



PRELIMINARY PROGRAMME As at 9 April

DAY 1: TUESDAY 27 MAY 2025

Grand Millennium Auckland

8.00am	Registration and Coffee	
	Pre-Function Area, , Grand Ballroom Level	
	Session 1 Conference Opening and Welcome	
	Millennium Ballroom, Grand Ballroom Level	
9.00am	Mihi Whakatau	
9.10am	Welcome and Housekeeping	
	TE RADAR MC	
9.15am	Welcome from CEP	
	CEP BOARD MEMBER / MIKE HOPKINS	
9.20am	Welcome to Auckland	
9.25am	The Psychology of Climate Change, Especially on Behaviour Change LORRAINE WHITMARSH DIRECTOR, CENTRE FOR CLIMATE CHANGE & SOCIAL TRANSFORMATIONS (CAST) Sponsored by Climate Change & Social Transformations (CAST)	
10.25am	Introducing a Reliable and Verifiable Net Zero Pathway LUIS FILARDI HEAD OF SUSTAINABILITY, BSI GROUP ANZ There are many regulations and sustainability schemes, which can be confusing for organizations aiming for a systemic, credible, and achievable net zero plan Accuracy and management of data, communication, board commitment, efficient governance and wider impact are essential elements to obtain compliance stakeholder's needs. BSI has launched the Net Zero Pathway (IWA42) with ISO at COP27, which is one of the 60,000 standards it has designed since its incepti BSI will share case studies, benchmarking practices and details about how organisations can systemically manage their net zero projects, plans and sustainabl actions.	
	Delegates will understand how their operations can become aligned with trusted Net Zero plans, while compliant with disclosure regulations.	

11.15am	Networking Break in the Industry Exhibition			
	Session 2a Millennium Ballroom, Grand Ballroom Level	Session 2b Coromandel Room, Level 1	Session 2c Workshop Aucklander Room, Ground Floor	
11.45am	Emissions Reduction Planning RICK LOMAX HEAD OF SUSTAINABILITY, TE WHATU ORA HEALTH NEW ZEALAND	Sth Generation Heat Networks (5GHN) RICHARD FREEBORN FOUNDER, THE KENSA GROUP Richard will introduce 5th generation heating and cooling networks, including why you might want one and where you can buy them. He will feature details of the 68 house "Tewa Banks" community housing development in Arrowtown, opened by the Housing Minister in late November, which is probably the first 5 th generation heat network in the Southern hemisphere.	Product Emissions Workshop - Fuel (Iimited to 25 people) DUSTIN COURAGE SCIENCE & ADVISORY, SECTOR LEAD, BUILT ENVIRONMENT & FINANCE, TOITŪ ENVIRONCARE ZOE BURKITT HEAD, SCIENCE & ADVISORY DELIVERY, TOITŪ ENVIRONCARE	
12.15pm	Advanced Data Analytics NIKK KING DIRECTOR, OT SYSTEMS CONSULTANT, NZ CONTROLS LTD	Beyond the Hype: Real-World Lessons in Al for Energy Management HONG LEE ENERGY CONSULTING LEAD, BRAVEGEN QUAN SUN PRINCIPAL DATA SCIENTIST, BRAVEGEN The proliferation of smart meters, expanding telecommunication networks, and rising client expectations have made data the backbone of modern energy and carbon management—yet simply collecting information is no longer enough. As datasets grow more granular and extensive, manual analysis quickly becomes infeasible, even as near real-time interventions, predictive maintenance, and detailed fault detection all become possible with robust data processing. These opportunities also introduce new challenges, including data quality issues, time-sensitive alerts, and the need for efficient workflows that turn insights into tangible action. Artificial intelligence holds tremendous promise in meeting these demands—but distinguishing genuine capabilities from marketing hype is difficult. In this presentation, we aim to provide energy managers and practitioners with practical insights into the current state of Al for energy management. We will set the scene with a quick primer on		

		anomaly detection to large language models like	
		ChatGPT. We will then introduce examples of Al	
		deployments within the energy efficiency and	
		carbon management realms and discuss what we	
		can learn from these examples and how to separate	
		real-world applications from excessive hype. We	
		will then showcase a case study detailing the	
		development, testing, and deployment of our own	
		Al tool, including the pitfalls we encountered and	
		the tangible benefits we achieved in terms of cost	
		savings, energy reductions, and operational	
		efficiencies.	
		From there, we'll share the lessons we've learned	
		about balancing human judgment with automated	
		analysis, setting realistic expectations for Al's	
		capabilities, and anticipating future developments	
		such as expanded automation and new systems	
		integration. Finally, we will offer our view on what	
		Al and related technologies have offer for energy	
		management and carbon reduction in the next few	
		years.	
12.45pm	STUDENT PAPERS	1 700.0.	
1.15pm	Networking Lunch Break in the Industry Exhibition	Proudly Sponsored	LUMEN
	Session 3a	Session 3b Workshop	Session 3c Workshop
	Millennium Ballroom, Grand Ballroom Level	Coromandel Room, Level 1	Aucklander Room, Ground Floor
2.30pm	EECA Position and Strategy	Electric Boiler Workshop	Deep Conversations About Scope 3 – Materiality,
		(limited to 25 people)	Reduction Strategies, Engagement
3.00pm	TBC	JONATHAN POOCH MANAGING DIRECTOR, DETA	(limited to 25 people)
		GLOBAL	EMMA ELBAUM MANAGING CONSULTANT, SLR
		ALELIGN GESSESE ENERGY LEAD, LUMEN	CONSULTING
3.30pm	From Consumer to Prosumer: Sharing the Benefits	This workshop explores the different types of	CHEILO MANALO SENIOR SPECIALIST, AUCKLAND
	of Rooftop Solar Energy	electric boilers such as hot water vs steam and	COUNCIL
	MOONIS VEGDANI GROUP CHIEF STRATEGY AND	electric vs electrode. It covers key feasibility	MARTA KARLIK-NEALE PRINCIPAL
	TRANSFORMATION OFFICER, COUNTIES ENERGY	considerations such as efficiency first, thermal	SUSTAINABILITY & RESILIENCE, TONKIN + TAYLOR
	SARAH ANDERSON PROGRAMME DIRECTOR,	metering, electrical capacity upgrades, water	KEVIN MANALO ASSOCIATE, ALTA
	CLIMATE CONNECT AOTEAROA	quality and treatment, and installation	Join this interactive workshop to explore the
	Counties Energy's Group Chief Strategy and	requirements. The session also dives into	complexities of Scope 3 GHG emissions. Participants will first hear about three case studies:
	Transformation Officer Moonis Vegdani will	optimising the economics of electric boilers,	port sector guidance materiality
	the state of the s		- nort cortor guidance materiality
	overview an ambitious and innovative energy-	focusing on minimising capital expenditure through	
	sharing pilot in Auckland's Franklin region, which	solutions such as hybrid systems, N electrical	assessment process,

5.00pm 6.00pm	 How these value incentives are driving conti The NZGBC is a not-for-profit whose purpose is 'all he Bobby Shen brings a background in architecture and 	nuous improvement and electrification across many Na omes and buildings in Aotearoa are green and sustainal sustainability, passionate about the improvement of bu stainability goals through their existing building portfol	Z property portfolios ole, making healthier, happier New Zealanders.' uildings. As Senior Manager of Existing Buildings his
5.00pm	- How these value incentives are driving conti The NZGBC is a not-for-profit whose purpose is 'all ho Bobby Shen brings a background in architecture and some role is to assist the industry in meeting Aotearoa's sur Keynote - Virtual	nuous improvement and electrification across many Na omes and buildings in Aotearoa are green and sustainal sustainability, passionate about the improvement of bu stainability goals through their existing building portfol	Z property portfolios ole, making healthier, happier New Zealanders.' uildings. As Senior Manager of Existing Buildings his
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	- What the research shows is the 'green prem		BERSNZ and others
	 What a 'green building' looks like in our current and future years as we process toward Aotearoa's climate goals How people have been deriving benefit from rating their buildings with rating tools, Green Star, NABERSNZ and others 		
	Come to this session to learn about:		
	for decarbonised properties to access green capital vi	at the NZGBC has worked with the finance sector over in the NZGBC's 'Guidance on Green Building Ratings for ding sales and rentals in JLL's 'Turning Green to Gold' re	Sustainable Finance'. There has also been some
	consumption compares to others via a benchmark. As	t enable building owners, their property managers, and sthird-party verified tools, they are well received by the are benefits offered to those who verify their building	e finance sector; banks and investors are hungry for
		so benefits from the lower demand from buildings whe	
	NZGBC	great opportunity to continuously decarbonise, not on	by reducing emissions and energy use, but also to
4.30pm	Millennium Ballroom, Grand Ballroom Level The Value of Sustainable Buildings – The Realised Be	enefits of Rating Energy Efficiency in Sales/Rental Valu	e
	Session 4 Panel		
4.00pm	Networking Break in the Industry Exhibition		
4.00	Aotearoa New Zealand's energy transition.		
	sharing to empower communities and accelerate		participate in each discussion.
	Ake and other partners - in bringing this pilot to life. Together, they will unpack the potential of energy-		with all attendees having the opportunity to
	of collaboration – between Counties Energy, Ara	flexibility markets.	to answer strategic questions on Scope 3 emissions
	Aotearoa, Sarah Anderson, will discuss the key role	rates and PPAs, and participating in demand	Speakers will then facilitate small group discussion
	solar electricity can share or gift excess energy to others. Programme Director of Climate Connect	reduce operational costs, including solutions such as spot market exposure, leveraging retailer special	 Auckland Council Healthy Waters embodied carbon strategy.

Millennium A	Registration and Coffee	
	Session 5	
	Millennium Ballroom, Grand Ballroom Level	
9.00am	Housekeeping	
	TE RADAR MC	
	Session 6a Workshop	Session 6b Workshop
	Millennium Ballroom, Grand Ballroom Level	Aucklander Room, Ground Floor
9.05am	New Zealand's Pathway to 110% Renewable Electricity Generation by 2035	Product Emissions Workshop - Food Products
	AL YATES CEO AND CO-FOUNDER, ECOTRICITY	(limited to 25 people)
	New Zealand's official renewable electricity generation target is 100% by 2035,	ALIREZA MOKHTAR ENERGY & CARBON CONSULTANT, PATHWAY2050
	but we believe the country should be shooting for 110%. By having an	ABBAS TAMADON LEAD OF LCA & CIRCULAR ECONOMY, PATHWAY2050 The CEP conference workshop, hosted by PathWay2050, will focus on life cycle
	oversupply of renewable energy, we can provide grid security when renewable	assessment and product carbon footprint of food products. In 60 minutes,
	assets underperform, and this will ultimately bring down the cost of electricity for everyday consumers. Achieving this goal will require a shift in industry	participants will explore these concepts through a case study in New Zealand's
	mindset, innovative use of existing assets, and significant investment in	food industry, engaging in collaborative assignments and teamwork. This
	emerging technologies. This presentation will explore key strategies to enable	interactive session aims to enhance understanding of sustainability metrics an
	this transition, drawing on global examples and local opportunities.	their practical applications within the industry, fostering skills to practically
	A crucial element is the transformation of the electricity sector's mindset. By	assess environmental impacts. Join us to learn, collaborate, and contribute to
	examining rapid solar deployment in China and other leading markets, we can	greener future.
	adopt best practices to accelerate our own transition. New Zealand is currently	
	lagging in rooftop solar adoption, with only 3% penetration compared to an	
	OECD average of 20%. We must reassess our policy settings to drive significant	
	growth in this area.	
	Wind and solar generation must expand significantly to meet growing energy	
	demand. Distributed generation, particularly rooftop solar, can enhance both	
	grid and consumer resilience in the face of increasing climate-related	
	disruptions. Furthermore, the integration of home solar batteries and vehicle-	
	to-grid (V2G) technologies can play a critical role in flattening daily energy demand peaks, reducing reliance on fossil fuel-based generation during peak	
	periods.	
	Once our renewable energy assets have expanded and technology adoption has	
	increased, we can transition our hydroelectric assets from daily use to	
	functioning as intra-seasonal energy storage, optimizing water usage to balance	
	seasonal variability. This presentation will outline practical pathways to	
	achieving 110% renewable electricity generation, considering policy	
	frameworks, investment opportunities, and technological advancements. By	
	adopting a forward-thinking, multi-faceted approach, New Zealand can not only	
	meet but exceed its energy goals, enhancing global competitiveness. Achieving	
	110% renewable generation would position New Zealand as an attractive	
	destination for industries seeking to decarbonize, such as aluminium smelters	
	and data warehouses, further boosting economic growth.	

9.35am	Why this topic is of interest and value to delegates: Trenewable energy in New Zealand is a timely and pres professionals, policymakers, and energy consumers all provide delegates with actionable insights into how mevolution, and technological innovation can drive the energy sector. The session will also highlight the role of emerging tectutilizing home solar batteries and EV-based V2G systems stability and energy affordability. Given the increasing related disruptions, as well as the instability of energy how distributed energy resources can enhance resilier and trials already taking place within NZ and globally, to delegates. We are at a crossroads, both within New Zealand, and future for energy generation. We aim to showcase an will transform New Zealand into a green energy desting leave with a clearer understanding of the opportunities associated with achieving 110% renewable generation knowledge to contribute meaningfully to New Zealand. On the Grid - How the Electricity Grid is Enabling Dec	sing issue for industry ike. This presentation will indset shifts, policy transformation of our thnologies, especially ms in ensuring grid frequency of climate- pricing, understanding nce, referencing projects will be of critical interest globally in terms of the alternative pathway that nation. Attendees will es and challenges n, equipping them with the d's energy future.	
10.20am	On the Grid - How the Electricity Grid is Enabling Decarbonisation MATT WEBB EXECUTIVE GENERAL MANAGER GRID DEVELOPMENT, TRANSPOWER Transpower is the national transmission power grid provider for Aotearoa. Transpower's nationwide grid can provide a boost to renewables adoption via connection of the large number of currently proposed renewable wind and solar developments but comes with a number of challenges if supply reliability and security are to be maintained for all customers during the transition to renewables. Matt Webb, Executive General Manager Grid Development will provide perspective on the areas focus areas for Transpower as well as insights from his previous role working on Renewable Energy Zone proposals in Australia. MEET THE EXHIBITORS – 2 mins each		
10.45am	Networking Break in the Industry Exhibition		
	Session 7a Millennium Ballroom, Grand Ballroom Level	Session 7b Coromandel Room, Level 1	Session 7c Workshop Aucklander Room, Ground Floor
11.15am	Electrification in C&I JESS LOW GENERAL MANAGER LARGE BUSINESS, GENESIS JEFF SMIT GENESIS	Biogas: Is Bigger Always Better? EMMA REES CHEMICAL AND PROCESS ENGINEER, BECA NATHAN HILL COMMERCIAL ANALYST, POWERCO in regions where similar industries dominate. With every challenge comes opportunity, and in this case the opportunities are plenty! In taking a	Managing Climate Risk: A Practical Workshop for Businesses and Asset Owners (limited to 25 people) GUI BERRINGER TEAM LEADER – BUSINESS SOLUTION TEAM, EKOS KĀMAHI JAMES HUGHES TECHNICAL DIRECTOR: CLIMATE AND RESILIENCE, TONKIN + TAYLOR

		collaborative approach to feedstock generation, there is the opportunity to increase the scale of biogas / biomethane production, share similar resources and utilities, engage wider community partners and co-ordinate to balance the feedstock provision. This presentation will assess the opportunity of feedstock co-operation for biogas development and discuss some the unique challenges to overcome. Powerco and Wood Beca will bring their particular perspectives to highlight how partnership drives for better outcomes.	Businesses and asset owners face increasing challenges in managing climate risk, as extreme weather events, rising temperatures, and shifting environmental conditions place growing pressure on essential services. At the same time, the transition to a low-emissions economy presents its own risks and opportunities, with regulatory changes, shifting market dynamics, and evolving stakeholder expectations reshaping investment and operational landscapes. This workshop will equip participants with the knowledge and tools to assess, plan for, and
11.45am	Port of Auckland - Transition to Electrification: Why, How, When and Future Resilience SIMONNE ELLIOT SENIOR SUSTAINABILITY SPECIALIST, PORT OF AUCKLAND Port of Auckland Limited (POAL) has charted a path for zero emissions by 2050 via electrification. Adopting this target required POAL to review its electrical masterplan, considering increased demand, climate related risks and resilience. This process identified several interesting challenges and opportunities that will be discussed in the presentation. POALs electrification and resilience journey has commenced with the operationalising of an electric tug and an electric container hoist, as well as the installation of a solar array, the learnings from which will also be discussed.	TBC	respond to both physical and transition climate risks. We will explore key frameworks for climate risk assessment, including scenario analysis and include some hands-on activities which will offer practical insights into effective climate risk management. By the end of the session, attendees will have a clearer understanding of climate-related risks which will support them in ensuring their assets and operations remain viable and fit for the future.
12.15pm	A Sustainable Future for Macrae's: The Role of Renewable Energy and Hydrogen in Mining and Post Closure DANIEL JELFS ENERGY ENGINEER, OCEANA GOLD This presentation explores how OceanaGold's Macraes Operation can transition toward renewable energy and green hydrogen to reduce emissions and improve energy efficiency. It assesses the feasibility of integrating solar and wind power, hydrogen production, and the use of its oxygen byproduct in ore processing. A staged implementation strategy is outlined, considering both operational benefits and post-mine closure opportunities. The session will	A Practical Journey into New Zealand's First Commercial-Scale Anaerobic Digestion Facility and Its Role in the Renewable Transition ANDY BEDFORD NORTH ISLAND MANAGER, ECOGAS SHAUN GOLDSBURY CEO, BRAVETRACE Ecogas' Reporoa commercial-scale Anaerobic Digestion (AD) facility is transforming 75,000 tonnes of organic waste annually into renewable electricity, biomethane, and biofertiliser. This session, led by Ecogas and BraveTrace, explores how biomethane supports the renewable transition, from production to certification. Learn about the AD process, its	

	also discuss economic viability, policy incentives, and how Macraes can serve as a model for sustainable mining in New Zealand. By leveraging these technologies, Macraes can contribute to national net-zero goals while ensuring long-term industry resilience. environmental and economic benefits, challenges, and future opportunities—including the role of New Zealand Energy Certificates (NZ-ECs) in tracking and certifying renewable gas. Gain insights into New Zealand's decarbonisation journey and how innovative solutions like Ecogas are driving the circular economy.	
12.45pm	Networking Lunch Break in the Industry Exhibition Proudly Sponsored by: LUMEN	
	Session 8 Millennium Ballroom, Grand Ballroom Level	
2.00pm	Student Prizegiving	
2.05pm	Al Energy Demand and Sourcing ANDREW GREEN DIRECTOR OF DATA CENTRES, DATACOM	
2.35pm	Space Weather ANDREW RENTON SENIOR PRINCIPAL ENGINEER, TRANSPOWER	
3.05pm	Building Utility Scale Solar in New Zealand GARY HOLDEN MANAGING DIRECTOR, LODESTONE ENERGY The challenges, barriers and critical success factors to developing a 5% market share of large-scale solar generation that is directly sold to energy consumers. Mr. Holden will cover the financial challenges of raising debt, securing equity, the consenting process and the key methodologies of creating a credible long-term alternative to traditional electricity contracts.	
3.35pm	Conference Reflections / Wrap up	
3.40pm	Conference Close	

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