

# Corona Times

27th SEPT. 2021  
EDITION 26



empowering  
networking  
globalknow-how

**CORONA:** "a luminous, audible discharge brought on by the ionization of a fluid such as air surrounding a conductor that is electrically charged".



A MONTHLY NEWS-SHEET TO PROVIDE INFORMATION AND UPDATES TO CIGRE MEMBERS

## TECH TALK

A series of links to CIGRE Technical documents



### AFTER LAYING TESTS ON AC AND DC CABLE SYSTEMS WITH NEW TECHNOLOGIES - TB 841

WG B1.38 produced a Technical Brochure that describes material science aspects of cable testing using NPF, VLF and DAC voltage sources and contains detailed discussions with respect of their application for withstand and PD testing of HV & EHV cable systems. Resulting document include guidance and recommendations for commissioning and maintenance testing, based on technical aspects, practicality, established experience and residual risk for cable system under test.



### TSO-DSO CO-OPERATION CONTROL CENTRE TOOLS REQUIREMENTS - TB 845

This Technical Brochure is the result of work undertaken by CIGRE Working Group C2.40. It discusses the operational challenges being faced by the TSO and DSO today and what they are expected to be in the future with high and increasing levels of inverter-based generation.

The brochure introduces the challenges in chapters one and two. Chapter three is dedicated to data and information exchange between TSO and DSO, which are essential for efficient co-operation, while Chapter four presents six tools which will help the TSO and DSO co-ordinate their operations and meet the challenges posed to their future operational relationships and interactions. Chapter five discusses several issues and challenges not directly addressed by the brochure and concludes.

## NGN NEWS

News from our Young Engineer Group (U 35yo)  
**CIGRE Paris Session 2022 NGN Showcase**

**NGN Submissions Now Open**

Applications are now open to NGN members for the 2022 Paris session. This is a great opportunity to present at an international forum. Successful applicants will receive free registration to the event. Applications will close on the 26th November 2021.

Please click on the link for further information:  
<https://ngn.org.au/cigre-ngn-paris-session-2022-showcase-timeline/>

## WEBINARS - FREE



### OFFSHORE GENERATION CABLE SYSTEMS - WBN034

In recent years the number and size of installed offshore wind farms have increased rapidly and more and larger farms are being planned. Other types of offshore generation are expected to come in the near future, such as tidal and wave energy generation.

Submarine cables are and will be an essential part of this development where they are used as array cables between the generators, as export cables to connect the offshore generation farms with the onshore transmission grid and even as part of interconnections between different synchronous systems, countries or price areas.

## TRANSATLANTIC AIR TRAVEL TIME CUT IN HALF 26 SEPTEMBER, 1973



On **26th September 1973**, Concorde makes its first non-stop crossing of the Atlantic in 3 hours and 32 minutes flying at an average speed of 954 mph cutting the current time by half.

Concorde began making commercial flights across the Atlantic between the US and Europe in 1979.



## 2021 ANNUAL GENERAL MEETING

**THURSDAY 30TH SEPTEMBER**  
**@ 11AM (AEST) by Webinar**

The CIGRE Australia AGM for 2021 will be held via a virtual meeting webcast. This is a member only event and details have been emailed directly to members and Collective member contacts.

You will need to register with your member number. You can find your member number on your invoice or your organisations CIGRE contact person, electronic member card or by contacting our office **(07) 3310 8838**.

[CLICK to REGISTER](#)

### Australian Technical panel presentations:

These can now be found on our [YouTube](#) channel and summarise the work being carried out in each of our 16 Technical fields of work.

**e-cigre:** The go to site for all CIGRE documentations and Technical Brochures.

Through e-cigre you can search the vast technical database of 14,000 + items, order Green books or view a range of Webinars search for past Electra editions.

<https://www.cigre.org/>

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Did You Know?  
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#### Social Media:

CIGRE Australia has several social media channels where we post updates and items of interest.

**Follow us to keep up-to-date:**

- [LinkedIn](#)
- [Twitter](#)
- [YouTube](#)

## WEBINAR

### **INTRODUCTION TO LCC HVDC TRANSMISSION**

Presented by **Michael Dalzell of Transpower**

The CIGRE Australia NGN is pleased to offer our October webinar on LCC HVDC transmission! The detailed event flyer with presenter bio and presentation synopsis is [available here](#).

The presentation, which will be run by Michael Dalzell, will explain some of the basics of HVDC transmission with a focus on the classical line commutated converter (LCC) technology.

#### REGISTER YOUR INTEREST

**When:** 13th October, 2021

**Time:** 14:00 - 15:30 AEDT (Mel/Syd)

**Where:** Online Webinar (GoToMeeting)

We are now using Eventbrite to manage our event registrations. Once registered, you will receive an automated “**Order Confirmation Ticket**”. Please scroll down to the end of that email for details on how to join the event.

#### Presentation Synopsis

This webinar will cover the basics of HVDC transmission with a focus on the classical Line Commutated Converter (LCC) technology utilising thyristor valves. Most under construction HVDC projects are now utilising the newer Voltage Source Converter (VSC) technology, however LCC is prevalent in existing systems and still utilised for high power applications in new projects.

## COLLECTIVE MEMBERS PROFILE



**THE UNIVERSITY OF QUEENSLAND**  
AUSTRALIA

[The University of Queensland \(UQ\)](#) is a recognised provider of power engineering education, training and research for more than sixty years and extensively collaborates with the Australian electricity supply industry.

UQ offers specialised courses/programs in power engineering both in undergraduate and postgraduate levels including research higher degrees. Current research foci of UQ power engineering is in renewable energy integration to grid and condition monitoring of ageing electrical asset.

UQ students in power engineering area are trained with state-of-the-art research and training facilities in [renewable energy laboratory, Industry 4.0 UQ Energy TestLab](#) and in the [Australasian Transformer Innovation Centre](#).

UQ has been a collective member of CIGRE Australia since 1973.