



# Call for papers



## CIGRE ASIA-OCEANIA REGIONAL COUNCIL (AORC) TECHNICAL MEETING 2017

Auckland, New Zealand, 11-13, September 2017

### “Secure and Efficient Delivery of Energy: Enabled by World Forum for Power Systems”

CIGRE AORC technical meeting 2017 brings together experts and key players from power system industry across Asia Oceanic region to address the current challenges in delivering secure and efficient energy. This unique platform will facilitate the power system engineers/consultants, generation transmission and distribution owners, system operators, policy makers, regulators and academics across Asia oceanic region to share and discuss the current practices and future directions in the secure and efficient delivery of energy.

### PROGRAM

CIGRE AORC technical meeting 2017 will be held over 3 days - 11, 12 and 13<sup>th</sup> of September. It is key part of the CIGRE Auckland 2017 event, which is a confluence of 3 major co-located CIGRE events- **CIGRE B5 Colloquium, CIGRE 2017 Administrative Council meeting and CIGRE 2017 AORC Administrative and Technical meeting** thus bringing the experts and leadership from global power system industry at one location here down-under.

Trade exhibition, CIGRE Women in Engineering (WIE), CIGRE New Generation Network (NGN) forum, local industry visits, networking social events are all planned to enrich delegates’ experience. The tentative schedule of the coordinated program are as shown below:

Coordinated CIGRE Program for SC B5 and AORC										
	Sunday 10 Sep	Monday 11 Sep	Tuesday 12 Sep	Wednesday 13 Sep	Thursday 14 Sep	Friday 15 Sep	Saturday 16 Sep			
	AORC SCB5	AORC SCB5	AORC SCB5	AORC SCB5	AORC SCB5	AORC SCB5	AORC SCB5			
AM		WG	OS TG TAG WG	OS Poster	SAG SR WG Poster	NGN WIE Forum Tour	Tutorial	PS2	SC	Tour
PM	Optional City Tour					PS1	PS3			
Evening		AORC BANQUET		Joint Cocktail	Joint CIGRE Banquet	SC Revenge Dinner	SC Dinner			

NGN: Next Generation Network  
 OS: Oral Sessions  
 PS: Colloquium Preferential Subject  
 SAG: Strategic Advisory Group meeting  
 SC: Study Committee Annual meeting  
 SR: Submission and discussion of prepared contributions to the Colloquium  
 TAG: Tutorial Advisory Group meeting  
 TG: Thematic Group meetings  
 WG: Working Group meetings  
 WIE: Women in Engineering

**Note: Registered CIGRE B5 delegates will be allowed to all technical sessions of CIGRE AORC without extra charge and vice-versa**

### CONFERENCE WEBSITE

[cigreaukland2017.org.nz](http://cigreaukland2017.org.nz)

### VENUE

**Business Facilities,  
University of Auckland, New Zealand**

Auckland, with 1.4 million people is New Zealand’s largest city. It has been ranked third best in quality of living (The 2011 Mercer Quality of Living Survey), 9<sup>th</sup> Most Livable City (The economist 2011) and in 2010, it was classified as a Beta World City (World Cities Study Group’s inventory by Loughborough University).

The AORC technical meeting will take place at the Business Conference Centre, University of Auckland which is New Zealand’s only university ranked amongst the world’s top 100 universities by the Times Higher Education World Rankings of Universities.





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### TOPICS OF SPECIAL INTEREST

Papers are invited on all topics that align with the theme of the technical meeting – “Secure and efficient delivery of energy”. Some examples as below:

#### ***Protection, Automation and Control (B5)***

- Protection issues in modern power systems with renewable generation and storage.
- Design of smart PAC system with IEC 61850 as backbone.
- Challenges of interfacing IEC61850 network with SCADA/RTU system
- Multifunctional Protection IEDs and their applications in transforming transmission and distribution systems.

#### ***HV Equipment and Substation (A3 & B3)***

- New approaches to condition monitoring in new and existing T&D assets in severe environmental and operating condition
- Incorporation of intelligence into HV equipment (e.g. new technologies relevant to IEC 61850, Non conventional instrument transformer(NCIT), Controlled switching,).
- Management of ageing HV substation equipment

#### ***Materials and Emerging Test techniques (D1)***

- Emerging testing and diagnostic techniques for UHV applications , Offshore and subsea applications (high pressure, corrosion).
- Advances in partial discharge detection using conventional (IEC 60270) and unconventional methods
- Properties and potential applications of new materials.

#### ***Information systems and Telecommunications(D2)***

- Modeling tools for cyber threats and cybersecurity measures
- Software platforms for control of distributed energy resources
- Modern telecommunication networks for protection and control in EPI
- Cloud computing and IoT technologies for data interchange between electric market participants.

#### ***Distribution System and Dispersed Generation (C6)***

- Modelling and analysis of active distribution networks with high share of distributed energy resources and flexible loads (e.g., electric vehicles, decentralized energy storage systems)
- Interoperability and standardization-related topics for Smart Grids
- Decentralised solutions for generation and network to deliver to isolated rural areas

***Any other SC with papers aligned with the theme***

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### KEY DATES

**Abstract submission deadline :**  
**1<sup>st</sup> June , 2017**

**Notification of Acceptance :**  
**1<sup>st</sup> July, 2017**

**Deadline for submission of final paper:**  
**20<sup>th</sup> July, 2017**

### COMMITTEES

#### **Local Organizing Committee**

**Dr. Nirmal Nair**  
(NZ SCB5, AORC Rep, NZNC Secretary)

**Rebecca Stewart**  
(NZNC Chairman)

#### **Review Committee Chair**

**Doug Ray**  
(Vector Limited, NZNC Executive Member,  
AORC TM 2017 Technical Chair)

#### ***CIGRE NZ Interest Group 4 (IG4)***

SC A3 (HV Equipment)  
SC B3 (Substations)  
SC B5 (Protection & Automation)  
SC D1 (Materials & Emerging Test Techniques)  
SC D2 (Information Systems &  
Telecommunications)





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### PAPER SUBMISSION FORMAT

Authors should submit a **one-page abstract** via email to [cigreaorc2017@gmail.com](mailto:cigreaorc2017@gmail.com). The submitted abstracts will go through a peer review process. Upon abstract acceptance, a 6 to 8 page paper in CIGRÉ format must be submitted for the final contribution.

Accepted final contributions will be included in the conference proceedings and papers will be published in the online CIGRÉ library ([www.e-cigre.org](http://www.e-cigre.org)), provided the contributions are fully registered by at least one author and presented in person at the conference. Presentation formats of these selected papers will be either through oral session or poster.

### REGISTRATION

All the relevant information of the CIGRE AORC technical meeting, tutorial, WIE program, NGN forum and registration, will be made available through [cigreauckland2017.org.nz](http://cigreauckland2017.org.nz)

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