



Asset Management
FORUM | 2021

9th November 2021 — DAY 1

VIRTUAL EVENT

Timing: 1.15pm to 16:10pm

18th November 2021 — DAY 2

VIRTUAL EVENT

Timing: 1.30pm to 16.30pm

22nd November 2021 — DAY 3

VIRTUAL EVENT

Timing: 1.30pm to 16.30pm

**PROGRAMME &
ABOUT THE PRESENTERS**

DAY 1: 9TH NOVEMBER

1.15pm	Log in and check microphone and video are switched off	
1.30pm	Welcome and Introduction: Waqar Qureshi — EEA Asset Management Group (AMG) Chair	
1.35pm	New Zealand Climate / Infrastructure	Andrew Tait — National Institute of Water and Atmospheric Research (NIWA)
2.05pm	Resilience and Climate Change	Rob Deaklin — Land Information New Zealand (LINZ)
2.35pm	Risk Management: Riskscape	Alec Wild — NIWA

3.05pm Break

3.20pm	Risk based approach to Vegetation Management	Ray Hardy — Wellington Electricity
3.40pm	Climate Risk & Overview of NZ reporting requirements	James Hughes — Tonkin & Taylor

4.20PM: Close out — Waqar Qureshi

DAY 2: 18TH NOVEMBER

1.15pm	Log in and check microphone and video are switched off	
1.30pm	Welcome and Introduction: Waqar Qureshi — EEA Asset Management Group (AMG) Chair	
1.35pm	EECA Decarbonisation	Anna Shaw — Energy Efficiency & Conservation Authority (EECA)
2.05pm	Future Architecture projects	Neville Watson — University of Canterbury
2.35pm	Commerce Commission	Simon Todd — Commerce Commence

3.05pm Break

3.20pm	Smart meter use: Counties Energy	Paul Blue — Counties Energy
3.40pm	NIWA Lines tool	Dr Mark Bojesen-Trepka — National Institute of Water and Atmospheric Research (NIWA)
4.00pm	Power Quality	John He — Powerco

4.20PM: Close out — Waqar Qureshi

DAY 3: 22nd NOVEMBER

- 1.15pm Log in and check microphone and video are switched off
- 1.30pm Welcome and Introduction: **Waqar Qureshi** — EEA Asset Management Group (AMG) Chair
- 1.35pm EECA electric vehicles strategy **Richard Briggs** — EECA
- 2.05pm The Integration of electric aircraft in New Zealand: A Power Systems Study **Giacomo Lamplough** — BECA
- 2.35pm Vector EV Connection trial **Steve Heinen** — Vector

3.05pm Break

- 3.20pm Powerco GIS layers **Ken Pattie** — Powerco
- 3.40pm DER Workshop, EA report **Rodger Griffiths** — Westpower

4.30PM: Close out — Waqar Qureshi

ABOUT THE EEA ASSET MANAGEMENT GROUP (AMG) - SCOPE

The AMG coverage includes:

- Electricity Technical Regulation;
- Reliability, Security of Supply and Power Quality;
- Asset condition assessment process and practices;
- Asset specific management practices;
- Demand Management, Metering Infrastructure and Embedded Generation;
- Critical infrastructure protection, resilience and security;
- Electric and Magnetic Fields;
- Broadband Network construction utilising industry assets and resources;
- Industry Skills & Training.

Further information is available via [EEA Standing Committees](#).

ASSET MANAGEMENT FORUM 2020

9TH NOVEMBER 2021: DAY 1 — PRESENTERS



Andrew Tait, NIWA: *Topic: .New Zealand Climate / Infrastructure*



Andrew is Chief Scientist - Climate, Atmosphere and Hazards. His research areas of interest are climate change impacts and implications, adaptation to climate change, spatial modelling of climate, and sector and business applications of climate data. Andrew is a lead author of the Australasia chapter of the IPCC Fifth Assessment WGII Report, a member of the WMO Commission for Climatology (CCI) executive, co-chair of the WMO Focus Area on 'Climate Services for Societal Benefits', and the chair of the Pacific Islands Climate Services Panel. He was seconded to MPI in 2017 to contribute to the Primary Sector Science Roadmap and seconded to DOC from 2017-2019 to interact with researchers, managers, operations staff and the policy team to improve the understanding and use of climate data and information throughout the Department.

Rob Deakin, LINZ: *Topic: Resilience and Climate Change*



Rob is an information scientist and geographer with over 20 years consulting experience in the use and management of geospatial information. In addition to his technical expertise he is an experienced project manager and team leader with experience in both the public and private sectors. Rob has worked internationally on a range of multi-disciplinary studies dealing with sustainable development, land use planning and coastal management. Within these he has been responsible for developing data management strategies, system implementations and knowledge transfer to local teams. Rob played a leading role in the development and delivery of the UK's national flood risk assessments to government agencies and the insurance industry. His work includes the development of climate change scenarios and the incorporation of uncertainty analysis in to location-based decision making.

Alec Wild, NIWA: *Topic: Risk management—Riskscape*



Alec is a Natural Hazards Modeller with NIWA with a strong interest in geospatial and hazard/risk modelling using technology and development. Alec has a PDD from University of Auckland on Geology/ Earth science and a Masters degree from Canterbury University on Hazard and disaster Management. He has a wide range of experience in the development and support of applications for developing in geospatial and hazard/risk modelling forms.

Ray Hardy, Wellington Electricity: *Topic: Risk based approach to Vegetation Management — Wellington Electricity*



Ray is General Manager Asset Management at Wellington Electricity. Prior to his appointment as General Manager Asset Management, Ray held a number of senior asset and project management positions with Transpower. Ray has 27 years of experience working in the electricity transmission and distribution industry and holds a Bachelor's degree in Electrical Engineering and is a member of the Institute of Professional Engineers of New Zealand.

James Hughes, Tonkin & Taylor: *Topic: Climate Risk & Overview of NZ reporting requirements*



James leads work in climate risk and infrastructure resilience for Tonkin & Taylor, he has recently completed work on NZ's first National Climate Risk Assessment, and has been part of the Minister's Climate Change Adaptation Technical Working Group, and was involved with the Deep South National Science Challenge - researching climate impacts on stormwater and wastewater systems. James has worked closely with the local government sector, and was involved with the 2019 sea level rise exposure survey for Local Government New Zealand, as well as developing technical risk-assessment guidance for the proposal Local Government Risk Agency.

ASSET MANAGEMENT FORUM 2020

18TH NOVEMBER 2021 : DAY 2 — PRESENTERS



Anna Shaw, EECA: *Topic: EECA Decarbonisation*



Anna is Business Portfolio Manager Investment and Engagement with EECA where she collaborates with loads of people across shared networks to help business navigate climate action, new technologies and innovation practices. She then works in a complex environment working with leaders to develop the types of frameworks that will help them embark on a process to deliver long term decarbonisation pathways and reinvention of their business model. It's about learning our way into the future and experimenting to co-create how this level of transformation gets delivered in practice. Anna's work is about helping each other to learn towards a co-created future that enables wellbeing for people, place and the planet and for creating the right conditions to enable us all to figure out the future together.

Neville Watson, University of Canterbury: *Topic: Future Architecture project*



Neville R. Watson has a Ph.D. (Hons) and Ph.D. degrees in electrical engineering from the University of Canterbury, New Zealand. He is Professor in the Electrical and Computer Engineering Department, University of Canterbury. His main research areas have been; computer modelling of electrical power systems, HVDC transmission, power quality, harmonics and electromagnetic transients. He is the author/co-author of eight books and more than 300 technical papers.

Simon Todd, Commerce Commission: *Topic: Commerce Commission*



Simon Todd is a senior Analyst with the Commerce Commission, where he is involved on all aspects Electricity Distribution Businesses performance. Simon is a Professional Engineer with regulatory experience and high-level analytical skills in power systems analysis, risk analysis and infrastructure economics. Simon has been involved in some key pieces of work in the industry; Aurora customer prices path setting; Transpower 2020-2025 price path reset in 2019; Powerco customised price path setting in 2018; Gas industry price path reset in 2017; Input Methodology review.

Paul Blue, Counties Energy: *Topic: Smart meter use — Counties Energy*



Paul commenced is General Manager Network with Counties Energy, with overall responsibility for the planning, design and delivery of Counties Energy's entire network. With more than 20 years' experience in the utilities and industrial sectors, including senior management at WEL Networks and with Transpower, Paul has a wealth of industry-specific knowledge.

Dr Mark Boiesen-Trepka, NIWA: *Topic: NIWA Lines Tool*



Mark is an experienced industrial marketer and business development he has valuable experience in leadership, asset management and technology. His career has spanned the primary, energy, infrastructure, steel, chemical and science sectors and their associated supply chains. Mark has specialised competencies in building organisational market focus, innovation and technology transfer, organisational capability development, B2B relationship management and leadership of sales, marketing and technical teams.

John He, Powerco; *Topic: Power Quality*



John is a graduate Engineer at Powerco and completed his electrical engineering studies from Canterbury university in late 2019. Since February 2020, John has been with the Powerco graduate engineer program. The program allowed him to work in several different teams (Network design, Asset fleet and development planning) and play leading roles in planning projects (ie planning the Taranaki hospital feeder upgrade) performing investigations (ie pillar box fire investigation) and updating standards (ie OH earthing standard). John has an interested in Power quality and has undertaking work in reviewing power quality issues with Powerco customers.

ASSET MANAGEMENT FORUM 2020

22ND NOVEMBER 2021 : DAY 3 — PRESENTERS



Richard Briggs, EECA: *Topic: EECA electric vehicles strategy*



Richard is the Manager Transport Programme, Energy Efficiency & Conservation Authority (EECA) Prior to joining EECA, Richard had an extensive career in the telecommunications industry, holding positions as Director, CEO and General Manager level for local and multi-national organisations. The Transport programme takes a portfolio view of all investments into the Transport sector from SME's to large commercial businesses. The Team provides relationship management and investment outcomes for transport related activities. The Transport team also administers on behalf of the Government, The Low Emission Transport Fund. Funding will reach up to \$25 million per year for co-funding projects by 2023/24. The fund supports the demonstration of high potential and replicable solutions, and adoption of low emission transport technology, innovation and infrastructure to help accelerate the decarbonisation of the New Zealand transport sector.

Giacomo Lamplough, BECA: *Topic: The Integration of electric aircraft in NZ: A power Systems Study*



Giacomo Lamplough is a Power Systems Engineer at Beca. Born and raised in Hong Kong before moving to New Zealand to study Electrical Engineering at the University of Auckland. His area of interest is the integration of new technologies and the innovation opportunities of Power Infrastructure Design.

Steve Heinen, Vector: *Topic: Vector EV smart charging trial*



Steve Heinen is Energy Systems Analytics Manager at Vector, New Zealand's largest electricity and gas distributor. His areas of expertise include end-use analytics, customer behaviour, demand-side electrification (heat, transport) and integration of distributed energy resources into the energy systems. Steve has previously worked a researcher at University College Dublin in Ireland, a global leader in integration of variable renewables, at the International Energy Agency in Paris and with ALSTOM Power. He has authored multiple journal articles and international reports such as the IEA's Energy Technology Perspectives and Smart Grid Roadmap. Steve received a Ph.D. degree in electrical engineering at University College Dublin (UCD), Ireland in 2017, a master's degree (MSc ETH) in mechanical engineering from the Swiss Federal Institute of Technology (ETH Zurich), Switzerland in 2009 and a Master's degree in energy economics from Paris-Dauphine University, France in 2010.

Ken Pattie, Powerco: *Topic: Powerco GIS layers*

Rodger Griffiths, Westpower: *Topic: DER Workshop, EA report*



Ken Pattie is responsible for management of the overhead assets fleet team. Including additional responsibility for coordinating the workflow and scheduling of investments for all of the overhead asset fleet. Ken has fulfilled several roles in the electrical industry over his 43 years' experience including maintenance and construction work, network performance, fault work, automation planning and has 16 years' experience in network operations. Also, over the past 20 years with Powerco Ken has been involved with contract management and network planning.



General Manager Assets and Engineering Services at Westpower, EEA Life member and Asset Management Group member. . Rodger spent the last 40ish years working in the electricity industry and is passionate about finding new ways of doing things. He strongly believes there are exciting challenges with new technology and everchanging customer expectations and looks forward to being part of the wider industry response to those challenges.



Engineering Excellence—Electricity Engineers' Association | EEA

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