

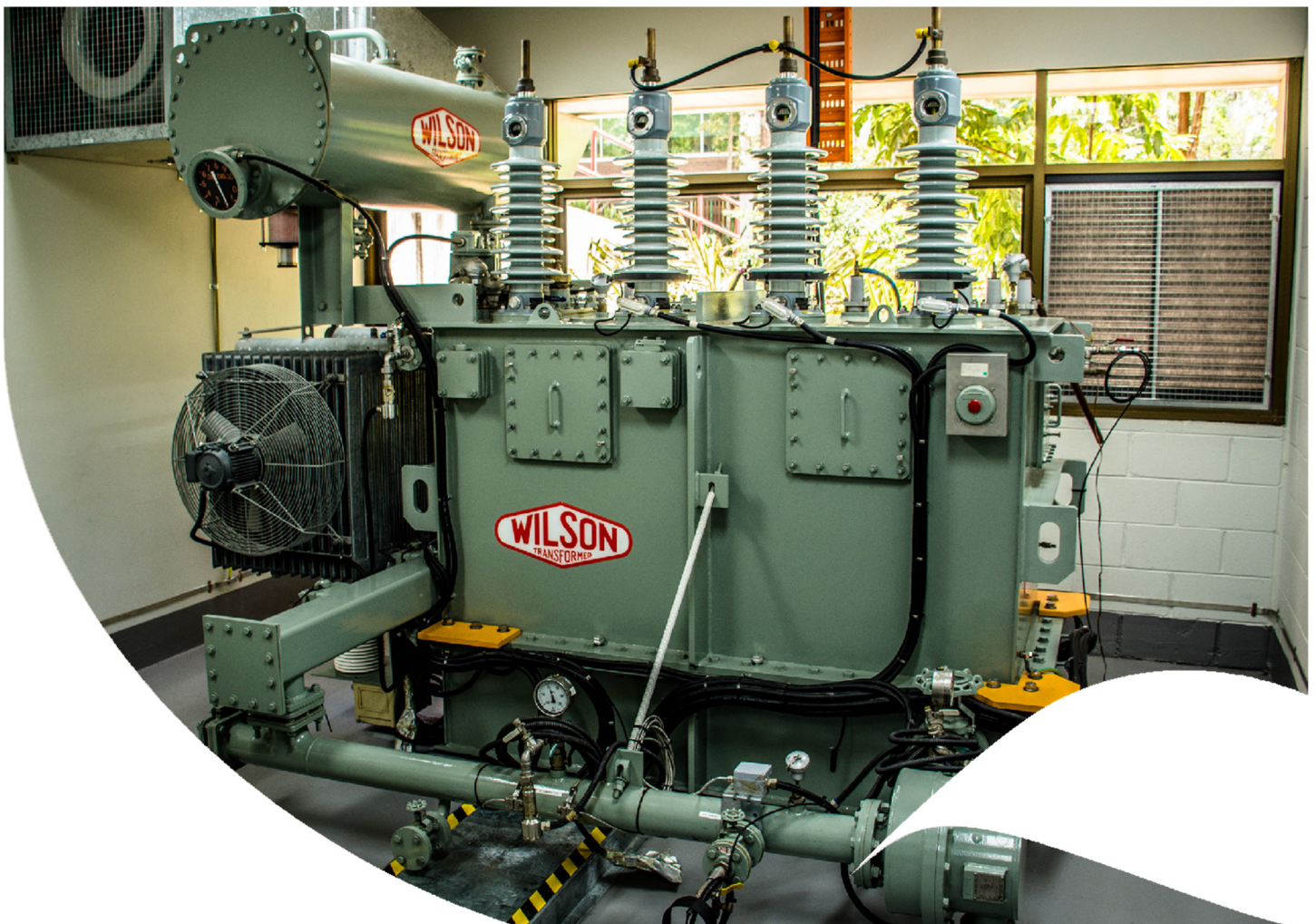
Impact of Renewables on Electrical Network Asset Performance

Technical Seminar, Thursday and Friday 12-13 November 2026

The University of Queensland's Australasian Transformer Innovation Centre (TIC) is pleased to announce a two-day face-to-face technical Seminar focusing on the Impact of Renewables on Electrical Network Asset Performance.

Renewable generation has been increasingly deployed in Australia and globally both at the distribution and transmission levels. Primarily, Solar PV and wind are the two dominant renewables in Australia, and they are intermittent,

variable, and uncertain. Battery storage has been installed at large scale to balance out the intermittency of renewables and help stabilise the grid. Since solar PV, wind generation and battery storage consists of considerable inverter/converter-based power electronics systems, these converters may cause power quality issues. Due to variability in generation, harmonics, reverse power flow and voltage variations, renewable generation's impacts on power system assets (e.g., transformers, circuit breakers etc.) could be significant.



This two-day technical seminar will bring industry professionals together for a face-to-face dialogue and sharing of knowledge to prepare for the future of asset condition assessment in a renewable dominated and aged power system.

Topics

The topics to be covered during the two days of this seminar are:

- Grid visibility, advanced demand response.
- Ageing status of assets and current trends of condition monitoring.
- Impact of harmonics on asset.
- Impact of renewables on aged assets.
- Maintenance programs in a new paradigm of renewables and large data centres.
- Changes to the operational landscape due to renewables and large data centres.

Presenters

The presenters in the sessions will be a mixture of industry professionals and academics that bringing a wealth of practical experience and information with them to these sessions.

Keynote speakers will provide a high-level overview of the issues faced by both Transmission and Distribution because of the paradigm shift created by the ever- increasing penetration of renewables in the network.

Who should attend?

- Procurement, Asset Strategists, maintenance managers and engineers.
- Generation, transmission and distribution personnel.
- Consultants, designers and operations staff in the renewables, manufacturing, mining, industrial and infrastructure organisations.

PROGRAM

Day 1 – Thursday 12 November 2026

8.30 -9.00	Arrival/Registration
9.00-9.45	Welcome: Professor Tapan Saha, UQ
9.45-11.00	Keynote address
11.00-11.30	Morning Tea and Coffee
11.30-12.45	Session 1: TBA
12.45-13.45	Lunch
13.45-15.00	Jason Gillett and Swapnil Kulkarni, Reinhausen. "Voltage Control in Distribution Networks Using ECOTAP"
15.00-15.30	Afternoon Tea and Coffee
15.30-16.45	Anuradha Abeysekara, UQ. "Transformer Thermal Modelling Under Harmonics"
16.45-17.00	Day close: Professor Tapan Saha, UQ.

Day 2 – Friday 13 November 2026

8.30-9.00	Arrival/Registration
9.00-10.00	Professor Stefan Tenbohlen, University of Stuttgart. "Modern Condition Assessment Techniques for Power Transformers Connected to Renewable Energy Source"
10.00-10.30	Morning tea
10.30-11.45	Mike Wishart, Ecojoule. "Modern and Cost-Effective Solutions to Low-Voltage Network Issues in High-Renewable Environments"
11.45-12.45	Lunch
12.45-14.00	Shijie Yao, Hui Ma and Chandima Ekanayake, UQ.
14.00-15.15	Bhaba Das, Dynamic Ratings.
15.15-15.30	Wrap-up and closing: Professor Tapan Saha, UQ

ENQUIRIES

For enquires please contact Prof Tapan Saha, TIC Director at saha@eecs.uq.edu.au or transformer@itee.uq.edu.au

For further course details, updates, and payment details can be found on the TIC CPD website: <http://eecs.uq.edu.au/event/3960/australasian-transformer-innovation-centre-webinar-and-cpd-courses>

PRICING

TIC Members

TIC Industry Platinum Members

- One Complimentary attendee (Conditions Apply). Please contact your organisations TIC representative.
- Platinum Members additional attendees: \$1300 + GST pp.
- Five or more participants \$800 + GST pp.

Non-TIC Members

- \$2000 + GST pp.

REGISTRATION

Registration and payment can be done via UQ Payments website via the following link, bookings available from 29/9/2026: [https://payments.uq.edu.au/UQPCET104/booking?UDS_ACTION=\\$I&UDS_ACTION_DATA=FixWAUJEL3FOWVskRUJDcihSQnQ-WOYbWEVFLXE3VEILMI0n](https://payments.uq.edu.au/UQPCET104/booking?UDS_ACTION=$I&UDS_ACTION_DATA=FixWAUJEL3FOWVskRUJDcihSQnQ-WOYbWEVFLXE3VEILMI0n)

VENUE

Axon Building (Building Number 47),
47-104 Computer Lab,
The University of Queensland,
St Lucia Campus.

A link to venue on Google Maps is: <https://maps.app.goo.gl/hpTLzFUSrMvGcUf6>