

SUMMER SCHOOL

in energy economics

17-19 February 2025

Room 040, Level 0, Sir Owen G Glenn Building, 12 Grafton Road

Day 1: 17 February 2025

8:15	Introduction		
8:30	Emilson Silva, Rogério Mazali, Marcus San Pedro, Simon Tao and Guanghao Wang	Flexible industrial electricity demand in NZ: A transdisciplinary R&D proposal	Energy Centre, University of Auckland
9:05	Tina Schirr	Shaping tomorrow's energy system	BusinessNZ Energy Council
9:40	John Carnegie	The balancing act: Reflections on managing policy and complexity in the energy sector	Energy Resources Aotearoa
10:15	Morning tea, Room 041		
10:35	Alan Eyes	The electricity market, regulatory framework, and decarbonisation – a consumer perspective	New Zealand Steel
11:10	Brydie Burrows, Mark Taylor and Yashuang Gao	Transforming aluminium smelters into virtual batteries	EnPot
11:45	Joel Cook	Electricity transmission: Challenges and opportunities	Transpower
12:20	Lunch, Room 041		
13:00	Marcos Pelenur	Energy efficiency first – to help New Zealand save energy, money and reduce emissions	Energy Efficiency and Conservation Authority
13:35	Josh Ellison	The electrification tipping point and what's next	Rewiring Aotearoa
14:10	James Tipping	Orchestrating Aotearoa's distributed energy resources to maximise whole-system value	Vector
14:45	Afternoon tea, Room 041		
15:05	Sarah Gillies	From passive to active investment - regulating to empower consumer participation in the electricity market	Electricity Authority
15:40	Tina Schirr, John Carnegie, Alan Eyes, Brydie Burrows, Joel Cook, Marcos Pelenur, Josh Ellison, James Tipping, Sarah Gillies and Susan Paterson (Lodestone Energy)	En route to 2050: Effective strategies to promote energy security, affordability, and sustainability without hampering economic growth	Facilitator: Emilson Silva
16:40	End		

Day 2: 18 February 2025

8:30	Diego Villalobos	How and why do we regulate energy networks?	Commerce Commission
9:05	Brent Young and Isaac Severinsen	Dynamic demand response and process batteries: The future of industry?	Engineering and Design, University of Auckland
9:40	Geoffrey Waterhouse	Designing nanocatalysts for green hydrogen production	Science, University of Auckland
10:15	Morning tea, Room 041		
10:35	Margaret Cooney	Retail detail: What's changed since 1998 and what's holding competition back	Octopus Energy
11:10	John Campbell	Energy sharing in Aotearoa New Zealand - stories from the frontlines	Our Energy
11:45	Tamara Linnhoff	Electricity markets policy - Part 1: Econ 101, Part 2: How government works	Ministry of Business, Immigration and Employment
12:20	Lunch, Room 041		
13:00	Kevin Hart	Unlocking the power of onshore and offshore wind Energy in Aotearoa New Zealand	Wind Energy Association
13:35	Peter Spencer	Parkwind: Offshore wind – the Norwegian vision and opportunity for New Zealand	Parkwind
14:10	Tom Young	Harnessing offshore wind: Challenges and solutions in New Zealand and beyond	Independent
14:45	Afternoon tea, Room 041		
15:05	Simon Mackenzie	The cult of complacency	Vector
15:40	Karen Boyes, Brent Young, Diego Villalobos, Geoffrey Waterhouse, Margaret Cooney, John Campbell, Tamara Linnhoff, Kevin Hart, Peter Spencer, Tom Young and Simon Mackenzie	Regulations, consents, and competition in the energy sector: Challenges and opportunities	Facilitator: Emilson Silva
16:40	Network & refreshments, Foyer 071		

Day 3: 19 February 2025

8:30	Tim Edmonds	Industrial demand side opportunities to accelerate the energy transition	Simply Energy
9:05	Antony Srzich	Is the electricity market transforming or transitioning?	Mercury Energy
9:40	Brent Rees	Role of innovation & technology in energy economics	Hitachi Energy
10:15	Morning tea, Room 041		
10:35	Ben Anderson	The household energy end use project (2): An introduction to the data and preliminary results	BRANZ
11:10	Alessandro Premier	Smart solar urban furniture: Networked energy-positive infrastructure to increase the urban resilience of Auckland, New Zealand	Engineering and Design, University of Auckland
11:45	Brad Eyes	What are the practical and technical challenges we face with the battery electric vehicle transition?	Vehicle Engineer, Independent Author
12:20	Lunch, Room 041		
13:00	Gareth Gretton	Household energy use: How much, when, and what for; then, now, and in the future	Energy Efficiency and Conservation Authority
13:35	Marcel Podstolski	Aotearoa's future energy system: Power without the carbon?	Meridian Energy
14:10	Antonette Dimaano and Sean Buchanan	Modelling decarbonisation scenarios in LEAP	Transpower
14:45	Afternoon tea, Room 041		
15:05	Manu Barrett	Energy hardship and an innovative way forward	Solar Sense
15:40	Emilson Silva, Zeya Zhang, Marcus San Pedro, Simon Tao, and Invited Students	Residential electricity demand, energy hardship, and the unfortunate heat or eat tradeoff in NZ	Energy Centre, University of Auckland
16:40	End		