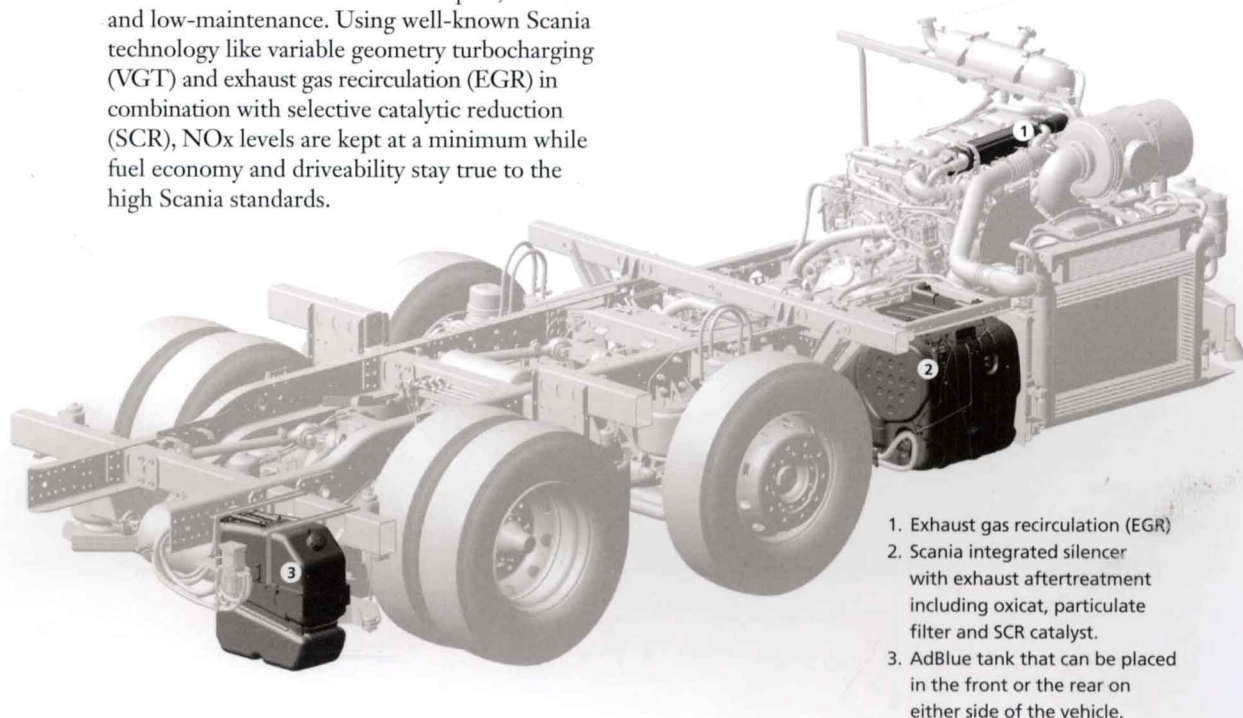
*Minor changes could occur depending on market and complete vehicle specification.*



9 litre biodiesel and diesel engine



The Scania Euro 6 solution is compact, flexible and low-maintenance. Using well-known Scania technology like variable geometry turbocharging (VGT) and exhaust gas recirculation (EGR) in combination with selective catalytic reduction (SCR), NO<sub>x</sub> levels are kept at a minimum while fuel economy and driveability stay true to the high Scania standards.



1. Exhaust gas recirculation (EGR)
2. Scania integrated silencer with exhaust aftertreatment including oxicat, particulate filter and SCR catalyst.
3. AdBlue tank that can be placed in the front or the rear on either side of the vehicle.



#### Scania EGR

Exhaust gas recirculation (EGR) reduces NO<sub>x</sub> levels by cooling and reusing part of the exhaust gases. This leads to increased fuel efficiency and strong environmental performance. In combination with Scania XPI (extra-high pressure injection) and Scania VGT turbocharging, this gives outstanding performance and driveability in each engine class.

When combined with Scania SCR as for Euro 6, the performance of the EGR system is carefully matched to provide the exhaust aftertreatment system with an optimised blend.

#### Oxicat

The oxidising catalyst is part of the Euro 6 aftertreatment system. It prepares the exhaust gases for subsequent stages in the exhaust flow

by balancing NO and NO<sub>2</sub> levels. It uses a catalytic process without any additives and is fully integrated in the compact Euro 6 silencer.

#### Scania particulate filter

The particulate filter removes remaining particles and soot, hydrocarbons and carbon monoxides from the exhaust gases. The filter is integrated in the Scania Euro 6 exhaust aftertreatment system and is designed to regenerate continuously during driving.

#### Scania SCR

Selective catalytic reduction (SCR) with a urea-based additive, AdBlue, ensures that exhaust gases are released with minimal nitrogen oxide content. As AdBlue is injected into the exhaust, a reaction takes place in a catalytic converter, which is integrated in the silencer.

Scania pursues an active policy of product development and improvement. For this reason the company reserves the right to change products, product specifications and part numbers without prior notice. Furthermore, due to national or EU legal requirements, some accessories may not be available in all local markets. For further information in these respects, please contact your local dealer or visit [www.scania.com](http://www.scania.com)



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