



Study Committee C6 “Distribution Systems and Dispersed Generation”

Activity Report

1. Highlights

New chairmanship continues with 'next decade' C6 strategy that was agreed by SC in 2006

IEEE Power Engineering Society/CIGRÉ joint symposium on the “Integration of wide-scale renewable resources into the power delivery system” will be held in Calgary, Canada, on July 29-31, 2009

New working group and advisory group about rural electrification. 6 working groups are expected to finalize their work this year.

2. Working group changes since the last TC meeting :

a. New

- WG C6.16 "Technologies employed in rural electrification", convened by Trevor Gaunt, South Africa, 2008 - 2010
- Advisory Group on Rural Electrification

b. Disbanded

WG C6.13 "Rural electrification" has finished its job. A scoping report was prepared and circulated among the SC members. It will be published soon in *Electra*.

c. Resulting total number of WGs

- There are currently 8 active working bodies:
 - WG C6.04 "Connection and Protection Practices for Dispersed Generation" with TF C6.04.02 "Computational Tools and Techniques for Analysis, Design and Validation of Distributed Generation Systems"
 - WG C6.05 "Technical and Economic impact of DG on Transmission and Generation Systems"
 - WG C6.08 "Integration of large share of fluctuating generation"
 - WG C6.09 "Demand side response"
 - WG C6.10 "Technical and commercial standardisation of DER/microgrids components"
 - WG C6.11 "Development and operation of active distribution networks"
 - WG C6.15 "Electric Energy Storage Systems"
 - WG C6.16 "Technologies employed in rural electrification"
- There are currently 2 joint working groups:
 - JWG C3.05 / C6.14 “Environmental Impact of Distributed generation”
 - JWG C1/C2/C6.18 "Coping with limits for very high penetrations of renewable energy"



3. Publications

a. Publications since the last TC meeting (April 2008)

none

b. Publication plan for the coming year

- *ELECTRA report* "Active Distribution Networks: general features, present status of implementation and operation practices – Update of CIGRE C6.11 Working Group Activities", *by April 2009*
- *ELECTRA report* "The challenge of rural electrification, CIGRÉ's strategy and organizational approach", A.N. Zomers (Netherlands), G. Dagbjartsson (Switzerland), On behalf of Study Committee C6, *by April 2009*
- *ELECTRA report* "Rural Electrification: a scoping report by G. Dagbjartsson (Switzerland), C.T.Gaunt (South Africa), A.N.Zomers (Netherlands) with contributions from members of Cigré Working Group C6-13 "Rural Electrification", *by April 2009*
- Technical brochure and summary for ELECTRA on results of TF C6.04.02, "Benchmark Modeling and Simulation for Analysis, Design, and Validation of Distributed Energy Systems", *by July 2009*
- Technical brochure and summary for ELECTRA on results of WG C6.05, "Technical and Economic impact of DG on Transmission and Generation Systems", *by December 2009*
- Technical brochure and summary for ELECTRA on results of WG C6.09, "Demand Side Response", *by December 2009*

4. Strategic Plan and Action Plan : status

Both, Strategic Plan (2007 - 2016) and Action Plan (2007-2008) are still valid.

5. Planned SC meetings (in 2008 and next)

- 2008, August 27, Paris, CIGRE general session
- 2009, July 28, Calgary, IEEE/CIGRE symposium
- 2010, August, Paris, CIGRE general session

6. Participation to Regional Meetings, colloquia and symposia :

a. In 2008

b. In 2009 and beyond 2009



7. Relations with other organisations

The SC C6 chairman is strongly involved in European smart grids technology platform.

Close connections to CIRED and IEEE exist due to activities of SC C6 members and were demonstrated in 2008 Paris meeting.

8. Specific actions for the recruitment of young experts

Young experts are especially invited to participate in WGs.

9. SC website : on-line contents and date of last update

SC website contains all current information, last update on March, 24

10. Miscellaneous