



Electricity Engineers'
Association

Professional Development Programme



REFER TO SHEET A11

Annual Power Engineering Exchange

APEX | 2022

TECHNOLOGY LED CHANGES

6TH OCTOBER 2022

8.30am to 6:00pm

CANTERBURY UNIVERSITY

JOHN BRITTEN ROOM



A black and white photograph of three people—two women and one man—smiling and looking towards the camera.



The next Annual Power Engineering Exchange [APEX] Summit is being held on 6th October 2022

APEX is a conference for **graduate engineers, of any discipline**, in the power engineering industry and a great opportunity to share experiences while learning from the presentations of others. Networking at events such as the APEX summit is an excellent way to start relationships and gain exposure to the industry.

APEX is now also a must-attend for students willing to meet and get useful advice from graduates, or simply to hear about some fantastic projects and understand the electricity industry.

THEME: TECHNOLOGY LED CHANGES

Technology is changing both the way we live and, our approach to solving engineering problems. According to American business publication 'Forbes', the five biggest trends disrupting engineering in 2020 were, digital twins, artificial intelligence, generative design, robotics and 3d printing.

The electricity supply industry is similarly changing at a rapid rate causing disruption to how assets are managed, maintained, designed, and constructed. In New Zealand, we are seeing aging assets requiring replacement, record numbers of solar installations, record numbers of electric vehicle registrations, and industries changing from carbon emitting technology to cleaner electrification.

In response to national and international decarbonisation targets, engineers are using technology to lead the changes that will make a real difference to New Zealand's electrical infrastructure and benefit customers. These technology changes are also improving our existing asset knowledge, new asset design, and integration of new generation or efficiency gains of our existing assets.

Engineers need to be innovative and adventurous in their design and approach, bringing new ideas and technology to deliver electricity more reliably than ever before in response to increasing customer demands.

At this year's APEX Summit, we are looking forward to listening to presenters demonstrating where technology is leading change in engineering solutions, and how technology has been applied or can be applied to solve engineering challenges.

CALL FOR PRESENTATIONS¹ AND PANEL DISCUSSION

We encourage you and your staff to offer presentations by submitting a 200-word (one paragraph) abstract on a topic applicable to the power engineering industry. The programme allows for up to 12 presentations. Each presentation is a 20-minute MS PowerPoint presentation (approximately 12 slides) plus up to 5 minutes for questions.

Disciplines to consider include:

Generation	Transmission	Distribution
New technologies	Asset Management	Skills and training
Protection	Communications	Health and Safety
Safety in Design	SCADA	Regulatory Compliance

Notes:

- The EEA is seeking presentations from graduate engineers with up to 5 years' experience in the electricity supply industry.
- The EEA reserves the right to limit the number of papers accepted per organisation to 2, should there be high demand for places.

Additional papers submitted will still be reviewed, and may be accepted should space allow. This is to encourage a diversity of speakers from across the industry.

ABSTRACT SUBMISSIONS—DEADLINE

To be submitted to admin@eea.co.nz by **Monday 22nd August 2022**.

- Abstract submission — word document
- Bio note (brief) — word document
- Photograph — .jpg format and passport size

Notification of acceptance will be **Friday 26th August 2022**.

ACCEPTED PRESENTATIONS

Presentation slides to be submitted to admin@eea.co.nz by **Monday 26th September 2022**.

- Presentation to be in MS PowerPoint—Advise the EEA if your presentation requires sound or a video on this date.

BEST PRESENTATION AWARD

The APEX 'Best Presentation Award' is jointly sponsored by the EEA and CIGRE New Zealand. The Award prizes are the opportunity to present your paper at the EEA Conference in 2022, a cash prize of \$250.00 plus a year's free membership with CIGRE.

The Award judging criteria relates to the content and quality of the:

- Summary/Abstract (25%)
- Presentation (60%)
- Discussion (15%)

Presenters will also be given feedback by the judges on their presentation skills. This feedback will aid presenters in refining their presentation skills early in their careers.

PEOPLE'S CHOICE AWARD

The 'People's Choice Award' will be decided by the audience at the end of the presentations. Voting papers will be available.

REGISTER TO ATTEND

Registration is free, but essential. To register for the summit go to our [Upcoming Events feed](#) on our homepage. For catering purposes, we require a registration for each delegate.

Registration includes:

- Morning and afternoon teas, lunch
- Attendance at the APEX Social Hour

Closing date for registrations is Friday 23rd September 2022

VENUE

Canterbury University, John Britten Room, 69 Creyke Road, Ilam,

SPONSORSHIP

Thank you to our sponsors for their support.

