

Corona Times

25th MARCH 2021
EDITION 20



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

MAINTENANCE OF HV CABLE SYSTEMS - TB825

Maintenance of high voltage cables and accessories ensure the availability of a cable system during service. Generally, cable systems have an expected lifetime of several decades depending on various factors such as age, insulation type, voltage, and operating history. To ensure the cable system is utilized in a safe and expected manner, maintenance of the system is required. This can be achieved through inspection, testing, diagnostics and/or monitoring of the cable system.

HYBRID SYSTEMS FOR OFF-GRID POWER SUPPLY - TB826

Hybrid systems are a combination of various generators, such as conventional generation and renewable energy (RE), and often incorporate energy storage. In off-grid areas, hybrid systems are a promising step in decarbonization. Small amounts of renewables can be added to existing diesel or gas gensets systems without any additional control or network stabilization technologies.

The Technical Brochure shares experiences on techno-economic pre-feasibility studies. Further, the study shows the necessity of stability studies and shares examples for hybrid systems for off-grid power supply.

NGN CORNER

News from our Young Engineer Group (U 35yo)

Last week the NGN launched their new website, dedicated to NGN activities and news.

This has been a significant project and the result of the work of many of our young engineers, in particular Madeline Binet of AEMO who has oversighted and co-ordinated the project as well as building much of the content .

The website can be accessed directly ngn.org.au or through the link on the main CIGRE Australia website. Suggestions for content and news are welcome ngn@cigreaustralia.org.au

DC-DC CONVERTERS IN HVDC GRIDS AND FOR CONNECTIONS TO HVDC SYSTEMS - TB827

Technical Brochure 827 presents a comprehensive evaluation of feasibility of DC-DC converters for applications within DC transmission grids. It elaborates on motivations and applications of DC-DC converters, and describes design, modelling, control and performance in normal DC grid operation and under DC faults. Two HVDC DC-DC converter test systems of 600 MW rating have been developed by the working group on PSCAD platform and are used throughout the brochure for illustrating conclusions by the way of simulation.

WEBINAR - FREE

IMPLEMENTATION OF LONG AC HV AND EHV CABLE SYSTEMS - WBN028

The TB 680 covers most aspects of the implementation of long AC cable lengths both ground and submarine cables. Details of fault location, installation by trenchless technologies is however found in dedicated Technical brochures (TB 773 & 770). Current rating is also found in dedicated TB's.

The following topics can be found in TB 680;

- Current state of development
- Challenges for Implementation
- System Design
- Installation
- Monitoring
- Maintenance

In addition the TB includes experiences from many projects.

KIWI'S TAKE THE AULD MUG !!



Four years after defeating USA in Bermuda, Team New Zealand have retained the America's Cup, smashing Luna Rossa from Italy in race 10 to win the Auld Mug in front of a packed crowd in Auckland. It's the fourth time Team NZ have claimed the Mug, as they became the second nation outside of the USA to win back to back America's Cups.



Member SNAPSHOT

Distinguished Members

Australia has had several members recognised with the CIGRE global distinguished member award.

The “Distinguished Member” title is granted to a select number of long-standing members who have contributed to the Association through participation in technical work or within the National Committees.

In the February edition, we published short profiles of the other two recipients - Alex Baitch & Ken Ash.

1996	N.R. White, William P. Price, F. Brady
1998	Dr. David Allan, Ralph Craven, Ken Barber
2000	Dr. Ronald James
2002	Bryce Corderoy, Dr. Vincent Morgan
2004	Philip Dulhunty
2018	Hans Mayer
2020	Alex Baitch, Ken Ash, Rod Hughes, Simon Bartlett



Rod has been a long term member and contributor to CIGRE since 1985, both in Australia and globally. He has contributed to many WG and Paris papers and in Australia was the B5 Mirror Panel Convener from 2004 to 2012. In that role he was instrumental in conceptualising and creating the first three SEAPAC B5 conferences, which continue today as our primary biennial technical conference. Rod also introduced the KMS system to Australia and ran it for several years prior to it being adopted by CIGRE globally. Rod continues to contribute to the local technical space and SEAPAC



Simon Bartlett (OAM) has been involved in CIGRE and the Electricity industry for many years. His CIGRE involvement has been as an employee of Collective members Powerlink and later Uni of Queensland. In his time, he has been involved in a plethora of technical committees and WG. His first CIGRE meeting was the general meeting in 1976 where he represented the State Electricity commission of Queensland. He has been convener of WG 23.04, SC 23 SAG and TAG member, member TF B4.18. Simon was the Australian Convener of AP 23(later B3) has received an award of Merit from CIGRE Australia in 2000 and a CIGRE Technical committee award in 2003. He has also recently completed his term as a long term Australian CIGRE Board member. Simon was also instrumental in establishing the Australian NGN and has helped with its development over the last 6 years. He continues to be involved and particularly encourage the involvement of our young engineers

Australian Technical panel presentations:

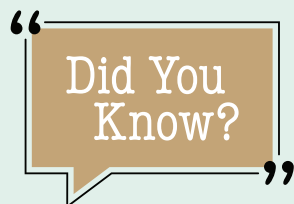
These can now be found on our [YouTube](#) channel and summarise the work being carried out in each of our 16 Technical fields of work.

e-cigre: The go to site for all CIGRE documentation 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 and search for past Electra editions.

<https://e-cigre.org/>

Paris 2021 Registration and Programme is now Available. [CLICK HERE for More Information.](#)



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](#)

COLLECTIVE MEMBERS PROFILE



OMICRON



OMICRON serves the electrical power industry with innovative testing and diagnostic solutions that increase efficiency by maximizing safety for operators, assets and surrounding environment. Providing the lowest possible shutdown times for testing as well as fast preparation, execution, reporting and reliable results with automatic assessments and easy data management. Our working life revolves around energy-through energy, dedication and the creative minds of our team we are able to provide you with products, solutions and excellent local support that allow your electrical power system to run smoothly, safely and efficiently.

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This Member summary is provided as general information and is not an endorsement of the members services or products.