

IEEE VPPC 2010

Vehicle Power and Propulsion Conference
September, 1-3, 2010 – Lille, France

Clean Tech for Transportation

<http://www.vppc2010.org/>



Special Session on SMART GRIDS TO SUPPORT ELECTRIC VEHICLES

Chairman: Dr G. A. PUTRUS, Northumbria University, Newcastle upon Tyne (UK)

[Email ghanim.putrus@northumbria.ac.uk](mailto:ghanim.putrus@northumbria.ac.uk)

Co-chair : Dr Steve McDONALD, New and Renewable Energy Centre (Narec), Blyth (UK)

[Email steve.mcdonald@narec.co.uk](mailto:steve.mcdonald@narec.co.uk)

Call for Papers

Future power networks will be required to deliver cleaner electricity more efficiently to meet ever growing demands. They will use a combination of centralised and distributed generators, mainly from low carbon, new and renewable energy sources. Emerging technologies in Plug in Hybrid Electric vehicles (PHEV) and Electric Vehicles (EV) are expected not only to increase the power demand on electrical networks, but also present new challenges and opportunities with regard to design of effective vehicle to grid interfaces. To meet these requirements, power distribution networks need to become smarter and include advanced control, metering and ICT protocols.

Smart grid infrastructure, grid to vehicle interface devices, control and communication protocols, regulatory framework, etc. are starting to evolve and there are many technical and regulatory challenges facing the sector. Such challenges will only be met through innovation, new technologies and consumers' participation. This new concept of 'smart grids' provides good opportunities not only for research and innovation but also for industrial development, business evolution and job creation.

Topics of interest include, but are not limited to:

- Impacts of EV and PHEV on existing and future power networks
- Grid integration of EV and PHEV
- Smart Grids
- Power Quality
- Vehicle to grid interface devices and charging controllers
- Regulations and standards
- Commercial infrastructure and business models for grid integration of EVs.

- Deadlines -

| | |
|-----------------------------------|-----------------------|
| Submission of abstracts: | March 1, 2010 |
| Notice of acceptance: | April 15, 2010 |
| Submission of full papers: | June 15, 2010 |
| Deadline for registration: | July 30, 2010 |

All the instructions for abstracts are included in the conference website <http://vppc2010.org/> :

- Special Session title, paper title, authors, affiliation(s), mailing and e-mail address(es),
 - corresponding author clearly identified,
- Abstract of 100-300 words and a digest of 3-5 pages.