



## LO<sub>w</sub>CO<sub>2</sub>MOTION

### **The Agency for Industrial Innovation reinforces its action in the fight against CO<sub>2</sub> emissions from cars.**

The Agency called for a meeting of its supervisory board on the 15<sup>th</sup> of February 2007 at which a new Mobilizing Program for Industrial Innovation was approved.

The LO<sub>w</sub>CO<sub>2</sub>MOTION program enables cars to cross a new threshold in the reduction of CO<sub>2</sub> emissions while ensuring the pursuit of local atmospheric pollution reduction which is generated by the toxic compounds discharged by the exhaust gas.

The LO<sub>w</sub>CO<sub>2</sub>MOTION programme aims to improve vehicle gasoline engine efficiency on the one hand and the proper management of the energy used by the vehicle on the other hand especially during the slowing down and the stopping phases. This programme will contribute in the long run to reduce CO<sub>2</sub> emissions and diesel engine pollutants.

Put forward by Valeo, world leading automotive supplier, this programme focuses on two new products:

- The Camless system enables to control the valves of the thermal engine thanks to the electromagnetic actuators and replaces the camshaft. It also optimises combustion for all gasoline engine speeds as for the diesel engine in a subsequent version

The Camless system partnership gathers the Electro technical laboratory of Grenoble (LEG), the French Petroleum Institute (IFP), the German automotive supplier TRW automotive and the German car engineering company IAV GmbH.

- The mild hybrid system, conceived on the basis of an alternating current car starter, enables to manage the energy used by the vehicle and applies to all types of motorizations and fuel. This Start-Stop system features a regenerative braking function where energy generated during braking is recovered when the car starts to move again. It suppresses all fuel consumption when the car is at a standstill. This programme integrates the development of a new high-efficiency, high power alternator technology.

The partnership of the mild hybrid gathers PCA (PSA Peugeot Citroën group), Batscap (Bolloré Group) for electricity stocking by ultracapacitors and TNO, a consultancy firm in engineering.

The LO<sub>w</sub>CO<sub>2</sub>MOTION programme represents a 211,6 million euros global investment in research and development covering the 2007-2011 period.

The industrial innovation agency has planned to contribute up to 61 million euros to the LO<sub>w</sub>CO<sub>2</sub>MOTION programme.

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