	TUESDAY, 9 SEPTEMBER 2025				
PRE-CONFERENCE WORKSHOPS - TE PAE					
9.00am	EEA, EECA & FlexForum Flex Day - Flexibility: Progress, Gaps, and Engaging Consumers				
1.30pm	Connections Day Workshop: Part of the Streamlining Connections programme				
9.30am - 5.00pm	EEA Substation Engineering Forum: Jointly hosted with Transpower				
4.00pm	Young Professionals Networking Event				
5.30pm -	TECHNOLOGY EVHIBITION OPENING AND SOCIAL EUNICTION				

TECHNOLOGY EXHIBITION OPENING AND SOCIAL FUNCTION

#### WEDNESDAY, 10 SEPTEMBER 2025

MORNING TEA IN TECHNOLOGY EXHIBITION

**LUNCH IN TECHNOLOGY EXHIBITION** 

7.30pm

10.40am

12.20pm

7.00am	BREAKFAST - FROM INTENTION TO IMPACT: DIVERSE & INCLUSIVE LEADERSHIP			
8.30am	REGISTRATION & TECHNOLOGY EXHIBITION OPENS			
	AUDITORIUM			
9.00am	CONFERENCE OPENING			
9.30am	Keynote Address: Thomas Ackermann, CEO, Energynautics GmbH			
10.00am	Panel Session:  Wired for 2035: Mapping the path to our future energy system  What will a resilient, affordable, and low-emissions energy system look like in a decade - and what must we prioritise today across planning, technology, regulation, the workforce and consumer enablement to get there?			



	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	DEMAND FLEXIBILITY & CONSUMER EMPOWERMENT	INNOVATION IN ELECTRICITY INDUSTRY	ENERGY STORAGE & GRID RELIABILITY	FUTURE WORKFORCE & CAPABILITY BUILDING
11.00am	FlexTalk - Open Communication Protocols: The key enabler of interoperability and Consumer Energy Agency.  Connie Dunbar & Stuart Johnston, EEA	Is Now the Time? A Protection Revolution Nathan Rich, DesignTech	Use of pole top battery energy storage systems to stabilise voltages Josh Van Rynbach, Kieran Orchard & Pema Choki, Powerco Ltd	GirlBoss and Orion group: The strategic advantage of diversity, creating pathways for the workforce of tomorrow Amy Johnston, Orion NZ Ltd
11.20am	Bridging the Gap: Using Modbus to enable EV charger demand flexibility Johnathon Green, Horizon Networks	Enhancing safety, reliability, and resilience through collaborative design Hamish Fleming, Orion NZ Ltd	Sustainability in Aotearoa: A Holistic Approach to Solar and Renewable Energy Pablo Daverio, Infratec New Zealand Ltd	Building workforce capability in a transforming energy sector: Insights from the New Zealand Electrical Inspectors Association Tony Doyle, Harmony Energy
11.40am	The Flexible Edge: Powerco's approach to industrial decarbonisation Brooke Wykes, Powerco Ltd	Delivering real-world risk and control management outcomes using the control framework approach Peter Standish & Graeme Webby, Risk Mentor	Community batteries in Aotearoa: Opportunities, challenges, and learnings from across the ditch Gareth McKay, Valen Power	Empowering people to power the transition: Building workforce capability for grid-scale renewables and electrified transport Lauren Faithfull, Mckay Ltd
12.00pm	Developing distribution system operation (DSO) capabilities: Key to NZ's pathway to flexibility adoption  Moonis Vegani & Astad Kapadia, Counties Energy	Moving to electronic competency cards Liz Baker & Suzanne Harvey, Electronet Group	An analysis of storage needed for large scale wind and solar power Bryan Leyland, LCL Ltd	From communities to kilowatts: Many paths to an electrified future Hinerangi Pere, Orion NZ Ltd



	WEDNESDAY, 10 SEPTEMBER 2025		Electrifying A Today's innov	Aotearoa ration, tomorrow's system
	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	LV NETWORKS & SMART GRIDS	ADVANCING RENEWABLE INTEGRATION	ASSET MANAGEMENT & INFRASTRUCTURE PLANNING	BIG DATA & DIGITAL TRANSFORMATION
1.30pm	Autonomous control of electric devices Dougal Mcqueen, Hyland Mcqueen Ltd	Designing inverter based generation controls to ensure reliable anti-islanding protection Sam Bird, Powerco Ltd	Navigating the new landscape: Resource management reform and the future of electricity infrastructure  Jo Michalakis, Align Limited	Modelling solar wind data to provide short-term warnings of geomagnetically induced current trends Brian Lin & Mia Biggs, Harmonic Analytics
1:50pm	Analysing the impact of electrification of heat and transport on different distribution network archetypes David Mills, EA Technology	A design approach and technical considerations for onshore windfarm collector network designs Sachin Chetty & Josh Burrows, ElectroNet	Finding arc-free current-limiting dropout fuse that reliably and safely protects lines and transformers while not causing bushfires.  Andrew Lapthorn, University of Canterbury & Goran Stojadinovic, TransNet	Innovating asset management through Al: Case studies and practical insights from Orion Jessica Napper, Orion NZ Ltd
2.10pm	How Eneida's feeder mapping supports Counties Energy in their DSO journey Joana Faria, Eneida.io Portugal & Astad Kapadia, Counties Energy	Future proofing grid connections - applying learnings from Australia Mark Mundell & Kevin Friesen, Beca Ltd	Residential solar and energy storage: an analysis of economic benefit Allan Miller, ANSA & Tim Crownshaw, EECA	In a sea of generalised Al solutions, specialised Al systems will prevail as the most effective, trusted control room solutions  Mark Staubly, Expedium Consulting
2.30pm	Beyond maximum demand: Real-time transformer monitoring in New Zealand's decarbonising grid Yogendra Vashishtha, EA Technology	Orchestrating CERs for grid stability Jasjeet Singh & Melanie Levy-Hara, GE Vernova	Practical design considerations when embedding generators to improve network resilience Aubrey Liew Yat Pau & Sam Bird, Powerco Ltd	Northpower's journey to using a risk-driven decision framework  Dane Boers, Modla Australia & Carlos Ulloa-Canales, Northpower
2.50pm	Expanding the permitted voltage range: A case for modernising low voltage limits Ben Aynsley, Westpower	Network analysis following integration of IBRs into isolated mini-grid Duncan Maina, Ankur Agarwal & Sinapati Tupou, AECOM	Harmonic issues on tomorrow's electricity network - A real or perceived risk? Rob Orange, Niko Engineering Ltd	The application of national energy models to an Electricity Distribution Business demand forecast Steven Simpson, Unison Networks
3.10pm	AFTERNOON TEA IN TECHNOLOGY EXHIBITION			
	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	CONNECTING GENERATION & LOAD TO THE GRID	ENERGY SYSTEM TRANSITION	INNOVATION IN THE ELECTRICITY INDUSTRY	NETWORK OPTIMISATION
3.40pm	Power factors in the New Zealand power system David Hume, Electricity Authority	Transient rotor angle stability analysis of the New Zealand power system Eranga Kudahewa, Transpower NZ Ltd	Reliable detection of downed HV distribution lines using modern LV voltage monitoring equipment - A Case Study Stephen Chiu & Sean Osborne-Curtis, Powerco Ltd	Optimal supply and reticulation of large data centre loads Gavin Austin, Ergo Consulting
4.00pm	How not to cause a blackout in the digital substation - New testing and commissioning approaches  Maik Ufferhardt, Niko Engineering	Enhancing TLC's OT Network: Strengthening security, reliability, and efficiency with OT-SDN technology Rajneshwar Singh & Warren Harris, The Lines Company	Transforming transmission asset maintenance with machine learning: Optimised forecasting for tower painting costs Brian Cleary, Transpower NZ Ltd	A "load" of incentives Andrew Smaill & Richard Steer, Wellington Electricity
4.20pm	Power system black start of a large, isolated power system Laurie Curro, Curro Consulting	Condition assessment of bushings using DFR Lars Jonsson, Hitachi Energy Sweden	Al-driven fault prediction & localised leveraging centralised monitoring & protection & control data Jesse Koskela, Eneryield & EcoPhi	Revitalising the grid: Lessons from the Islington SVC3 refurbishment Michael Dalzell, Transpower NZ Ltd & Jake Williams, Amplitude Consultants
4.40pm	What generators really want - A dummies guide to grid connection Brad Henderson, Lodestone Energy	Cybersecurity in ever more digital substations Tibor Congo, OMICRON	Al-Powered flexible exports: learnings from the deployment of end-to-end grid edge flexibility Brad Smith, Gridsight	Supporting electrification and decarbonisation through collaboration, engagement and innovation Eric Sng & Rijin John, PowerNet Ltd



	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	ADVANCING RENEWABLE INTEGRATION	BIG DATA & DIGITAL TRANSFORMATION	ASSET MANAGEMENT & INFRASTRUCTURE PLANNING	DEMAND FLEXIBILITY & CONSUMER EMPOWERMENT
8.30am	Distributed generation writ large - Connecting the 47MWac Lauriston Solar Farm Pete Armstrong, Dewalt Venter & Jonathan Hunsley, EA Networks Ltd	Towards automating power quality analysis in an evolving network Dazzle Johnson & Robin Pittwood, Powerco Ltd	Electricity distribution 2055 - Forecasting an uncertain future Michael O'Brien & Laura Chirnside, Powerco Ltd	Peak demand, consumer acceptance, and energy equality: Considerations for demand-side management  Baxter Kamana-Williams, University of Canterbury
8.50am	Utility-scale DG integration: Powerco's technical framework Gabriel Lim & Annie Welvaert, Powerco & Edgar-John Kleinveld, Transpower	Sweating the data: Three ways companies are diving deeper to understand asset performance and risk Jules Congalton, Asset Dynamics Ltd	Revitalising the old: Maintenance innovation as the key to energy availability Emily Adams, Meridian Energy	Quantifying the potential for industrial demand-sid flexibility in the New Zealand Electricity Market Brian Moore & Marasinghe Kanchana, Jacobs NZ
9.10am	Enhancing grid hosting capacity for integration of renewable energy resources and sustainable loads with Hitachi Energy C-LVR Ngan Le Thi, Hitachi Energy	From demand to delivery: National distribution network modelling and the role of flexibility in avoiding £8 billion in reinforcement David Mills, EA Technology	Vulnerability of existing power assets due to increasing seismic load demand and liquefaction risk - Case study of Rangipo Substation Sajjad Anwar, AECOM NZ	How a new approach to a technology challenge unlocked shared value across the electricity industry Adrian Lobb, Powerco Ltd
9.30am	Resolving reverse power flow using current- dependent setpoint for voltage control within decen- tralised grid generation plants at Northpower Ruawai 5MVA Substation Jose Lumbera & Bryan Dimayuga, Northpower Ltd	The use of graph database to create and simplify network models Alex Castellanos, Unison Networks	Break & Learn: What we learnt from intentionally snapping timber poles?  Mitch Graham, Unison Networks	Market designs and development for flexibility services Yogendra Vashishtha, EA Technology
9.50am	Transient voltage stability assessment in MV distribution networks with multiple utility-scale solar farms connected to strong and weak networks Mufid Altorok, Ergo Consulting	Detecting hot water loads using smart meter data for resilient retailer-distributor load management Bryan Choi, Orion NZ Ltd	Extending the life of critical assets - Implementation of disconnector maintenance and refurbishment programmes Nigel Shirley & Violet Penty, Westpower	Bridging the Gap: Aligning New Zealand's regulate frameworks with evolving technical standards for demand flexibility and smart devices Stuart Johnston, EEA & Peter Berry, President, NZ IEA National Committee
0:10am	MORNING TEA IN TECHNOLOGY EXHIBITION			
		AUDITORIUM		
1.00am	Keynote Address: Lynne Gallagher, Board Member, Australian Energy Regulator (AER), and former CEO, Energy Consumers Australia			
1.30am	Panel Session: Power to the People: Engineering the energy transition for consumers  To deliver a successful energy transition, we must design systems that empower and include consumers from the outset. This panel explores how the electricity supply industry could turn aspiration into action—through planning, technology, standards, and partnerships that ensure consumers aren't just passive users, but active participants in shaping a safe but smarter, fairer energy future.			
2.20pm	EEA Awards Ceremony			



#### **THURSDAY, 11 SEPTEMBER 2025 DOBSON 1 DOBSON 2 & 3 DOBSON 4 AUDITORIUM EXTENDING THE LIFE OF LEGACY ASSETS IN CONNECTING GENERATION &** INNOVATON IN THE ELECTRICITY INDUSTRY **BIG DATA & DIGITAL TRANSFORMATION** THE ENERGY TRANSITION LOAD TO THE GRID Verification of voltage transformer performance for **Network Digital Twins - Providing Powerful** 2.10pm Understanding wood decay fungi attack in crossarms Reduced asset failure, maintenance costs, and to improve detection and asset health modelling power quality applications increased resilience through data collaboration Mark Spinks, Gridvision Danneilea Richardson, Powerco Ltd Tibor Congo, OMICRON Roger Clary, Vector Ltd & Esmaeil Alizadeh, Via Science 2.30pm Developing secondary system upgrades: A case study Collaborative long-term bulk supply network plan-Navigating compliance and security in the energy Harnessing big data: Al-driven transformation in of the Waitaki 110V DC distribution upgrade ning for the Western Bay of Plenty region sector: Creating a secure data management frameoverhead line defect detection Williams Thomas, Meridian Energy Keith Edmonds, Powerco Ltd, Edgar-John Kleinveld & work to unlock insights from restricted datasets Brian Cleary, Transpower NZ Ltd Sophie Burgess, Powerco Ltd David Strang, Transpower HV Earth Testing - Is your data useful? 2.50pm Smart meter control for load management Streamlining the system operator generation com-Branching out: Satellite solutions for powerline Una Drayton & Dylan Jenkins, PSC Consulting missioning and testing process - Faster integration Patrick Coombe, ElectroNet Ltd of renewable energy resources Chris Withey, Unison Networks Anna Li, Transpower NZ Ltd 3.10pm Grid resilience-successful innovation adoption on How risk metric selection drives infrastructure Local experience using frequency domain reflectome-Connecting large renewable generation to the try to test and diagnose the condition of power cables distribution network utilising smart meter data protection projects investment decisions in New Zealand networks Gary Catlin, HV Diagnostix Sean Fletcher, Transpower NZ Ltd Neehara Janapriya, The Lines Company & Ben Logan Brunner, Urban Intelligence McCoy, Gridsight 3:30pm **CLOSE OF CONFERENCE IN AUDITORIUM**



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