

*The World Forum for
Power Systems*

Philippe ADAM, CIGRE Secretary General

Conference CIGRE Türkiye – Istanbul – 16th November 2015



WHAT IS CIGRE?

2

Conseil **I**nternational des **G**rands **R**éseaux **É**lectriques
(International Council On Large Electric Systems)

- Founded in Paris in 1921 as a **worldwide non-profit** association.
- CIGRE addresses **issues** related to the development, operation and management of electric power systems as well as design, construction, maintenance and disposal of equipment and plants.

Conference CIGRE Türkiye – Istanbul – 16th November 2015



3

MISSION

- ❑ CIGRE aims to promote and organize collaboration with experts from all around the world, by sharing knowledge and joining forces to improve the electric power systems of today and tomorrow.

Conference CIGRE Türkiye – İstanbul – 16th November 2015




4

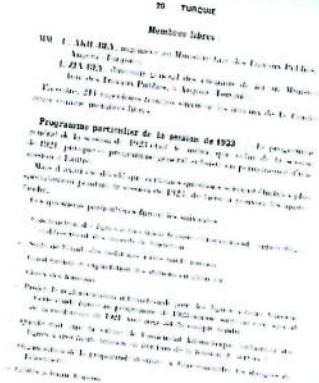

A worldwide association




Conference CIGRE Türkiye – İstanbul – 16th November 2015

 Turkey was represented at the 2nd conference in 1923

5



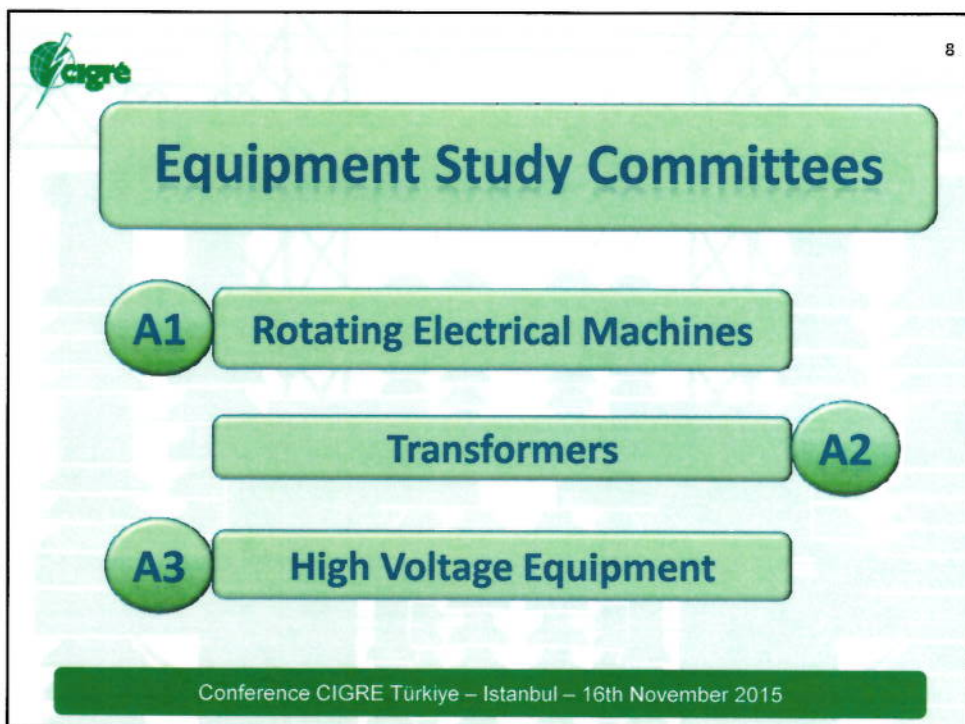
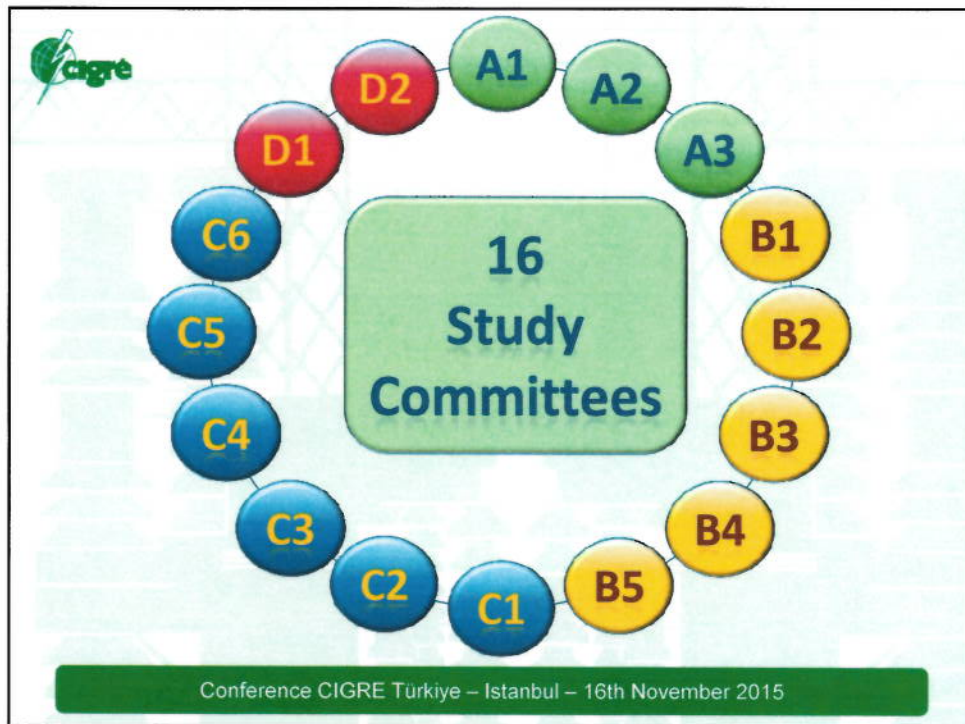
Conference CIGRE Türkiye – İstanbul – 16th November 2015


 **KEY ASSETS OF CIGRE**

6

- Study Committees
- Working Groups
- Events

Conference CIGRE Türkiye – İstanbul – 16th November 2015





9

Sub-system Study Committees

- B1** Insulated Cables
- Overhead Lines **B2**
- B3** Substations
- HVDC & Power Electronics **B4**
- B5** Protection & Automation

Conference CIGRE Türkiye – İstanbul – 16th November 2015




10

System Study Committees

- C1** System Development & Economics
- System Operation & Control **C2**
- C3** System Environmental Performance
- System Technical Performance **C4**
- C5** Electricity Markets & Regulation
- Distribution Systems & Dispersed Generation **C6**

Conference CIGRE Türkiye – İstanbul – 16th November 2015


 11

Transverse Study Committees

D1 Materials & Emerging Test Techniques

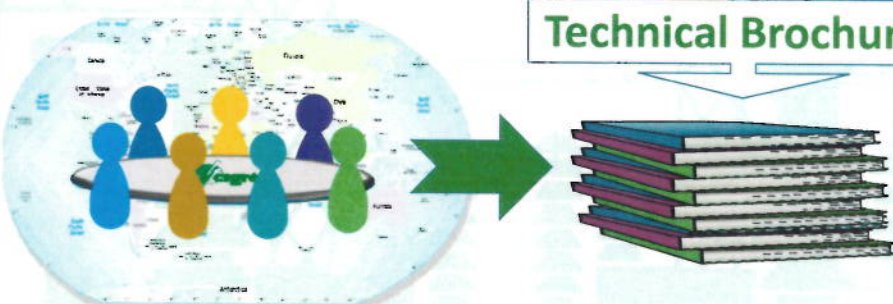
Information Systems & Telecommunications **D2**

Conference CIGRE Türkiye – İstanbul – 16th November 2015

 12


WORKING GROUPS

Technical Brochures




250 Working Groups produce between 40 and 50 Technical Brochures per year.

Conference CIGRE Türkiye – İstanbul – 16th November 2015

 **CIGRE events** 13


- **Paris Sessions**
 - ... 2009
 - 2010**
 - 2011
 - 2012**
 - 2013
 - 2014**
- **Symposia**
 - ... 2011
 - 2012
 - 2013**
 - 2014
 - 2015**
 - 2014
- **Colloquia & Regional events**

Conference CIGRE Türkiye – İstanbul – 16th November 2015

 **CIGRE Central Office** 14


- The Central Office in Paris manages the Association in terms of:
 - membership,
 - event organization,
 - edition & publication of documents,
 - communication.
- In permanent contact with the National Committees.


Conference CIGRE Türkiye – İstanbul – 16th November 2015

 **CIGRE recent innovations & projects** 15

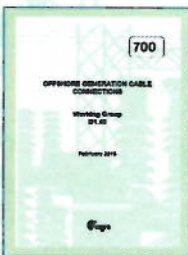
- CIGRE Green Books (2014)
- A new journal : CIGRE Science & Engineering (2015)
- A new category of member : student members (2015)
- Free access to the CIGRE library for publications of more than 3 years (2015)
- Create new National Committees in Africa
- Improve the CIGRE Information System (2014 – 2016)

Conference CIGRE Türkiye – İstanbul – 16th November 2015

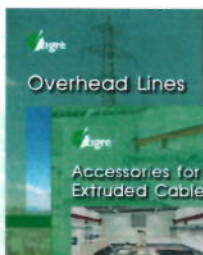
 **CIGRE publications** 16




ELECTRA




700
OFFSHORE GENERATION CABLE CONNECTIONS
Working Group D1.10
February 2014




Overhead Lines




Cigre Science & Engineering
Innovation in the Power Systems Industry




Accessories for HV Extruded Cables




CIGRE Newsletter January 2015



2014



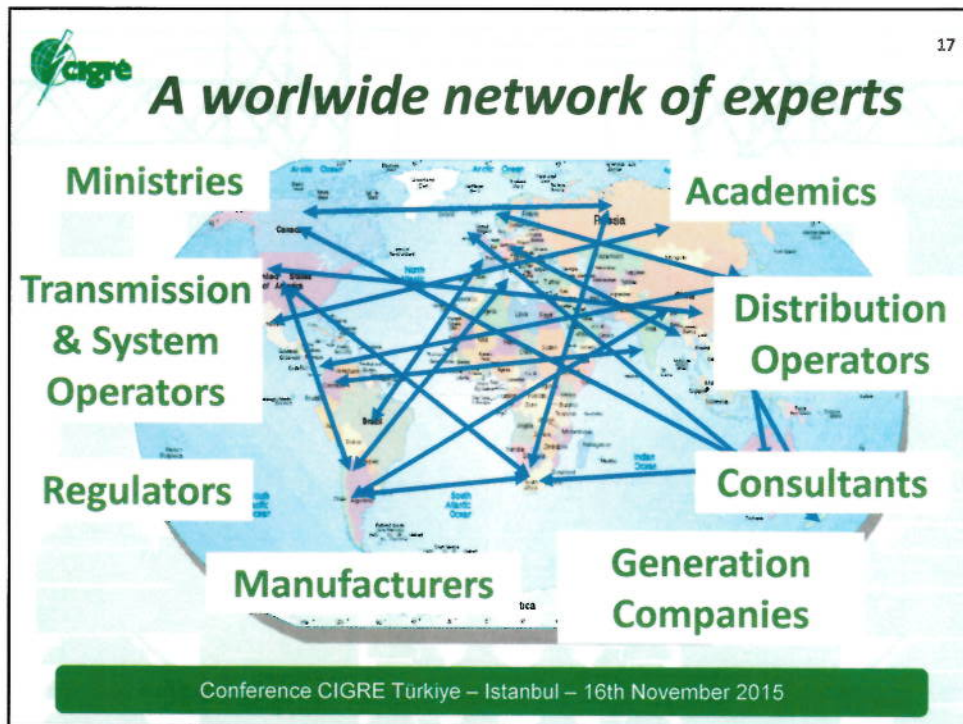
44
44th Session
SEP to 31st August 2010




The History of CIGRE

Conference CIGRE Türkiye – İstanbul – 16th November 2015


The forum for electrical innovations



 **Power supply: the CIGRE vision
(a global issue)** 18


- Our world is facing a global challenge to provide a **sufficient and reliable supply** of energy to the inhabitants of the Planet.
- On one hand the need for energy is increasing, and on the other hand the energy resources should be **sustainable** and their **environmental** footprint, essentially the CO₂ emissions, should be as low as possible.
- Moreover the energy supply should be available for all people at **affordable** prices.

Conference CIGRE Türkiye – İstanbul – 16th November 2015

 **The role of CIGRE
in the Electric Power Industry** 19


- To provide strategic directions
- To share its vision of the network of the future
- To organize the works:
 - to disseminate the knowledge
 - to share good practices
 - to prepare standardization


Conference CIGRE Türkiye – Istanbul – 16th November 2015

 **CIGRE's Strategic Directions** 20

Future power system	Best use of existing systems
Environment and sustainability	Unbiased information for all stakeholders

Conference CIGRE Türkiye – Istanbul – 16th November 2015

 **The 2010 CIGRE vision of the network of the future** 21



10 Technical Issues

Conference CIGRE Türkiye – İstanbul – 16th November 2015

 22

İlginiz için teşekkür ederiz.

www.cigre.org

Conference CIGRE Türkiye – İstanbul – 16th November 2015