

# Conference Programme

WEDNESDAY, 20 JUNE 2012	
12.00pm	TRADE EXHIBITION OPENING - LUNCH AUCKLAND 3 & 4
1.00pm	Bob Simpson EEA President
1.10pm	Hon Phil Heatley Minister of Energy
2.00pm	Duncan Botting IET (UK)
2.45pm	Prof. Miroslav M Begovic IEEE (PES)
3.30pm	AFTERNOON TEA

AUCKLAND 1	AUCKLAND 2	AUCKLAND 3	AUCKLAND 4	EPSOM 2
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	ENERGY STRATEGY	GENERATION RENEWABLE	ENERGY MARKET	ASSET MANAGEMENT	ASSET MANAGEMENT
4.00pm	<b>Delivering Renewable Energy Projects through Stakeholder Engagement</b> Laurence Sherriff, The Environmental Challenge	<b>Alternative Energy Development - from Physical Islands to VPPs</b> Marcus Steel & Campbell James, Ampcontrol Pty Ltd	<b>2011: A Year in Review</b> David Hume, Electricity Authority	<b>Tasmanian Power System Load Modelling: Static and Dynamic Techniques &amp; Comparisons</b> Luke Roberts, Transend Networks & Shaun McIntyre, Powerlink, University of Tasmania	<b>GOOD DETAILED DESIGN, Why it is important and how to get it</b> Chris Turney, Ergo Consulting Ltd
4.30pm	<b>Is the New Zealand Grid Ready for Electric Vehicles?</b> Kieran Devine, Transpower NZ Ltd	<b>Water Desalination for Small Island Communities from Sustainable Electrical Energy: A Maldivian Case Study</b> Miraz Mohamad Fulhu, University of Canterbury	<b>A Review of the New Zealand Electricity Market</b> Bryan Leyland, Leyland Consultants	<b>Robust Method for Calculating the Power System Reserve Capacity of Distribution Feeders</b> Timothy Field, University of Auckland	<b>Substation Control Systems Upgrade Projects</b> Matthew Oong, Cooper Electrical Australia Pty Ltd
5.00pm	<b>AUFLS System Health Check</b> Robert Derks, Ferranti Consulting Ltd	<b>Advances in the use of hydrogen to address intermittent renewable generation</b> Alistair Gardiner, IRL	<b>Storage - Results from the Field</b> Bruce Ebzery, RedFlow Ltd & Jamie Silk, Powerco Ltd	<b>A Field Experience Comparison of Transformer Paper DP Samples and Oil Furan Analysis</b> Peter McClean, Pioneer Generation, Wade Enright, Viva Technical Solutions & Ami Singh, Genesis Energy	<b>Islington Substation High Impact Low Probability Event Study</b> Simon Todd, Transpower NZ Ltd

5:30-7.00pm	TRADE EXHIBITION SOCIAL HOUR
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7:00pm	EEA ANNUAL GENERAL MEETING, EPSOM 2
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THURSDAY, 21 JUNE 2012					
DAY 2	AUCKLAND 1	AUCKLAND 2	AUCKLAND 3	AUCKLAND 4	EPSOM 2
	<b>GENERATION</b>	<b>ENERGY STRATEGY - TRANSMISSION</b>	<b>PEOPLE &amp; SKILLS</b>	<b>ASSET MANAGEMENT</b>	<b>ASSET MANAGEMENT</b>
8:30am	<b>Transient Stability of a Hybrid Wind Farm Complying with Australian Grid Code</b> Mansour Mohseni, Power Systems Consultants	<b>Transpower's Capital Expenditure and the Role of the Commerce Commission</b> Nick Russ, Commerce Commission	<b>The Electric Power Engineering Centre's Success: Past, Present, and Future'</b> Allan Miller, EPECentre, University of Canterbury	<b>Online Monitoring of Partial Discharge as a Leading Indicator of Failure on Medium Voltage Switchgear and Rotating Machines</b> Joao Prata, Eaton Industries	<b>Asset renewal planning for electricity networks</b> Paul Blackmore, EA Technology Australia
9am	<b>Artificial Inertia Control Systems, and Grid Codes in the New Zealand Power System</b> Marc Pelletier, Transpower NZ Ltd	<b>Asset Transfer of Kaikohe and Kaitaia to Top Energy</b> Paul Blue, Transpower NZ Ltd & Keith Gilby, Top Energy Ltd	<b>Retaining Generation Y</b> Neil Smith, TransGrid	<b>The Future of Very Low Frequency (VLF) Testing</b> Gary Catlin, HV Diagnostics Sarl	<b>Asset Management Plans; Love Them, Hate Them?</b> Johan Hendriks, PSC New Zealand
9.30am	<b>Statically Excited - in Ten Days Flat!</b> Rodger Griffiths, ElectroNet Services Ltd	<b>Asset Health and Risk Framework for the National Grid</b> Mary Therese Sullivan & Marshall Clark, Transpower NZ Ltd	<b>Facilitating Knowledge Transfer for Generator Engineers, Between Companies and Across Borders</b> Jane Hutt, International Generator Technical Community	<b>A comprehensive, cost-effective dissolved gas monitoring strategy</b> Trevor Lord, Lord Consulting	<b>Mobile Technology in the Field – or : Never having to visit Head Office</b> Alastair Glyn-Jones & Lukasz Zawilski, Transpower NZ Ltd
10am	<b>Earthing design considerations for Macarthur Wind Farm Project – 140 Wind Turbine Generators (WTG)</b> Tony Auditore, LineTech Consulting	<b>13 December AUFLS Event</b> Heidi Heath, Transpower NZ Ltd & Campbell Hammond, Genesis Energy	<b>Industry Training Numbers – A Train Wreck Coming</b> Tim Densem, ESITO	<b>Monitoring the Drying Process of Power Transformers Using Dielectric Response Analysis</b> Alan McGuigan, OMICRON Electronic	<b>West Wind - Wind Farms End of Warranty Inspections</b> Bayleigh Baird, Meridian Energy Ltd
10.30am	<b>MORNING TEA</b>		<b>AUCKLAND 3 &amp; 4</b>		
			<b>KEYNOTE SPEAKERS</b>		
11am			<b>Klaus Fröhlich</b> CIGRE		
11.45am			<b>Planning for the Future - A Chief Executive's View</b> Nigel Barbour, Powerco Ltd		
12.30pm	<b>LUNCH</b>				
	<b>POWER QUALITY</b>	<b>ASSET MANAGEMENT</b>	<b>PANEL SESSION</b>	<b>MICROGRIDS</b>	<b>DEMAND RESPONSE</b>
2pm	<b>Reduction and Control of Harmonic Distortion Caused by Dispersed Variable Speed Drives in a Rural Distribution Network</b> Stephen Hirsch, Orion NZ Ltd	<b>From Condition to Hazard</b> Malcolm McQueen, Hyland McQueen Ltd	<b>Public Safety Management Systems</b>  <b>Chair: Peter Browne, PMR Browne Consulting</b>	<b>Solving Grid Voltage Problems Caused by PV Solar</b> John Penny, ABB Ltd	<b>Demand Response - The Renewable Answer</b> Michael Jefferson & Joey Basile, EnerNOC
2:30pm	<b>System Wide Harmonic Model for a Sub-transmission Network</b> Richard Fairbairn, Sinclair Knight Merz	<b>Condition Assessment of Ageing Network Poles</b> Geoff Douch, Wellington Electricity		<b>Christchurch Reactive Power Control (RPC): Commissioning and operational experience</b> Jin Phoon & Duncan Buchanan, Transpower NZ Ltd	<b>Hydro Reserves and Demand Response in Balancing Wind Intermittency</b> Dr. Bhujanga Chakrabarti, Transpower NZ Ltd & Dr. Ramesh Rayudu, Victoria University of Wellington
3.00pm	<b>Power Interference Issues between Utilities' Infrastructure</b> Philip Boys, Mitton Electronet Ltd	<b>Longevity of Transformer Assets Through Transformer Oil</b> Linnèa Bergeld, Nynas AB		<b>Managing Microgrids</b> Holger Hannemann, ABB Ltd	<b>Establishing Demand Response in New Zealand</b> Quintin Tahau, Transpower NZ Ltd
3:30pm	<b>AFTERNOON TEA</b>				

DAY 2 CONTINUED

THURSDAY, 21 JUNE 2012

DAY 2	AUCKLAND 1	AUCKLAND 2	AUCKLAND 3	AUCKLAND 4	EPSOM 2
	<b>POWER QUALITY</b>	<b>SAFETY</b>	<b>PANEL SESSION</b>	<b>ASSET MANAGEMENT</b>	<b>SMART GRIDS</b>
4pm	<b>Power Quality State Estimation: A New Concept</b> Neville Watson, University of Canterbury	<b>Pan Industry Contractor Prequalification</b> Tom Reeves, CPNZ Ltd	<b>Live Line - Where to by 2020</b>  <b>Chair: Bob Taylor, Bob Taylor Consulting</b>	<b>Volcanic Ash Contamination of High Voltage Insulators - Revising Insulator Design to Aid the Electrostatic Repulsion of Volcanic Ash</b> Michael Mee, University of Canterbury	<b>Does New Zealand Regulatory Framework Enable Smart Grid Investments by Distribution Networks?</b> Jake Zhongwei Zhang & Nirmal Nair, University of Auckland
4.30pm	<b>Solutions for LV Reactive Power Management</b> Mark Marchal, Schneider Electric	<b>Rolling Out a New Answer to a Near Miss</b> Jason Hazelwood, Counties Power Ltd		<b>Wilton GXP to Moore St Zone Substation 33kV Cable Replacement</b> Edwin Leong, Wellington Electricity	<b>The Role of Smart Meters, RTU-Based Systems and Third Generation Distribution Monitoring Systems for Data Acquisition in Electrical Distribution Smart Grids</b> Andrew Halliday, PowerSense ANZ Pty
5pm	<b>Trends in Industrial Electric Motor Usage and Potential Impact on Energy Consumption</b> Richard Strahan, EPECentre, University of Canterbury	<b>The Challenge of Arc Fault Safety in Medium Voltage Switchgear</b> Gilbert Zielemann, ABB Ltd		<b>The EEA Guide for Safety Checking of Private Lines - An Introduction</b> Peter Browne, PMR Browne Consulting & Brent Norriss, The Lines Company Ltd	<b>Review of the Smart Grid Sites and Solutions of LSIS in Korea</b> Dr. Jong-young Park, LS Industrial System Ltd
5.30 - 6.30pm	<b>TRADE EXHIBITION SOCIAL HOUR</b>				
7.30pm	<b>PRE-DINNER DRINKS</b>				
8pm	<b>CONFERENCE DINNER</b>				

FRIDAY, 22 JUNE 2012

DAY 3	AUCKLAND 1	AUCKLAND 2	AUCKLAND 3 & 4		EPSOM 2
8.45am			<b>Transpower - A Journey in a Changing World</b> Dr Patrick Strange, CEO, Transpower NZ Ltd		
9.30am			Mark Gatland, CEO Northpower Ltd		
10.15am	MORNING TEA		AUCKLAND 3	AUCKLAND 4	
	GENERATION	ASSET MANAGEMENT	INFRASTRUCTURE RESILIENCE	SMART GRIDS	ASSET MANAGEMENT
10.45am	<b>Small Hydro: how to do it better and cheaper</b> Bryan Leyland, Leyland Consultants	<b>Construction and Testing of a Next Generation HTS Partial-Core Transformer</b> Andrew Laphorn, University of Canterbury	<b>Building an Earthquake Resilient National Grid</b> Christophe Tudo-Bomarel, Transpower NZ Ltd	<b>Only Smart Reclosers Build Smart Grids</b> Shane Gorman, NOJA Power Switchgear	<b>Comparative Assessment of 11kV Bus Protection Schemes</b> Ritika Sinha & Molly Dogra, University of Auckland
11.15am	<b>A vision for Wind Generation in New Zealand 2030</b> Eric Pyle, NZ Wind Energy Association	<b>New SF6 Free Technology for an Improved Switch Disconnecter</b> Brett Watson, Kaon Electric Pty Ltd	<b>Orion DMS Performance during the 2011 Earthquakes (a case study)</b> Stephen Szalla, GE Energy	<b>Modernising the Distribution Network with Automated FDIR and Volt-Var Control using Feeder Metering</b> Matthew Knott & David Lawrence, ABB Ltd	<b>Modern Tools for Diagnostic Measurement on Power Transformers</b> Alan McGuigan, OMICRON Electronic
11.45am	<b>Experimental deployment of the WET-NZ wave energy converter</b> Alister Gardiner, IRL	<b>An Evaluation of the Impact of New, Intelligent Fuse-Saving Circuit Breakers on Rural Network Performance</b> Brett Watson, Kaon Electric Pty Ltd	<b>Preparing for the Worst in Wellington - Developing Overhead Line Routes to Replace Damaged Cables</b> Wal Marshall, LineTech Consulting Ltd & Geoff Douch, Wellington Electricity	<b>Journey towards Smarter Protection and Automation Systems for Distribution Networks</b> Nirmal Nair, University of Auckland	<b>Visualising Asset Information: Design and Application of a Requirements Framework</b> Xiaoyan Bai, Vector Ltd
12.15pm	LUNCH		AUCKLAND 3 & 4		
			PANEL SESSION		
2pm			<b>Sustainable Energy Future - Evolution or Revolution?</b>  Chair: Bob Simpson, EEA President		
3:30pm	BEST PAPER AWARD - HELD IN AUCKLAND 3&4				
4pm	CLOSE OF CONFERENCE - HELD IN AUCKLAND 3&4				