

Urban waste collection in Madrid becomes more environmentally friendly with CNG-powered Iveco Stralis

The City Council of Madrid in Spain has added 109 compressed natural gas-powered Iveco Stralis vehicles to its fleet, which will be used to collect urban waste in the Spanish capital.

The Iveco plant in Madrid is dedicated to the production of these heavy-duty gas-powered trucks, which reduce CO₂ emissions by 10%, particulate matter by 95% and NOx by 35%, as well as delivering fuel cost savings of up to 40% and a Total Cost of Ownership 10% lower than their diesel equivalent.



Turin, 16 November 2016

Madrid City Council in Spain has acquired **109 Iveco Stralis heavy-duty** trucks powered by compressed natural gas (CNG) for its urban waste collection fleet. These vehicles are produced exclusively at the Iveco plant in Madrid.

The vehicles procured by Madrid City Council include **90 Stralis AD260S33YPS CNG** models, featuring a 19 m³ Ros Roca collector, and 19 AD190S33/P CNG models, each with a 12 m³ Ros Roca collector. The trucks are powered by an **Iveco Cursor 8 CNG engine** that delivers 330 hp and features an automatic transmission with integrated retarder. The engines have **eight CNG cylinders** with a total capacity of 640 litres in the AD260S33YPS model and 600 litres in the AD190S33/P model. The Stralis trucks also feature the latest safety technology and have been tailored to meet the company's needs.

Natural gas (or methane) is stored in a gaseous state at a pressure of 200 bar, which the regulator reduces in two stages, before the gas is injected into the engine. The fuel is much cleaner than fossil fuels and generates **95% less particulate matter emissions** than diesel, **35% less NOx** and **10% less CO₂** - the equivalent of 85 tonnes every year. What's more, the engine is also 50% to 75% quieter than the Euro VI diesel engine, as the Stralis CNG reduces noise pollution by between 3 and 6 decibels in comparison with other trucks in the same performance class.

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Natural gas engines are also more economical to run. They ensure **fuel savings of 40%**, achieving a Total Cost Of Ownership (TCO) that is 10% lower than their diesel equivalent, but without decreasing their transport capacity or increasing their greenhouse effect or air pollution levels.

Methane is a natural non-toxic gas which is less flammable than petrol vapours, emits less pollutant and is more efficient than liquefied petroleum gas (propane or butane), because it requires less fuel to travel the same distance. There are currently 43 public CNG refuelling stations and 19 LNG stations in Spain, making it the country with the most stations selling liquefied natural gas (LNG) in Europe. A further nine mixed CNG/LNG stations are currently under construction.

Iveco's leadership in the development, production and sale of alternative natural gas drives is the result of over 20 years of experience, during which time the company has produced over **16,000 vehicles and 29,000 engines** of this kind.

Madrid's City Council has purchased these Stralis models through a centralised state procurement system - a model of procuring goods, works and services which makes it possible for them to be used by any of the departments in the General State Administration.

Iveco

Iveco is a brand of CNH Industrial N.V., a World leader in Capital Goods listed on the New York Stock Exchange (NYSE: CNHI) and on the Mercato Telematico Azionario of the Borsa Italiana (MI: CNHI). Iveco designs, manufactures and markets a wide range of light, medium and heavy commercial vehicles, off-road trucks, and vehicles for applications such as off-road missions.

The brand's wide range of products include the Daily, a vehicle that covers the 3 – 7 ton vehicle weight segment, the Eurocargo from 6 – 19 tons, the Trakker (dedicated to off-road missions) and the Stralis, both over 16 tons. In addition, the Iveco Astra brand builds off-road trucks, rigid and articulated dumpers as well as special vehicles.

Iveco employs close to 21,000 individuals globally. It manages production sites in 7 countries throughout Europe, Asia, Africa, Oceania and Latin America where it produces vehicles featuring the latest advanced technologies. 4,200 sales and service outlets in over 160 countries guarantee technical support wherever an Iveco vehicle is at work.

For further information about Iveco: www.iveco.com

For further information about CNH Industrial: www.cnhindustrial.com

For further information, please contact:

Iveco Press Office – EMEA Region

pressoffice@iveco.com

www.ivecopress.com

Tel. +39 011 00 72965

Facebook: <https://www.facebook.com/IVECO/>

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