



Study Committee C6
Distribution Systems and Dispersed Generation

Action plan for the period
2003-2005
(updated March 2004)

Introduction

Since the start up (Paris, August 2002) the new SC C6 is undertaking those actions that will permit to pursue and achieve the targets identified in the Strategic Plan, i.e.:

- identification of strategies and definition of future activities,
- organisation of the working forces,
- promote the name of the SC within and out of CIGRE by participating to CIGRE events and establishing links with other bodies active in the field of interest of the SC.

SC strategies and future activities

The discussion on the subject was started (but not completed) during the first SC meeting. It was continued by the organisation, in conjunction with the 2003 SC meeting, of a workshop on “**Strategies of DG concept application**” aimed to identify future activities of the SC in assessing impact (and requirements) on structure and operation of the power system of a widespread adoption of Dispersed Generation. The main conclusions of the workshop are summarised in a report to be published on the April issue of ELECTRA and available on the SC website.

SC working forces

Integration of WGs existing before August 2002

WG C6.01 (ex WG 37.33), “Development of dispersed generation technologies and consequences for the power systems” (Conv. M. Yagi, Japan)

The final report, focused on the present status of DG and the expected trend by 2010, was completed by the end 2003 and approved by the SC. A summary was prepared and forwarded to the CIGRE Central Office for possible publication on ELECTRA. The WG was disbanded.

WG C6.02 (ex WG 37/34), “Connection of generators and customers” (Conv. W. Kling, Netherlands)

The WG is proceeding with the already agreed working program. The activity is focused on the analysis of the existing grid codes for transmission and on the investigation if rules for DG are already considered. The final report is expected for the Paris meeting of the SC; a report could be presented at the 2005 CIGRE Symposium to be held in Greece.

!5 members are participating, coming from 12 countries.

New WGs, TFs, Ags

WG C6.03, “Operating DG with ICT (Information & Communication Technology)” (Conv. S. Odagiri, Japan)

Formally approved by CIGRE TC on Dec. 2002. 8 member were nominated coming from 4 countries. The WG held the kick-off meeting in Montreal on Oct. 2003. The expected duration of the WG could be extended to 2005.

WG C6.04, “Connection and Protection Practices for Dispersed Generation” (Conv. N. Hatziargyriou, Greece)

TF C6.04.01 “Connection Criteria at the Distribution Network for Distributed Generation” (Conv. N. Hatziargyriou, Greece)

TF C6.04.02 “Computational Tools and Techniques for Analysis, Design and Validation of Distributed Generation Systems” (Conv. K. Strunz , USA)

WG and related TFs formally approved by CIGRE TC on Dec. 2002 . 20 members were nominated coming from 10 countries. The WG held the kick-off meeting in Montreal on Oct. 2003.

WG C6.05, “Technical and Economic Impact of DG on Transmission and Generation Systems” (Conv. G. Strbac, UK)

Formally approved by CIGRE TC on March 2003. 6 members were nominated coming from 6 countries. The WG held the kick-off meeting in Manchester on Jan. 2004.

WG C6.07, “Rural Electrification” (Conv. J. Bouckaert, Belgium)

Formally approved by CIGRE TC on April 2003. 13 members were nominated coming from 11 countries. The WG held the kick-off meeting in Brussels on March 2004.

AG C6.01, “Strategic Advisory Group” (Conv. A. Invernizzi; members: B. Dowd, M. Stubbe, B. M. Bucholz, N. Jenkins)

Formally approved by CIGRE TC on Dec. 2002. The AG is aimed to assist the SC Chairman to perform the mission and to pursue the assigned scope. Last meeting in Nuremberg on Feb. 2004. The AG organised the Montreal workshop and prepared a report on the relevant conclusions to be published on the April issue of ELECTRA.

New proposals

The proposal for a WG on benefits of storage utilisation (WG C6.06) will be revised and discussed again during the next SC meeting in Paris.

The preparation of the proposal of two new WGs dealing with the integration of fluctuating generation and with DSM is in progress.

SC meetings

The 2003 SC meeting was held in Montreal, Oct. 6 and 7, under the invitation of the Canadian Committee.

In 2004 the SC will meet in Paris on Sept. 2.

In 2005 the SC will meet in South Africa, under the invitation of the South Africa Committee.

Participation to CIGRE events

The SC participated and supported the CIGRE/IEEE-PES Symposium on “Quality and security of electric power delivery systems”, Montreal Oct. 7-10, 2003.

In 2005 the SC will support the Greece Symposium on “Power systems with Dispersed Generation: Technologies, Impacts on Development, Operation and Performances”

In 2005 the SC will participate to the “CIGRE Southern African Regional Conference”organised at the same time of the SC meeting

Participation to non CIGRE events and links with other organisations

The Chairman is collaborating with SG and TC Chairman in maintaining contact with EURELECTRIC, CIRED, EUREL POWER and IEA. The USA member is charged to assure the adequate link with IEEE Committees and WGs active on topics of interest of the SC.

The Chairman and other members are involved in a number of international projects (mostly EC funded);

Publications

WG C6.01 completed the final report by the end of the year 2003. The report is available on the SC website. A summary, titled “**Development of dispersed generation and consequences for power systems**” was prepared by the end of Feb. 2004 and sent to the Central office for publication on ELECTRA.

A paper prepared by the Strategic AG, titled “**Distribution systems and dispersed generation: a new focus for CIGRE**”, will be published on the April issue of ELECTRA.