



## 2012 Activity Report

### Study Committee C5

#### 1. Highlights

- a) Market disturbance workshop in Paris August 2012
- b) Contribution to the opening session Paris 2012
- c) The more focused pref. subjects for Paris 2012 gave good discussions and an appropriate number of prepared contributions
- d) Progress on reports, several TB completed and WG solved
- e) Several new WGs under development

#### 2. Working group changes since the last TC meeting :

##### a. New WG

Scope of work is developed and will be submitted to TC for comments and approval:

- i. C5.xx: Costs of Electric Service, Cost Allocation Methods, and Residential Rate Trends (Proposed convenor: Angela Chuang))
- ii. C5.xx: Risk Management in Evolving Regulatory Frameworks (Proposed convenor: Adrien Ford)
- iii. C5.xx: Capacity markets: needs, solutions and state of affairs (Proposed convenor: Gerard Doorman)
- iv. C5.xx: Regulatory Incentives for Innovation in Electricity Networks (Proposed convenor: Konstantin Petrov)

##### b. WG Disbanded

- i. WG C5-7: Market design - Structure and design of electricity markets
- ii. WG C5-9: Retail Market Competition – Customer Switching, Metering and Load profiles, Work completed, disbanded after publication of report
- iii. WG C5-10: Establishment of Effective and Sustainable Regulatory Incentives for Capital Investments in Electricity Networks and Generation, Work completed, disbanded after publication of report

##### c. Allocation of WG to the 4 TC Strategic Directions and the 10 Technical Issues of the Network of the Future

WG	Title of the Working Group	Date of approval	Strategic Directions	Power System of the Future Technical Issue
C5-9	Retail Market Competition – Customer Switching, Metering and Load profiles	2009	1	2, 5
C5-10	Establishment of Effective and Sustainable Regulatory Incentives for Capital Investments in Electricity Networks and Generation	2008	1, 2, 3	7
C5-11	Market design for large scale integration of renewable energy sources and demand side management	2009	1, 3	7
C2/C5-05	Development and Changes in the Business of System Operators	2000	1, 2	5
C5-12	Generator Market Power Mitigation Measures in Electricity Markets	2012	1	5
C5-13	Interaction of Markets and Regulation Actions with Emerging Technologies	2012	1	5



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### 3. Publications

- a. Publications since the last TC meeting (March 2012)
  - i. WG C2/C5-05: Interaction between principles of transfer capacity calculation and market activity for enhanced system utilization – from a system operation perspective (Technical Brochure 2012)
  - ii. WG C5-10 Establishment of Effective and Sustainable Regulatory Incentives for Capital Investments in Electricity Networks and Generation (Completed, Technical brochure submitted to CO for publication)
- b. Publication plan for the coming year
  - i. WG C5-7: Energy Market Coordination – Balancing Electricity Markets with Gas Markets ( Technical Brochure 2012)
  - ii. WG C5-11: Market design for large scale integration of intermittent renewable energy sources (Technical Brochure early 2013)
  - iii. WG C5-09 Retail Market Competition – Customer Switching, Metering and Load profiles (Report completed – formatting it to TB)
  - iv. JWG C2/C5-05: Interfaces and co-operation between System Operators and Power Exchanges”. (Technical Brochure 2013)
  - v. C5-13: Interaction of Markets and Regulation Actions with Emerging Technologies; Report on new technology survey - end of 2013

### 4. Tutorials and workshops in 2012

- a) Market disturbance workshop in Paris August 2012. About 40 attended but improved announcement and better profiling in the program are needed for future workshops in Paris.

### 5. Strategic Plan and Action Plan : status (to be reviewed, updated, re-written or still valid)

- a) Strategic plan (2009 – 2018) updated (made more focused)
- b) Action plan (2009 – 2013) updated
- c) Both plans are under review at C5 meetings, The Strategic Advisory group is asked to further develop the strategic plan.

### 6. Planned SC meetings (in 2013 and next)

- a) October 2013: C5 annual meeting in Cape Town along with South Africa Symposium
- b) August 2014: General meeting in Paris, France
- c) 2015 locations: Invited to Sweden and India. No decision made

### 7. Participation to Regional Meetings, colloquia and symposia :



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- a. In 2012 (passed)
  - i. Paris 2012
- b. In 2013 and beyond (scheduled)
  - i. Lisbon, April 2013
  - ii. South Africa regional meeting 2013

### **8. Liaisons and Relations with other organisations**

- a) Many of the C5 members are closely involved in other organizations as ENTSO-E, IEEE, UCTE, NERC, IEA and collect information from these
- b) Few of the members within C5 have so far come from the regulators despite the fact that Regulation is one of C5's major responsibilities.

### **9. Specific actions for the recruitment of young experts**

It is a topic at each SC meeting. Participants are reminded to try to recruit younger engineers. More than one member from each country can be accepted. Universities are asked to propose PhD-students within groups of CIGRE

### **10. SC website : on-line contents and date of last update**

- a) Updated regularly but more information should have been added. Still challenges to get to update process to work.
- b) Maintenance is being done by the C5 Secretary, the C5 Chairman and by others as needed
- c) Last update April 2013

### **11. Miscellaneous**

- a) Strong interest in:
  - i. Market incentives for renewable resources
  - ii. Interactions of different markets
  - iii. Regulatory effects on markets