

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	Delivering Renewable Energy Projects through Stakeholder Engagement Laurence Sherriff, The Environmental Challenge	Alternative Energy Development - from Physical Islands to VPPs Marcus Steel & Campbell James, Ampcontrol Pty Ltd	2011: A Year in Review David Hume, Electricity Authority	Tasmanian Power System Load Modelling: Static and Dynamic Techniques & Comparisons Luke Roberts, Transend Networks & Shaun McIntyre, Powerlink, University of Tasmania	GOOD DETAILED DESIGN, Why it is important and how to get it Chris Turney, Ergo Consulting Ltd
4.30pm	Is the New Zealand Grid Ready for Electric Vehicles? Kieran Devine, Transpower NZ Ltd	Water Desalination for Small Island Communities from Sustainable Electrical Energy: A Maldivian Case Study Miraz Mohamad Fulhu, University of Canterbury	A Review of the New Zealand Electricity Market Bryan Leyland, Leyland Consultants	Robust Method for Calculating the Power System Reserve Capacity of Distribution Feeders Timothy Field, University of Auckland	Substation Control Systems Upgrade Projects Matthew Oong, Cooper Electrical Australia Pty Ltd
5.00pm	AUFLS System Health Check Robert Derks, Ferranti Consulting Ltd	Advances in the use of hydrogen to address intermittent renewable generation Alistair Gardiner, IRL	Storage - Results from the Field Bruce Ebzery, RedFlow Ltd & Jamie Silk, Powerco Ltd	A Field Experience Comparison of Transformer Paper DP Samples and Oil Furan Analysis Peter McClean, Pioneer Generation, Wade Enright, Viva Technical Solutions & Ami Singh, Genesis Energy	Islington Substation High Impact Low Probability Event Study 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
	GENERATION	ENERGY STRATEGY - TRANSMISSION	PEOPLE & SKILLS	ASSET MANAGEMENT	ASSET MANAGEMENT
8:30am	Transient Stability of a Hybrid Wind Farm Complying with Australian Grid Code Mansour Mohseni, Power Systems Consultants	Transpower's Capital Expenditure and the Role of the Commerce Commission Nick Russ, Commerce Commission	The Electric Power Engineering Centre's Success: Past, Present, and Future' Allan Miller, EPECentre, University of Canterbury	Online Monitoring of Partial Discharge as a Leading Indicator of Failure on Medium Voltage Switchgear and Rotating Machines Joao Prata, Eaton Industries	Asset renewal planning for electricity networks Paul Blackmore, EA Technology Australia
9am	Artificial Inertia Control Systems, and Grid Codes in the New Zealand Power System Marc Pelletier, Transpower NZ Ltd	Asset Transfer of Kaikohe and Kaitaia to Top Energy Paul Blue, Transpower NZ Ltd & Keith Gilby, Top Energy Ltd	Retaining Generation Y Neil Smith, TransGrid	The Future of Very Low Frequency (VLF) Testing Gary Catlin, HV Diagnostics Sarl	Asset Management Plans; Love Them, Hate Them? Johan Hendriks, PSC New Zealand
9.30am	Statically Excited - in Ten Days Flat! Rodger Griffiths, ElectroNet Services Ltd	Asset Health and Risk Framework for the National Grid Mary Therese Sullivan & Marshall Clark, Transpower NZ Ltd	Facilitating Knowledge Transfer for Generator Engineers, Between Companies and Across Borders Jane Hutt, International Generator Technical Community	A comprehensive, cost-effective dissolved gas monitoring strategy Trevor Lord, Lord Consulting	Mobile Technology in the Field – or : Never having to visit Head Office Alastair Glyn-Jones & Lukasz Zawilski, Transpower NZ Ltd
10am	Earthing design considerations for Macarthur Wind Farm Project – 140 Wind Turbine Generators (WTG) Tony Auditore, LineTech Consulting	13 December AUFLS Event Heidi Heath, Transpower NZ Ltd & Campbell Hammond, Genesis Energy	Industry Training Numbers – A Train Wreck Coming Tim Densem, ESITO	Monitoring the Drying Process of Power Transformers Using Dielectric Response Analysis Alan McGuigan, OMICRON Electronic	West Wind - Wind Farms End of Warranty Inspections Bayleigh Baird, Meridian Energy Ltd
10.30am	MORNING TEA		AUCKLAND 3 & 4		
			KEYNOTE SPEAKERS		
11am			Klaus Fröhlich CIGRE		
11.45am			Planning for the Future - A Chief Executive's View Nigel Barbour, Powerco Ltd		
12.30pm	LUNCH				
	POWER QUALITY	ASSET MANAGEMENT	PANEL SESSION	MICROGRIDS	DEMAND RESPONSE
2pm	Reduction and Control of Harmonic Distortion Caused by Dispersed Variable Speed Drives in a Rural Distribution Network Stephen Hirsch, Orion NZ Ltd	From Condition to Hazard Malcolm McQueen, Hyland McQueen Ltd	Public Safety Management Systems Chair: Peter Browne, PMR Browne Consulting	Solving Grid Voltage Problems Caused by PV Solar John Penny, ABB Ltd	Demand Response - The Renewable Answer Michael Jefferson & Joey Basile, EnerNOC
2:30pm	System Wide Harmonic Model for a Sub-transmission Network Richard Fairbairn, Sinclair Knight Merz	Condition Assessment of Ageing Network Poles Geoff Douch, Wellington Electricity	Panel: Bob Greenhough, Telarc Paddy Gregan, Orion Ross Parker, Transpower Peter de Graaf, TrustPower	Christchurch Reactive Power Control (RPC): Commissioning and operational experience Jin Phoon & Duncan Buchanan, Transpower NZ Ltd	Hydro Reserves and Demand Response in Balancing Wind Intermittency Dr. Bhujanga Chakrabarti, Transpower NZ Ltd & Dr. Ramesh Rayudu, Victoria University of Wellington
3.00pm	Power Interference Issues between Utilities' Infrastructure Philip Boys, Mitton Electronet Ltd	Longevity of Transformer Assets Through Transformer Oil Linnèa Bergeld, Nynas AB		Managing Microgrids Holger Hannemann, ABB Ltd	Establishing Demand Response in New Zealand Quintin Tahau, Transpower NZ Ltd
3:30pm	AFTERNOON TEA				

DAY 2 CONTINUED

THURSDAY, 21 JUNE 2012

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

FRIDAY, 22 JUNE 2012

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