Wind energy is forecast to grow significantly in New Zealand. The Wind Energy Conference is your unique opportunity to discover the latest insights and information while meeting everyone from the wind energy industry.

The multi stream conference programme features over 60 speakers and two interactive panel discussions across two days. There is a strong New Zealand and international speaker line up, from operational and technical papers to strategic views and developing areas of interest.

**SPEAKERS INCLUDE:**

- **RUSSEL NORMAN**, NZ Green Party co-Leader – Green energy and green jobs in the NZ economy.
  Russel is one of the 14 Green MPs in Parliament, and male co-leader of the Green Party. Russel is the Greens’ spokesperson on economics and finance, and is a strong advocate of harnessing New Zealand’s strategic advantage in clean energy and exporting this to a world hungry for greentech solutions. Russel entered politics in order to save the world – he thinks there’s still a bit of a way to go.

- **DR LAWRENCE JONES** – Issues and solutions; integrating renewables around the globe
  US based Dr Jones is the world’s foremost expert on integrating renewables into grid systems. He led a study looking into renewables integration and management tools used by 33 power systems in 18 countries, including information from New Zealand and Australia.
  Dr Jones will share his insights on integrating renewables and place them in the New Zealand context.

- **PROF SIMON CHAPMAN** – Sorting fact from fiction; Psychogenic aspects of ‘wind turbine syndrome’
  Simon Chapman is Professor in Public Health at the University of Sydney and a high profile figure with a track record on issues such as tobacco and health research. He has also been openly critical of the health claims put forward by wind farm opponents. This will be a unique opportunity to hear a health expert’s view on the debate currently raging in countries such as Australia and the US, and across the world wide web.

- **DR ROYDEN SOMERVILLE QC** – Making the NPS Renewable Electricity Generation work in practice
  Dr Somerville chaired the Board that developed the draft National Policy Statement for Renewable Electricity Generation provided to the Minister for the Environment. One year on from when the Minister launched the NPS-REG at the NZ Wind Energy Conference Dr Somerville will give his views on an effective implementation programme, different agencies roles and the industry’s role in implementing the NPS-REG.

- **SHONAGH KENDERDINE** (recently retired Environment Court Judge) – Community dynamics and consenting issues
  Shonagh Kenderdine’s experience includes hearing major wind farm consents. She will share her views on the consenting and community issues that need to be addressed to grow the number of wind farms in New Zealand, and some ideas on potential solutions.
  Shonagh Kenderdine will also lead a panel discussion on community and consenting issues.

- **STEVE BIELBY** – Wind and gas, the perfect match?
  Steve Bielby, CEO of the NZ Gas Industry Company, will share with delegates his views on whether wind and gas generation could be the perfect match in an integrated electricity system.

- **FUTURES FORUM – PANEL**
  A lively panel discussion featuring leading technologists from around the world talking about what the wind industry will look like in 2030.

- **CONSENTING AND COMMUNITY – PANEL**
  Judge Shonagh Kenderdine and Dr Royden Somerville QC will lead an expert panel debating this hot topic.

**REGISTER NOW – www.nzwec.com**
CONFERENCE PROGRAMME

Monday 2 April
12.30pm – 5.00pm
Wind Farm Tour
An organised tour of the nearby Te Uku wind farm, completed last year and already delivering impressive results. [Book separately]

Tuesday 3 April

9:00am – Welcome and Keynote Session – Sponsored by TrustPower
›› Green energy and green jobs in the NZ economy – Russel Norman, NZ Green Party co-Leader
›› Issues and solutions, integrating renewables around the globe – Dr Lawrence Jones, Alstom Grid
›› Sorting fact from fiction, Psychogenic aspects of 'wind turbine syndrome' – Prof Simon Chapman, Professor in Public Health, University of Sydney
›› Making the NPS Renewable Electricity Generation work in practice – Dr Royden Somerville QC
›› Vision 2030, the shape of the wind industry in the future – Eric Pyle, CEO, New Zealand Wind Energy Association

LUNCH

1.30pm – Attend one of three streamed sessions
Community
Public opinion of generation alternatives – Dr Janet Stephenson, Director, Centre for Sustainability: Agriculture, Food, Energy, Environment, University of Otago
Wind farms, ecology and communities – Forest & Bird
For the long haul: Maintaining stakeholder engagement – Jamie Foster, Development Exec, Origin Energy

The Big Picture
Mixed ownership model what does it mean for wind? – Matthew Freeman, Managing Director, Energy News
Wind and gas: the perfect match? – Steve Bleby, Chief Executive, Gas Industry Company
Supporting our growing industry – Speaker TBC

Forecasting and Fuel
Advances in weather forecasting over the next ten years – Dr. Michael Uddstrom, Principal Scientist, Meteorology & Remote Sensing, NIWA
Using forecasting, an operator’s experience – Speaker TBC
Forecasting wind power at grid injection points – Brian Peters, Product Manager Energy and Modelling, MetService

AFTERNOON TEA

3.15pm – Attend one of three streamed sessions
Community and Consenting
Biodiversity and offsetting, answering the community objections in a sensitive landscape – Andrew Hurley, Generation Manager, MainPower
Te Uku: the community experience – Julian Elder, Chief Executive, WEL Networks

Panel Discussion: Shonagh Kenderdine and Dr Royden Somerville QC will lead an expert panel

O&M
10 years of O&M lessons – Lars Pedersen, Vestas
Measuring wind turbine reliability: results of the Reliawind project – Philip Wong Too, Senior Engineer, GL Garrad Hassan
Designing turbines to reduce long term O&M
Lowering O&M costs by design – Aurelie Fabre, REpower

Wind Resource
Energy yield, potential errors and best practice for improved pre-construction predictions – Blair Walter, Renewable Energy Leader, Aurecon
Application of SODAR technology in complex terrain – Tony Rovers, Senior Wind Engineer, Meridian Energy
New technologies for wind and gust profiling – Prof Stuart Bradley, Director, Wind Measurement Technologies, University of Auckland
Using WAsP and WindSim in energy yield predictions – Michael Green, Meteorologist, Aurecon

6.00pm – Pre-dinner drinks reception, The Atrium, Hamilton City Centre
6.30pm – Wind Energy Conference Dinner, The Atrium, Hamilton City Centre. Dinner speaker sponsored by ABB
Wednesday 4 April

9.00am – Futures Forum – Panel Debate

A lively panel discussion featuring leading technologists from around the world talking about what the wind industry will look like in 2030.

MORNING TEA

11.00am – Attend one of four streamed sessions

<table>
<thead>
<tr>
<th>Consenting Issues</th>
<th>Wind Connections</th>
<th>Health and Safety</th>
<th>Technical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best practice and wind farm consenting: lessons from Te Uku – Simon Berry, Counsel, Environmental Law and Jen Veia, Barrister</td>
<td>20% wind: how will the grid accommodate it? – Kieran Devine and Doug Goodwin, Transpower</td>
<td>Crane safety and the wind industry – Phil Tradgett, EHS Manager, Siemens</td>
<td>E-Houses: prefabricated substations for wind farms – Bruce Blundell, Business Development Manager, Siemens</td>
</tr>
<tr>
<td>Water quality monitoring of stream tributaries to determine the effects of sediment runoff from wind farm construction activities – Brett Stanfield, Fresh-water Scientist, Environmental Impact Assessments</td>
<td>Wind generation connection requirements in Australlasia – Michael Owen, Technical Director, Power Systems Analyst, Beca</td>
<td>Training requirements and expectations on employees in emergencies – Phil Hiskinga, Industrial Training Manager, Vertical Horizons Group</td>
<td>Transient Stability Assessment with Large Scale Wind Penetration – Transpower sponsored student presentation</td>
</tr>
<tr>
<td>Earthworks and sediment control during construction – Michael Parsonson, Southern Skies</td>
<td>Energy in the wind: integrating the transmission network for a better approach to wind farm prospecting – Elisa Puccioni, GIS Analyst, Kenex</td>
<td>Developing an H&amp;S programme on a new small wind farm – Robert Miller, Pioneer Generation</td>
<td>Controlling sound from wind turbines – Dr. Katrina Swalwell, Senior Wind Engineer, REpower Australia</td>
</tr>
<tr>
<td>Levels of Infraground and ground vibration in close proximity to mega-watt sized wind turbines – Paul Botha, Wind Technical Strategy Manager, Meridian Energy</td>
<td>South island frequency limits on wind farms – Mike Pethearn, Senior Investigation Engineer, Transpower</td>
<td>H&amp;S in wind farm development – Simon Faulkner, Aurecon</td>
<td>Wind turbine development trends in turbulent conditions – Josef Kryger Tadich, Technical Manager, Alstom</td>
</tr>
</tbody>
</table>

LUNCH

2.00pm – Attend one of three streamed sessions

<table>
<thead>
<tr>
<th>Consenting Issues</th>
<th>Electricity Market</th>
<th>Technology Developments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current trends in wind farm acoustics assessment and consent conditions – Stephen Chiles, Principal, Acoustics Engineer, URS</td>
<td>Increasing the value of wind the demand/response smart grid – Stephen Drew, Enrenoc</td>
<td>Use of wireless power technology in the wind industry – Fady Mishriki, CEO, PowerbyProxi</td>
</tr>
<tr>
<td>Wind farms and the RMA: Implementing the NPSREG &amp; NZWEA Best Practice Guidelines Workshop – Ben Farrell, Senior Environmental Planner and Guidelines Project Manager, NZWEA</td>
<td>Changing gate closure – Mike Roan, Trading Manager, Meridian Energy</td>
<td>Systematic development of lubricants: new gear oil development – Kirsten Tschauder, OEM Manager Lubes and Greases, BP</td>
</tr>
<tr>
<td>WORKSHOP SESSION: Content and application of wind farm guidelines</td>
<td>Electricity market of the future with wind – Peter Calderwood, Strategic Business Development Manager, TrustPower</td>
<td>4.5MW turbine assembly with 2MW resources. Technical challenges and solutions – Alejandro Córcoles Crespo, Engineering Department, Gamesa</td>
</tr>
</tbody>
</table>

AFTERNOON TEA

3.45pm – Review and wrap up

▶ Mt Stuart construction – Fraser Jonker, CEO, Pioneer Generation
▶ 12 months on at Mahinerangi: has the wind farm met business expectations? – Ian Lees, Wind Power Asset Manager, TrustPower
▶ Te Uku, the first year – experiences and results – Russell Thomas, Wind Asset Manager, Meridian Energy

4.30pm – Conference closes

NZWEA reserves the right to alter the conference programme.
Why attend?
At the 2012 NZ Wind Energy Conference and Exhibition you will:
›› explore how NZ developers are optimising projects, from design through development to operation, to create economically competitive wind farms
›› learn how changes in policy, regulation and technology are creating greater opportunities, both here and overseas
›› gauge the state of the NZ and international wind energy markets
›› compare the New Zealand and Australian markets
›› meet with key players in NZ and the international wind energy industry.

The New Zealand Wind Energy Conference and Exhibition is the annual event for New Zealand’s wind energy industry. It is also Australasia’s only dedicated wind energy event that:
›› enables detailed discussion on both policy issues and practical aspects of wind farm development and operations
›› is organised specifically by the industry for the industry.

Who attends?
The 2012 Wind Energy Conference and Exhibition attracts delegates and exhibitors from the full range of organisations involved in the wind energy industry:
›› electricity generators
›› electricity retailers
›› wind farm developers and operators
›› central and local government
›› turbine manufacturers
›› Transpower – the transmission owner/operator
›› Electricity Authority – the market regulator
›› environmental and planning consultancies
›› engineering firms
›› construction firms
›› service and maintenance providers
›› universities and research institutions
›› component suppliers
›› lines companies
›› banks
›› legal firms.

register now – www.nzwec.com

REGISTRATION FEES
All prices exclude GST (15%)

Full registration
NZWEA Members: $920
Speaker and Gold Sponsors: $820
Students: $250
Others: $1,200

One day registration
NZWEA members: $500
Speaker and Gold Sponsors: $425
Others: $650

Side events
Dinner: $126
Te Uku wind farm tour: $100
(The Exhibition opening on Monday 02 April and Post-Conference reception on Wednesday 04 April are included in the delegate fee)

A late fee of $80 (plus GST) will apply to all registrations on or after Monday 27 February.

Terms and conditions
Substitutions will be accepted up to and including the day of the event, but the person registered on the registration form is liable for payment of the registration fee.
Registrants cancelling on or before 04 March 2012 will be charged an administration fee of $50. Registrants cancelling between 04 March and 30 March 2012 will be charged 30% of their registration fee. Registrants cancelling after 30 March 2012 will be required to pay the full registration fee. All cancellations must be received in writing.

ORGANISED BY: THE NEW ZEALAND WIND ENERGY ASSOCIATION
| PO Box 553 | Wellington 6140 | New Zealand | +64 4 499 5046 | info@windenergy.org.nz | www.windenergy.org.nz |