



## Dacia eco2



The eco<sup>2</sup> signature is a certification of the fact that Dacia cars are framing in the environment strategy on long term initiated by Renault Group in 2006. The task proposed by the group was to become one the first three car producers at international level referring to the law level regarding CO<sub>2</sub> emissions. Introduced, at the beginning, for the series of Renault cars, the eco<sup>2</sup> signature guarantees that the car bearing it achieve three criteria by means of which they are protecting the environment, criteria hardened in may 2011 : to display e CO<sub>2</sub> emissions level lower or equal to 120g/km; to be produced in a factory with ISO 14002 certification; 95% of the vehicle mass to be revaluated by recycling at the end of the life cycle, and at least 7% of the plastic material to be recycled material.

There are already vehicles bearing the eco<sup>2</sup> signature in the Dacia series and on the market in Romania. All the Dacia cars are recyclable in a percentage of 95% and the factories on the industrial platform in Mioveni received the ISO 14001 certification. Regarding the level of the CO<sub>2</sub> emissions, the following cars in such series meet the eco<sup>2</sup> conditions:

|                  |        |                           |
|------------------|--------|---------------------------|
| <b>Sandero</b>   | dCi 75 | 104 g CO <sub>2</sub> /km |
| <b>Sandero</b>   | dCi 95 | 104 g CO <sub>2</sub> /km |
| <b>Logan</b>     | dCi 75 | 104 g CO <sub>2</sub> /km |
| <b>Logan</b>     | dCi 90 | 104 g CO <sub>2</sub> /km |
| <b>Logan MCV</b> | dCi 75 | 119 g CO <sub>2</sub> /km |
| <b>Logan MCV</b> | dCi 90 | 119 g CO <sub>2</sub> /km |

### Logan eco<sup>2</sup> Concept

Logan eco<sup>2</sup> Concept is a prototype which has been presented at the stand of the Auto Hall in Paris in 2008. It proved, on the occasion of the Bibendum Michelin competition in Shanghai (2007) that there is possible an association between the term “economical and ecological” without affecting in any way the performances and achievements of a vehicle.

And so, during the rally, Logan eco<sup>2</sup> Concept displayed an emissions level of only 71 g CO<sub>2</sub>/km (in a mix cycle) due to the optimization and use of some simple and economical techniques. Concerning presented at the Hall, the reduction of the CO<sub>2</sub> emissions is due to the following aspects:

- changes of the aerodynamic coefficient, that contributed to

- optimization of the board energy consumers, which resulted in a reduction of the CO2 emissions with 4 g/km, allowing a less frequency in loading the battery
- improvement of the front-rear axle resulted in a reduction of the CO2 emissions with 3 g/km
- changes of the engine-propeller unit, resulted in a reduction of 11 g/km

Even more, the dashboard of the model owns an indicator for the optimum moment to change the report of the gear box.

All those technics applied on the Logan eco<sup>2</sup> Concept experimental model will open the way to applying sensitive technologies to the environment and on the future models in the Dacia series.

[Automobile Dacia obtained ISO 14001 certification - 13th of September, 2005](#) [1]

[The Integrated Environmental and Quality Management System at Dacia, reconfirmed the standard ISO 14001, valid till 2011](#) [2]

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