

Friday Forum #10

The Sustainable Electricity Debate

Friday, 4 July 2008 , 9am – 12 noon
Conference Centre, 585 Great South Road, Penrose.

Speakers:

Rilke de Vos (NIWA), is an energy research engineer driven by the passion to see a transformation in the carbon intensity of energy use in New Zealand. Combining the skills of environmental and process (chemical) engineering, his design and management experience includes: offshore / onshore oil and gas petroleum refining, municipal solid waste gasifier and bio-fermenter development, algae biomass conversion and metals recovery design as well as dynamic simulation of chemical and physical processes. In 2006, Rilke took a science role within NIWA's Nation Centre for Climate-Energy Solutions and has since been actively engaged in developing alternative energy technology solutions for remote New Zealand, greenhouse gas emission visualisation tools, and has evaluating national energy pathways (www.energyscape.co.nz).

Steve Goldthorpe, is a chemical engineer with a background in computer simulation of novel process technologies. As an energy systems analyst he has done due diligence assessments of novel energy conversion proposals, audited greenhouse gas inventories and devised CO₂ abatement schemes. He has also prepared many assessments of environmental effects of discharges to air for industrial clients seeking consent under the Resource Management Act. Since 2002 he has been the director of Steve Goldthorpe Energy Analyst Limited providing consultancy services on novel energy technology assessments, sustainable energy policy and greenhouse gas inventories and auditing.

Gerry Te Kapa Coates (Wise Analysis Ltd) is a member of NZSSES and a professional engineer and consultant who has always taken a keen interest in how technology interacts with society. As President of the Institution of Professional Engineers in 2003 he led a task force on sustainability. Earlier in 1983 he started Engineers for Social Responsibility, which is still very active. His professional interests range widely from sustainability through renewable energy to transport. He was on the board of Land Transport New Zealand till 2007, and is currently chair of the New Zealand Wind Energy Association and the Marine Energy Deployment Fund evaluation panel. He is also Ngāi Tahu, and on its governing body Te Rūnanga o Ngāi Tahu.

Sustainability Forums

The NZSSES hold regular forums aimed at exploring different engineering and science sectors and their approach to sustainability. The forums are morning sessions and comprise brief presentations from guest speakers followed by a facilitated discussion.

It is hoped that problems with understanding and implementing sustainability principles will be identified and discussed.

Topics so far:

- Biofuels (May 2008)
- Water: Supply and Storage (March 2008)
- Future thinking and Frontier Design (February 2008)
- Carbon Trading (October 2007)
- Sustainable Transport: Cars and Congestion (August 2007)
- Talking and Walking Sustainability Conference (February 2007)
- Governance and Sustainability (September 2006)
- Consultants and Sustainability (May 2006)

NZSSES

The New Zealand Society for Sustainability Engineering and Science is a Learned Society established to foster the discipline of sustainability engineering and science as the study of complex systems. NZSSES provides training and information sessions on sustainability through its workshops, seminars, forums and international conferences.

The NZSSES is a Technical Interest Group of the Institution of Professional Engineers of New Zealand and an Affiliated Organisation of the Royal Society of New Zealand.

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Programme –4 July 2008

9am	Welcome and introductions	Dr Carol Boyle Chair NZSSES
9.10am - 9.40am	Title of presentation: The mystery behind national objectives Precis: A review of the change drivers and motivations that set the New Zealand energy strategy.	Rilke de Vos
9.45 am - 10.15 am	Title of presentation: Is 90% renewable electricity by 2025 achievable? Precis: Expected demand profile defines the supply profile. The renewable content is subject to what fills the profile and what is shutdown in the intervening years.	Steve Goldthorpe
10.15 am	Morning tea (20 minutes)	
10.35am	Title of presentation: Enabling and disabling factors Precis: What is needed to achieve the target – investment, regulation, planning? What could upset the process?	Gerry Te Kapa Coates
11.05am - 12 noon	Panel Discussion / Debate / Wrap up FINISH	

Registration / Information

Fee	<ul style="list-style-type: none"> ○ Free for members of NZSSES ○ \$40 incl. gst for non members ○ Please note a 25% cancellation fee applies to all cancellations. ○ Cancellations made within 48 hours and Non-attendance on the day will incur the full fee
More information?	<i>Details on www.nzsses.auckland.ac.nz</i>
To Register	<i>Email to vicky@nzsses.org.nz</i>