Info-package No. 2

Management device for optimisation of local charging

Mobility

Introduction:

Wide acceptance of plug-in hybrid electric vehicles (PHEVs) and all-electric vehicles (EVs) requires a developed charging infrastructure, though drivers will usually prefer charging at home or at workplaces most of the time. The number of available commercial charging solutions is countless. However, most of them are oriented to specific vehicle brands or must be supported by affordable business models. Most of them offer remote charging management via web and the possibility to choose the charging time (sometimes taking into account electricity rates).

Goals:

The main goal is to provide a **universal** solution that covers the needs of users interested in **low cost** charging management, that have already the related charging infrastructure in place. It is addressed both to private use and fleets management and offers the possibility of remotely managing the charging process, getting information on the battery state of charge, remotely setting up the preferred charging time, monitoring a set of variables related to the charging process and being portable.

Progress:

The first prototype has already been built and some tests at lab level have been performed. Now, a second prototype is being developed and will be tested in actual vehicles.

Lessons learnt:

Improvements on the technical side: tests carried out with first prototype at lab level have helped to fine-tune the design and functionalities.

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