

PRELIMINARY PROGRAMME As at 12 April 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	Title TBC			
	BRIAN MOTHERWAY HEAD OF THE OFFICE OF ENERGY EFFICIENCY AND INCLUSIVE TRANSITIONS, INTERNATIONAL ENERGY AGENCY			
10.20am	Scaling-Up Renewable Gas Production and Use in Aotearoa			
	BEN GERRITSEN GENERAL MANAGER CUSTOMER AND REGULATORY, CLARU			
	The presentation will outline a vision of how biomethane and hydrogen could m			
	opportunities. What feedstocks are available to supply production facilities? Whether the supply production facilities are available to supply production facili	· · · · · ·		
	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?			
10.45am	MEET THE EXHIBITORS			
11.10am	Networking Break in the Industry Exhibition			
11.10am	Networking Break in the Industry Exhibition Ground Floor Foyer			
11.10am	-	Session 2b Panel		
11.10am	Ground Floor Foyer	Session 2b Panel Victoria Room, Level 1		
11.10am 11.40am	Ground Floor Foyer Session 2a			
	Ground Floor Foyer Session 2a Limes Room, Level 1 A Net-Zero Carbon Concrete Industry: A Sustainable Future for the World's Most Widely Used Construction Material	Victoria Room, Level 1		
	Ground Floor Foyer Session 2a Limes Room, Level 1 A Net-Zero Carbon Concrete Industry: A Sustainable Future for the World's Most Widely Used Construction Material ROB GAIMSTER CHIEF EXECUTIVE OFFICER, CONCRETE NZ	Victoria Room, Level 1 Lessons Learned and Best Practice for Heat Pump Integration – Panel JONATHAN POOCH DETA MATT MARSHALL DETA		
	Ground Floor Foyer Session 2a Limes Room, Level 1 A Net-Zero Carbon Concrete Industry: A Sustainable Future for the World's Most Widely Used Construction Material	Victoria Room, Level 1 Lessons Learned and Best Practice for Heat Pump Integration – Panel JONATHAN POOCH DETA		

	sustainability. This paper offers valuable insights for			
	professionals on the ambitious but achievable decar		 This panel builds upon the workshop from CEP23 (Identifying heat pump opportunities), as a session on lessons learned and reflections from real-work heat pump projects. This interactive panel, discussion and workshop will cover the following: Preliminary and detailed design. Equipment specification. Integration. 	
	face of the pressing climate crisis, the concrete indus			
	mitigation and adaptation efforts. The roadmap emp			
	all construction stakeholders, carbon and energy pro			
	translate vision into reality. Together, we can work to	-		
	future, where concrete help to reduce carbon emissi			
	world.			
12.10pm	Finding A Way to Decarbonisation – Eradicating Fos			
	Heat		ure of heat pump technology in New Zealand.	
	ROSS GODKIN NATIONAL MANUFACTURING MAN		ed to bring questions and join in on the korero, as	
	Showcasing the real-world application of overcoming		erience and thoughts from delivering projects across	
	in moving away from fossil fuel derived Process Heat			
	involves our journey of investigating like-for-like repl	-		
	of process heat peak demand, by thinking differently			
	how we mode the operation which reduced peak ene	ergy demand from 1.3		
	MW to 200KW to work within our existing supply cap	pacity.		
12.40pm	STUDENT PAPERS			
	Investigating Classe Crassed Courses Heat Duran Hatel	in Asterney New Zeelend, An Energy Cultures Frame		
	Physically-Motivated Approach to Incorporating Sol Applications ANTHONY MIRFIN Optimisation of Renewable Energy Resources in New Carbon and Energy Footprints of Renewable Electric PINCELLI	te in Aotearoa New Zealand: An Energy Cultures Frame ar Gain Into A Data-Driven Model of Building Energy C w Zealand: A P-Graph Approach JACK O'LEARY tity in Aotearoa New Zealand: Life Cycle Analyses of Sc	Consumption, With Pay-For-Performance	
1.05pm	Physically-Motivated Approach to Incorporating Sol Applications ANTHONY MIRFIN Optimisation of Renewable Energy Resources in New Carbon and Energy Footprints of Renewable Electric PINCELLI Networking Break in the Industry Exhibition	ar Gain Into A Data-Driven Model of Building Energy C w Zealand: A P-Graph Approach JACK O'LEARY	Consumption, With Pay-For-Performance	
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	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, Nicki will share work EECA has been doing to refresh its strategy, including electrifying New Zealand and empowering energy users.	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.	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
2.30pm	Offshore Wind National Impacts Study AARON WEBB DIRECTOR, PWC	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. I'll take you through the growth and changes I've 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 our customers.	promises a progressive learning journey, culminating in personal commitments to 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 SHAUN GOLDSBURY CEO, BRAVETRACE OLIVIA BARCLAY SUSTAINABILITY PARNTER, THE WAREHOUSE GROUP SARAH MCHARDY GENERAL MANAGER, LODESTONE ENERGYThe Warehouse Group and Lodestone Energy have signed a landmark long-term deal, aiming to power over 260 sites across Aotearoa with Lodestone's solar plants by 2026. Through the use of New Zealand Energy Certificates (NZ-ECs), BraveTrace will verify that electricity consumed at The Warehouse Group sites matches the solar energy generated from Lodestone. All parties aim to share	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 being implemented in greenhouses across the New Zealand to improve energy efficiency. This will lead into a discussion on fuel switching and the potential of low temperature geothermal in vegetable growing. The final discussion point will be on the	

5.20pm 6.00pm 5.25pm – 7.30pm	together to make it happen. Day's Wrap and Invitation and Welcome to Networking Function in Industry Exhibition	working Drinks	d will be the first fully electric economy if we all work Proudly Sponsored by:	
•	together to make it happen. Day's Wrap and Invitation and Welcome to Net	working Drinks	d will be the first fully electric economy if we all work	
5.20pm	together to make it happen.	· · · ·	d will be the first fully electric economy if we all work	
			d will be the first fully electric economy if we all work	
	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			
	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 Zealar			
4.00pm	Infrastructure Panel			
	Limes Room, Level 1			
	Session 4 Panel			
	Ground Floor Foyer			
3.30pm	Networking Break in the Industry Exhibition			
	outcomes. A short Q&A session will follow.			
	mechanics, how this incentivises increased renewable energy generation, and carbon	cropping industry.		
		major and unique challenges facing the covered		

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 DIRECTOR AND CHIEF SUSTAINABILITY OFFICER, PHOENIX- METALMAN REYCLYING				
9.35am	Title TBC				
		THE INTEGRITY COUNCIL - VOLUNTARY CARBON MAR			
		nchmark standards for high-integrity carbon credits - th			
	assess for adherence to the CCPs means for the carbo	assess for adherence to the CCPs means for the carbon market, and those looking to purchase high-integrity CCP-labelled credits.			
10.15am	Climate-Related Transition Planning and GHG Assura	nce – What You Need to Know			
	KAREN TIPPER TECHNICAL DIRECTOR – ASSURANCE	E, XRB			
	JACK BISSET POLICY MANAGER – SUSTAINABILITY, XRB				
	Aotearoa New Zealand Climate Standards are designed to encourage entities to measure and focus on climate related risks and opportunities and disclose their				
	transition to a lower carbon economy. The assurance of the greenhouse gas disclosures increases the trust and confidence in this information for investors and				
	stakeholders. Join us to hear how you can apply your	current skills and knowledge to support this.			
10.50am	Networking Break in the Industry Exhibition				
	Ground Floor Foyer				
	Session 6a	Session 6b	Session 6c Workshop		
	Limes Room, Level 1	Victoria Room, Level 1	Avon Room, Ground Floor		
11.20am	Orphan Child, Invisible Gorilla, Dung Beetle? The	Te Whatu Ora Counties Manukau's Energy	Tech-Powered Efficiency: Best Practices in IoT,		
	Power of Environmental Sector Associations to	Transition Strategy	Software, and Data for Energy and Emissions		
	Save The World	GANESH SANKAR ENERGY MANAGER, TE WHATU	Workshop (limited to 25 people)		
	CLARE FEENEY FOUNDER, STRATEGIC	ORA COUNTIES MANUKAU	DAN TOMLINSON HEAD OF MARKETS AND		
	ENVIRONMENTAL TRAINING HUB	Te Whatu Ora Counties Manukau's Energy	PARTNERSHIPS, ESP		
	CEP is working hard to deliver the professional skills	Transition Strategy aiming to achieve New Zealand	MICHAEL WELZEL IQNEXUS		
	needed to deliver the nations' construction,	Government's target of carbon neutral public sector	DENI ARCHER TEAM LEAD – CARBON		
	infrastructure and environmental goals.	by 2025.	CONSULTING, ESP		
	A ConCOVE-funded assessment showed CEP, Civil	Currently, each year Counting Manufau announce	Targeting operational managers and sustainability		
	Contractors NZ, WasteMINZ and WaterNZ are active	Currently, each year Counties Manukau consumes around 60GWh of energy, from both electricity and	leaders, this workshop will address common challenges preventing commercial technology		
	players in sustainability skills identification,				
	prioritisation, development and delivery. But despite the high value government places on their	gas and emits around 10,000 tonnes of CO ₂ . By 2025, the collective energy efficiency initiatives	deployments from achieving desired efficiency gains, such as poor system design, lack of strategy,		
	input, the power of these associations to spearhead	underway at Middlemore Hospital, Manukau Health	poor user engagement, data analysis gaps, system		
	the development of scarce and economically vital	Park, and Pukekohe Hospital are projected to slash	complexity, and incentive misalignment. Attendee		
	environmental skills goes unnoticed and untapped.	raik, and rukekone nospital are projected to Sidsh	will learn strategies for deploying metering, interne		
	environmental skins goes unnoticed and untapped.		win rearn strategies for deproying metering, intern		

	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.	emissions by approximately 4,700 tonnes annually, constituting roughly 47% of total emissions.	of things (IoT) infrastructure, productivity software, and data tools to enhance energy efficiency and sustainability, including continuous improvement cycles, data granularity, system and software alignment with sustainability goals, partner
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 Credible Opportunity for The Industry PETER COX VICE PRESIDENT AND GLOBAL SUBSECTOR LEAD, UPSTREAM ONSHORE AND MIDSTREAM, WORLEY The IEA predicts that gas use is likely to remain close to peak levels for the next two decades and gas will be the second largest contributor to total global 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.	An Integrated Approach to Decarbonising Our Built Environment JASON BRETHERTON TECHNICAL DIRECTOR, WSP	

12.50pm	Networking Break in the Industry Exhibition Ground Floor Foyer		
	Session 7a Limes Room, Level 1	Session 7b Victoria Room, Level 1	Session 7c Workshop Avon Room, Ground Floor
2.00pm	ТВС	Transformation of Biomass Residues into Clean Energy and High-Value Products CHRISTIAN JIRKOWSKY GENERAL MANAGER, POLYTECHNIK BIOMASS ENERGY LTD	Lifecyle Carbon Assessment Workshop (limited to 25 people) ZOE BURKITT TOITŪ ENVIROCARE
		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.	Further details to come
		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.	
		Christian's 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 leaders will complete the speech.	
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 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.	Should We Burn the Trees? MIKE PHARO ASSOCIATE PROCESS ENGINEER - INDUSTRIAL DECARBONISATION, 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 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	

		of the management of the product of the second stands	
	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.	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 GERMAN-NEW ZEALAND CHAMBER OF COMMERCEThis study, conducted by the German-New Zealand Chamber of Commerce and Adelphi, investigates the potential for cooperation between Germany and New Zealand in decarbonizing their manufacturing sectors, which are significant sources of greenhouse gas emissions in both countries. In 2022, the manufacturing sector was responsible for 22% of Germany's emissions, making it the second- largest source after the energy sector. Similarly, in New Zealand, the manufacturing sector, excluding utilities and construction, accounted for 13% of emissions, also ranking as the second-largest emitter following the primary sector.The report provides a detailed overview of the	Practical Challenges and Opportunities for Biomethane as A Substitute for Natural Gas PETER SANDSTON COMMERCIAL ADVISOR, 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 discuss the practical challenges in developing this first-of-its- kind project in New Zealand, including changes to pipeline regulations and gas specification. The presentation will also explore opportunities to replicate the project with biomethane projects in other regions.	
	current industrial landscapes in Germany and New Zealand, focusing on energy consumption and emission outputs. It also examines the existing policy frameworks aimed at emission reduction in both countries, including CO2 regulations, incentive systems, and funding schemes. Moreover, the study identifies potential areas for collaboration between		

	industries and governments, emphasizing policy, economic, and technical cooperation. By presenting a comprehensive analysis of the status quo and highlighting future cooperation opportunities, the report aims to inform policymakers and industry experts about the critical role of bilateral partnerships in advancing the decarbonization of the manufacturing sector.
3.25pm	Networking Break in the Industry Exhibition Ground Floor Foyer
	Session 8 Limes Room, Level 1
4.00pm	TBC
4.35pm	Student Prizegiving
5.05pm	Conference Reflections / Wrap up
5.10pm	Conference Close