

Preliminary Programme as at 26 June 2023

challenging our beha ow carbon Aotearoa.	aviours and decisions to deliver a thriving,	In association with BIGENERGY					
AY 1: TUESI	DAY 27 JUNE 2023						
	rewa, Wellington	husan C Laird Managamant					
8.00am	AR CONFERENCE MC Te Radar appears by arrangement with Johnson & Laird Management Olam Registration and Coffee						
	Oceania Outer, Level 3						
	Session 1 Conference Opening and Welcome Amokura Gallery, Level 4						
9.00am	Mihi Whakatau						
9.10am	PETER JACKSON Welcome and Housekeeping						
0.15	TE RADAR MC						
9.15am	Welcome to Wellington MAYOR TORY WHANAU MAYOR OF WELLINGT	ON					
9.20am	Welcome from CEP						
9.25am	CEP BOARD MEMBER/MIKE HOPKINS Platinum Sponsor Welcome						
	MARCUS BAKER MANAGING DIRECTOR, APRIC	US					
	Keynote Speaker Introduction SPONSORED BY SHAPE						
	JOHN GELL BUSINESS DEVELOPMENT MANAGE						
9.30am	What Could Go Right: Designing Our Ideal Future JUSTIN BEAN	e to Emerge From Continual Crises to a Thriving World					
	With all the doom and gloom surrounding us in th	ne news and our stories of the future, it's not easy to feel ho	•				
	,	ise to the environmental and social challenges we face, and ing what could go right, we can give ourselves a world to wo	• • • • • • • • • • • • • • • • • • • •				
	to find opportunity, and help achieve a sustainable	le and ethical world.	on to wards, reverage team and social tremas				
10.30am	Enabling Resilient Decarbonisation Through Elec JOHN CLARKE GENERAL MANAGER – GRID DEV						
	•	on of the economy presents many opportunities and challeng	ges for the electricity sector in NZ. Recent				
		need to build for resilience as well, whilst managing the pace	o.				
		required to meet net zero goals. In this presentation, John Clarke, GM Grid Development shares the perspective of Transpower, NZ's grid owner and system operator, on enabling resilient decarbonisation through electrification.					
10.55am	MEET THE EXHIBITORS						
11.10am	Morning Tea, Networking, Industry Exhibition Oceania Outer, Level 3						
	Session 2a	Session 2b	Session 2c Workshop				
11.45am	Amokura Gallery, Level 4 Gas Transition Plan	Oceania South, Level 3 Decarbonising Primary Industries with Geothermal –	Oceania North, Level 3 Local Authority Workshop				
11.454111	ANDREW KNIGHT CHIEF EXECUTIVE, GAS	Risk vs Reward	JAKE ROOS ACTING MANAGER CLIMAT				
	INDUSTRY CO	CELIA WELLS SOCIO-ECONOMIC POLICY SPECIALIST –	CHANGE, GREATER WELLINGTON TE PAI				
	Gas Industry Co has worked alongside MBIE to develop the Gas Transition Plan, which sets out	CLIMATE AND ENERGY, GNS SCIENCE I TE PŪ AO Energy use in agriculture and food still relies on fossil	MATUA TAIAO				
	potential pathways to drive emission reductions	fuels, with relatively limited penetration of renewables in	ANJANA KRISHNAN ENGINEER, METIS				
	from natural gas. The Gas Transition Plan will be a key input into a broader Energy Strategy. Gas	these sectors to date. New Zealand has an abundance of geothermal resource and there is significant potential to	CONSULTANTS LIMITED				
	Industry Co Chief Executive Andy Knight, will	decarbonise parts of the primary sector with geothermal	TRACEY HALE SUSTAINABILITY ADVISER				
	talk through the draft Gas Transition Plan and explain the hypothetical transition pathways	direct-use. This talk will focus on the opportunity for geothermal direct-use in primary sectors across New	WHANGAREI DISTRICT COUNCIL				
	outlined to decarbonise the gas sector.	Zealand, international case studies where regulatory	This workshop will explore what local				
		interventions have supported uptake, and work underway to replicate these initiatives here. The	government can do to show leadership				
		obstacles are not insurmountable and investments are	with greenhouse gas emissions reduction using examples from three different				
		worth exploring in the larger effort of making New Zealand's primary sector more sustainable.	organisations:				
12.30pm	HON DR MEGAN WOODS MINISTER OF ENERGY	HON DR MEGAN WOODS MINISTER OF ENERGY AND RESOURCES, MINISTER OF HOUSING, MINISTER					
	FOR BUILDING AND CONSTRUCTION, MINISTER I FINANCE, LABOUR PARTY	FOR INFRASTRUCTURE, ASSOCIATE MINISTER OF	Anjana Krishnan will relate how Westminster City Council in the UK worke				
12.50pm	STUDENT PAPERS		with contractors to measure the embodie carbon their scheduled roading works.				
·							
	Energy Transition of Dairy Agriculture: Scenario A Study in Canterbury, New Zealand SAM MURP	Analysis and System Concept Engineering - With Case	Tracey Hale will explain the climate chang consideration processes used at Whangar				
	Study in Canterbury, New Zealand Salvi Work		District Council.				
		xisting Housing Stock: Understanding Retrofit Strategies	Jako Book will so you Creater Wellington				
	to Improve Thermal Performance and Climate Cl	nange Resilience ELOISE BLEWDEN	Jake Roos will cover Greater Wellington Regional Council's carbon reduction				
	Carbon Footprint of Open Cut Pipelines (NZ Cont	text) KEVIN MANALO	programme for achieving 'climate positive				
	Forecasting Indoor Environmental Parameters us	sing Recurrent Neural Networks BASTIEN SALLABER	status for their organisation (including the public transport system, council-controlle				
			organisations and investments) by 2035.				
	A Comparative Assessment of LCA Software usin	A Comparative Assessment of LCA Software using Standardised Inputs JOSEPH GONG					
	Perspectives on the Reduction of Carbon Footpri	In break out groups we'll discuss how the ideas could be applied at our organisation and share related examples of our own work.					
1.15pm	Lunch, Networking, Industry Exhibition Oceania Outer, Level 3 Proudly Sponsored by LUMEN						
	Session 3a	Session 3b	Session 3c Workshop				
	Amokura Gallery, Level 4 Sponsor Introduction	Oceania South, Level 3	Oceania North, Level 3				
	CLAIRE FAULK MANAGER, EQUIPMENT						
2.00nm	REPLACEMENT SCHEME, EECA	Challanges and Drestinal Colutions in Describanisation	Financing Workshop				
2.00pm	Having a Transparent Debate about the Energy Transition	Challenges and Practical Solutions in Decarbonisation Projects	Financing Workshop Financing Workshop				
	GEOFF SIMMONS CHIEF ECONOMICS	GLEN SMITH COMMERCIAL MANAGER, AIRTECH	STEVE DIXON ESG SPECIALIST, ANZ				
	ADVISER, OFFICE OF THE PARLIAMENTARY COMMISSIONER FOR THE ENVIRONMENT	A successful decarbonisation project requires overcoming challenges throughout the concept, design or	AUGU CUTUTE CONTRACTOR				
	The transition to a low emissions economy	construction phases. This presentation is focused on	NICKI SUTHERLAND GENERAL MANAGER, INVESTMENT AND				
	represents the largest step change in electricity infrastructure that Aotearoa New Zealand has	illustrating previously encountered issues and how these were overcome – citing experience from previous local	ENGAGEMENT, EECA				
	seen in over 40 years. Right now we face many	projects. The aim is to provide references, points to					
	important choices that will determine the	consider and examples to attendees planning, or	PAT HOULT SENIOR MANAGER				
	pathway to achieving this goal. The pathway we choose will bring long lasting impacts for energy	considering, similar projects, so they can benefit from these experiences.	BUSINESS, ANZ				
	consumers and the environment alike. It should						
	be debated openly and transparently.		<u> </u>				

2.30pm	GIDI's Evolution – How the Government	Decarbonisation in the Built Environment	CARA ASKEW BTune® DELIVERY		
	Response is Evolving to Address Barriers to	GIAN RAFFAINER GM CEMENT INDUSTRIAL, GOLDEN	MANAGER AND DEPLOYMENT SPECIALIS		
	Investing in Decarbonisation	BAY CEMENT	BECA		
	NICKI SUTHERLAND GENERAL MANAGER,	Construction is a major growth sector around the world,			
	INVESTMENT AND ENGAGEMENT, EECA	with approx. 60% of infrastructure required by 2050 still	SCOTT NOYES SYSTEMS AND SERVICES		
	Government's GIDI Fund turns 3 in October	to be built. If we continue to build the way we have	MANAGER, SIGNIFY		
	2023 and in this time we are seeing the kernels of real progress on climate change. But many of	always built, we will surpass the planet's boundary as construction represents 40% of emissions, resources,	The state of the s		
	the barriers for businesses who want to	waste, and energy. Innovation in materials and building is	In this workshop Bat Hoult (ANZ) will so		
	decarbonise are unchanged – such as	key to stopping this. Fletcher Building's Concrete Division	In this workshop Pat Hoult (ANZ) will cov		
	understanding about technological	is focussed on working to decarbonise and create circular	the broad sustainable finance view, whe		
	opportunities, financial gaps, shortages in	solutions through the value chain. This presentation will	banks fit into this, what they can offer ar		
	industry skills and capability, and ease of	discuss in detail how Golden Bay have achieved their	what they need from businesses to be all		
	accessing grant funding and other	significant reductions in carbon, and how they will	to help		
	support. What has government done to	continue to decarbonise to deliver carbon zero cement			
	respond to these barriers and is there more we	by 2050, what this means for the decarbonisation of	Nicki Sutherland (EECA) will discuss wha		
	can do? This session will outline how EECA has	concrete and opportunities for biomass and other waste	EECAs role is in financing projects, what'		
	intentionally responded to some of these	streams as an energy source.	currently on offer, what's coming and fo		
	barriers, remaining key challenges, and ask for		who. What does EECA need to see from		
	feedback on your ideas.		businesses (and their consultants) to		
3.00pm	A Quarter of Our Energy Could be Coming	Demand From the Industry – Energy Performance	·		
	From Bioenergy by 2050	Transparency for Buildings to Drive Decarbonisation	enable it to fund projects.		
	BRIAN COX EXECUTIVE OFFICER, BIOENERGY	BOBBY SHEN SENIOR MANAGER FOR EXISTING			
	ASSOCIATION OF NEW ZEALAND	BUILDINGS, NEW ZEALAND GREEN BUILDING COUNCIL	Scott Noyes (Signify) looks into what are		
	The transition to a decarbonized circular	Time and time again, the NZGBC hears from industry	Energy Performance Contracts (EPCs), w		
	bioeconomy is encouraging new thinking with	players that there needs to be accessible methods for	are the different models, where do they		
	regard to energy supply resilience and this is	fairly comparing the performance of buildings and using	work best, where do they not work and		
	opening new business opportunities which can address Transpower's concerns about winter	this to reduce carbon. There are major changes in train to how the performance of our buildings are being	what's required for success.		
	electricity supply security.	measured and a significant gearing up on regulation for			
	Some people feel swamped by the changes in	the measurement of energy use.	Cara Askew (Beca) will take a deeper div		
	the energy market so it is important that we	the measurement of energy use.	into the shared savings financing model		
	develop a sound Energy Strategy. Even today	The NZGBC is in a privileged position as the hub of the	and the importance of data in delivering		
	information and "facts" more than nine months	sustainability movement for the property sector in NZ,	successful EPC.		
	old should be considered history.	with all parts of the sector and government talking to our			
	ola siloala de considerea filocory.	team about their decarbonisation journeys. Existing			
	The bioenergy and biofuels sector is a case in	buildings are an enormous opportunity for reducing the			
	point. In the last decade bioenergy has gone	carbon of the property sector which makes up 10% of			
	from being a way for getting rid of sawmill	NZ's total greenhouse gas emissions.			
	waste by producing kiln heat, to being a main-				
	stream source of energy for many industrial				
	plant, or space heating for universities, schools				
	and hospitals.				
3.30pm	Afternoon Tea, Networking, Industry Exhibition Oceania Outer, Level 3				
	Session 4 Panel				
	Amokura Gallery, Level 4				
.00pm – 4.45pm	GLEN BENNETT MEMBER OF PARLIAMENT FOR NEW PLYMOUTH, LABOUR PARTY				
	SIMON COURT MEMBER OF PARLIAMENT – SPOKESPERSON FOR ENVIRONMENT, CLIMATE CHANGE, INFRASTRUCTURE, TRANSPORT, LOCAL				
	GOVERNMENT, ENERGY AND RESOURCES, ACT PARTY				
	HON JULIE ANNE GENTER MEMBER OF PARLIAMENT - SPOKESPERSON FOR TRANSPORT, ENERGY AND RESOURCES, FINANCE, URBAN DEVELOPMENT				
	BUILDING AND CONSTRUCTION, INFRASTRUCTURE AND STATE OWNED ENTERPRISES, GREEN PARTY				
	BOLDING AND CONSTRUCTION, IN MASTROCTORE AND STATE OWNED ENTER MISES, CREEK FART				
	SIMON WATTS MEMBER OF PARLIAMENT, SPOKESPERSON FOR LOCAL GOVERNMENT, REGIONAL DEVELOPMENT, CLIMATE CHANGE, STATISTICS				
	ASSOCIATE SPOKESPERSON FINANCE, INFRASTRUCTURE, NATIONAL PARTY				
4.45pm	The Electrification of Everything	,			
	MIKE CASEY CO FOUNDER AND CEO, NEW ZEALAND ZERO AND OWNER/OPERATOR, FORREST LODGE ORCHARD				
	Hear the story of how Mike Casey built the world's first zero fossil fuel, 100% electric farm. Mike is a former software engineer and tech startup founder				
	that threw in the towel on big city life, to have a go at decarbonising the primary industry through his passion for technology. Mike moved back to New				
		in 2019 and invested in a farm in Central Otago. The goal w			
	demonstration on how to decarbonise and electri	fy food production to increase efficiency and profits. Mike is	here to share the story and all his number		
	because the only way we will truly enable change is to provide irrefutable evidence by example and complete fiscal transparency.				
5.20pm	Day's Wrap and Invitation and Welcome to Cock	•	·		
•	DAN TOMLINSON HEAD OF MARKETS AND PAR				
	Cocktail Function	Prou	udly Sponsored by		
5.25pm – 7.20pm					
5.25pm – 7.20pm	Oceania Outer, Level 3		EGD		
i.25pm – 7.20pm	Oceania Outer, Level 3		ESP		

	ESP		
AY 2: WEDNESDA	AY 28 JUNE 2023		
e Papa Tongarew	<u> </u>		
7.30am	Registration and Coffee		
8.00am	Carbon and Energy Professionals New Zealand Annual General Meeting – Open to CEP Members Only Oceania North, Level 3		
	Session 5		
	Amokura Gallery, Level 4		
9.00am	Housekeeping TE RADAR MC		
	Keynote Speaker Introduction		
	Sponsored by Beca		
	TOM KELLY DIRECTOR – SUSTAINABILITY (HANDPRINT), BECA		
9.10am	Principles for Resilient Infrastructure LIZ VARGA PROFESSOR, HEAD, INFRASTRUCTURE SYSTEMS INSTITUTE, UNIVERSITY COLLEGE LONDON Proudly Sponsored by: LIZ VARGA PROFESSOR, HEAD, INFRASTRUCTURE SYSTEMS INSTITUTE, UNIVERSITY COLLEGE LONDON		
9.55am	The presentation describes the six principles for infrastructure resilience after providing some definitions and describing the systems approach used to develop the principles. Some of the 33 key actions which describe what must be done to achieve the principles are described with examples. The expected outcomes of infrastructure resilience are covered showing that resilience is a dynamic property of infrastructure which is increasingly difficult to achieve because of challenges such as climate change, interdependent and aging systems, skills shortages, etc. To implement the principles, a framework is also presented which will enable nations to engage stakeholders, measure progress on resilience and create an action plan suited to the national context. The action plan will provide the means to obtain funding and meet the ambition of the nation for infrastructure resilience. The Role of Innovation in Delivering a Resilient Future CRISTIANO MARANTES CHIEF EXECUTIVE, ARA AKE Ara Ake is developing a Community Energy How-to Guide that will assist communities across Aotearoa in successfully developing and deploying their own energy projects.		
	The guide is informed by the theory, practical implications and lived experiences of communities in Aotearoa. This includes the commercial and regulator environment, but also cultural understanding including te ao Māori. The end goal is to enable future projects to be implemented with lower or zero subsidy. To accomplish this, all aspects of a project need to be addressed from energy use and balance, technology choice, supply chain, financing options, community engagement and leadership, to negotiations with third parties such as installers, lines companies, retailers and regulators.		
10.25am	The Development of "HazardAware" MELANIE GALL CO-DIRECTOR, CLINICAL PROFESSOR, CFM, CENTER FOR EMERGENCY MANAGEMENT AND HOMELAND SECURITY, ARIZONA STATE UNIVERSITY This presentation describes the development of "HazardAware", an interactive website that allows the public and community decision-makers to learn about housing-related natural hazard risks and mitigation options along the U.S. Gulf coast. The web application connects coastal residents to risk and resilience information. The project's overarching goal is to leverage actionable information on disaster risk and mitigation alternatives in pursuit of housing as the first line of defense against natural hazards.		
10.55am	Morning Tea, Networking, Industry Exhibition Oceania Outer, Level 3		

	Session 6a	Session 6b	Session 6c Workshop
	Amokura Gallery, Level 4	Oceania South, Level 3	Oceania North, Level 3
11.25am	VERBREC TO INTRODUCE THE BIOENERGY SESSION	A 1.5° World Can Only be a Circular World DEBBIE O'BYRNE PRINCIPAL CIRCULAR ECONOMY,	Heat Pump Workshop
44.20	PETER MAY GENERAL MANGER, VERBREC NZ	BECA	JONATHAN POOCH FOUNDER AND MANAGING DIRECTOR, DETA CONSULTING
11.30am	Biomass REBECCA LARKING CHIEF OPERATIONS	Previous efforts to combat climate change have focused on the critical role of renewable energy and	JACK YOUNG ENGINEERING MANAGER,
	OFFICER, GENESIS Biomass at Huntly was first investigated over a	energy-efficiency measures. Though crucial and wholly consistent with a circular economy, these	ENERGY NZ
	decade ago. Since then, several technologies and	measures can only address 55% of emissions, the	GLEN SMITH COMMERCIAL MANAGER,
	fuels have been assessed, with fuel selection being the single most important factor. Rebecca	remaining 45% comes from producing the electronics, cars, clothes, food, and other products we use every	AIRTECH NZ LIMITED
	Larking, COO will provide some of the technical	day.	CRAIG DUFF FOUNDING DIRECTOR,
	detail relating to the biomass trial undertaken earlier this year, share lessons learnt and talk	But the global economic landscape is changing. "A	ACTIVE REFRIGERATION
	about next steps with biomass.	1.5° degree world can only be a circular world" is a concept gaining significant traction across the globe.	In this workshop, some of NZs most
	Huntly Power Station has continuously innovated	There is a growing acceptance that climate change	experienced heat pump specifiers, integrators and installers will be presenting
	and adapted to meet anticipated needs of NZ and is an exciting energy location of the future.	and material use are closely interlinked and post- Covid there is a recognition that while long complex	an overview of:
	is an exciting energy location of the future.	supply chains are hyper-efficient, they have poor	 The major issues impacting successful deployment of high temperature heat
		resilience to shocks and disruption.	pump technologies
		Research has found that the circular economy has the	 Areas where high temperature heat pumps should be deployed and
		potential to increase resilience to the physical effects of climate change. By keeping materials in use in	strategies for ensuring economic
		multiple cycles businesses can reduce emissions and	outcomesCase studies highlighting the good, the
		decouple economic activity from the consumption of raw materials, many of which are vulnerable to	bad and the ugly
		climate risks. There is also growing interest in	This is an opportunity for you to bring your
		distributed manufacturing where design is centralised but manufacturing is moved closer to where goods	questions, queries and experience – asking
		are consumed reducing reliance on overseas	the experts the difficult questions for you to get your heat pump projects implemented
		production.	successfully.
		Embracing a circular economy is a fundamental step	
		towards achieving climate targets moving beyond efforts to minimise emissions in an extractive linear	
		system. We need to embrace systems thinking	
		mindsets to understand the inter-relatedness of these systemic issues to sculpt responses to the	
		climate crisis that reduce emissions and increase	
		resilience to its effects. Wider benefits include creating more liveable cities, distributing value more	
		widely in communities, growing more localised economies and spurring innovation. Learn how the	
		circular economy is a potent enabler to achieving a	
 11.55am	Closing the Loop – Transforming Organic Waste	decarbonised and resilient future.	
11.55a111	into Regionally Dispersed Gas Production	Climate Change Mitigation vs Adaptation – Priorities for Business	
	Through Biogas TOM MEACLEM PROJECT ENGINEER, DETA	BELINDA MATHERS GENERAL MANAGER TECHNICAL, TOITŪ ENVIROCARE	
	Organic waste streams present a regionally	When not leading Toitū's Science and Advisory team,	
	dispersed energy source, which though anaerobic digestion can be converted into a high value	Belinda is deputy team leader for a NZ Response Team and responded to Cyclone Gabrielle impacts in the	
	thermal fuel – biogas. This presents an	Auckland region earlier this year. This has given her	
	opportunity for industrial sites to gain security of energy supply and control over their own energy	unique insights into the impacts of climate change on communities and businesses. Belinda will address the	
	futures. By utilising process by-products,	question of 'Should we focus on mitigation or	
	industrial sites can promote the principles of kaitiakitanga and the Sustainable Development	adaptation?', giving insights on likely impacts of climate change on NZ businesses and some things to	
	Goals (SDGs).	think about when planning for the future.	
12.25pm	Bioliquids PAUL BENNETT PORTFOLIO LEADER,	When the Quick Wins are Won: The Role of Continuous Commissioning in Commercial Building	
	INTEGRATED BIOENERGY, SCION	Decarbonisation	
	There are a lot of uncertainties around the deployment of liquid biofuels in New	HONG LEE BUILDING OPTIMISATION MANAGER, ESP	
	Zealand. This has been exacerbated by the	Commercial property managers must juggle tenants	
	recent cancellation of the Liquid Biofuels Obligation. However, they can play a major role	needs with increasing pressures to improve building performance and meet sustainability goals. For many,	
	in decarbonising transportation in the future but	work has already begun to meet these new demands,	
	what is their potential role?	but how do property managers continue to provide value in the long term, once the quick wins are	
	What feedstocks and technologies should we be using? and which sectors should be targeted with	won? In this talk, we will explore the role of continuous commissioning - and the process of	
	these fuels? Are there any other factors that we	providing ongoing insights, upgrades and	
	need to consider such as sustainability of biofuels and the impact on engines.	optimisations to a building - in meeting and surpassing the growing expectations on property owners,	
42.55		facilities managers and asset managers.	L
12.55pm	Lunch, Networking, Industry Exhibition Oceania Outer, Level 3 Proudly Sponsored by LUMEN		
	Session 7a	Session 7b	Session 7c Workshop
2.00pm	Amokura Gallery, Level 4 Unleashing Decarbonisation Potential through	Oceania South, Level 3 Climate Action Initiative - Community Led Climate	Oceania North, Level 3 Bio Energy Workshop
-	Thermal Energy Metering: A Case Study of WoolWorks' Decarbonisation Journey	Mitigation Action with a Global Reach CARLY GREEN PRINCIPAL CONSULTANT, ENVIRO	MARCUS BAKER MANAGING DIRECTOR,
	ALELIGN GESSESE PRINCIPAL ENGINEER,	ACCOUNTS	APRICUS ECO HOT WATER & HEATING
	LUMEN New Zealand's reliance on fossil fuel-based	Not-for-profit WAO Aotearoa, along with partners Environmental Accounting Services, Queenstown	TOM MEACLEM PROJECT ENGINEER, DETA
	process heat systems significantly contributes to	Lakes District Council, Destination Queenstown and	CONSULTING
	greenhouse gas emissions. However, the measurement of energy consumption at the	Lake Wanaka Tourism delivered the Climate Action Initiative (CAI); a community led program aimed to	Join Marcus Baker, Apricus Eco and Tom Meaclem, Deta Consulting, for a solution
	supply level, such as tonnes of coal or GJ of	build capacity in understanding greenhouse gas	focussed workshop on retrofitting biomass systems in existing commercial buildings for
	natural gas consumed, offers limited insight into how, when, and where thermal energy is utilised	emissions from tourism related businesses in the district. Through a series of group workshops, one-on-	central heating, domestic hot water and
	within process heat systems.	one discussion and support, more than 30 small	process heat. We will detail the availability and energy density of existing and future
	WoolWorks achieved full decarbonisation at their	business in the region were able to engage in meaningful planning for decarbonisation with a focus	biofuels in NZ, fuel handling and storage
	Timaru site through thermal energy meter	on collaboration, sharing experiences and	considerations, boiler output and space required, innovation in containerised plant
	installation, energy efficiency measures, demand reduction projects, and fuel switching projects.	acknowledgement of the scale of the challenge. This initiative sparked the momentum within the broader	rooms, when / if buffering is required, FM
	With the support of GIDI funding, they	business community and now events and destination management plans within the region are including	operational requirements, maintenance and system longevity.
	implemented heat recovery, a wastewater source high-temperature heat pump, and an electrode	decarbonisation in long term planning.	. •
	steam boiler, achieving decarbonisation by June 2023. Their sustainability efforts improved		
	product quality, market acceptance, and business		
	opportunities, reinforcing their reputation as a responsible exporter.		
2.30pm	Behind the Meter Solar PV for Large Energy	Fletcher Building – A Case Study of the Impact of	
	Users HARSHAL PATEL BECA	Science-Based Targets at a Large New Zealand Corporate	
			

New Zealand along with most of the developed MICHAEL BURGESS | GROUP CARBON AND countries have committed to Net Zero emissions **ENVIRONMENTAL PERFORMANCE MANAGER,** by 2050 and large energy users that currently **FLETCHER BUILDINGS** source their energy needs from The first step to Setting ambitious carbon targets can act as a assessing if a behind the meter solar PV solution significant catalyst for change within is right for your business is to undertake a business. However, developing a roadmap to the goal feasibility study that considers factors such as; is complex needs to be underpinned by solid management of fundamental environmental availability of ground/rooftop real estate, annual yield estimates, site demand offsets, payback performance data and incorporation of sustainability periods, network integration and procurement initiatives into short- and long-term business planning cycles. This talk will discuss Fletcher Building's options. experience setting a science-based target (SBT), the Often, one of the key barriers to investment is resulting changes this has caused within the the availability of upfront capital. Most organisation and its effect on supply chain organisational CAPEX budgets are allocated for engagement. core business operations with very little in the way for non-business critical spend. This paper will discuss in detail the steps required to assess feasibility of behind the meter solar. This includes key challenges, opportunities and procurement options to reduce upfront capital costs and improve attractiveness of investment to support emission reduction targets and lower cost of energy. carbon-based fuels will play a big part in achieving this target. Renewable energy sources such as solar and wind are now the cheapest forms of energy and there is tremendous opportunity for large energy users to explore behind the meter renewable generation not only offset Scope 2 emissions from purchasing power from the grid but to also lower the overall cost of energy. Behind the meter solar PV systems are starting to become popular due their technical and commercial maturity in the market which include ground mount and/or rooftop solutions. These systems may also include some form of energy storage to manage time of use and network stability. The Climate Waits for No One 3.00pm **ROD CARR | CHAIRPERSON, CLIMATE CHANGE COMMISSION** Transitioning to a thriving, climate-resilient low emissions Aotearoa New Zealand will require changes - where we live, how we get around, and how we earn a living. But with change comes opportunity - a low emissions future is likely to be less vulnerable to disruption, more affordable, healthier, and more sustainable than our current way of living. Increasing renewable electricity generation, growing the number of electric vehicles on our roads, moving away from coal, and reducing agricultural emissions are all positive signs. However, the Commission's analysis shows there is much more work to do, and the Government must broaden, strengthen, and accelerate climate action. 3.30pm Afternoon Tea, Networking, Industry Exhibition **Oceania Outer, Level 3** Session 8 | Amokura Gallery, Level 4 4.00pm **Student Prizegiving** 4.05pm **Te Whatu Ora Energy Decarbonisation Programme** DEBBIE WILSON | KAITOHUTOHU WHAKAUKA PRINCIPAL SUSTAINABILITY ADVISOR INFRASTRUCTURE AND INVESTMENT GROUP, TE WHATU ORA This session will share details of the energy decarbonisation journey taken by Te Whatu Ora, Health New Zealand. Decarbonisation activities have been underway for well over a decade across the public health sector. At the beginning of the session, a brief overview will be provided of the context in which we operate, such as the current environmental situation with global warming and the social context described within the setting of the health sector. For example, attendees will learn how challenging and complex it is to make changes at a large hospital campus where operations cannot be shut down to make those changes, timing of interventions is therefore essential. These activities are underway to ensure the health sector complies with the Carbon Neutral Government Programme yet the positive benefits of uplifting the health outcomes of our people as a result of decarbonisation cannot be ignored. The main part of the discussion has been framed under three main discussion areas: State Sector Decarbonisation, Coal boiler transition and Energy Transition Programme (ETP). Examples of projects delivered within the first two focal areas will allow attendees to gain some insight into what work has been successfully rolled out and what will likely fall out of the third phase of this energy decarbonisation journey, the ETP 4.35pm The Importance of Increasing Flexibility in New Zealand's Energy Transition JAMES CARBERRY | SIMPLY – DISTRIBUTION GEN The New Zealand government aims to grow the economy while meeting net zero carbon emissions, which requires increasing the flexibility of the electricity system to maintain supply and demand balance. Traditionally, supply-side controls have been used to maintain system stability, but demandside flexibility, which enables consumers to adjust their electricity usage, is also necessary as more variable energy sources come online. Simply Energy, the country's only dedicated energy solutions provider for commercial and industrial sectors, will cover the importance of demand-side flexibility, its ability to reduce emissions and improve resilience, different types of flexibility, practical examples, and additional steps the government, networks, and industry could take to build grid stability. Conference Reflections / Wrap up 5.05pm

Thank you to our 2023 Sponsors and Exhibitors



5.10pm

Conference Close

