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Scania introduces new 13-litre gas engine for travel operations

Scania is renowned for its wide range of low-carbon powertrain options, and is now proud to add the all-new 13-litre gas engine that can run on natural gas and on biogas – regardless if the gas is in compressed or liquified form – as well as new tank options.

The new engine enables travel operators to take huge steps towards sustainability. “Our 13-litre gas engine and new tank options facilitate travel operators to switch to biogas without issues with range and while still providing the power needed for any operation. Another upside is that it doesn’t take a huge investment,” says Jonas Strömberg, Sustainability Director, Scania Buses & Coaches.

Currently, biogas is used in compressed form mainly by city and suburban buses, cars and light transport vehicles, but has been less competitive for heavy long-distance vehicles. In recent years, technology that enables to cool the biogas, turning it into liquid and more energy-dense is available. This enables using the gas for heavy transport. The new engine and tank options make that a reality for Scania coaches. “Biogas will be one of the key tools for decarbonisation of heavy duty transport – especially for intercity and long-distance operations. Half of Europe’s heavy duty gas fleet could be powered by biogas in 2025,” says Strömberg. The expansion of tank infrastructure for liquified gas in Europe is also ongoing.

Scania has developed gas engines for compressed and liquified gas for more than a century, and now makes the technology available for operators in need of more engine power. Running on both liquified gas (LBG/LNG) and compressed gas (CBG/CNG), the benefits with the new engine are many: it can use fossil-free fuel, renewable, locally produced that reduces emissions. “Biogas is not only one of the fuels with the lowest CO₂ emissions – it also solves local waste problems, creates local jobs and brings carbon and nutrients back to the soil. It is circular economy in practise,” Strömberg adds.

By switching to locally produced liquid biogas as fuel, operators can reduce both their own and their customers' climate impact by up to 90 percent. Air quality in general is positively affected by reduced emissions, and the quieter vehicles benefit drivers, passengers and crew.



With the possibility to use liquified gas and with the new tank options, the range achieved will be enough for any travel operation. The powertrain combination also makes it possible to build coaches in the same way as has previously been done with diesel engines.

Moreover, the 13-litre engine offers the power and torque of equivalent diesel engines, meaning it can handle even the toughest challenges. This makes it the most sustainable, yet viable powertrain option on the market for long-distance operators.

Furthermore, Scania gas engines require no additives to use the fuel, eliminating dependence on the additive's availability, all while reducing operating costs. "I would say the Scania OC13 is greener, cleaner, smarter, and quieter... And perhaps most important, it is a solution that is available today, enabling travel operators to take a huge step towards sustainable transport, here and now!" Strömberg concludes.

The 13-litre gas engine is available as an option on the recently introduced high-floor Scania K-chassis. The new chassis offer the great driveability and reliability associated with Scania, along with an increase in load capacity in the front axle by 500 kilos, which enables improved weight distribution and higher passenger and luggage capacity.

The chassis also come with newly developed suspension for improved comfort, a new first-class driver area, as well as added safety features and advanced driver assistance systems. In addition, they offer significant fuel consumption reductions without compromising on performance – and are compatible with new data-driven services that help increase both uptime and safety

To learn more about the new Scania 13-litre gas engine and Scania's solutions for Travel operations, please visit the digital showroom: scania.com/travelshowroom

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Scania is a world-leading provider of transport solutions. Together with our partners and customers we are driving the shift towards a sustainable transport system. In 2020, we delivered 66,900 trucks, 5,200 buses as well as 11,000 industrial and marine power systems to our customers. Net sales totalled to over SEK 125 billion, of which over 20 percent were services-related. Founded in 1891, Scania now operates in more than 100 countries and employs some 50,000 people. Research and development are mainly concentrated in Sweden. Production takes place in Europe and Latin America with regional product centres in Africa, Asia and Eurasia. Scania is part of TRATON GROUP. For more information visit: www.scania.com.