Specification, Implementation, Field Trial and Standardisation of the Vehicle-2-Grid Interface

- Total cost: 3.57 million euro
- EU contribution: 2.41 million euro
- Execution: from July 2011 to June 2013

Project partners

- DENSO AUTOMOTIVE Deutschland GmbH (Andrés Caldevilla, a.caldevilla@denso-auto.de; Robert Schmidt, r.schmidt@denso-auto.de)
- BroadBit (project coordinator: Andras Kovacs, andras.kovacs@broadbit.com) www.power-up.org

Physical deployment

- V2G ISO/IEC 15118
- DLMS/COSEM IEC 62056
- Charging Point
- Load Balancing Controller

Communication protocol stacks

- Example of application layer interaction between the ISO/IEC 15118 V2G and IEC 62056 DLMS/COSEM interfaces during the charging session establishment

Results

- Smart grid integration of the V2G system
- Automotive & infrastructure side V2G adapters integrated into the vehicle & charging point
- V2G conformance test development
- V2G-ready smart-meter and load balance control software
- End-to-end validation and demonstration of the V2G system