Conference Programme - 12 June 2023

	TUESDAY, 27 JUNE 2023			
1.00pm - 4.00pm	SITE TOL	RS - MEET TRANSPORT AT TE PAE		
	PRE-CONF	ERENCE WORKSHOPS - TE PAE		
	DOBS	ON ROOMS, GROUND FLOOR		
9.00am - 3.45pm		The Future is Flexibility - First Steps, FlexTalk We are looking to bring together discussions on the flexibility space		
1.00pm - 4.00pm	Informatio	CIGRE Workshop Information Systems and Telecommunication		
4.00pm - 5.30pm	Cyclone Gabrielle - Learnings on Resilience No registration needed			
5.30pm - 7.30pm	TECHNOLOGY EXHIBITION OPENING AND SOCIAL FUNCTION			
	WEDNESDAY, 28 JUNE 2023			
7.00am	DIVERSITY, EQUITY & INCLUSIV	ITY BREAKFAST - DOBSON ROOMS		
8.00am	REGISTRATION & TECHNOLOGY EXHIBITION OPENS			
	AUD	TORIUM		
9.00am	ΜΙΗΙ WHAKATAU			
9.10am	CONFERENCE OPENS & WELCOME			
9.20am	Hon, Dr Megan Woods, Minster of Energy & Resources			
9.30am	Dr. Jessica J. Bian, IEEE (PES) President			
10.00am	Rolf Bienert, OpenADR Alliance International use of OpenADR (Europe) and upcoming version 3			
10.30am	MORNING TEA IN TECHNOLOGY EXHIBITION - SP	DNSORED BY TRANSNET		
	DOBSON 1	DOBSON 2 & 3		
	GENERATION	ENABLING DER	VA	

	TE PAE, CHRISTCHURCH 27:29 JUNE 2023
DELIVERING A NET ZERO CARBON ENERGY FUTURE	eea Electricity Engineers'

	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	GENERATION	ENABLING DER	VALUE DECISION MAKING	DESIGN METHODS
11.00am	Circularity for Solar PV: A Sustainable Net Zero Energy Future Megan Jones, Circular PV Alliance	The importance of increasing flexibility in New Zealand's energy transition Luke Cartmell-Gollan, Simply Energy	Improving Powerco's investment decision making maturity – putting value first Kathryn Gillum & Michael O'Brien, Powerco	Enabling self-service connections – GB Innovation experience Ian Cooper, EA Technology
11.30am	Innovative ideas for small hydropower Brian Leyland, Leyland Consultants	Assessing the feasibility of connecting 100's of industrial loads to New Zealand's power system, supporting the acceleration of decarbonisation Kane Morison, Ergo Consulting & Kanchana Marasinghe, EECA	Asset Replacement Decision Making in Future Networks Populated with Distributed Energy Resources Yogendra Vashishtha, EA Technology	Substation GPT – Automated design solutions for an electricity system to support decarbonisation Cameron Chapman, ElectroNet Consulting
12.00pm	Sustainability in Transformers: Towards a Low Carbon Power Grid Gabriel Barrientos, Hitachi Energy	Step changes in load connections and planned supply capacity increases Andrew Beddard, Transpower	Identifying the optimal locations to improve network reliability and reduce customer interruptions – A UK example Ian Cooper, EA Technology	Site Selection Considerations for Modern Greenfield Substations Wilhelm Bisschoff, ElectroNet Consulting

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DAY 1 CONTINUED

DELIVERING A NET ZERO CARBON ENERGY FUTURE

WEDNESDAY, 28 JUNE 2023				
	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	DEMAND FLEXIBILITY	LV/CLOSE TO CUSTOMER	STAKEHOLDER ENGAGEMENT	SYSTEM PROTECTION
1.30pm	Resi-Flex – Incentivise flexibility from residential consumers by exploring commercial mechanisms with flexibility stakeholders Evie Trolove, Orion NZ Ltd & Scott Scrimgeour, Wellington Electricity	Upgrades and Planning and the Impacts of Decarbonisation on Hospital Electrical Networks Brendon Clarke, AECOM	Resource Management Reform: Planning for electricity infrastructure and resilience under the Spatial Planning Bill and Natural and Built Environment Bill Mike Robinson, Align Ltd	The use of Residual Current Devices for protecting Power Electronic Equipment Prof. Neville Watson, University of Canterbury
2:00pm	Australian Dynamic Electric Vehicle Charging Trial: 2 Years Later Seamus Allan, Dynamic Ratings	LV cable renewal forecasting - how near is that wall of wire? Andre Cuppen, Powerco	Electricity Authority – Our Vision, Strategy and road map to achieving Security and Resilience with a changing Power System Sheila Matthews, Electricity Authority	Impact on Conventional Protection Relay Settings on a Hybrid Network Naveed Ali & Hayden Nikolajenko, ElectroNet Consulting
2.30pm	Smart Charging of Electric Vehicles Considering Both Peak Demand Reduction and Customer Satisfaction Aleida Powell, Deta	Collaboration the Key to DER Ben Williams, PowerNet	Do Renewables Actually Reduce Carbon Emissions? An Overview of the Emissions Trading Scheme and How We Contribute to Net Zero Kieran Kennedy, ElectroNet Consulting	IEC61850 GOOSE and Sampled Values for Protection Replacement Providing Main and Backup, Arc Flash, Bus Zone and CB Fail Protection Stephen Hirsch, Orion NZ Ltd
3.00pm	EVSE and EV charging efficiency and OCPP compliance Dr. Sadeeshvara Silva, University of Canterbury	Data-driven network planning: using smart meter data to manage transformer loading, hosting capacity and validate LV topology Brad Smith, Gridsight	Two Stages MCDM-GIS Analysis of Optimal Solar Site Selections: A Case study for Hawkes Bay Rizki Rahayani & Prof. Nirmal Nair, University of Auckland	Advanced Auto-Reclose Techniques for the New Zealand Transmission System Maik Ufferhardt, Tesla Consultants
3 30nm				

3.30pm AFTERNOON TEA IN TECHNOLOGY EXHIBITION - SPONSORED BY TRANSNET

	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	ENERGY STORAGE	DER & NETWORK PLANNING	FUTURE CAPABILITY	POWER QUALITY/EARTHING
4pm	Can supercapacitors change the road map of renewable energy and DC Microgrids? Prof. Nihal Kularatna, University of Waikato	Harmonising Transmission-Distribution Frameworks for Grid Connection of Inverter Based Generation Nasser Faarooqui & Soumen Betal, ElectroNet Consulting	Kaimahi Ora: Developing an integrated approach to workplace mental health and wellbeing at Orion Taraia Brown, Orion NZ Ltd	Proactive PQ for Improved Grid Performance William Howe, Electric Power Research Institute - Epri & Robin Pittwood, Powerco
4.30pm	Distributed batteries providing reserves Eric Pyle, Solarzero	Is New Solar Technology the Answer for a Net Zero Carbon Energy Future? Emma Lloyd, Connetics Ltd	The Electricity industry caused me to stumble into a new cultural perspective Ray Young, PSC NZ Ltd	Future direction of harmonic allocation in NZ Dr. Muhammad Ramzan & Dr. Victor Lo, Transpower
5pm	Fires, Explosions and Arc Flash. Learnings from Battery Energy Storage installations around the world Jim Webb, ElectroNet Consulting	Connection Guidelines for Wellington Electric Train Network Nicholas Merrington, Wellington Electricity	Importance of practical experience for graduate engineers Kirill Kudinov, Connetics Ltd	Jettysoned Earth Potential Rise - A Manapouri Shock Investigation Patrick Coombe, ElectroNet Consulting & Luke Reisima, Meridian Energy

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DELIVERING A ENERGY FUTURE TE PAE, CHRISTCHURCH 27-29 JUNE 2023

Cea Electricity Engineers' Association

	THURSDAY, 29 JUNE 2023			E Electricity Engineers
	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	NET ZERO CUSTOMER	DER & NETWORK PLANNING	INFORMATION AS ENABLER	ASSET PERFORMANCE
8.30AM	Engaging consumers, enabling DERs and realising flexibility - a decade of practitioner insights in Aotearoa Jamie Silk, Climate Navigator	Understanding the engineering implications of very high levels of customer rooftop PV: a case study of a utility Russell Watson, Northpower	Getting Improved Value from PQ Data – Near- and Real-time Analysis Techniques William Howe, Electric Power Research Institute - Epri	Winding set tightening of service aged transformers Danie Oosthuizen, Genesis Energy & Dr. Wade Enright, Viva Technical Solutions
9.00am	Case Study - Delivering a Net Zero Carbon Energy Future in the workplace and business Goran Stojadinovic & Phillip Hogg, TransNet NZ Ltd	Impact of integrating solar farms on a zone substation's transformer tap changer life span in MV distribution networks Mufid Altorok, Ergo Consulting	Information Governance – The Missing Link in Asset Management Dr. Jules Congalton, Asset Dynamics Ltd	ISO55001 Asset Management Certification – what's the big deal? Eric Wolters, Powerco
9.30am	Enabling Decarbonisation Project in the South Matthew Ting, Mark Zwies & Eric Sng, PowerNet Ltd	Timing is Everything - Mitigating Connection Risks through Strategic Grid Studies Brad Henderson & Emilie Feasey, ElectroNet Consulting	Will you create a Future Fit Digital Network? Pete Armstrong, EA Networks	Are our switchrooms environments killing our equipment? Experiences with failures of cast-resin components in 36 kV Indoor switchboards Kewen Kueh, Powerco
10.00am	N-security for electric boilers – a method for expediting the decarbonisation of process heat in New Zealand Steven Wallace, Simply Energy	Network Planning in a Changing World Jonathan Chen, Counties Energy	Data-driven DSO with incomplete data: how to use & incrementally improve your network data to maximise value immediately Hugh Chan, Gridsight	'Slipping away' – an Asset Management approach to managing slope stability risks to Transmission Structures Brendon Gardner, Transpower
10:30am	MORNING TEA IN TECHNOLOGY EXHIBITION	AUDITORIUM		
10.50am	Margaret Cooney, Chief Customer Officer, Octopus Energy NZ			
11.20am	Prof. Lachlan Blackhall, Entrepreneurial Fellow and Head, Battery Storage and Grid Integration Program, Australian National University			
11.50am		James Kilty, Chief Executive, Powerco Ltd		
12.20pm		EEA Awards Ceremony		
12.40pm	LUNCH IN TECHNOLOGY EXHIBITION - SPONSORED BY TRANSNET			
	DOBSON 1	DOBSON 2 & 3	DOBSON 4	AUDITORIUM
	ENABLING DER	WORK DELIVERY	EVENT RESILIENCE	USE OF TECHNOLOGY
2.10pm	Learnings from Renewable Energy Zone developments in Australia Mark Lampard & Jackie Saunders, AECOM	Delivery of a CPP, 5 years on Karen Frew & Ryno Verster, Powerco	Securing electric utility technology systems in today's hostile threat landscape Warwick Glendenning, PBA Consulting Ltd & Boris Wilkitzki, Computer & Network Solutions Ltd	Substation Robot Leading Change in Asset Management at Tuai Alvin Li & Steve Williams, Transpower
2.40pm	Development of a Largescale Renewable Energy Microgrid Case Study Robert Sawrey & Harshal Patel, BECA	Collaboration: The Key to Success - Transpower's new Grid Services Contracts Dr. Nikki Newham, Transpower	Is your project considering climate change temperature rise? It's impact and if to mitigate it now? Colin Pearson, BECA	Optimizing Asset Location Capture: Strategies for Improved Efficiency James Roberts & Peter Elliot, Orion NZ Ltd
3.10pm	Case Study: Consumer response to pricing signals and tariffs for electric vehicles Rob Speirs & Tom Rose, Evnex	Giving a new life to interisland HVDC Pole 2 in supporting New Zealand's renewable future Stephen Butler, Transpower	Delivering Security and Reliability of Supply to our Customers Andrew Twaddle & Marlene Marx, Wellington Electricity	Stop using your imagination: How LiDAR Technology is changing the way we design substations Logan Cane, ElectroNet Consulting
3:40pm	CLOSE OF CONFERENCE IN AUDITORIUM			