

# Corona Times

30th SEPTEMBER 2022  
EDITION 35



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

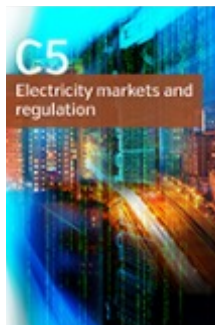
## TECH TALK

A series of links to CIGRE Technical documents



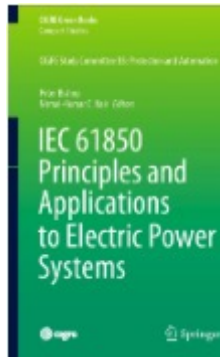
### ENERGY PRICE FORMATION IN WHOLESALE ELECTRICITY MARKETS - TB877

Seventeen countries or regions responded to the survey created by the Working Group. This paper describes the backgrounds of each of the respondents' countries or regions, a high-level overview of the market designs as it pertains to price formation, a description of how prices are calculated in each area and then a brief listing of factors that may influence future changes in price formation methodologies in each area.



### IEC 61850 PRINCIPLES AND APPLICATIONS TO ELECTRIC POWER SYSTEMS - GB13

This book offers a compact guide to IEC61850 systems, including wide-area implementation, as it has been applied to real substations worldwide. It utilises technical brochures and papers based on existing practice of IEC61850 systems that give stakeholders from different disciplines an understanding of systems in use, their features, how they are applied and approach for implementation.



### CIGRE SCIENCE & ENGINEERING - CSE025

- Harmonic Emission Assessment of Solar Farms: a Comparative Study Using EMT and Frequency Domain Models
- Generalized Approach to Analytical Circuit Breaker Transient Recovery Voltage Calculation
- Frequency and Voltage Stability Towards 100% Renewables in Suðuroy, Faroe Islands
- Ground modelling for the design of electrical grounding systems - The determination of the geoelectric model depth
- A Method for Managing Setting Values of Voltage Control in IEC 61850-based Distribution Automation Systems
- Benchmarking of sealing systems of line composite insulators: ideas for innovative test methods



## Queensland is building the world's largest pumped hydro system. How does the technology work?

Queensland is committed to pumped hydro technology.

It's the centrepiece of the state's new renewables target, coming in the form of two new pumped hydro facilities, one of which will be the largest of its kind worldwide.

The announcement was made by Queensland Premier Anastacia Palaszczuk in her State of the State speech on Wednesday in which she outlined the 10-year energy plan.

Department of Energy and Public Works  
Pumped Hydro in Queensland



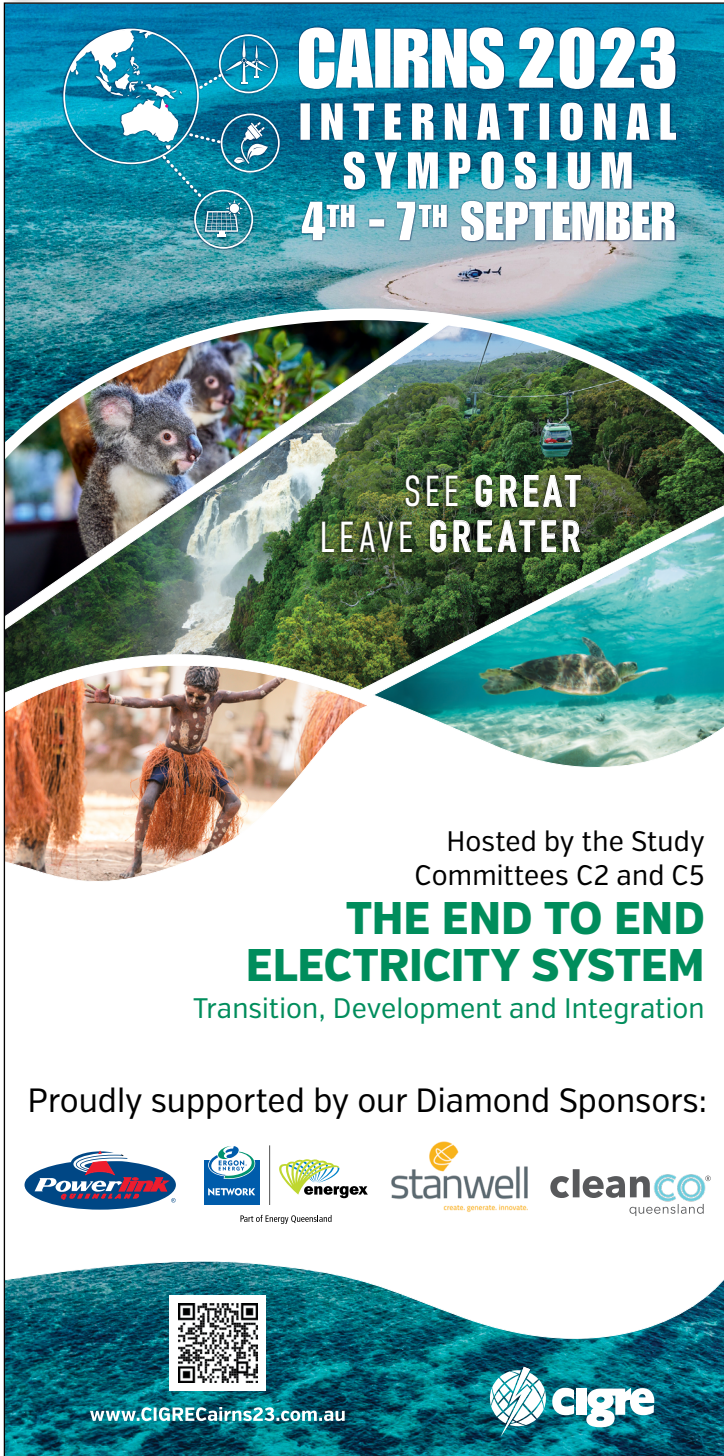
## NGN NEWS

### News from our Young Engineer Group (U 35yo)



Several of our NGN group enjoyed attending the Paris Session at the end of August. The Session had over 280 exhibitors and over 3700 delegates from around the globe and provided our NGN some great opportunities to learn and meet new like minded professionals. Next months edition will cover the Session in detail,





# CAIRNS 2023 INTERNATIONAL SYMPOSIUM 4TH - 7TH SEPTEMBER


SEE GREAT  
LEAVE GREATER

Hosted by the Study  
Committees C2 and C5


## THE END TO END ELECTRICITY SYSTEM

Transition, Development and Integration

Proudly supported by our Diamond Sponsors:



[www.CIGRE Cairns23.com.au](https://www.CIGRE Cairns23.com.au)



# EECON2022

Our Energy Future - *Unlocking Net Zero*

OCT 11-12 | BRISBANE  
Royal International Convention Centre  
go to [www.eecon2022.com.au](http://www.eecon2022.com.au)



EECON 2022 - organised by the Electric Energy Society of Australia (EESA) will be held at the Royal International Convention Centre, Brisbane on the 11th & 12th of October 2022 with the theme "Our Energy Future – *Unlocking Net Zero*".

EECON2022 has a diverse range of informative and interesting speakers who will discuss the key areas of change being undertaken and the many challenges to be managed over the next 10 years. These challenges cover a range of areas such as DERs, Stand Alone Power Systems (SAPS), and retirement of coal fired generation.

EECON 2022 ( <https://www.eecon2022.com.au/> ) will give attendees a good understanding of these issues and the technical challenges involved in achieving Our Energy Future.

Web: <https://www.cigreaustralia.org.au/cigre-events/eecon-2022/>

## COLLECTIVE MEMBERS PROFILE



Energy Market Company

**Energy Market Company (EMC)** operates Singapore's wholesale electricity market - Asia's first liberalised electricity market. **The National Electricity Market of Singapore (NEMS)** opened for trading on 1 Jan. 2003.

EMC completes the connection between those who make electricity in Singapore and those who use it. All of Singapore's electricity is bought and sold through EMC. We provide the IT systems, the trading environment and the governance for the market.

Energy Market Company is also involved with all three areas of the governance process - rule-making, compliance and dispute resolution. We are committed to working with market participants to ensure a transparent, professional and cost-effective market.

For more information about EMC, please visit us at [www.emcsg.com](http://www.emcsg.com)

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

### 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/>