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## RENAULT AND THE ENVIRONMENT: TARGETING ZERO EMISSIONS

Renault's longstanding quest to curb CO<sub>2</sub> emissions was again rewarded with a top-three ranking in the list of Europe's most efficient carmakers at the end of 2008.

Sixty per cent of the vehicles sold by the group (Renault and Dacia) in Europe in 2008 emitted less than 140g of CO<sub>2</sub>/km (compared with 48 per cent in 2007).

Twenty per cent of the vehicles sold by the group (Renault and Dacia) in Europe in 2008 emitted less than 120g of CO<sub>2</sub>/km

Meanwhile, Renault is actively pursuing its breakaway strategy when it comes to reducing CO<sub>2</sub> emissions with the development of electric vehicles.

Renault's stand at the Geneva Motor Show exhibits a range of powertrains developed to meet the shift in the demand of its customers. Today, thanks to the approach known as **downsizing**, it is possible for pleasure and performance to go hand in hand with economical, ecological motoring.

Renault's know how in the field of turbocharging is showcased by the existing TCe 100 engine, which already features in the Renault Twingo, Clio and Modus catalogues. This powerplant is today joined by the TCe 130 engine – which is available for New Renault Mégane and Scénic – in a bid to offer a **range of responsive, yet fuel efficient and affordable petrol engines**. Similarly, Renault's new line-up of dCi diesel engines, which are widely acclaimed for their performance and fuel economy, have undergone further improvements to ensure that they are compatible with the Euro5 emission standard.

The **Renault eco<sup>2</sup> signature** enables customers to identify the range's most ecological vehicles. Indeed, the introduction of the Renault eco<sup>2</sup> hallmark saw Renault break new ground in its bid to reduce the environmental impact of its vehicles throughout their lifecycle, from their design and production to their end-of-life recycling. **Leaving as small a trace as possible is the commitment of the Renault eco<sup>2</sup> signature.**

Renault is also actively pursuing a breakaway strategy when it comes to reducing CO<sub>2</sub> emissions with the development of electric vehicles. The Alliance Powertrain Planning Office (APPO) is a new department which has been established with a view to building on the synergies within the Alliance regarding

powertrains based on heat engines and electric motors. The APPO will become operational on April 1, 2009.

**Z.E. Concept** (Zero Emission Concept) shows Renault's vision of what an electric vehicle should be, namely an efficient, easy-to-use zero-emission car. Based on the new Renault Kangoo be bop, the philosophy behind Z.E. Concept's design is that of an electric vehicle which reduces energy consumption to an absolute minimum, but without doing away with indispensable comfort-related equipment. The energy consumed by the different auxiliary functions such as the lights, heater, climate control, etc. is a fundamental parameter when it comes to a vehicle's autonomy, so Z.E. Concept optimizes energy management in order to ensure that it enjoys the longest range possible. It also features a long list of interactive information functions.

Z.E. Concept is equipped with lithium-ion batteries and powered by a 95hp (70kW) electric motor which boasts torque of 226Nm.

Since January 2008, the **Renault-Nissan Alliance** has signed **agreements** with a long list of states and regions (Israel, Denmark, Portugal, Japan's Kanagawa prefecture, the USA states of Tennessee and Oregon, Monaco, etc.), which will lead to the mass marketing of electric vehicles from 2011. Other **partnerships**, such as the deals struck with EDF in France and Energie Ouest Suisse in Switzerland, provide the foundations for other associations in the future which will permit the development of the infrastructure for **the mobility of tomorrow** (battery-charging station networks, mobile phone-type monthly distance contracts, etc.)

Renault is also working on a range of solutions aimed at enabling customers to identify the vehicle that most closely matches their needs. Since January 2009, Renault has also extended its line-up of **biofuel**-compatible vehicles with bioethanol solutions for Modus, New Kangoo and New Mégane, and the availability of biodiesel engines for both New Laguna and New Kangoo.

A long list of other ongoing projects provides further evidence of Renault's commitment to the environment.

Meanwhile, simply by taking onboard a certain number of simple, effective techniques when driving on a day-to-day basis, it is possible for motorists to make fuel consumption savings of up to 20 per cent. Renault has consequently developed different forms of **eco-driving** tuition for its customers, such as eco-driving drive-days and the introduction of eco-driving simulators across the network in the course of 2009.