

NoAE Innovations-Competition 2010

Topic cluster 3

Eco Innovation – New Approaches to CO₂-Reduction

Heading:

Description

A continuous **reduction in fuel consumption** and therefore **less CO₂ emissions** are the central goals of the automobile industry. Thus innovations are being sought after, which utilise all the possible ways to reduce CO₂. These include the **optimisation of the drive train** and the **increase in efficiency of motors** as well as the **acceleration in developing alternative fuels and powertrains. Overcoming driving resistances** through the reduction of the vehicle weight and air resistance as well as **helping the driver** save fuel with assistance systems are of central importance. Furthermore, the **energy efficiency** of all consumers in the vehicle will be optimised.

Key points and sub-items

- Reduction of driving resistances (rolling resistance, friction performance and aerodynamics)
- Influencing driving habits with telematics and HMI solutions
- Increasing the efficiency of electric and hydraulic engines
- Production and recovering of "unexplored" energies
- Improved material efficiency and recycling potentials/concepts
- Motor management and auxiliary power
- Lightweight construction
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Considering customer needs

Where are innovations found?

- The smallest possible reductions in performance, security and comfort (lower consumption while sustaining existing needs)
- University and research facilities
- Entire value chain from Level n to OEM
- Non-automotive sector and representatives of other mobility concepts

Cluster moderation:

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