

PRELIMINARY PROGRAMME As at 3 May 2024

DAY 1: TUESDAY 28 MAY 2024

Christchurch Town Hall, Christchurch

TE RADAR | CONFERENCE MC Te Radar appears by arrangement with Johnson & Laird Management

8.00am	Registration and Coffee			
	Ground Floor Foyer			
	Session 1 Conference Opening and Welcome			
	Limes Room, Level 1			
9.00am	Mihi Whakatau			
	DAVE BRENNAN			
9.10am	Welcome and Housekeeping			
	TE RADAR MC			
9.15am	Welcome to Christchurch			
	MAYOR PHILIP MAUGER MAYOR OF CHRISTCHURCH			
9.20am	Welcome from CEP			
	CEP BOARD MEMBER / MIKE HOPKINS			
9.25am	Title TBC			
	BRIAN MOTHERWAY HEAD OF THE OFFICE OF ENERGY EFFICIENCY AND INCL	USIVE TRANSITIONS, INTERNATIONAL ENERGY AGENCY		
10.25am	Scaling-Up Renewable Gas Production and Use in Aotearoa			
	BEN GERRITSEN GENERAL MANAGER CUSTOMER AND REGULATORY, CLARUS			
	The presentation will outline a vision of how biomethane and hydrogen could meet domestic demand for gas by 2050, focusing on near to medium term scale-			
	opportunities. What feedstocks are available to supply production facilities? What are the main use cases for renewable gas in New Zealand and how might			
	these uses evolve over time? What are the main policy and commercial barriers	to growing the industry to help achieve our net zero 2050 target?		
10.50am	MEET THE EXHIBITORS			
11.10am	Networking Break in the Industry Exhibition			
	Ground Floor Foyer			
	Session 2a	Session 2b Panel		
	Limes Room, Level 1	Victoria Room, Level 1		
11.40am	A Net-Zero Carbon Concrete Industry: A Sustainable Future for the World's	Lessons Learned and Best Practice for Heat Pump Integration – Panel		
	Most Widely Used Construction Material	JONATHAN POOCH MANAGING DIRECTOR, DETA		
	ROB GAIMSTER CHIEF EXECUTIVE OFFICER, CONCRETE NZ	MATT MARSHALL CHEMICAL AND PROCESS ENGINEER, DETA		

	The New Zealand concrete industry has unusited its	transformative 2050		DINIC MANIACED ENERCY NO	
	The New Zealand concrete industry has unveiled its		(TIMINGS PROCESS	RING MANAGER, ENERGY NZ	
	roadmap, outlining a plan to achieve net-zero carbon emissions and drive sustainability. This paper offers valuable insights for carbon and energy			-	
	professionals on the ambitious but achievable decar		ADRIAN DICKISON TECHNICAL FELLOW, BECA This panel builds upon the workshop from CEP23 (Identifying heat pump opportunities), as a session on lessons learned and reflections from real-wor heat pump projects. This interactive panel, discussion and workshop will cove		
	face of the pressing climate crisis, the concrete indus				
	mitigation and adaptation efforts. The roadmap emphasizes collaboration with all construction stakeholders, carbon and energy professionals included, to		the following:		
	translate vision into reality. Together, we can work t		Preliminary and detailed design.		
	future, where concrete help to reduce carbon emiss	ions and build a resilient	Equipment speci	fication.	
	world.		Integration.		
12.10pm	Finding A Way to Decarbonisation – Eradicating Fos	sil Fuel Derived Process •	Operation and op		
	Heat	•		ure of heat pump technology	
	ROSS GODKIN NATIONAL MANUFACTURING MAN			ed to bring questions and join	
	Showcasing the real-world application of overcoming	g the challenges involved pane	ellists share their expe	erience and thoughts from de	livering projects acros
	in moving away from fossil fuel derived Process Heat	to renewable energy. It New	/ Zealand.		
	involves our journey of investigating like-for-like repl	acement, then downsizing			
	of process heat peak demand, by thinking differently. This resulted in changing				
	how we mode the operation which reduced peak energy demand from 1.3				
	MW to 200KW to work within our existing supply cap	pacity.			
12 10pm					
12.40pm	STUDENT PAPERS				
12.40pm	STUDENT PAPERS Intelligent Knowledge-Based Decision Support Syste	em for Assessing the Data Quality	Assurance of Enviror	nmental Product Declaration	for Whole Building Li
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12.40pm	Intelligent Knowledge-Based Decision Support Syste				for Whole Building Li
12.40pm	Intelligent Knowledge-Based Decision Support Syste Cycle Assessment OLUDOLAPO OLANREWAJU	ke in Aotearoa New Zealand: An E	nergy Cultures Frame	ework Analysis ANI BARR	-
12.40pm	Intelligent Knowledge-Based Decision Support Syste Cycle Assessment OLUDOLAPO OLANREWAJU Investigating Slow Ground Source Heat Pump Uptak Physically-Motivated Approach to Incorporating Sol	ke in Aotearoa New Zealand: An E ar Gain Into A Data-Driven Mode	inergy Cultures Frame	ework Analysis ANI BARR	-
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	firsts and world firsts, with tireless project teams who need to be celebrated. This year, EECA has been gathering data and insights across completed decarbonisation projects so we can share patterns and lessons with the industry. This presentation will cover some of those insights. It will also share RETA data, modelling and information that has become evident with reports complete across all South Island regions. This includes changing fuel and abatement profiles, improving project economics, and better information about future energy needs and locations. Lastly, we will share work EECA has been doing to refresh its strategy, including electrifying New Zealand and empowering energy users.	practices in New Zealand. Jean-Philippe provides an overview of Green IT's challenges and opportunities, emphasizing its pivotal role in conserving resources and curbing GHG emissions, projected to surpass car emissions by 2025. Delve into real-world successes like the Hawke's Bay Regional Council pilot, showcasing tangible outcomes in addressing environmental challenges while reducing operational costs. Explore disruptive technology, energy-efficient computing, eco-design, and sustainable procurement practices. Discover how to leverage unparalleled data store to drive sustainability in IT operations. Gain valuable insights into regulatory frameworks, drawing parallels with European policies.	Evolving societal, economic, environmental and regulatory expectations in NZ will see asset managers and infrastructure professionals becoming connectors and operational implementers of sustainable strategies as carbon & asset management are woven together. This workshop invites you to explore the introduction of indigenous approaches alongside traditional methodologies to support sustainable infrastructure decision making and lifecycle investment. We hope you will share knowledge and challenges on your own journey and we aim to leave you feeling enlightened about how to place reasonable expectations on asset management and climate adaptation teams alike. The workshop promises a progressive learning journey, culminating in personal commitments to
2.30pm	Offshore Wind National Impacts Study AARON WEBB DIRECTOR, PWC The National Impact Study for the New Zealand offshore wind industry provides a comprehensive analysis of the potential economic, environmental, energy, and community impacts of developing offshore wind farms in New Zealand. In this session, we explore the future uptake scenarios for offshore wind and the important role it can play in the transformation of our energy system and economy. We explore the energy trilemma outcomes of incorporating offshore wind in our energy mix - including security of supply, decarbonisation, and affordability – and the outcomes for local communities, Māori, and the natural environment. Find a copy of the report <u>here</u> .	The Role of Data Centres in Reducing Carbon Impact ANDREW GREEN ASSOCIATE DIRECTOR DATA CENTRE BUSINESS, DATACOM Data centres are regularly in the news for their massive use of energy, but they're not the enemies of decarbonisation that they might at first seem. Andrew will take you through the growth and changes he has seen in the industry, and a few that we think are coming, as well as what data centre operators are constantly doing to reduce the impact of their operations, in turn enabling the reduction of the carbon footprint of their customers.	sustainable excellence. Join us to lead New Zealand towards a low-carbon future through this powerful exchange of knowledge and collaborative innovation.
3.00pm	A Practical Example of How Energy Users and Producers Can Collaborate to Best Support Renewable Energy in New Zealand (featuring BraveTrace, Lodestone Energy and The Warehouse Group) SHAUN GOLDSBURY CEO, BRAVETRACE OLIVIA BARCLAY SUSTAINABILITY PARNTER, THE WAREHOUSE GROUP SARAH MCHARDY GENERAL MANAGER - CUSTOMER, LODESTONE ENERGY	Decarbonising Covered Crop Vegetable Growers in New Zealand ELLERY PETERS ENERGY ENGINEER, VEGETABLE NEW ZEALAND A targeted decarbonisation pathway for covered crop growers began in 2019 because it was identified that these vegetable growers needed support to decarbonise and future-proof their industry. This presentation will cover the decarbonisation pathway and the new technologies	

5.25pm – 7.30pm	Networking Function in Industry Exhibition Proudly Sponsored by: Ground Floor Foyer FCDD		
6.00pm	HON. SIMON WATTS MINISTER FOR CLIMATE CHANGE AND REVENUE		
5.20pm	Day's Wrap and Invitation and Welcome to Networking Drinks		
	some of the work we now need to do as a nation to make electrification easy for everyone. New Zealand will be the first fully electric economy if we all work together to make it happen.		
	Electrification is the low-hanging fruit of our national emissions. Rewiring Aotearoa released an Electric Homes report which outlines the true economic benefit of electrifying all machines in our homes as well as the incredible emissions reductions. Join Mike as he steps through the economic benefits for our homes and		
	MIKE CASEY CHIEF EXECUTIVE, REWIRING AOTEAROA		
4.45pm	Electrification Is the Win-Win for All New Zealanders		
4.00pm	Infrastructure Panel		
	Limes Room, Level 1		
	Session 4 Panel		
5.50pm	Ground Floor Foyer		
3.30pm	outcomes. A short Q&A session will follow. Networking Break in the Industry Exhibition		
	renewable energy generation, and carbon		
	mechanics, how this incentivises increased		
	insights on deal origination, arrangement		
	generated from Lodestone. All parties aim to share		
	Warehouse Group sites matches the solar energy cropping industry.		
	will verify that electricity consumed at The major and unique challenges facing the covered		
	solar plants by 2026. Through the use of Newof low temperature geothermal in vegetableZealand Energy Certificates (NZ-ECs), BraveTracegrowing. The final discussion point will be on the		
	over 260 sites across Aotearoa with Lodestone's into a discussion on fuel switching and the potential		
	signed a landmark long-term deal, aiming to power Zealand to improve energy efficiency. This will lead		
	The Warehouse Group and Lodestone Energy have being implemented in greenhouses across the New		

DAY 2: WEDNESDAY 29 MAY 2024

Christchurch Town Hall, Christchurch

8.30am Registration and Coffee				
	Session 5			
	Limes Room, Level 1			
9.00am	Housekeeping			
	TE RADAR MC			
9.05am	A Circular Approach to Recycling in Aotearoa's Energy Sector			
	HILARY WEST-REEVE EXECUTIVE DIRECTOR AND CHIEF SUSTAINABILITY O			
	Decarbonising Aotearoa starts with our energy infrastructure; as we upgrade			
	materials. As demand for metals and minerals such as lithium, nickel, cobalt			
	from New Zealand? Circularity and decarbonisation are closely interconnect			
	manufacturing of the future. By delivering recycled materials as an alternati	•		
	profile to deliver these recycled materials; material by material, project by p outcomes.	roject interrogates the methodo	logy and the supply chain for positive climate	
9.35am		s Core Carbon Principles Deliver	ing the Next High-Integrity Chanter for VCMs	
5.55am	Delivering Integrity for The Voluntary Carbon Market: How Are the ICVCM's Core Carbon Principles Delivering the Next, High-Integrity Chapter for VCMs ANNETTE NAZARETH CHAIR - GOVERNING BOARD, THE INTEGRITY COUNCIL - VOLUNTARY CARBON MARKET (ICVCM)			
	Annette will discuss the mission of the ICVCM, our benchmark standards for			
	assess for adherence to the CCPs means for the carbon market, and those looking to purchase high-integrity CCP-labelled credits.			
10 05am	assess for adherence to the CCPS means for the carbon market, and those lo	oking to purchase nigh-integrity		
10.05am	Climate-Related Transition Planning and GHG Assurance – What You Need			
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10.05am	Climate-Related Transition Planning and GHG Assurance – What You Need & KAREN TIPPER TECHNICAL DIRECTOR – ASSURANCE, XRB JACK BISSET POLICY MANAGER – SUSTAINABILITY, XRB Aotearoa New Zealand Climate Standards are designed to encourage entities transition to a lower carbon economy. The assurance of the greenhouse gas	to Know s to measure and focus on climated disclosures increases the trust a	te related risks and opportunities and disclose their	
	Climate-Related Transition Planning and GHG Assurance – What You Need KAREN TIPPER TECHNICAL DIRECTOR – ASSURANCE, XRB JACK BISSET POLICY MANAGER – SUSTAINABILITY, XRB Aotearoa New Zealand Climate Standards are designed to encourage entities	to Know s to measure and focus on climated disclosures increases the trust a	te related risks and opportunities and disclose their	
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	A ConCOVE-funded assessment showed CEP, Civil Contractors NZ, WasteMINZ and WaterNZ are active players in sustainability skills identification, prioritisation, development and delivery. But despite the high value government places on their input, the power of these associations to spearhead the development of scarce and economically vital environmental skills goes unnoticed and untapped. A little money would go a long way towards enabling them to deliver significantly more training. Phase 2 of the project will prepare a business case for funding this.	Currently, each year Counties Manukau consumes around 60GWh of energy, from both electricity and gas and emits around 10,000 tonnes of CO ₂ . By 2025, the collective energy efficiency initiatives underway at Middlemore Hospital, Manukau Health Park, and Pukekohe Hospital are projected to slash emissions by approximately 4,700 tonnes annually, constituting roughly 47% of total emissions.	Targeting operational managers and sustainability leaders, this workshop will address common challenges preventing commercial technology deployments from achieving desired efficiency gains, such as poor system design, lack of strategy, poor user engagement, data analysis gaps, system complexity, and incentive misalignment. Attendees will learn strategies for deploying metering, internet of things (IoT) infrastructure, productivity software, and data tools to enhance energy efficiency and sustainability, including continuous improvement cycles, data granularity, system and software
11.50am	Lessons From the Schools Coal Boiler Replacement Programme (CBRP) MARCUS BAKER MANAGING DIRECTOR, APRICUS ECO JOHN SHERIDAN THE BUILDING INTELLIGENCE GROUP MINISTRY OF EDUCATION Hear from the team delivering the Ministry of Education and EECA funded CBRP that has seen all the remaining coal boilers in NZ schools removed, replaced with renewable pellet boiler or heat pumps. We will share lessons learnt on the practical and organisational challenges at all levels of project delivery; the process for evaluating existing systems and building requirements; how the project responded with best availability technology; what opportunities for energy efficiency gains; big project wins in carbon reduction; cost per kW of installed capacity; efficiency of centralised programme administration; gains in quality control and system design standardisation; lessons learned. This will be a practical and comprehensive presentation focussed on the actual mahi of decarbonisation.	Challenges of Retrofitting Heat Pumps for Commercial Building Heating CAMERON STANLEY DETA Discusses the technical challenges associated with matching heat pump to the existing heating system, primarily due to the high heating water return temperatures that are a legacy of the original heating infrastructure.	alignment with sustainability goals, partner collaboration, and overcoming deployment obstacles. Practical takeaways include staged deployment strategies, scalability, verification, validation, and user engagement best practices.
12.20pm	Net Zero Emissions Gas Value Chain – A CredibleOpportunity for The IndustryPETER COX VICE PRESIDENT AND GLOBALSUBSECTOR LEAD, UPSTREAM ONSHORE ANDMIDSTREAM, WORLEYThe IEA predicts that gas use is likely to remain closeto peak levels for the next two decades and gas willbe the second largest contributor to total global	An Integrated Approach to Decarbonising Our Built Environment JASON BRETHERTON TECHNICAL DIRECTOR, WSP	

12.50pm	 energy supply between now and 2050. Gas is a fundamental energy source in the energy transition and will continue to be as we move towards net zero so rather than trying to eliminate gas, we need to transform the industry to become net zero. We have all of the technology today to enable this to happen so this presentation summarises what a net zero Aotearoa gas industry could look like. Networking Break in the Industry Exhibition Ground Floor Foyer 	Proud	ly Sponsored by:
	Session 7a Limes Room, Level 1	Session 7b Victoria Room, Level 1	Session 7c Workshop Avon Room, Ground Floor
2.00pm	Title TBC ANGUS JUDGE GENERAL MANAGER OPERATIONS, GENESIS ENERGY Climate change legislation sets net zero 2050 as the destination for New Zealand's transition. To achieve this, the economy will need to be 60% electrified, using 95% renewable electricity and, as always, households and businesses rightly expect that energy to be available 100% of the time. As intermittent renewable generation sources increase, these require firming during periods of low hydro, wind or solar. Genesis' strategy includes a commitment to transition Huntly Power Station to the Huntly Portfolio, a portfolio of technologies and fuels like batteries, biomass, flexible gas (as a transitional fuel) and potentially new peaking capacity to provide the flexibility the system will need to support energy reliability requirements.	Transformation of Biomass Residues into Clean Energy and High-Value Products CHRISTIAN JIRKOWSKY GENERAL MANAGER, POLYTECHNIK BIOMASS ENERGY LTD One of nature's miracles is that plants take water and carbon dioxide and transfer them, with the sun's energy, into oxygen and clean energy stored in the plant in the form of hydrocarbons and sugars. Whenever humans decide to use timber as the most sustainable and environmentally friendly building material, we are left with by-products: biomass residues, which, if used in energy plants, become one of the most abundant carbon-neutral energy sources. This presentation will give examples of common types and forms of biomass residues and show four leading technologies for utilising forest and wood processing residues for heat, power, and high-value products, including torrefied and carbonised biomass. Best practice examples from New Zealand, Australia, and overseas industry	Lifecyle Carbon Assessment Workshop (limited to 25 people) ZOE BURKITT TOITŪ ENVIROCARE STEWART MCKENZIE TOITŪ ENVIROCARE JOSEPHINE RUDKIN-BINKS ECOTRICITY Lifecycle carbon analysis allows organisations unique insights into carbon use throughout any product or service lifecycle. Workshop attendees will learn about the organisational benefits and multipliers gained through LCA processes. This session will focus on the energy sector, including circular thinking towards beneficial uses of wastes as feedstocks as well as other sources of renewable energy. We will facilitate discussion and exploration of the challenges of decarbonisation using the life cycle lens and encourage active participation from both those with organisational experience of these techniques and those new to life cycle carbon approaches.
2.30pm	Early Days Energy Transition Findings KEITH SCOLES ENERGY SOLUTIONS ARCHITECT, ORION NEW ZEALAND LTD IVAN LUKETINA ENERGY AND MARKETS INSIGHT LEAD, ORION NEW ZEALAND LTD The transition to a low-carbon economy requires a rapid electrification of various sectors, such as	leaders will complete the speech. Should We Burn the Trees? MIKE PHARO SENIOR ASSOCIATE - INDUSTRIAL SUSTAINABILITY, BECA This session will delve into the sustainability credentials of biomass as a fuel and its role in climate change mitigation. We will explore the differences between using old growth forests versus	

	transport, heating, and industry. This poses significant challenges and opportunities for network owners, who need to balance the future potential increase in demand for electricity with the diverse needs and expectations of their customers and stakeholders. In this presentation, we share our experience as a network owner in New Zealand, where we are learning about approaching our future with a new set of eyes to inform our strategic decisions initially informed by work with EECA/RETA on process heat conversions. We explain how we recognised the need for a different way of working with our customers to understand their energy journey, taking into account the factors that we needed to influence to shift our approach and at the same time, balancing this with Orion's energy journey. We also highlight the benefits of using data and ensure better outcomes can be understood and realised along with the challenges of unlocking that data. We conclude with some recommendations and insights for other network owners who are facing similar issues in the transition to a low-carbon future.	plantation forests for bioenergy, advocating for the preservation of ancient forests and sustainable harvesting of plantation forests. Then, through simplified life cycle analyses of different forest management scenarios—ranging from structural, bioenergy to permanent forestry— the session will underline how each scenario contributes to climate change mitigation. The goal of the presentation is to provide some clarity on 'good' vs. 'bad' biomass and reveal some (hopefully) unexpected findings.	
3.00pm	Cooperation Potential Between Germany and New Zealand in Decarbonizing the Manufacturing Sector FRANZISKA TEICHMANN SENIOR MANAGER AND HEAD OF THE GERMAN SECRETARIAT FOR THE ENERGY COOPERATION WITH AUSTRALIA AND NEW ZEALAND, ADELPHI The decarbonisation of the manufacturing sector is key to reaching climate neutrality in Germany by 2045. The presentation will give an update on the progress so far, successful policies, the role of hydrogen and recent innovative initiatives like the Carbon Contracts for Difference to support transformation projects of German enterprises. Through the Germany-New Zealand Energy Dialogue, the German Government supports activities to foster cooperation to advance the energy transition and decarbonisation in both Germany and New Zealand. A few recommendations for cooperation opportunities	Opportunities for Biomethane as a Substitute for Natural Gas PETER SANDSTON COMMERCIAL LEAD, FIRST RENEWABLES Biogas produced by anaerobic digestion of organic material can be upgraded to biomethane which can be a 100% drop-in replacement for natural gas. The first facility for upgrading biogas to biomethane is being built at the Ecogas Reporoa Organics Processing Facility. This presentation will explore opportunities to replicate the project with biomethane projects in other regions.	

	will be presented, that are the result of a comparative study of the manufacturing sectors in both countries.
3.25pm	Networking Break in the Industry Exhibition
	Ground Floor Foyer
	Session 8
	Limes Room, Level 1
4.00pm	Student Prizegiving
4.05pm	Title TBC
·	AL YATES FOUNDER AND CEO, ECOTRICITY
4.40pm	Conference Reflections / Wrap up
4.45pm	Conference Close

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