



**CEP**

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# **CONFERENCE + EXHIBITION**

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**CHRISTCHURCH | 26 - 27 MAY 2021**

Regenerating New Zealand

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## **CONFERENCE PROGRAMME**

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TE PŪ NGAO, TE PŪ WARO  
CARBON AND ENERGY PROFESSIONALS NEW ZEALAND

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# DAY 1: WEDNESDAY 26 MAY 2021

## CHRISTCHURCH Town Hall, Christchurch

### TE RADAR | CONFERENCE MC

Te Radar appears by arrangement with Johnson & Laird Management

8.00am	<b>Registration and Coffee</b>
	<b>Session 1   Conference Opening and Welcome</b> <b>Limes Room</b>
9.00am	<b>Mihi Whakatau</b>
9.20am	<b>Welcome</b> <b>TE RADAR, MC</b>
9.25am	<b>HON LIANNE DALZIEL MAYOR OF CHRISTCHURCH</b>
9.30am	<b>Ministerial Address</b> <b>HON DR MEGAN WOODS   MINISTER OF HOUSING, MINISTER OF ENERGY &amp; RESOURCES, MINISTER OF RESEARCH, SCIENCE &amp; INNOVATION, ASSOCIATE MINISTER OF FINANCE</b>
9.57am	<b>De-carbonisation and the Orion Energy Accelerator</b> <b>PAUL DEAVOLL   GM CUSTOMER AND STAKEHOLDER, ORION</b>
10.00am	<b>Transformation through Systems Innovation!</b> <b>ANDERS WIJKMAN   SWEDISH OPINION LEADER AND AUTHOR</b>
10.45am	<b>From Strategy to Action. Don't Wait to be Told.</b> <b>DR ROD CARR   CHAIRPERSON, HE POU A RANGI CLIMATE CHANGE COMMISSION</b> Now is the time for professionals to show themselves. The Climate Science is clear, the direction of Climate Policy is clear but what remains to be seen is the recognition by many professionals of the challenge and opportunity presented by the need for Climate Action. What part will you tell your grandchildren you played in the movement to build a thriving, climate resilient, low emissions Aotearoa?
<b>11.10am</b>	<b>Morning Tea, Networking, Industry Exhibition</b>
	<b>Session 2  </b> <b>Limes Room</b>
11.40am	<b>A National Energy Strategy – Why it's Essential</b> <b>MARC ENGLAND   CHIEF EXECUTIVE, GENESIS ENERGY</b> A national energy strategy is a must have for New Zealand to transition successfully to a low carbon future. There are many different sources of energy with multiple interdependencies that need to be understood and considered. Pulling on one strand without understanding those can have unintended consequences for all of us. A national strategy can provide the right sequencing, prioritisation of actions, ensure reliable, dependable and affordable energy through the transition to the low carbon future we all want.
12.05pm	<b>Shaping the Future of Zero Carbon Gas in Aotearoa</b> <b>ANGELA OGIER   GROUP STRATEGY AND CORPORATE DEVELOPMENT MANAGER, FIRSTGAS GROUP LIMITED</b> Firstgas Group owns and operates the gas transmission and distribution pipeline networks in New Zealand and is committed to helping Aotearoa achieve its climate change goal of zero carbon emissions by 2050. As part of this commitment, Firstgas Group has investigated what NZ's hydrogen future could look like and how our network can play its part. In this presentation, Angela Ogier, Firstgas Group Hydrogen Project Lead outlines the key findings of its Hydrogen Feasibility study and explains a viable strategy for converting NZ's pipeline networks to 100% hydrogen by 2050.
12.30pm	<b>Zero Emission Hydrogen Fuel Cell Trucks and Nationwide Refuelling Network</b> <b>RYAN MCDONALD   HEAD OF NEW BUSINESS, HIRINGA ENERGY</b> Hiringa Energy and partners are bringing zero-emission hydrogen fuel cell electric trucks to New Zealand and establishing a nationwide green hydrogen refuelling network. The trucks have similar range, payload capabilities and refuelling times as diesel trucks. The first 25 trucks will be entering service by the end of 2022. We look forward sharing how unlocking the hydrogen opportunity creates a long-term competitive advantage for kiwi businesses and providing an update on the zero-emission aerospace sector.
<b>12.55pm</b>	<b>Lunch, Networking, Industry Exhibition</b>

	<b>Session 3   Limes Room</b>
2.00pm	<b>Climate Leadership – Stepping Up in 2021</b> <b>BECKY LLOYD   CHIEF EXECUTIVE, TOITŪ ENVIROCARE</b> Globally and locally we are seeing an acceleration in businesses and public sector entities taking climate action. These rapid changes open exciting opportunities for Carbon and Energy Professionals. Organisations need expert support to help them develop their strategies, build business cases, scope and deliver their decarbonisation projects, and measure the results. What do businesses and organisations need to do to take meaningful climate action and how can CEP members help?
2.30pm	<b>Europe's Man on the Moon Moment: What the EU Green Deal's Sustainable Finance Efforts Mean for New Zealand?</b> <b>CAROLINE LAMBERT   HEAD OF TRADE, DELEGATION OF THE EUROPEAN UNION</b> The EU has set itself the goal of becoming the first climate neutral continent. To mobilise private finance and the corporate sector to do their share, the EU designed the world's first classification system for sustainable economic activities. Its use is made compulsory for reporting by the EU financial sector, investors, large corporates, and listed SMEs, wherever their activities take place. This will set standards internationally on how business report on sustainability issues, including in New Zealand.
3.00pm	<b>EECA's Part in the Decarbonisation Journey</b> <b>ANDREW CASELEY   CHIEF EXECUTIVE, EECA</b> What's Hot and what's Not. Over the past 18 months the funding being committed to decarbonisation through both annual budget cycles and more latterly the post COVID recovery initiatives has increased substantially. EECA has been the recipient of much of this funding as it is increasingly being tasked to support the Government's objective of achieving a net zero emissions Society by 2050. These funds are being deployed across EECA's three key levers of co-investment, motivating people and regulation. So exactly where are these funds being deployed and what part will energy professionals play?
<b>3.30pm</b>	<b>Afternoon Tea, Networking, Industry Exhibition</b>
	<b>Session 4   Limes Room</b>
3.55pm	<b>EECA's Sector Decarbonisation Programme</b> <b>GLENN WELLINGTON   SECTOR PROGRAMME MANAGER, EECA</b>
4.00pm	<b>Training the Workforce of Tomorrow: A Carbon-Smart Workforce and a Just Transition to a Net Zero Carbon Economy</b> <b>CLARE FEENEY   DIRECTOR, ENVIRONMENTAL COMMUNICATIONS LTD</b> We've never needed workforce training more than we do now, as we face a raft of new environmental legislation. But what makes for "good" training? Based on years of experience, Clare Feeney has developed a Success Framework of seven essential elements that support effective environmental training. She'll show how training outcomes can – and must – be developed that track our progress towards the Government's targets. This information will support CEP's critically important training programme.
4.30pm	<b>CEP Direction and Certification Framework</b> <b>YVONNE GILMORE   CHAIR, BEN THOMSON, TASC (TRAINING AND ACCREDITATION SUB COMMITTEE)   CEP BOARD</b>
5.00pm	<b>Ministerial Address</b> <b>HON JAMES SHAW   MINISTER OF CLIMATE CHANGE, ASSOCIATE MINISTER FOR THE ENVIRONMENT</b>
5.30pm	<b>Invitation and Welcome to Cocktail Function</b> <b>BEN THOMSON   MANAGER – ENERGY AND CARBON LUMEN</b>
<b>5.33pm - 7.30pm</b>	<b>Cocktail Function</b> <b>Avon Room</b> <i>Proudly Sponsored by</i> 

**DAY 2: THURSDAY 27 MAY 2021**  
**CHRISTCHURCH TOWN HALL, CHRISTCHURCH**

7.30am	<b>Registration and Coffee</b>	
8.00am	<b>Carbon and Energy Professionals New Zealand Annual General Meeting – Open to CEP Members Only</b> Limes Room	
	<b>Session 5  </b> Limes Room	
8.55am	<b>Housekeeping</b>	
9.00am	<b>Steam Thermal Solutions: Efficient, Safer, Sustainable</b> <b>SHARON SHAH   NATIONAL SALES AND DESIGN MANAGER – STEAM BUSINESS   SPIRAX SARCO</b>	
9.05am	<b>Data Driven Materials Innovation for a Circular Economy</b> <b>KRISHNA RAJAN   SUNY DISTINGUISHED PROFESSOR AND ERIC BLOCH CHAIR, UNIVERSITY AT BUFFALO</b> This talk will explore the challenges in advancing engineering technologies in a sustainable or regenerative manner taking into account their environmental footprint. Ultimately such advances depend on materials performance and finding alternative materials chemistries that promote the circular economy paradigm; without compromising existing performance standards. In this presentation we describe how data driven methods and help accelerate the discovery of pathways for identifying new chemistries and/or selection of new alternatives.	
	<b>Session 6a  </b> Limes Room	<b>Session 6b  </b> Victoria Room
9.55am	<b>Solar Energy Opportunities for New Zealand</b> <b>ERIC JANSEUNE   MASTER ENVIRONMENTAL ENGINEER, EWA-TEC LIMITED</b> New Zealand’s energy needs are high and electricity use is one of the highest per capita worldwide.  Almost 80% of electricity production in NZ is from renewable resources, wind, geo and hydro, but this represents only a small fraction from the total energy mix. Valuable electricity is lost during production, transport and distribution, as well as at energy end-use. Electrical heating, hot water production and cooking are very inefficient.  Solar energy, the most abundant renewable energy source worldwide, is NOT on the map in the NZ energy mix. Scepticism towards solar energy is very high while the many opportunities are infinite, but NOT taken in account in the NZ Energy Outlook for 2030-2050.	<b>Wastewater Process Emissions</b> <b>REUBEN BOUMAN   SENIOR ASSOCIATE – PROCESS ENGINEER, BECA</b> Wastewater treatment and disposal is a source of greenhouse gas emissions, notably nitrous oxide and methane. For many Councils around New Zealand, these emissions are estimated to contribute a large portion (>50%) to their organisational baselines, so are receiving particular focus to be able to better estimate, measure and reduce these emissions in line with net zero carbon targets. This presentation summarises wastewater treatment emissions as calculated using the IPCC Guidelines methodology, and provides a number of case study emissions estimates from plants around New Zealand. Additionally, current and future work in the wastewater emissions space is outlined, including the development of a standardised wastewater emissions estimating methodology for New Zealand, as well as work to try and establish on-site testing of emissions at treatment plants around the country.
10.25am	<b>How can we Decarbonise Space Heating and DHW Systems in New and Existing Buildings?</b> <b>MARCUS BAKER   LEAD DESIGNER AND MANAGING DIRECTOR, APRICUS NZ ECO ENERGY</b> There is an immediate need to remove fossil fuel infrastructure from new building designs and a huge demand for replacement in existing buildings. So what is available today and how realistic is the objective of zero carbon heating and hot water systems? This session is a practical, case study dominated exploration of current technologies that are replacing fossil fuel boilers. Focussed on wood pellet boilers, CO2 hot water heat pumps and solar thermal technologies, including associated considerations for fuel storage and delivery, thermal storage and back up heating.	<b>The Importance of Managing Infrastructure Carbon</b> <b>NICK DEMPSEY   TECHNICAL DIRECTOR, MOTT MACDONALD</b> Overseas trends show us that it is increasingly important for asset owners to drive down the emissions from constructing new assets. In New Zealand, this is even more pronounced because of our relatively green energy grid. In this presentation, Nick will discuss why this is important, the structured approaches and tools that are available for managing and collaborating to drive down these emissions, and cover international examples.
10.50am	<b>Morning Tea, Networking, Industry Exhibition</b>	

	Session 7a   Limes Room	Session 7b   Victoria Room
11.20am	<p><b>The Atmospheric Physics of Naturally Cooling the Climate in Time</b>  <b>WALTER JEHNE   DIRECTOR, REGENERATE EARTH</b>            After 50 years of talk we need urgent action to address the dangerous hydrological extremes we have intensified and threaten our bio-systems and future. To safely and naturally cool our climate.</p> <p>Fortunately we still can but only if we respect and restore the physics and processes governing the natural heat dynamics of the blue planet. If we restore the hydrological processes regulating these extremes and most of the abnormal greenhouse effect. If we see beyond methane myths to manage herbivores and the hydrological photo-oxidation processes that have kept methane levels minimal for Millenia.</p> <p>Business or thinking as usual won't do this. Practical innovative lead actions can.</p>	<p><b>A Roadmap to No Coal Usage in the South Island</b>  <b>JONATHAN POOCH   FOUNDER AND MANAGING DIRECTOR, DETA CONSULTING</b>            The South Island has in excess of 1GW of installed coal boiler capacity. EECA's Energy Transition Accelerator (ETA) programme is making great progress in developing long term decarbonisation plans for large users. The question is, how are the plans and future energy needs of these sites going to interact and impact each other? Will there be enough biomass and/or electricity to deliver the required transition? In this presentation, Jonathan will explore the ETA programme outcomes so far, and outline some work that is currently being done to aggregate the decarbonisation plans of all South Island thermal fuel users, and the impact these plans will have on the future of energy usage.</p>
12.10pm	<p><b>Smart-Service Innovation: How we can be Great Hosts and Conserve Resources at the Same Time</b>  <b>SUSANNE BECKEN   PROFESSOR, SUSTAINABLE TOURISM, GRIFFITH UNIVERSITY</b>            Considerable progress has been made to improve the resource efficiency of tourist accommodation. However, the focus has often been on technical solutions, whilst engaging guests has been limited to highly specific interventions, (e.g. no new towels). This presentation introduces an integrated approach that uses smart technology combined with guest communication, to help conserve energy, water, and gas in accommodation. An example from Australia illustrates the opportunity and links it to the concept of regenerative tourism.</p>	<p><b>Decarbonizing Heat: Danone Biomass Boiler Case Study</b>  <b>LOIČ MAHE   ENGINEERING AND CAPEX MANAGER, DANONE</b>            Inspired by its Corporate engagement "One Planet One Health" and its iconic brand "Karicare" commitment, Danone Nutricia has engaged an ambitious transformation plan to convert its Balclutha Spraydrying site into a Carbon Neutral site. The journey has started 5 years ago and, after many challenges and hurdles, it is now coming to life with the commissioning of its new biomass boiler, starting in Q3-2021. Loič Mahe, New-Zealand Engineering manager, will present the facts and figures about this case study, as well as the challenges and learnings from this incredible adventure, who has put together the best of Kiwi and international expertise.</p>
12.40pm	<p><b>STUDENT POSTER PRESENTATIONS</b></p> <p><b>Dapp Zero</b>  <b>ABHINAV RAKESH CHOPRA   UNIVERSITY OF AUCKLAND</b></p> <p><b>Energy Extraction from Low-Temperature Geothermal Resources in Hydrocarbon Fields of Taranaki Region</b>  <b>ROHIT DUGGAL   VICTORIA UNIVERSITY OF WELLINGTON</b></p> <p><b>Building for net-zero carbon</b>  <b>ALICE BUI   MASSEY UNIVERSITY</b></p> <p><b>Transition of Commercial Buildings to Low Carbon: Assessment and Intervention (A&amp;I) Design Focused on Occupants' Behaviour Towards a Shift in Energy Use for Space Heating</b>  <b>ISABEL ANDRADE   UNIVERSITY OF CANTERBURY</b></p>	<p><b>Practical Realities of Converting Coal Boilers to Renewable Energy</b>  <b>STACEY FELLOWS   ENGINEERING MANAGER – ENERGY AND UTILITIES, FONTERRA</b>            For Fonterra to switch to low carbon energy options it is imperative to prove boiler conversion technologies without affecting the ability to process milk. Fonterra shall be sharing experience of learnings and risks of converting from coal as a fuel source at Brightwater and Te Awamutu to renewable energy. At Brightwater by co-firing wood biomass with coal and at Te Awamutu through the 100% boiler conversion from coal to wood pellets</p>
1.05pm	Lunch, Networking, Industry Exhibition	



	<b>Session 8a   Limes Room</b>	<b>Session 8b   Victoria Room</b>
2.00pm	<p><b>Decarbonisation of the Energy Sector: Opportunities in the 2020s</b>  <b>RICHARD HOBBS   GENERAL MANAGER STRATEGY AND CUSTOMER, TRANSPOWER</b>            How is New Zealand’s energy sector contributing to meeting the country’s climate change commitments? What are the largest areas of opportunity to kick start emissions reductions in the 2020s to meet New Zealand’s 2030 Paris target? This presentation will outline how we are tracking as an energy sector and the opportunities that exist to accelerate decarbonisation. It will also outline the key policy, commercial and consumer levers available to achieve this vision.</p>	<p><b>Advanced Energy Analysis: Moving from Algebra to Calculus</b>  <b>ROB BISHOP   ENERGY EFFICIENCY CONSULTANT, ENERGY SOLUTIONS</b>            Energy accounting traditionally follows simple algebraic processes for tracking energy consumption versus targets, and ensuring that intended reductions actually occur. These processes are valuable but miss much of the analytical value of energy accounting. Calculus, which explicitly analyses the changes that occur over time, can be used to show the effects of changes in energy performance over time much more clearly than conventional algebraic analysis.</p>
2.30pm	<p><b>Town-scale Solar Farm and Microgrid Development</b>  <b>SIMON FRANKLIN   MANAGING DIRECTOR, ITP RENEWABLES</b>            ITP Development has a philosophy that it is technically and economically feasible for many regional towns to have solar farms and microgrids at a “town-scale” (5-20MW) designed to match current and future electricity demand, providing locally sourced renewable energy into the local distribution grid. ITP is exploring the potential to bring this approach to New Zealand.</p>	<p><b>Advanced Measurement and Verification Methods ‘M&amp;V 2.0’</b>  <b>LIA WEBSTER   SENIOR ENGINEER   PRINCIPAL, FACILITY ENERGY SOLUTIONS</b>            Advanced measurement and verification methods, or ‘M&amp;V 2.0’, is an important development in reporting energy and carbon savings. Adoption of newer analytical tools that leverage whole-building interval energy data to determine savings has been rapid, but technical savvy is required to properly apply them. The <i>International Performance Measurement and Verification Protocol (IPMVP)</i> provides the basis for M&amp;V, including these advanced methods, and continues to develop new guidance to support industry’s adoption of best-practices.</p>
3.00pm	<p><b>Accelerating Low-carbon Innovation</b>  <b>SHERALEE MACDONALD   ENVIRONMENTAL TECH COMMERCIALISATION</b>            As sustainability and carbon/energy professionals, we have a role to play in accelerating uptake of low carbon and sustainability solutions. You may even have ideas of your own to commercialise! Getting early market feedback, demonstration customers and industry mentors is crucial to entrepreneurs turning their ideas into real products and services that reduce emissions. Get an overview of the Lean Startup process, hear about some new solutions that are in market demonstration phase, and learn about upcoming innovation programmes (Orion Energy Accelerator/Climate Response Accelerator) and what new solutions might become part of your own tool kits in the future.</p>	<p><b>Christchurch City Council Internal and External Resource Efficiency and GHG Emission Reduction Initiatives</b>  <b>KEVIN CRUTCHLEY   RESOURCE EFFICIENCY MANAGER, STRATEGIC POLICY UNIT, CHRISTCHURCH CITY COUNCIL</b>            This presentation will include:            Council’s Internal Resource Efficiency and GHG Emission programme of work – Covering the delivery structure and some of the implemented initiatives.            Target Sustainability services for businesses – Covering this Council service and some of the implemented initiatives.            Battery electric vehicle initiatives – Covering a number of Christchurch implemented initiatives - battery electric car sharing service, battery electric buses, battery electric aircraft, charging infrastructure and the Take Charge Christchurch programme.</p>
3.25pm	<b>Afternoon Tea, Networking, Industry Exhibition</b>	
	<b>Session 9   Limes Room</b>	

3.55pm	<p><b>A New Tool to Help Transition Aotearoa's Buildings to Carbon Zero</b>  <b>SAM ARCHER   DIRECTOR OF MARKET TRANSFORMATION, THE NEW ZEALAND GREEN BUILDING COUNCIL</b></p> <p>There is an urgent need to get our buildings to lower carbon. Toitu and the NZ Green Building Council have launched a new certification for any building type to gain carbon zero certification. Sam will discuss the way the methodology works, it's base energy efficiency requirements, how to measure other carbon impacts such as water use, refrigerant use, waste and the process for both office and non office buildings. Buildings make up 20% of our carbon emissions. Come along to hear how this tool applies to your projects and can help deliver a lower carbon Aotearoa.</p>
4.20pm	<p><b>Human Centric Lighting Implications for Healthy Sustainable Buildings</b>  <b>BIANCA VAN DER ZANDE   TOPIC LEAD HUMAN CENTRIC LIGHTING, SIGNIFY</b></p> <p>In 2015 the United Nations Member States adopted 17 global sustainability development goals as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. Amongst those 17 one relates to good health and wellbeing (SDG 3). That raises the question, what makes a healthy sustainable building? And how can indoor lighting contribute? The science behind the importance of, daytime light for people, as well as the implication for building design requirements, like WELL Building Certification to provide for healthy and productive environments will be touched upon.</p>
4.45pm	Conference Reflections / Wrap up
5.00pm	<b>Conference Closure</b>

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The Conference Managers, ForumPoint2 Limited, in conjunction with the CEP Conference and Exhibition 2021 Organising Committee and the venue are morally and legally responsible to provide a safe and healthy environment for all attendees at conference. This commitment extends to ensuring the conference operations do not place the local community at risk of any injury, illness or property damage.

All measures within our ability will be undertaken to ensure that attendees are as informed as possible about any potential risks or hazards they may face whilst attending conference.

All attendees will need to:

- Listen to the health and safety briefing onsite and/or read the health and safety document available at the registration desk
- Ensure all health and safety concerns; and all accidents or near misses are immediately reported to the safety officer on site.

All attendees are encouraged to be responsible for promoting a safe and healthy working environment for the entire conference duration.

## COVID-19 - MINISTRY OF HEALTH GUIDELINES

We respectfully advise attendees, the conference will be following the Unite Against COVID-19 New Zealand Government advice for public events and mass gatherings.

Prior to conference, we would remind you:

- If you are: unwell, a confirmed or probable case of COVID-19, waiting a COVID-19 test result or self-isolating, please do not attend.
- If you become unwell during the event, self-isolate immediately and call Healthline 0800 358 5453 for guidance and notify Paula Armstrong, ForumPoint2, 027 649 2081 immediately. The ForumPoint2 team carry PPE if you require it.

A First Aid kit is located at the conference registration desk. The closest defibrillator is located at the foyer of the Christchurch Town Hall.

In the event emergency medical assistance is required, please call 111 from the nearest phone/mobile.

The nearest medical centre to the Christchurch Town Hall is:

**Pegasus Health 24 Hour Surgery**  
401 Madras Street, Christchurch  
T: (03) 365 7777  
Open 24 Hours

The nearest pharmacy is:

**Unichem Forte Pharmacy and Post**  
132 Peterborough Street, Christchurch Central City  
T: 03 595 5493  
Open Monday - Friday 8.30am – 5.30pm

## Fire and emergency:

In the event of fire:

- On the discovery of fire, immediately activate an alarm and notify the ForumPoint2 team or venue staff
- Upon hearing alarms, STOP WORK, evacuate immediately. Further instructions may be provided from the venue, please follow all directions
- Designated wardens will be on hand to guide you to the nearest emergency evacuation assembly area
- Proceed immediately to your nearest exit as instructed. Always use the stairs, never the lift
- Await further instructions or clearance for the wardens for an orderly re-entry
- Fire hoses and fire alarm switches must remain visible and accessible to the public at all times

## Earthquake Evacuation:

- Remain in the building
- Move away from any equipment, windows or large furniture
- Take immediate shelter under solid furniture such as tables or desks
- If an evacuation order is given, follow the fire evacuation procedures
- Keep calm and assist those around you

## Accident Reporting

- All accidents and incidents must be reported immediately to the conference registration desk or Paula Armstrong, ForumPoint2 Conference Partners, 027 649 2081.



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