

SUBSTATIONS 2019

Renewables and digitisation driving future direction

Wrest Point, Hobart, Tasmania, Australia, 7 - 8 November 2019

THEME

Today, new global energy challenges are emerging that will impact future development of substations. The availability of new technologies and new equipment, together with the rapid increase in intermittent energy sources throughout the network adds complexity to the overall electric power system. The integration of new information technology, automation and power systems brings not only intelligence, but also challenges to the energy system.

To deal with those new challenges and achieve goals such as the UN Sustainable Development Goals for 2030, Paris Agreement and air pollution abatement, we need to reconsider and investigate the issue of energy development and provide effective systematic solutions for the upgrading of the power systems.

The aim of the CIGRE ANC Conference **Substations 2019** is to provide a forum for discussion of the impacts of these new challenges particularly on Substations and to evaluate research and operational experience related to sustainable, active and digital development of power systems including both transmission and distribution, and in particular, to address recent technical advances and policy developments that allow transmission and distribution networks and substations to enter their next era of development.

VENUE

The conference will be held in Wrest Point casino, in Hobart, Tasmania.

The southern-most and second oldest state capital,

Hobart is an historic port situated in a picturesque natural setting beside the deep Derwent River estuary and in the shadow of Mount Wellington (kunanyi).

Hobart airport has regular direct flights from Adelaide, Brisbane, Melbourne, Perth and Sydney and is serviced by each of the major domestic airlines.

For those who may wish to stay on after the conference Hobart is the perfect base from which to explore Southern Tasmania. This picturesque region has many interesting places to see, including charming Georgian era towns and villages, Australia's most intact and well known convict era remnants and some spectacular coastal scenery. Hobart is central to all of it, nothing being than a few hour's drive away.



PROGRAMME

The technical program sessions open with keynote addresses at **0900** on **7 November 2019**. Australian Panel members will meet for their annual meeting on 6 November 2019. Other CIGRE working groups will hold their meetings after or immediately before the conference.

PREFERENTIAL SUBJECTS

Presentations will be invited following submission of an abstract that addresses the preferential subjects. The preferential subjects for the symposium are:

1. Building substations for a sustainable green grid:

- Evolution of design, operations and maintenance skills with the connection of renewables to existing infrastructure
- Environmental, safety and fire protection changes with the connection of renewables to existing infrastructure
- Integration of renewables and storage technologies to existing substations –challenges and opportunities

2. Challenges and opportunities of substation digitalisation:

- Transition from traditional substation design to digitalised substation
- Substation digitalisation contribution to increased substation resilience
- Digital information storage platforms and usage

3. Managing ageing substation assets in an era of digital substations:

- Integration of new technologies (hardware and software) into existing substations
- Making economic and risk-based decisions supporting asset management
- Experience with life extension methods in substations

The participation of graduate, postgraduate research and Next Generation CIGRE members (NGN) is encouraged. Please indicate young authors where appropriate.

REGISTRATION

Registration will be opened on 1 July 2019. Together with preliminary programme information, abstract and presentation templates will be available: www.cigreaustralia.org.au/cigre-events/

SUBMISSION OF ABSTRACTS

Participants wishing to present and publish papers should submit abstracts by downloading the template & following instructions available on the CIGRE Australia B3 Event website. Please note authors with accepted abstracts should be available to present at the conference.

DEADLINES

Receipt of abstracts:..... 14 June 2019
Notification of acceptance:..... 30 June 2019
Conference registration opens: 1 July 2019
Receipt of full paper: 4 October 2019

FURTHER DETAILS

Further details and opportunities for sponsorship can be obtained by contacting:

- **Terry Killen** (+61 7 3310 8838)
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The conference represents an ideal and unique opportunity to consider the latest developments in substation design, operations, maintenance and management to meet global challenges.

See you in Hobart!

Crina Costan, Chair of CIGRE AP B3

