

TRANSFORMER RELIABILITY

- AN INTERACTIVE WEBINAR over 3 Days

18th, 20th and 26th May 2021

Local & International Speakers and Experts



Who should attend?

Presentations will appeal to all industry sectors involved with the transformers - including asset owners, engineers, operators, inspection and maintenance personnel, contractors and suppliers

18 May	Session One	Speaker
9:00am	<i>Welcome and Opening – Organisers Ross Willoughby (Convener AU A2)</i>	
9:05	Tutorial from WGA2:62 International Transformer Reliability Survey	Dr Dan Martin, ETEL Transformers
09:50	Specifications - recent Transpower purchase specification enhancements for new power transformers to improve long term reliability	Michael Jordanoff, Transpower NZ
10:31	Transformer specifications - Improving reliability through specification, design and construction	Lagath Ganepola, Powerlink QLD
11:38	Tutorial - Understanding and mitigating corrosion – CIGRE TB 765	Joe Tusek, Verico
12:15pm	Closing Address	
20 May	Session Two	
9:00am	<i>Welcome and Opening – Organisers Ross Willoughby (Convener AU A2)</i>	
9:05	Transformer testing - static and dynamic winding resistance measurements & the importance of demagnetising the core. Dissipation Factor & Capacitance	Dr Wenyu Guo and Florian Predl, Omicron
09:53	Impulse testing - lightning impulses in service vs the FAT & impulse testing for Tx reliability under stresses of lightning strikes and switching operations	Dr Yi Li, National Measurements
10:38	Lessons learned from 16 transformer refurbishments and risks discovered during refurbishment. Difficulties encountered are discussed. Pre and post work comparisons. Investment planning and future risks	Robert Li, TransGrid
11:15	Refurbishments - improving the maintenance reliability of existing power transformers with on-going refurbishment / replacement programmes for bushings, tap changers and oil	Michael Jordanoff, Transpower NZ
11:39	Improving the reliability of transformers by OLTC retrofit.	Alan Brown, Reinhausen Australia
12:03pm	Voltage Regulating Distribution Transformer - Update on 2019 in service trials and outcomes	Dr Thomas Smolka, Reinhausen Australia
12:27 pm	On-Line diagnosis of Transformer Winding Insulation failures using Park's Vector Approach	Paul Guy, Smart Grid Solutions
13:00pm	Closing Address	
26 May	Panel Discussion Session	
Panel Session 10:00am – 11:25am	Open Discussion Panel Session with: Lagath Ganepola, Michael Jordanoff, Dr Dan Martin and Dr Thomas Smolka	
11:25am	<i>Closing Address</i>	

Delegates are encouraged to consider the following thought provokers and then pose their questions for the OPEN DISCUSSION PANEL SESSION:

- 1. What should an Asset Manager be doing (or not doing) to manage their transformers and reduce the risk of failure?**
Thought provokers: Cost of maintenance vs risk of failure, testing regimes, spares management etc. What factors are used to determine end of life? Is do nothing an option? Is consideration given to; the skills of maintenance service providers (in-house or outsourced), quality of equipment, work practices and how such matters are assessed?
- 2. Which tests should be performed on a transformer and how often should asset condition be determined?**
Thought provokers: Testing regimes, On-line vs Off-line, too much testing vs too little? How are test results interpreted and assessed?
- 3. When it comes to refurbishment, life extension and replacement what are the key considerations for an Asset Manager?**
Thought provokers: Is run to fail an option? Which drivers help us decide to maintain, refurbish, repair, or replace a transformer? What consideration is given to the environmental impact of failures and the disposal of materials at the end of life?

Note: Attendees are encouraged to bring additional questions and issues for discussion and if desired, can send any questions that they want raised by the Chair to: submissions@cigreaustralia.org.au



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