



Preliminary Call for Papers



Smarts Grids: Next Generation Grids for New Energy Trends

International Symposium

Lisboa (Portugal) - End of April 2013

Organized by **CIGRÉ Technical Committee, in cooperation with CIRED**
Portuguese CIGRÉ National Committee
Study Committees C1, C2, C3, C4, C5, C6 and D2
With the participation of the EU

CONFERENCE VENUE

Lisbon (Portuguese: Lisboa) is the capital city and largest city of Portugal with a population of 3 million on an area of 370 sq mi), making it the 9th most populous urban area in the European Union. It is located in the western Iberian Peninsula on the Atlantic Ocean and the Tagus River and enjoys a Mediterranean climate.

It is one of the major economic centers on the continent, with a growing financial center and the largest/second largest container port on Europe's Atlantic coast.

Lisbon is the 25th most livable city in the world according to lifestyle magazines, which makes it the 7th -most-visited city in Southern Europe and 9th city in the world in terms of international conferences.



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BACKGROUND and SCOPE

Electricity networks have provided the vital links between producers and consumers with great success for many decades. The fundamental architecture of these networks has been developed to meet the needs of large, centralized, predominantly carbon-based generation technologies, located remotely from demand centers, but the energy challenges society is now facing are changing the electricity system landscape fundamentally. There is a pressing need to accelerate the development of low-carbon mainly decentralized technologies in order to address the global issues of energy security, climate change and economic growth. For that purpose, smart grids are particularly important as they enable several other low-carbon energy technologies - including variable renewable energy resources - demand response and electric vehicles.

New challenges need vision and understanding of the future, requiring new infrastructure, new business models, new regulations and improving supply security. This trend is interdisciplinary, integrating utilities, service providers and customers.

Smarts grids are providing a common vision to different stakeholders capturing benefits and supporting new business models based on strategies for a sustainable low carbon economy.

- Will power systems, namely transmission and distribution be automatically smart enough in the future? Or are there barriers to overcome and if yes, which?
- Concerning the role of new technologies, what is underway and what may be missing? How to encourage investment to stimulate innovation?
- How are grid operators and other stakeholders currently adjusting to the new requirements? Which main difficulties are they facing?
- Which main changes should be introduced in business models, regulations and incentives to have a quick deployment of smart grids in a near future?
- Which are the major uncertainties about consumer behaviour and how to get consumer engagement?

PARTICIPANTS

The Symposium is aimed at transmission, distribution and system operators, market operators, regulators, suppliers, traders, research laboratories and universities.

PROGRAMME

The Symposium will be held over 3 days:

- **Panel Sessions** with invited speakers will discuss the smart grids policies, incentives and regulation, as well as the new TSO and DSO roles in smart grids.

- **Discussion sessions** will follow during which authors will present their papers and will then participate in a general discussion.

- **Presentations of pilot projects** with real cases studies will give delegates the opportunity to listen to current experts of industry.

MAIN TOPICS

1. **System Development and Economics**
2. **System Operation and Control**
3. **System Environmental Performance**
4. **System Technical Performance**
5. **Electricity Markets and Regulation**
6. **Distribution Systems and Dispersed Generation**
7. **Information Systems and Telecommunications**

SUBMISSION OF SYNOPSES

Participants wishing to present papers are invited to submit their abstract in ENGLISH (500 words) to the Central Office of CIGRE before

30th June 2012

to:

sylvie.bourneuf@cigre.org

Each abstract must indicate the topic(s) that will be addressed. The name, title, company affiliation, e-mail and full address of the author(s) should also be given.

LANGUAGES

The papers must be written in English.

COMMITTEES

TECHNICAL COMMITTEE

Chaired by Mark Waldron

Phil Southwell	SC C1
Joachim Vanzetta	SC C2
Francisco M. Parada	SC C3
Pouyan Pourbeik	SC C4
Olav Fosso	SC C5
Nikos Hatzargyriou	SC C6
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François Meslier	CIGRE Secretary General
Clara Maria José	Portuguese NC Chairman
Joao Saraiva Torres	CEO of EDP distribution
Ribeiro Oscar	Portuguese NC Secretary
Aires Messias	Portuguese NC
Markus Zdrallek	CIREC
Pierre Nicolas	EU

LOCAL ORGANIZING COMMITTEE

Chaired by Joao Baptista

PUBLICATION OF PAPERS

The papers will be available for uploading from the Cigre Website before the Symposium for all registered participants.

The Papers will also be available for purchase on electronic format from the CIGRE Central Office, after the Symposium.

A Report on the Symposium will be drafted after the Symposium. It will be published in ELECTRA and posted on the CIGRE website.

REGISTRATIONS

The General program of the Symposium will be issued in November 2012, with all the relevant information: technical program, registrations, accommodation...

Further information on the Symposium can be found on www.cigre.org.

DEADLINES

Authors are kindly requested to take note of the following deadlines:

Receipt of abstracts:	30th June 2012
Notification of acceptance:	30th September 2012
Receipt of full papers:	15th January 2013