



Info-package 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 reliable and widespread public charging infrastructure, though drivers will usually prefer charging at home or at workplaces most of the times. 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.

A flexible and affordable solution to remotely manage the charging process of private vehicles and small business fleets is offered, providing the user with functionalities to select the most convenient charging time and closely follow the charging process via web and portable devices (tablet, cell phone, etc), taking due care of related expenses.

Description



Figure





Goals

- 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.
- To address both private use and fleets management.
- To offer 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

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

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





Produced for REMOURBAN by:

M. Ángeles Gallego
CARTIF Technology Centre
magal@cartif.es



www.remourban.eu



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