



Sustainable Electrical & Electronic System for the Automotive Sector

www.sees-project.net

3rd SEES Newsletter

October 2006



Introduction

In this 3rd edition of the newsletter of the project **SEES – Sustainable Electrical & Electronic System for the Automotive Sector** we want to update you on the current progress of the project and to draw your attention to an **upcoming workshop of the SEES project at the “Going Green CARE INNOVATION 2006” in Vienna on the 14th of November 2006.**

Since the [last edition of the newsletter](#) which was distributed in July of this year, the SEES partners have continued their research activities on the *electrical & electronic system (EES)* of automobiles in order to develop new design concepts and end-of-life treatment technologies for a sustainable, clean, cost- and eco-effective EES. This newsletter provides an overview on the current state.

The project consortium would appreciate your feedback on our research. Please find contact information at the end of this newsletter or even better, join us at our workshop in Vienna.

Progress of the SEES project

The SEES project is now heading for the finish line as it is about to end in January 2007. In the last months important workpackages have been finished, including the EES recycling study and the SEES software development.

EES Recycling (WP 4)

Within this workpackage mechanical and chemical recycling processes have been developed at Indumetal Recycling S.A., Rohm & Haas Electronic Materials and GAIKER. These processes are able to recover additional materials from dismantled EES components or mixed EES materials from the shredder. You find more details on the studied processes in the public deliverable D4 which is available from our homepage.

Link: [Results of WP 4 – Analysis and Demonstration Activity for E&E Recycling \(Deliverable D4\)](#)

Software Development (WP 11)

CIMA Kft. has developed together with project partners a prototype of a software tool which supports designers or recyclers in analysing product designs and the relevant processes, e.g. for recycling of a certain product. Based on a product model aspects relevant for the end-of-life situation can be analysed, e.g. material recyclability and disassembly effort. Products or materials can be linked to process chains to simulate materials, costs and emissions of different recycling scenarios. Product and process data contained in the software have been collected during the course of the project in the disassembly, shredding and recycling studies. The software prototype will be further developed at CIMA Kft.

Ongoing SEES Studies

Ongoing SEES activities to be finished in the next months include the following:

- **Plastic Recycling Study (WP 5):**

The WP5 partners work on further optimisation of the developed processes for recycling of mixed plastics from mechanical EES treatment and plastics from shredding residues. The quality of the recycled plastic materials will be improved by application of specific additives to enhance their mechanical properties in order to find suitable applications. Results will be published by the end of this year in the deliverable D5.

- **Development of a new EES Concept (WP 9):**

Based on the developed SEES Eco-design guidelines, concepts have been studied that could contribute to a more sustainable automotive EES. This includes redesign options and current trends on both component and system level, e.g. the use of an energy management system to reduce emissions and fuel consumption of the EES during the car use phase and the use of natural fibres reinforced plastics for covers of some EES devices. Prototypes have been developed for the energy management system and natural fibre reinforced plastic covers.

- **Product Test (WP 10):**

The concepts developed within WP 9 of the SEES project are evaluated with regard to benefits or drawbacks on functionality, assembly/disassembly, environmental & economic profile and recyclability.

Upcoming SEES Workshop

We want you to invite you to join us for a SEES workshop at the upcoming “[Going Green CARE INNOVATION 2006](#)” international symposium in Vienna (13-16 November 2006). Within the framework of this major conference on electronics, environment and recycling we are going to present results and conclusions from the major SEES activities:

- EES Disassembly Studies
- EES Shredding and Recycling Processes
- Environmental & Economic Evaluation
- Presentation of the SEES software tool
- Redesign of the automotive EES and new concepts

The workshop will be held on **Tuesday, 14th of November, at 8:30 – 10:30**. For more details on the SEES workshop please check the [programme](#) on our website (www.sees-project.net). If you are interested to participate in the workshop or if you have any questions, please contact the SEES coordinator André Greif (andre.greif@tu-berlin.de).

For general information on the CARE INNOVATION congress which provides a programme packed with interesting presentations from related fields, please check their website at <http://www.care-electronics.net/ci06>.

Looking forward to meeting you in Vienna!

Planned SEES Dissemination Events

The SEES consortium intends to further disseminate results at the following major car recycling conference:

- International Automobile Recycling Congress, 21-23 March 2007, Amsterdam (<http://www.icm.ch>)

Please watch out at our SEES homepage for more announcements of upcoming SEES activities and presentations.

Contact

For all questions concerning the SEES project and if you are interested in continuous information about SEES please visit our homepage (<http://www.sees-project.net>) or contact directly:

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