



# Conference Programme



THURSDAY, 20 JUNE 2013					
DAY 2	AUCKLAND 1	AUCKLAND 2	AUCKLAND 3	AUCKLAND 4	EPSOM 2
	<b>ASSET MANAGEMENT</b>	<b>ENERGY STRATEGY - FORECASTING</b>	<b>PEOPLE &amp; SAFETY</b>	<b>ASSET MGMT - TRANSFORMERS</b>	<b>ASSET DESIGN</b>
8:30am	<b>Grid Skills – the future of technical training for New Zealand's transmission industry</b> Paul Bagg, Transpower NZ Ltd	<b>Grid Owner FTR Implementation</b> Evans Chogumaira, Transpower NZ Ltd	<b>Process Safety for the Electricity Supply Industry</b> Harvey O'Sullivan, Harvey O'Sullivan Consulting	<b>A Recent Case Study: Power Transformer Remaining Life Evaluation</b> Ami Singh, Genesis Energy & Wade Enright, Viva Technical Solutions	<b>Implementing AS/NZS7000</b> Carl Rathbone, OtagoNet Ltd
9am	<b>Live Prediction and Life Extension of Line Equipment</b> Sujay Orpe & Steve Lowe, Northpower Ltd	<b>Practical experience and challenges on load forecast development in an Electricity Distribution Business</b> Te Yu, Unison Networks	<b>The HSE ACT 1992 and how it applies to electrical work</b> Gerry Ryan, MBIE	<b>Experiences From The Field – Fault diagnostics and repair of a power transformer, high resistance, aluminium to copper, LV joint</b> Peter McClean, Pioneer Generation	<b>A New Pole on the Block?</b> Des Abercrombie, Vector Ltd
9.30am	<b>Dry year grid reconfigurations</b> Evans Chogumaira, Transpower NZ Ltd	<b>Searching for a Medium-Term Load Forecast Model: Trials and Tribulations</b> Allan Miller, Allan Miller Consulting Ltd & Conrad Edwards, Transpower NZ Ltd	<b>Changing Safety Culture - Keeping peoples mind on the job</b> Gordon Anderson, Safestart	<b>High Temperature Superconducting Partial Core Transformer-Fault Current Limiter</b> Jit Sham, University of Canterbury	<b>The Electro-mechanical Design of Rigid and Strain Busbar Systems</b> Shaun McCarthy, University of Auckland
10am	<b>Diagnostic Techniques for a variety of HV Equipment</b> Antony Giacomini, TJH2b Analytical Services Pty Ltd	<b>Dynamic Load Models to Determine NZ's Reactive Power Requirements</b> Andrew Ward, Victor Lo & Grant McCormick, Transpower NZ Ltd	<b>Top Down Feeder Protection Design to enable Fusesaving strategy for network optimisation</b> Dr. Brett Watson, Siemens Ltd & Ken Mitchell, Scanpower	<b>Clean Energy storage for Grid load levelling</b> Srinivas Bharadwaj, GNB Industrial	<b>Seismic Considerations with High Voltage Switchgear</b> Richard Blakeley, RPS Switchgear
10.30am	<b>MORNING TEA</b>		<b>AUCKLAND 3 &amp; 4</b>		
			<b>KEYNOTE SPEAKERS</b>		
11am			Mike Underhill, EECA		
11.45am			Vince Hawksworth, TrustPower Ltd		
12.30pm	<b>LUNCH</b>				
	<b>PROJECTS</b>	<b>ASSET MANAGEMENT</b>	<b>ASSET MANAGEMENT</b>	<b>GENERATION</b>	<b>DEMAND RESPONSE</b>
2pm	<b>Practical Application of Joule Heating to the Sterilization of Plantation Grown Pinus radiata Logs</b> Bill Heffernan, University of Canterbury	<b>Grasmere Street 11 kV Switchboard Replacement and Protection Upgrade</b> Ivan Streltsov, Alpine Energy	<b>Some Practical &amp; Regulatory Aspects of Voltage Conversion</b> Maurice Hoskins, Counties Power & Robert Lack, Retired	<b>Stator Core Testing</b> Dave Tarrant, Dave Tarrant Engineering Consultants	<b>Demand Response in New Zealand</b> Quintin Tahau, Transpower NZ Ltd
2:30pm	<b>Maama Mai Solar Farm</b> Peter Apperley, Netcon International & David Reid, Reid Technology Ltd	<b>Wairau Road Substation Outdoor to Indoor Conversion - A Design Perspective</b> Azam Khan, Ergo Consulting & Ashneel Prasad, Vector Ltd	<b>The Flexible Asset Data Solution</b> Karen Frew & Paul Ward, Powerco Ltd	<b>Wairakei Bioreactor – Extending the Life of a New Zealand Icon</b> Rob Hills, Beca Carter	<b>Managing Consumer Peaks &amp; PV on Networks a Test Home with Energy Storage, in Home Load Management &amp; PV</b> James Silk, Powerco Ltd & Leith Robertson, Wells Instrument & Electrical
3.00pm	<b>Tongan Schools go Solar; 8 kW Photovoltaic System Design &amp; Installation by University of Canterbury Students in Five Tongan Schools</b> Shreejan Pandey, University of Canterbury	<b>Darfield to Dunsandel and Beyond - The Development of the Ground Fault Neutralizer in New Zealand and Lessons Learned</b> Dennis Keen, Connetics Ltd	<b>Managing Asset Condition and Risk – A Case Study</b> Dr. Paul Blackmore, EA Technology	<b>Huntly 250MW Generator Rotor Refurbishment: Project Review</b> Campbell Hammond, Genesis Energy	<b>Customer Classification Techniques for Distribution Utilities Based on Smart Meters Data</b> Haydar Abdulmohsen, Vector Ltd

# Conference Programme



DAY 2 CONTINUED					
THURSDAY, 20 JUNE 2013					
3:30pm	AFTERNOON TEA				
DAY 2	AUCKLAND 1	AUCKLAND 2	AUCKLAND 3	AUCKLAND 4	EPSOM 2
	ASSET MANAGEMENT	TRANSMISSION	GENERATION	ASSET MANAGEMENT	GENERATION - RENEWABLE
4pm	<b>Increasing Granularity of Reliability Assessment enabling Smarter CAPEX and Distribution Network Regulations</b> Nirmal Nair & Moonis Vegdani, University of Auckland	<b>Christchurch RPC, 1st year operational experience</b> Simon Bell, Transpower NZ Ltd	<b>Amethyst – A West Coast Mini Hydro Renaissance</b> Rodger Griffiths, ElectroNet Ltd & Paul Vaughan, Mitton Electronet	<b>Electric Vehicles in New Zealand: Technologically Challenged?</b> Scott Lemon, University of Canterbury	<b>Wind Energy Penetration in NZ – Intermittency and Inertial Support Issues</b> Bhujana Chakrabarti, Transpower NZ Ltd
4.30pm	<b>Emerging Technologies for Asset Management Mobile Terrestrial Lidar</b> Laura Nicol, Terralink Technologies	<b>AUFLS Load Control for HVDC Pole3 Commissioning - Challenges and Findings</b> Lekshmi Mohan, Transpower NZ Ltd	<b>Improving the Transient Rotor Angle Stability by the Delayed Field Forcing</b> Matthias Baechle, ABB Schweiz AG	<b>Condition Assessment of Transmission Towers Using Unmanned Aerial Vehicles</b> Mike Boardman & Dave Elder, LineTech Consulting	<b>More Network Capacity to Connect Renewables with Voltage Regulation in Distribution Transformers: Experiences from Europe</b> Philipp Erlinghagen, Reinhausen Australia
5pm	<b>Low Voltage Supply Earthing Systems - Is TT an Acceptable Alternative to MEN?</b> Rodger Griffiths, ElectroNet Ltd & Bruno Lagesse, Alpine Energy Ltd	<b>Long Term Grid Performance Targets</b> Graeme Ancell, Transpower NZ Ltd	<b>Frequency Governing with Wind Turbines in New Zealand</b> Dave Smith, Meridian Energy	<b>Underground Power Cable Management – Reduce Underground Network Fault Rate</b> Ying Wang, EA Technology Aust	<b>Enabling a network market for distributed energy storage</b> Miguel Brandao, GE Energy
5.30 - 6.30pm	TRADE EXHIBITION SOCIAL HOUR				
7.30pm	PRE-DINNER DRINKS				
8pm	CONFERENCE DINNER				

# Conference Programme



FRIDAY, 21 JUNE 2013						
DAY 3	AUCKLAND 1		AUCKLAND 2		AUCKLAND 3 & 4	EPSOM 2
8.30am					Phil Southwell, CIGRE	
9.15am					Grant Gillard, ABB Ltd	
10.00am	MORNING TEA		AUCKLAND 3		AUCKLAND 4	
	ASSET MANAGEMENT	ASSET DESIGN	COMMUNICATIONS	PAST & FUTURE	ASSET MANAGEMENT	
10.30am	Vector experiences on Power Quality and EEA Power Quality Guideline Lei Jing, Vector Ltd	Seismic Assessment of Substation Buildings – Ensuring the past is fit for the future Scott Muspratt, Vector Ltd	Unison’s Secondary Communications Network Iain Mackenzie, Unison Networks	125 years of data David Hume, Electricity Authority	Application of a Decision Support Framework in an Electricity Distribution Business Joshua Lloyd, Unison Networks	
11.00am	Optimised distribution feeder upgrades combining traditional, alternative and Smart Grid solutions Neehara Janapriya, University of Auckland	Infrastructure Resilience & Emergency Response Geoff Douch, Wellington Electricity	VHF/UHF SCADA communications, applications, narrow band migration, and cyber security concerns John Yaldwyn, 4RF Ltd	125 Years of Protection Relays in New Zealand – The Past, Present and Future Kathryn Ward, Beca Carter	Investment and asset management in the electricity distribution industry Nick Russ, Commerce Commission	
11:30am	A comparison of VLF and 50 Hz field testing of medium voltage cables Yanosh Irani, University of Canterbury	Protection Testing in the Past and Present – Innovations in Testing Solutions Maik Ufferhardt, OMICRON	Distribution Network Automation - Redundant 3G cellular communication as a Service Ralf Huebner, Vector Ltd	Electric Vehicles in New Zealand: Passenger or Driver? Scott Lemon, University of Canterbury	An Overview of Anti-Remanence Current Transformers and the new IEC61869-2 Standard Peter Rue, TWS Energy Controls	
12.00pm	The Value of Implementing Distributed Monitoring of Overhead Networks Miguel Brandao, GE Energy Aust	Transpower’s Adoption of Non-SF <sub>6</sub> Insulated Switchgear Michael Newton, Transpower NZ Ltd	Reference Architecture, IEC 61850 Model, Integration Bus, CIM Distribution Profiles, Adaptors and Transformers Roman Francis, Vector Ltd	Surge Arresters - from the beginning till today Grant Smith, ABB Ltd	Long Term Strategic Grid Planning: Site Development Strategies Nikki Newham, Transpower NZ Ltd	
12.30pm	LUNCH		AUCKLAND 3 & 4			
			PANEL SESSION			
2pm			‘Smart People for a Sustainable Future’			
3:30pm	BEST PAPER AWARD - HELD IN AUCKLAND 3&4					
4pm	CLOSE OF CONFERENCE - HELD IN AUCKLAND 3&4					