CIGRE SC C6

UK Liaison Meeting

Stafford,

30 Nov 2009

Nick Jenkins

Scope of C6

- The Scope of the SC is to assess the technical impacts and requirements which a more widespread adoption of DG and which a larger proportion of un-dispatchable power generation could impose on the structure and operation of transmission and distribution systems
- Rural electrification, demand side management methodologies and application of storage are within the scope of this SC.
- **WEB SITE** SC C6 has its own web site at http://www.cigre-c6.org/
- Chairman: Prof Nikos Hatziargyriou

Recent WGs

WG C6.11 Development and operation of active distribution networks

Christian D'ADAMO (Italy) 2006-2009

WG C6.13 Rural electrification Disbanded

Gudni DAGBJARTSSON

(Switzerland) 2006-2008

WG C6.15 Electric Energy Storage Systems Zbigniew Antoni TYCZYNSKI (Germany) 2007-2009

WG C6.16 Technologies employed in rural electrification Trevor Gaunt (South Africa) 2009-2012

WGs being discussed

Electric Vehicles: Convener to be appointed, David Jacobson (Canada) drafting ToR

Smart Metering: Convener Eduardo Navarro (Spain) ToR being drafted

Both of the proposed new Working Groups are attracting considerable interest.

Symposium

Calgary Symposium – joint with IEEE

29th July -31 July 2009 - Integration of Wide-Scale Renewable Resources into the Power Delivery System.

Preferential Subjects for 2010 Paris Session

PS1: Planning and operation of Distribution networks incorporating Dispersed Energy Resources (DER) and Renewable Energy Sources (RES)

- Performance characteristics of distribution networks with high penetration of DER/RES, Operating experiences.
- Effect of large scale integration on reliability.
- Provision of ancillary services by DER/RES.
- Regulatory schemes to support DER/RES.

PS2: Demand Side Integration

- Load characteristics of appliances.
- Practical experiences of demand side integration through pricing.
- Impact of electrical vehicles connection to the Grid (challenges and opportunities).

PS3: New concepts and technologies for the electrification of rural and remote areas

- Microgrids.
- Advanced grid based concepts and renewables.
- Development of rural electrification projects including financial and commercial issues.
- Practical experiences, including upgrading the local system and/or connection to the grid.