Towards an intelligent e-mobility

Lourdes Garcia Duarte

18 Novembre 2013
EVSEPE – Electric Vehicle Supply Equipment POWER ELECTRONICS
EVPE – Electric Vehicle POWER ELECTRONICS
BMS – Battery Management System
EVCM – Electric vehicle Communication Module
EVSE Backend – Electric Mobility Control Centre
EV-SE COMS – Electric Vehicle – Supply Equipment Communications
Integration into the vehicles architecture

50 kW Prototype

EVCM

BMS

BATTER Y

EVP E

EVSE PE

EVSE EVSE EVSE PE PE PE PE

SHIELDING SHIELDING SHIELDING SHIELDING

DEMOSIT DEMOSIT DEMOSIT DEMOSIT EE EE EE EE
Inductive charging station design
Inductive charging station – integration in
Wireless Communication Architecture

1.- POWER SYSTEM

2.- CHARGING PROTOCOL MANAGEMENT SYSTEM

3.- HMI

4.- EXTERNAL COMMUNICATIONS SYSTEM

5.- MANAGEMENT SYSTEM

6.- PROTECTIVE STRUCTURE
Recarga rápida por inducción
RECHARGING STATION DESIGN

FUTURE VISION
RECARGA DINÁMICA POR INDUCCIÓN
THANKS FOR YOUR ATTENTION!

lourdes.garcia@endesa.es

light · gas · people