Agenda of the Green eMotion Project Session

Heike Barlag (Siemens AG): Paving the way to an interoperable electromobility system

Holger Braess (BMW Group): Interoperability of electromobility services - Requirements from an OEM Point of View

Volker Fricke (IBM): Setup of a European marketplace for electromobility

Narcis Vidal (Endesa): Experience of a Green eMotion demo region (Endesa)

Cristina Cochero (IREC): Key facts and analysis on driving and charge patterns
Paving the way to an interoperable electromobility system

Dr. Heike Barlag, Siemens AG

Barcelona, November 18, 2013
Will I be able to charge my eCar anywhere in Europe?

takes care that you will be e-mobile throughout Europe
Green eMotion – a 42 Mio € project with 41 Partners

- **Industries:** Alstom, Bosch, IBM, SAP, Siemens (Project Coordinator)
- **Utilities:** Danish Energy Association, EDF, Endesa, Enel, ESB, Eurelectric, Iberdrola, RWE, PPC
- **Electric Vehicle Manufacturers:** BMW, Daimler, Nissan, Renault
- **Municipalities:** Barcelona, Bornholm, Copenhagen, Cork, Dublin, Malaga, Malmö, Rome
- **Research Institutions and Universities:** Cartif, Cidaut, CTL, DLR, DTU, ECN, Imperial, IREC, RSE, TCD, Tecnalia, TNO
- **EV Technology Institutions:** DTI, FKA, TÜV Nord

FP7 call TRANSPORT – 2010 TREN -1
Project Start: March 2011
Duration: 4 years
Funding: 24 Mio €
Green eMotion demo regions and data collection sites

- 10 Demonstration regions fully operative, involving 7 countries and more than 15 municipalities.
- 2 Replication regions and 1 demonstration region to be included in 2013.
- 5 External demonstration projects already sharing data.

- 1800 charging points
- Monitoring 600 electric vehicles
- 1000 users
Green eMotion Building Blocks

- EVSP Backend (Electric Vehicle Service Provider Backend system)
- Clearing House Service
- Marketplace (Business to Business)
- EVSE Search (Example of Business Service)
- PMS (Power Management System)
- CMS (Charge Management System)
- Utility
- DSO / TSO / Retailer / Aggregator
- Battery Swap
- Inductive
- AC Charger
- DC Charger
- EVSE Operator
- User
- External Network Provider

- Policies
- Legislation
- Standards
- Municipalities, Government
- EVSP
- IT Provider
- User
Green eMotion – a demonstration project in 10 + 2 demo regions

- DC charging
- Roaming
- Grid upstream infrastructure prototypes
- Inductive charging
- EV charging in different regions
- ROI/NI/UK/PIP charging event
- Search EVSE backend services

- Aggregated information available for GeM from CROME
- CROME – GeM marketplace

- Iberdrola minibus service
- Supply quality
- Marketplace and roaming
- Iberdrola smart grid

- Load management for the AC charging infrastructure
- DC fast charging station with 2nd life batteries
- Roaming
- Search EVSE
- Smart grid management schemes new functionalities
- Grid impact on local high penetration area of EV

- Roaming
- Battery switch station
- On-board system (mobile service)

- Roaming via smartphone application
- Plug&Charge - PLC identification

- Marketplace to marketplace communication
- Roaming
- Search EVSE

- Roaming
- Search EVSE
- Load management
- MicroMobility

- AC – Charging
- Roaming
- Load management schemes
EVS27 – Green eMotion Project Session

More information: www.greenemotion-project.eu

Please join our
Green eMotion - EU Electric Vehicle Forum
on LinkedIn
Green eMotion covers all aspects necessary for enabling the mass market roll-out of electromobility.

Green eMotion influences actively the standardization on identifier and interfaces – necessary for interoperability and therefore a competitive market.

The Green eMotion Marketplace will connect wide parts of Europe and will enable open access to the electromobility market for users and service providers.

Policy guidelines and technical reports will spread experience throughout Europe.

Data collection has not only static data, but also dynamic data, that is valuable input for policies and recommendations.

Business Models and cost-benefit-analysis will evaluate potential business opportunities in electromobility.

The external stakeholder forum is the platform for discussion on a very broad base and can therefore lead to an European interoperable electromobility system.