



Oceania Renewable Power Summit

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energy one

17-18 SEPTEMBER 2024
AOTEA CENTRE, AUCKLAND, NEW ZEALAND

Mastering renewable generation,
deployment & integration

SOLAR

BATTERIES

WIND



SARAH GILLIES
Chief Executive
Electricity Authority



JOHN CLARKE
Acting Chief Executive
Transpower



**ROKOSERU
NABALARUA**
Chair
Energy Fiji



NICOLA FALCON
*Group Manager - Victorian
Planning & Connections*
Australian Energy Market
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**HON TOEOLESULUSULU
CEDRIC SCHUSTER**
*Minister of Natural Resources
and Environment*
Government of Samoa



TRACEY HICKMAN
Chief Wholesale Officer
Genesis



DR TEVITA TUKUNGA
Director
Tonga Power



CHRISTIAAN ZUUR
*Director Market, Grid
and Investment*
Clean Energy Council

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Oceania Renewable Power Summit

Freeman & Brightstar are delighted to introduce the Oceania Renewable Power Summit, a new two-day, regional conference and exhibition set in Auckland, New Zealand.

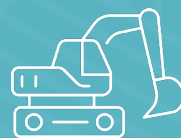
This event will shine a light on the renewable electricity generation sector across Oceania. It will attract expert speakers, sponsors, and delegates from New Zealand, Australia, and the Pacific, including policy makers, operators, regulators, and investors who will share transferable learnings from their respective jurisdictions.

REASONS TO ATTEND

- Gain a comprehensive understanding of the current state of the energy transition across Australia, New Zealand and the Pacific Islands
- Hear from renewable energy experts, business leaders, analysts, regulators and policy makers
- Discover the commercial opportunities in renewable power across Oceania
- Build your network with key renewable power stakeholders from across the region
- Engage with suppliers who have solutions to your construction, investment, asset management and renewable energy procurement challenges

THE SUMMIT'S CONTENT WILL FOCUS ON FOUR KEY THEMES

It will explore how to realise the opportunities in transitioning to renewables, analysing key topics such as funding models, investment, regulations, social acceptance, and engaging the supply chain.



Construction



Market Integration



Financing



Asset Management

8.30 MIHI WHAKATAU

8.40 WELCOME FROM THE MC

Cristiano Marantes - *chief executive, Ara Ake*

8.45 MINISTERIAL ADDRESS: RAISING AWARENESS AROUND RENEWABLE ENERGY AND ITS CONTRIBUTION TO CLIMATE CHANGE MITIGATION

Hon Toeolesulusulu Cedric Pose Salesa Schuster - *minister of natural resources and environment, Government of Samoa*

9.00 STATE OF PLAY IN OCEANIA

We commence the conference with a comprehensive drill-down into renewable power generation uptake across Australia, New Zealand and the Pacific.

- comparing and contrasting between the three regions
- how do we compare globally?
- what does the pipeline look like by generation type and scale?
- observations and outlook

Antoine Gaudin - *managing consultant, energy transition practice, Asia Pacific, Wood Mackenzie*

9.30 LEVERAGING RENEWABLE ENERGY OPPORTUNITIES FOR NEW ZEALAND

Our plans for renewable power uptake in New Zealand; leveraging foreign investment; and the work our Government is doing in the Pacific.

Hon Stuart Smith MP - *National Party Member for Kaikōura*

9.45 MARKET DESIGN, REGULATION & CONTESTABILITY

- what is the policy and regulatory landscape to support innovation, new entrants and independents?
- an electricity market evolving with the renewables revolution
- constructing contestability
- dispersed generation and natural resilience - how we control it at a market level
- system operator settings and design

Sarah Gillies - *chief executive, Electricity Authority*

10.15 DRIVING THE SUSTAINABLE DEVELOPMENT OF RENEWABLE ENERGY INFRASTRUCTURE ACROSS OCEANIA

- delivering pioneering renewable energy projects:
 - leading the world's first big battery and first green-ammonia plant
 - leading Australia's first grid-connected solar and wind farms, first offshore wind farm and first green hydrogen plant
- undertaking socio-economic and environmental impact assessments of renewable energy projects

Paul Gleeson - *managing director - energy, Aurecon*

10.30 MORNING TEA AND NETWORKING

11.00 PANEL DISCUSSION: RENEWABLE ENERGY TRANSMISSION, INTEGRATION & INFRASTRUCTURE

Transmission build lead times can get in the way of large, proven new renewables projects. And then there is the question of who pays for it, who else uses it and will my project be constrained. In this panel discussion we hear different models for propelling renewables development.

- different approaches around ownership and access models
- co-ordination and collaboration for delivery
- when the grid owner's mandate gets in the way of new projects
- how Renewable Energy Zones (REZ) work

John Clarke - *acting chief executive, Transpower*

Nicola Falcon - *group manager - Victorian planning & connections, Australian Energy Market Operator*

John Mackay - *director,*

Australian Energy Market Commission

Facilitator:

Rebecca Mehrrens - *Aotearoa New Zealand energy & industrial leader, Aurecon*

MARKET INTEGRATION

12.00 DEALING WITH INTERMITTENCY: A CASE STUDY ON SOUTH AUSTRALIA

Wind and solar generation combined in South Australia provide in excess of 70 per cent of the state's electricity. With increased variability from renewable generation, how do you integrate it and maintain market and system stability? In this presentation we hear the learnings from South Australia and advice going forwards.

- unlocking the advantages of utility-scale batteries
- the question of affordability?
- synchronous condensers as a means to strengthen the grid
- data management tools and the role of AI in market mechanisms
- system and market operator interventions
- growth predictions

Christiaan Zuur - *director market, grid and investment, Clean Energy Council*

12.30 LUNCH BREAK AND NETWORKING

CONSTRUCTION AND SUPPLY CHAIN

1.30 PANEL DISCUSSION: A REGIONAL APPROACH TO RETHINKING THE GLOBAL SUPPLY CHALLENGE ACROSS, ENGINEERING, PROCUREMENT AND CONSTRUCTION

The landscape has changed considerably around the roles of OEMs and contractors in project delivery, how contracts are constructed, and who wears the risk. Northern hemisphere demand makes sourcing in this part of the world more difficult.

- rethinking traditional industry practices and unlocking efficiencies in project delivery
- new approaches to partnerships, risk ownership and contracting, workforce development, and digital and technology adoption
- what would a local supply system look like – local assembly, licensed assembly
- what supply models work for other utilities eg. 5G deployments
- how many major civil contractors have we got in the region
- is the EPC fixed price construction method even relevant anymore?

Andrew Percival - head of sales, Trina Solar

Trevor Nash - country manager – NZ, Yinson

Daniel Cunningham - general manager, development, Lodestone Energy

Matt Tolcher - gm generation development, Mercury

Facilitator:

Kylie Mutch – partner, Chapman Tripp

2.30 THE CHANGING ROLE OF DISTRIBUTION IN A MORE DYNAMIC GRID

Distributors have a key role to play now with increased intermittency, variable energy flows and the rise of Consumer Energy Resources. How does the market and grid adapt for this and what are some of the considerations along the way?

- key transmission challenges that are relevant to distribution
- how can distribution businesses be more active and manage CER resources to address these challenges?
- regulatory changes required
- the future of distribution in assisting the rise of renewable generation

Marc England – chief executive officer, Ausgrid

3.00 AFTERNOON TEA AND NETWORKING

3.30 PANEL DISCUSSION: SECURING FUNDING FOR RENEWABLE ENERGY PROJECTS

This panel will explore the key considerations and best practices for navigating the evolving landscape of renewable energy financing.

- financing merchant projects
- engaging with Government and gentailers for PPAs

- concessional finance
- designing good offtake agreements to achieve good financing
- key elements by jurisdiction & understanding capability in-country - sovereign risk
- exploring the specific issues relating to solar

Chris Jewell – chief financial officer, Lodestone Energy

James Grant – director specialised finance, Bank of New Zealand

Will Thomson - director, BlackRock

Simon Currie - co-founder, Energy Estate

Facilitator:

Bopha Ly – general manager, energy & renewables, Dexus

4.30 PERSPECTIVE FROM A LARGE ENERGY USER

- exploring how large energy users are looking to procure renewable energy to support their efforts to decarbonise
- what trade-offs are energy users prepared to make in meeting their net-zero ambitions

Nathan Jones - general counsel / regulatory affairs, BlueScope New Zealand & Pacific Islands

5.00 CLOSING REMARKS FROM THE MC FOLLOWED BY NETWORKING DRINKS

DAY 2

8.30 WELCOME BACK FROM THE MC

8.45 LEADERS' PANEL: IDENTIFYING CHALLENGES AND OPPORTUNITIES ACROSS THE RENEWABLES TRANSITION

Market integration, construction, finance, transmission, land use are just some of the challenges faced by renewable power operators and developers. In this panel we explore these in some more depth and also look at how the challenges are being overcome and the opportunities moving forward.

- government-led vs market-led outcomes
- social license and land use
- regulation
- managing and encouraging competition
- have our renewable energy ambitions outstripped our EPC capacity?
- opportunities for greater collaboration on supply, workforce

Tracey Hickman - chief wholesale officer, Genesis

Anna Kominik – chair, Electricity Authority

Sally Torgoman – partner, KPMG

Facilitator:

John Hancock - Signature Consulting

9.45 ENERGY SHORTAGE VS CAPACITY SHORTAGE – THE NEW SOUTH WALES EXPERIENCE

What does an increasingly renewable balance on the grid do to energy and capacity shortages and what are the solutions?

- short and long-term requirements of energy storage – what is required?
- is an energy-only market going to work in the future with renewables?
- demand management

James Hay - *chief executive, Energy Corporation of NSW*

10.15 OVERCOMING THE CHALLENGES OF A NEW BATTERY BUILD

In this presentation we hear about some of the learnings and challenges of the 35MWh Rotohiko Battery Energy Storage System (BESS)

- design, logistics and construction
- integration of complex control systems to meet the New Zealand environment, including the stringent requirements of the electricity code and electricity market
- setting up the business to trade in the electricity market including various requirements and documentation from the likes of the Electricity Authority, Transpower and NZX
- what next? wholesale trading opportunities

Garth Dibley - *chief executive, WEL Networks*

10.45 MORNING TEA AND NETWORKING

ASSET MANAGEMENT

11.15 PANEL DISCUSSION: ASSET MANAGEMENT IN RENEWABLE ENERGY

As renewable energy uptake has increased so have the calls from the grid to generators to ramp up, ramp down as load necessitates. New technologies including robotics, drones and digital twins all provide a broadened range of options.

- opportunities and challenges in this landscape
- equipment and maintenance issues
- technology and solutions to assist in more effective management
- start/stop implications for generating plants e.g. wind turbines having to shut down. Going from load to no load with no ramp-up, ramp-down

Barend van der Poll - *asset manager, Tilt Renewables*
Facilitator:

Chris Buller - *principal engineer, Evoegy*

12.15 LUNCH BREAK AND NETWORKING

THE PACIFIC OPPORTUNITY

1.15 PANEL: ACCELERATING THE DEPLOYMENT OF RENEWABLE GENERATION ACROSS THE PACIFIC

While the neighbouring Pacific region countries now boast a degree of experience in renewable generation, projects in this part of the world aren't without their challenges. How can we accelerate the rollout of renewables in the Pacific and what are some of the key considerations?

- supply chain considerations – attracting labour, equipment and materials
- challenges around ongoing funding for maintenance and asset management
- main islands vs remote communities
- small grid stability concerns
- displacing liquid fuel purchasing power and supply
- financing options
- accreditation and qualifications off-grid and on-grid renewable technicians

Abraham Simpson - *managing director, AM Consultants*

Rokoseru Nabalarua - *chair, Energy Fiji*

Dr Tevita Tukunga - *director, Tonga Power*

Facilitator:

Nick Eldred - *energy and resources market lead, GHD*

2.15 LEARNINGS FROM SOLAR AND PV ROLLOUTS IN TONGA

The Pacific's experience with battery storage support for renewables surpasses most developed countries. Tonga has proceeded with a sophisticated rollout of solar PV and battery storage with its Outer Islands Renewable Energy Project.

- dealing with stability issues with higher levels of penetration of solar

Chris Service - *ESCO & Pacific market Lead, Infratec*

2.45 AFTERNOON TEA AND NETWORKING

3.15 CONCESSIONAL FINANCE FOR RENEWABLES PROJECTS

The Central-West Orana concession structure

David Ryan - *partner, Herbert Smith Freehills*

3.45 CLOSING KEYNOTE: LOOKING TO THE FUTURE - ADVICE FOR THE SECTOR

4.25 CLOSING COMMENTS FROM THE MC

4.30 CONFERENCE CLOSE

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