



PRELIMINARY PROGRAMME As at 30 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) In this talk, I will argue that most of the measures required to reach our climate change targets require at least some degree of behaviour change. And that more broadly, social transformation is required to reach 'net zero' carbon targets in the coming years. In order to achieve this, we need public engagement and participation in decision-making about what a low-carbon future looks like, and how to reach it. We also need a wide range of measures to change people's behaviour at home, work and elsewhere. I will present findings from polls and citizens assemblies on public concern about climate change, and support for net zero policies; and from behavioural science research on how to effectively change behaviour to cut emissions.			
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 and 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 inception. BSI will share case studies, benchmarking practices and details about how organisations can systemically manage their net zero projects, plans and sustainable actions.			

	Delegates will understand how their operations can be	pecome aligned with trusted Net Zero plans, while com	pliant with disclosure regulations.		
.0.55am	MEET THE EXHIBITORS – 2 MINUTES				
l1.15am	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	Health New Zealand's Emissions Reduction Approach RICK LOMAX HEAD OF SUSTAINABILITY, TE WHATU ORA HEALTH NEW ZEALAND Health New Zealand Te Whatu Ora is committed to integrating sustainability into healthcare, with emissions reduction as one of four key priorities. This presentation will outline Health NZ's environmental sustainability and climate change approach, detailing where emissions reduction fits within broader health sector goals and our established targets. Sharing the complexity and scope of our emissions — both measured and unmeasured emissions — and review progress made through key initiatives, including eliminating coal usage, transitioning to cleaner energy sources, enhancing energy efficiency, and optimising our fleet. Sharing some lessons learned to date. Looking ahead, the presentation will share longer- term opportunities to further reduce emissions in publicly funded healthcare, emphasising prevention and early intervention. The session will also outline Health NZ's priorities, opportunities, and proposed actions over the next three years to drive meaningful emissions reductions while delivering high-quality healthcare.	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: Biofuels / Fuels (limited to 25 people) DUSTIN COURAGE SCIENCE & ADVISORY, SECTOL LEAD, BUILT ENVIRONMENT & FINANCE, TOITŪ ENVIROCARE STEVE SCHOULTZ SUSTAINABILITY SPECIALIST, TOITŪ ENVIROCARE The Bioenergy Association of NZ and Toitū have developed product carbon footprint guidance for Gaseous Biofuels in NZ. The workshop will introduce the biofuels guidance based on international renewable energy certificate schemand low carbon fuel standards. All fuels have product related carbon emissions from upstream indirect activities and downstream use phase. Producers and users of fuels should understand the product lifecycle emissions to enable organisational carbon reporting and highlight reduction opportunities. This workshop will apply LCA principles to understand product carbon footprints of fuels and highlight the opportunities of low carbon fuels to reduce organisational emissions.		
12.15pm	Advanced Data Analytics NIKK KING DIRECTOR, OT SYSTEMS CONSULTANT, NZ CONTROLS LTD	Beyond the Hype: Real-World Lessons in AI for Energy Management HONG LEE ENERGY CONSULTING LEAD, BRAVEGEN VAIBHAV CHOUDHARY ENERGY ANALYST,			
		BRAVEGEN In this presentation, we aim to provide energy managers and practitioners with practical insights into the current state of AI for energy management.			
		we will set the scene with a quick primer on relevant AI and machine learning techniques—from			

		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.			
12.45pm	STUDENT PAPERS				
		ion: Impacts on New Zealand's Electricity Market JA	CK O'LEARY		
	Tanada nama ana ana ana ana ana ana ana ana a	,, ,, ,, ,, ,, ,, ,, ,			
	Embodied Carbon Unveiled: A Life Cycle Assessment	of Aotearoa New Zealand's Evolving Electricity System	m MAOXING LIU		
	Carbon Price Volatility in the New Zealand Emission Trading Scheme YUDOU YANG				
	A Techno-Economic Analysis of Hybrid Industrial Boiler Systems MATTHEW TAYLOR				
	A New Zealand Heat Atlas: A Regional Breakdown of	f Residential Heat Demand and Associated Emissions	HANNAH KONINGS		
1.15pm	Networking Lunch Break in the Industry Exhibition Proudly Sponsored by: LUMEN				
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	Session 3a	Session 3b Workshop	Session 3c Workshop		
	Session 3a Millennium Ballroom, Grand Ballroom Level	Session 3b Workshop Coromandel Room, Level 1	Session 3c Workshop Aucklander Room, Ground Floor		
2.30pm		-	· · · · · · · · · · · · · · · · · · ·		
2.30pm	Millennium Ballroom, Grand Ballroom Level	Coromandel Room, Level 1	Aucklander Room, Ground Floor		
	Millennium Ballroom, Grand Ballroom Level	Coromandel Room, Level 1 Electric Boiler Workshop	Aucklander Room, Ground Floor Deep Conversations About Scope 3 – Materiality,		
-	Millennium Ballroom, Grand Ballroom Level EECA Position and Strategy	Coromandel Room, Level 1 Electric Boiler Workshop (limited to 25 people)	Aucklander Room, Ground Floor Deep Conversations About Scope 3 – Materiality, Reduction Strategies, Engagement		
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	BOBBY SHEN SENIOR MANAGER - EXISTING BUILDINGS, NZ GREEN BUILDING COUNCIL More energy efficient buildings not just reduce emissions and ease pressure on the struggling electricity grid, it also provides tremendous value for owners and			
	users.			
	Green Star Performance and NABERSNZ are widely used to benchmark performance on a range of building types. The NZ Green Building Council's (NZGBC)			
	recent 'Guidance on Green Building Ratings for Sustainable Finance' sets out how these third-party verifications relate to sustainable finance.			
	With growing evidence of the value of green certified buildings, such as JLL's 'Turning Green to Gold' report based on the latest transactional data, there is a			
		=	·	
	huge opportunity to realise sales and rental premiums	s, and gain access to sustainable finance.	,	
	Hear how to access these benefits in buildings and be	s, and gain access to sustainable finance.	· 	
5.00pm	Hear how to access these benefits in buildings and be Keynote - Virtual	s, and gain access to sustainable finance. yond.	· 	
5.00pm	Hear how to access these benefits in buildings and be Keynote - Virtual PETER SWEATMAN CHIEF EXECUTIVE & FOUNDER,	s, and gain access to sustainable finance. yond. CLIMATE STRATEGY & PARTNERS		
5.00pm	Hear how to access these benefits in buildings and between Keynote - Virtual PETER SWEATMAN CHIEF EXECUTIVE & FOUNDER, Peter's presentation will address the latest development	s, and gain access to sustainable finance. yond. CLIMATE STRATEGY & PARTNERS ents in finance for buildings renovation in Europe. Star	ting from the current new regulatory frame define	
5.00pm	Hear how to access these benefits in buildings and beta Keynote - Virtual PETER SWEATMAN CHIEF EXECUTIVE & FOUNDER, or peter's presentation will address the latest development by the Energy Efficiency Directive and Buildings Performance of the performance	c, and gain access to sustainable finance. yond. CLIMATE STRATEGY & PARTNERS ents in finance for buildings renovation in Europe. Star mance Directive, the presentation will look specificall	ting from the current new regulatory frame define y at the clauses which cover finance. Residential	
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DAY 2: WEDNESDAY 28 MAY 2025

9.05am 9.35am	New Zealand's Pathway to 110% Renewable Electricity Generation by 2035 AL YATES CEO AND CO-FOUNDER, ECOTRICITY This presentation outlines a bold vision for New Zealand to exceed its 100% renewable energy target and reach 110% by 2035. It explores how an oversupply of clean energy can enhance grid resilience, reduce electricity costs, and attract industry from overseas. Delegates will gain insights into mindset shifts, policy reforms, and emerging technologies needed to accelerate this transition and future-proof Aotearoa's energy system. On the Grid - How the Electricity Grid is Enabling Decarbonisation MATT WEBB EXECUTIVE GENERAL MANAGER GRID DEVELOPMENT,		Product Emissions Workshop - Food Products (Ilimited to 25 people) ALIREZA MOKHTAR ENERGY & CARBON CONSULTANT, PATHWAY2050 ABBAS TAMADON LEAD OF LCA & CIRCULAR ECONOMY, PATHWAY2050 The CEP conference workshop, hosted by PathWay2050, will focus on life cycle assessment and product carbon footprint of food products. In 60 minutes, participants will explore these concepts through a case study in New Zealand's food industry, engaging in collaborative assignments and teamwork. This interactive session aims to enhance understanding of sustainability metrics and their practical applications within the industry, fostering skills to practically	
10.20am	Transpower is the national transmission power grid p Transpower's nationwide grid can provide a boost to connection of the large number of currently proposed solar developments but comes with a number of chal and security are to be maintained for all customers de renewables. Matt Webb, Executive General Manager provide perspective on the areas focus areas for Tran from his previous role working on Renewable Energy Australia.	renewables adoption via d renewable wind and lenges if supply reliability uring the transition to Grid Development will spower as well as insights	assess environmental imp greener future.	acts. Join us to learn, collaborate, and contribute to a
10.20am 10.45am	MEET THE EXHIBITORS – 2 mins each Networking Break in the Industry Exhibition			
	Session 7a Millennium Ballroom, Grand Ballroom Level	Session 7b Coromandel Room, Level 2	1	Session 7c Workshop Aucklander Room, Ground Floor
11.15am	Electrification in C&I TAHIR TARIQ SENIOR MANAGER - C&I SALES, GENESIS ENERGY JEFF SMIT PRINCIPAL STRATEGY ADVISOR, GENESIS ENERGY TOM NEWITT SPARK In today's energy market, the journey toward decarbonisation requires genuine partnership	Biogas: Is Bigger Always Be EMMA REES CHEMICAL A BECA NATHAN HILL COMMERCE Powerco and Wood Beca h together to explore a region one that transforms organienhances local waste management of the statement of	CIAL ANALYST, POWERCO have been working onal biogas ecosystem— ic waste into energy,	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 Businesses and asset owners face increasing challenges in managing climate risk, as extreme
	between retailers and customers. The Genesis team will share market insights and innovative approaches creating mutual value through this transition, including how collaborative solutions provide customers with supply and price certainty across thermal fuels and electricity. Genesis and our PPA partner Spark will highlight lessons from the Lauriston solar project - demonstrating how strategic partnerships can accelerate	resilience, and maximises so bringing together councils, energy, and agricultural se feedstock, scale up product as a mainstream energy so This presentation examine off in New Zealand, why the we can overcome key chall	shared resources. By industry, and the waste, ctors, we can aggregate ction, and establish biogas plution. s why biogas hasn't taken nat's changing, and how	weather events, rising temperatures, and shifting environmental conditions place growing pressure 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.

12.45pm	these technologies, Macraes can contribute to national net-zero goals while ensuring long-term industry resilience. Networking Lunch Break in the Industry Exhibition	certifying renewable gas. Gain insights into New Zealand's decarbonisation journey and how innovative solutions like Ecogas are driving the circular economy. Proudly Sponsored in the control of the co	by: LUMEN
	these technologies, Macraes can contribute to national net-zero goals while ensuring long-term industry resilience.	Zealand's decarbonisation journey and how innovative solutions like Ecogas are driving the circular economy.	
	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 also discuss economic viability, policy incentives, and how Macraes can serve as a model for sustainable mining in New Zealand. By leveraging	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 environmental and economic benefits, challenges, and future opportunities—including the role of New Zealand Energy Certificates (NZ-ECs) in tracking and	
·	Renewable Energy and Hydrogen in Mining and Post Closure DANIEL JELFS ENERGY ENGINEER, OCEANA GOLD This presentation explores how OceanaGold's	Commercial-Scale Anaerobic Digestion Facility and Its Role in the Renewable Transition ANDY BEDFORD NORTH ISLAND MANAGER, ECOGAS	
11.45am	Port of Auckland - Transitioning 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. A Sustainable Future for Macrae's: The Role of	collaboration isn't just beneficial—it's essential to unlocking renewable gas's full potential. From forest to furnace: NZ's biomass potential OLIVER HOWITT RETA PROGRAMME LEAD EECA New Zealand industries are facing challenges with the affordability and security of energy supply. Part of the solution for industrial process heat is woody biomass, which will create a market for residual and low value forestry material. This presentation will share insights on NZ's biomass potential, from both supply and demand perspectives. Information from EECA's RETA programme and other activities will be leveraged to show a pragmatic view of the opportunity, and provide insights on the barriers facing the developing market. A Practical Journey into New Zealand's First	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 whill support them in ensuring their assets and operations remain viable and fit for the future.

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
	Until the "Gannon" storm of May 2024 you may never have considered that space has weather, or thought about how it may impact the system and infrastructure
	we rely on in our modern world.
	This discussion will help you get to grips with what it is, how it could impact us, why it is important to be prepared, our resilience and what we're doing to prepare
	and how you can help reduce the impact of a space storm.
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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