



International News

Terry Krieg, Chairman of SC B3

19 November 2015

ANC – ATC Meeting, Sydney

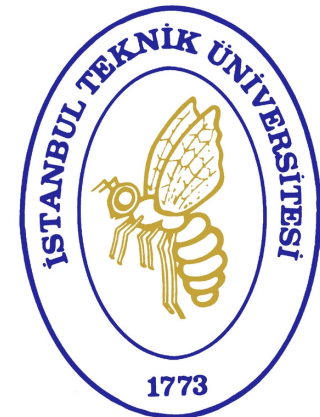
Overview

- Istanbul, Turkey
- Turkish Power sector background
- New SC Chairpersons
- Paris 2016 Information
- WG Analysis
- TC Projects
- Future Events
- Final Comments



Istanbul 16-19 November 2015

- Invitation from Turkey NC to host TC in 2015
- Turkey is the newest National Committee in CIGRE, and TC are keen to encourage them
- Turkey actually attended the second CIGRE gathering in 1923!
- Program for the event:
 - Monday – Conference on the “**Future of Power Systems and Electromechanical Industry Role**” attended by 80 industry and utilities
 - Tuesday – TC Meeting day1
 - Wednesday – TC Meeting day 2
 - Thursday – Technical Tour to Testing centre and Substation
- Venue: Istanbul Technical University, Maslak



Turkey Energy Sector

- TEIS: 54,000km Tx line, 97 400kV substations
- Energy growth in Turkey 5.5% sustained over last 10 years, summer peak due to air-conditioning load
- 72,000MW installed capacity presently. Wind now 614MW rising to 1200MW planned. Target is 20,000MW by 20123.
- 70% of power industry is privately owned
- Nuclear 0% now but first PS (Russian) in 2017, more on the way (France and Japan).
- Some controversy in the industry (and the conference) re Nuclear!
- Generally considered that the best option for Turkey is nuclear plus renewables, reducing coal and gas.

SC Chairs 2016 - 2018 (8 new)

- A1 Nikolaas SMIT (ZA)
- A2 **Simon RYDER (UK)**
- A3 Hiroki ITO (JP)
- B1 **Marco MARELLI (IT)**
- B2 **Herbert LUGSCHITZ (AT)**
- B3 Terry KRIEG (AU)
- B4 Mohamed RASHWAN (CA)
- B5 Iony PATRIOTA de SIQUEIRA (BR)
- C1 Konstantin STASCHUS (DE)
- C2 **Susana de GRAAF Ms (NL)**
- C3 **Henk SANDERS (NL)** – now started
- C4 **Zia EMIN (UK)**
- C5 Andrew OTT (US)
- C6 Britta BUCHHOLZ Ms (DE)
- D1 **Ralf PIETSCH (DE)**
- D2 **Philippe QUENAUDON (FR)**

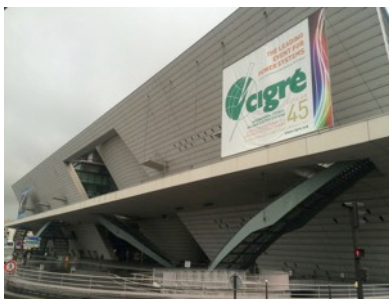
Paris Session 46 - Overall Plan

	Monday		Tuesday		Wednesday		Thursday		Friday	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
Contributors' meeting	B5, D1, C3,C1		B2, A1, B4, C2, B3		B1, A3, C5		C6, A2, D2, C4			
Discussion Group Meeting (Session)			B5, D1, C3,C1		B2, A1, B4, C2		B3, B1, A3, C5		C6, A2, D2, C4	
Poster Session		B5, D1	C4, C6	B3, C5	C3,C1	A2, D2	B2, A1	B4, C2	A3, B1	
SC Meeting					D1, B3					

- Opening panel working title *"Distributed generation impact on the bulk connected network – a global perspective"*
- Contributors meeting 1/2 day not full day (recommended)
- New Tutorial Day – 3 or 4 selected tutorials
- Agreed a proposal from UK to include NGN presentation in discussion meeting for each SC. But needs to align with pref subjects.

Paris Session 46 - Abstracts

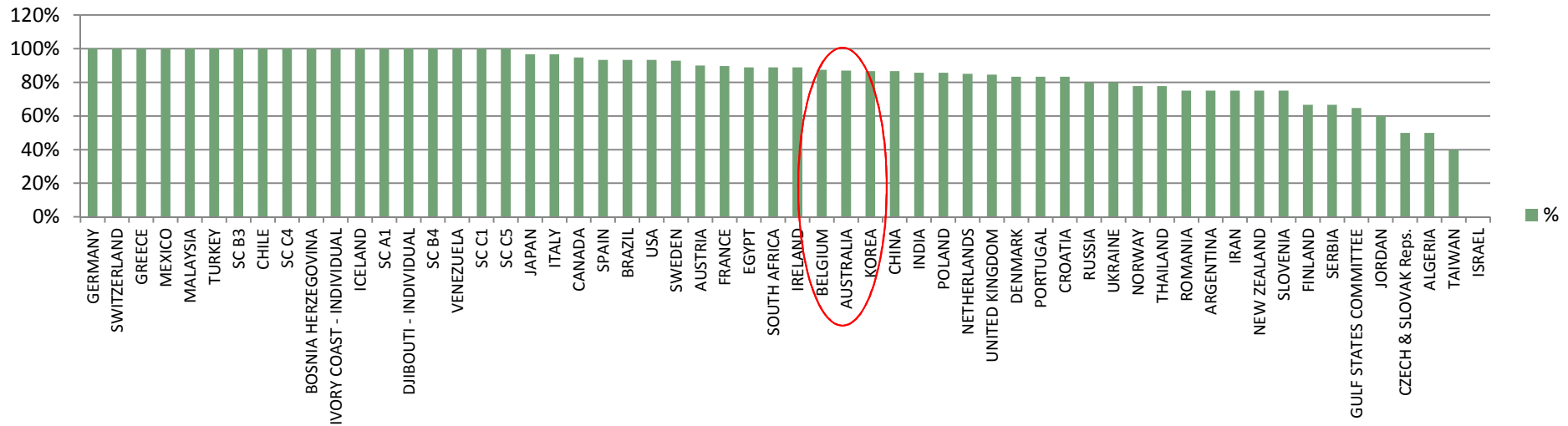
- Record number of papers - 639 Abstracts received, 560 accepted (464 in 2014)
 - National: 240 out of 256
 - Additional: 228 out of 279
 - International: 83 out of 95
 - Study Committee: 9 out of 9
- Challenges for Special Reporters
- Contributions to address questions (not papers)



SC	No	Yes
A1	1	22
A2	7	38
A3	3	29
B1		40
B2	23	40
B3	5	42
B4	9	46
B5		36
C1	1	38
C2	22	38
C3		20
C4	4	38
C5	4	32
C6		39
D1		32
D2		30
Total	79	560

Paris Session 46 - Abstracts by country

% of accepted papers

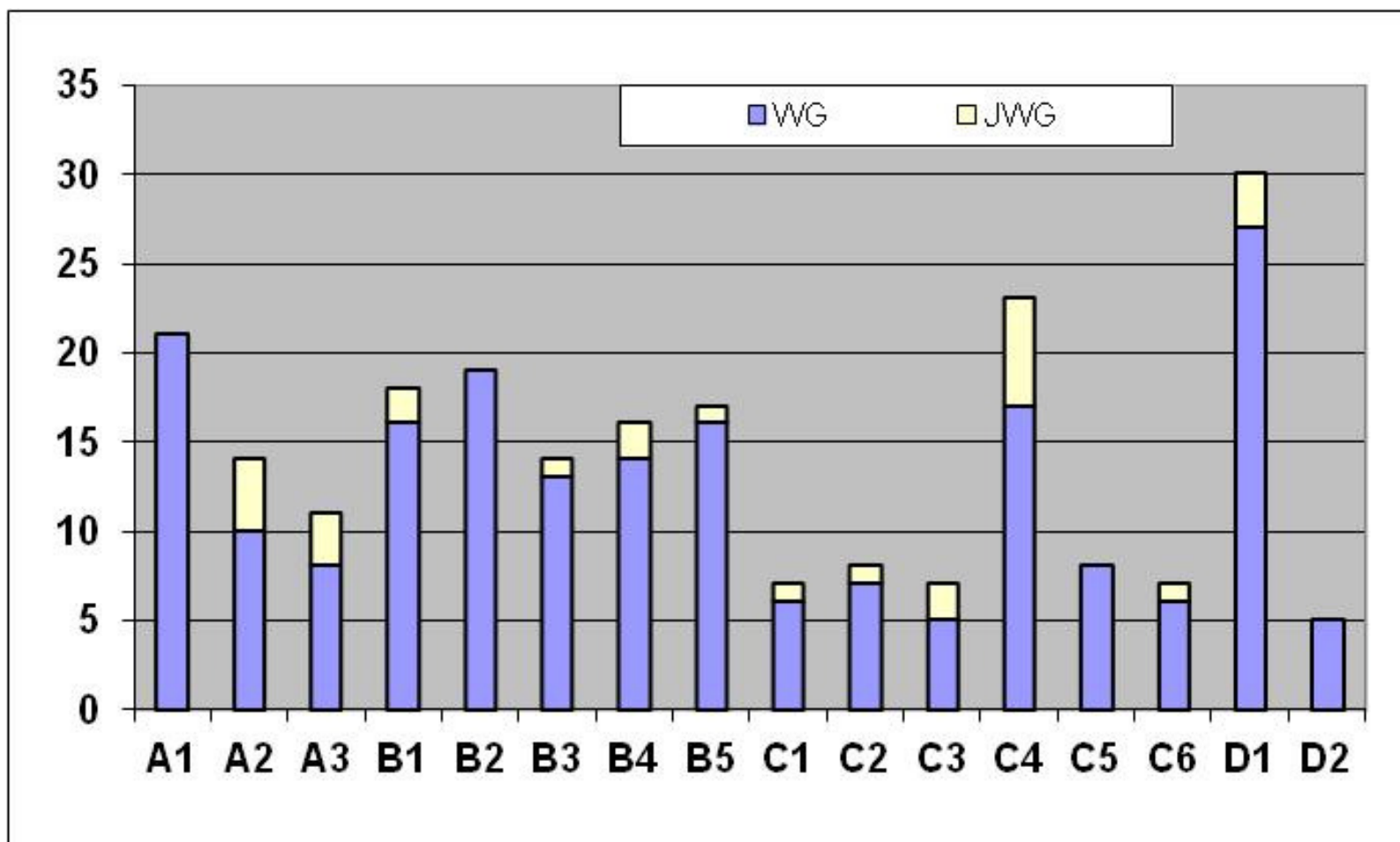


Paris Session 46 - Abstracts by country

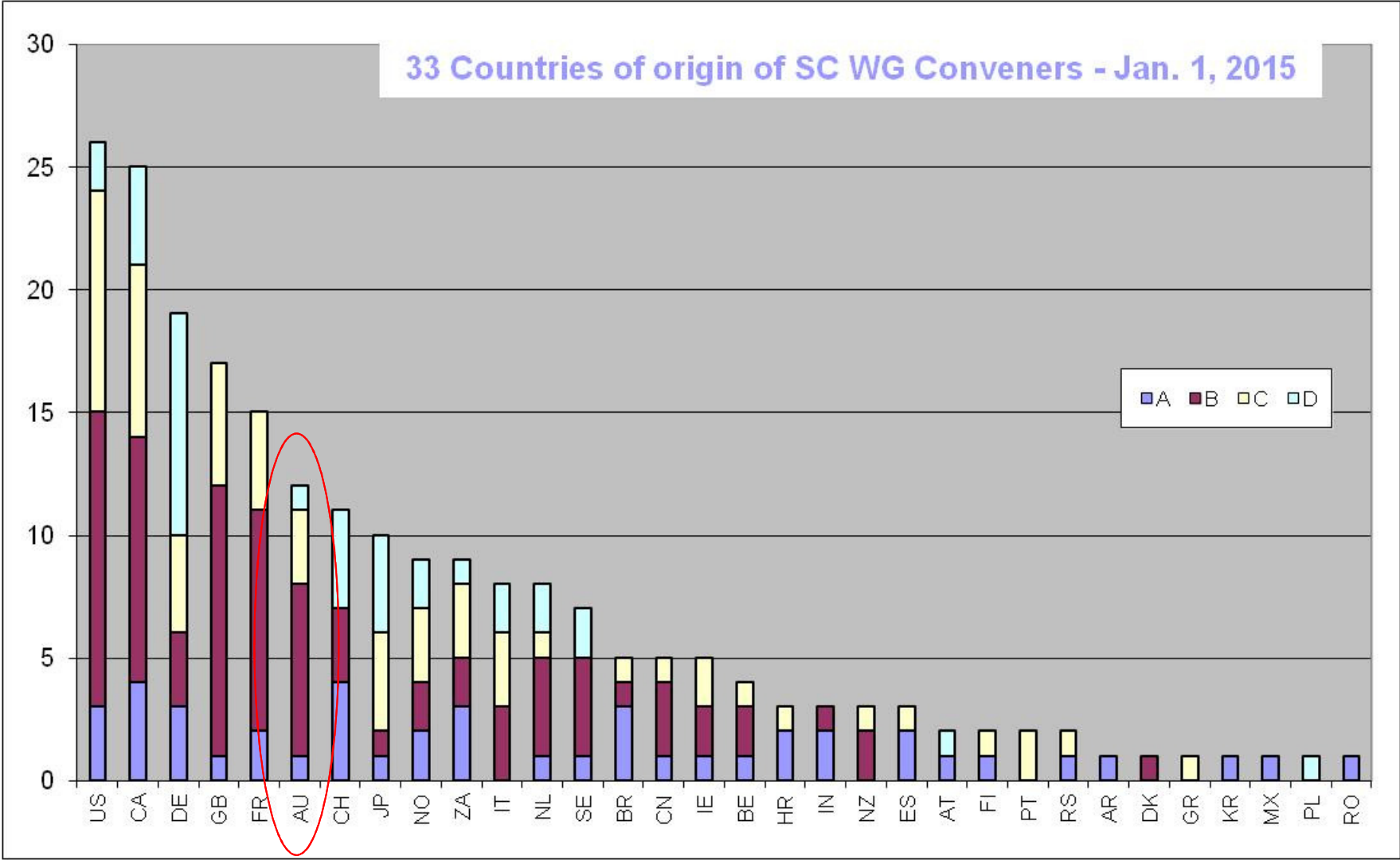
Étiquettes de lignes	A1	A2	A3	B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	C6	D1	D2
GERMANY	2	5	2	2	2	2	3	1	1	4		1		3	2	
JAPAN	2	1	2	3	2	2	2	1	1	1	1	2	2	2	3	2
ITALY			3	2	3	2	1		2	1	2	4	2	4	1	2
BRAZIL	3	2	1	2	2	1	3	1	1	2	1	2	3	1	2	1
SPAIN	2	2	3	3	2	2	1	2	1		1	2		2	2	3
USA		2	2	1	2	3	2	2	3	2		3	1	2		3
CHINA	1	1	2	2	2	2	1	2	3	1	1	1	1	2	2	2
FRANCE	1	2	2	1	1	3	2	2	1	1	1	2	2	1	3	1
KOREA	1	5	4	2	1	1	3	1		1		1	1	2	2	1
UNITED KINGDOM	1	2		1	1		3	2	2	1	2	1	2	2	1	1
AUSTRALIA		2		2	1	1			3	2	1	1	1	3	2	1
INDIA	1	1	1	1	1	3	2		2		1		1	1	1	2
SWITZERLAND	1	3	1		2	4		2		1				1	3	
CANADA	2	1	1	1	3		5	1	1					2		1
NETHERLANDS	1	1	3	2	1	1	1	1		3		1	1			1
RUSSIA		3	1		1	1	1	3	1	2			1	1	1	
NORWAY				4	5	1	2			2						
SWEDEN				1			3		1	2		1	1		3	1
GULF STATES COMMITTEE			1	2	1		1	2	3						1	
AUSTRIA		1		1	1	1	1				1	1		2		
IRELAND						1	1		1	2		2	1			

Working Groups 2015

- 225 working groups



Working Groups 2015 - Convenors



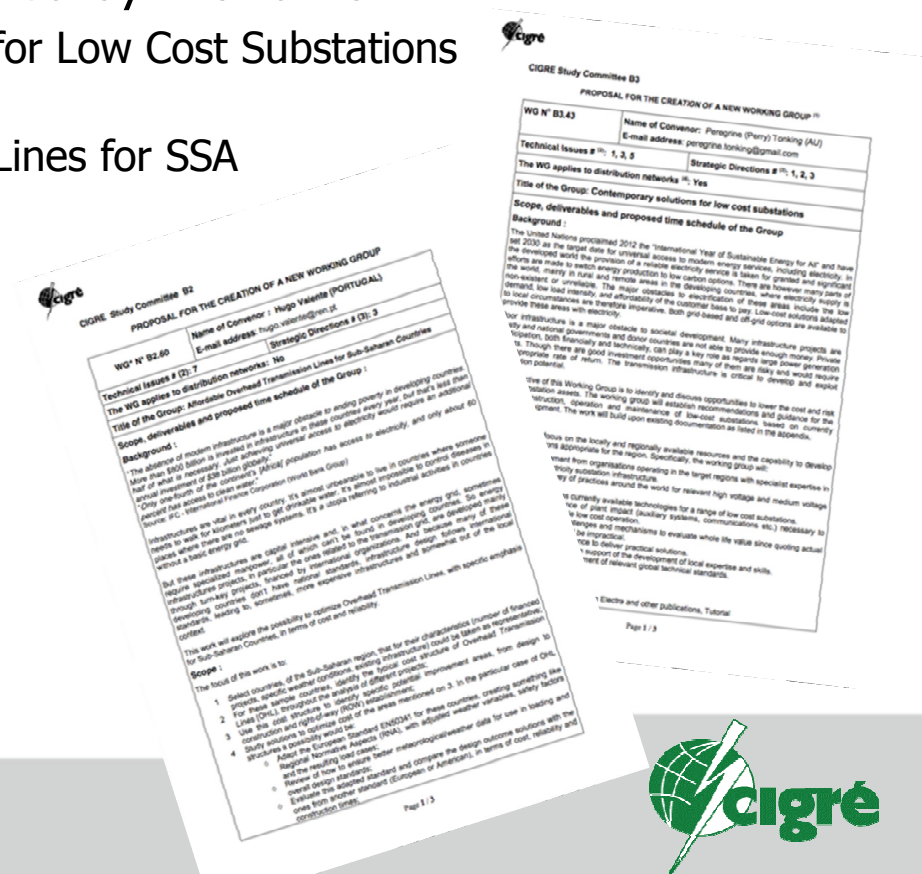
Other

- TC project – New Sustainability Project planned:
 - Sharing ideas from each SC
 - Framework to be produced
 - Guidelines and Best practice
- Green Books:
 - **2014:** B1, B2, **2016:** B1, B3, **2018:** A3, B3 (2nd), B5, C6, Possible: D2, C1, C3
- Some selected CIGRE involved events:
 - **2016 CIGRE & IEC Colloquium on EHV & UHV (AC&DC)**
 - Montreal, Canada, 9-11 May 2016
 - **2016 ELECRAMA**
 - Bangalore, India, 13-17 Feb 2016, BENGALURU, INDIA
 - Largest event held in T&D worldwide
 - **2017 Dublin Symposium**
 - 29 May – 2 Jun 2017
 - **2019 Aalborg, Denmark Symposium (possible)**
 - 3-6 June 2019
 - Offshore windfarm integration (B1, B2, B4, C1, C2, C4)



New Directions

- Aim to address issues with lack of access to electricity
 - > 1.1 Billion with no access to electricity worldwide
 - Focus on Sub-Saharan Africa (912 M with no access)
- Two new Working Groups supported by World Bank:
 - **WG B3.43** – Contemporary Solutions for Low Cost Substations
 - Perry Tonking (AU) Convenor
 - **WG B2.60** – Affordable Overhead TX Lines for SSA
 - Vivendra Naidoo (SA) Convenor



Final Words

- Study Committee B3 is working well.
- I appreciate my involvement in AP B3.
- Thanks for ANC support of my role as Chairman of SC B3

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