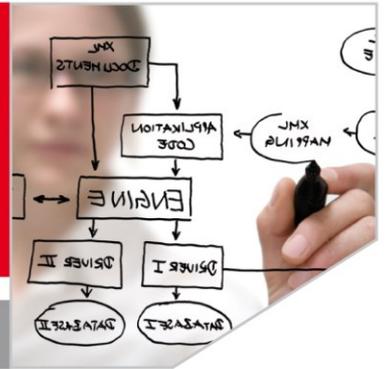


100% Renewables for Australia? Challenges and Opportunities



Joint Electrical Institutions Sydney - Engineers Australia, IEEE, IET

Public Lecture

Date:	Thursday, June 26 th
Time:	5.30 pm for 6:00 pm start
Venue:	Engineers Australia Auditorium, Ground Floor, 8 Thomas Street, Chatswood
Speaker:	Dr Jenny Riesz Centre for Energy & Environmental Markets: UNSW Australia
Further Information:	Contact Name Trevor Blackburn - t.blackburn@unsw.edu.au
RSVP:	Registration

ABSTRACT:

As a nation heavily dependent upon coal-fired energy, Australia is a long way from a 100% renewable power system. Nevertheless, given mounting pressure for decarbonisation, we may be on that path sooner than we think. Is 100% renewables possible for Australia? How would it work? And what would be the best way to get there? In this talk Dr Riesz will draw upon Australian and international research to discuss the technical challenges that are likely to emerge as we move to higher penetrations of renewables, as well as the electricity market design issues that will need to be addressed to make 100% renewables feasible.

SPEAKER BIOGRAPHY

Dr Jenny Riesz is a research associate with the Centre for Energy and Environmental Markets, at UNSW. With more than ten years of experience in electricity system modelling, Jenny was a Senior Consultant in the Energy Strategic Advisory team at AECOM (a multinational consultancy) and was the Principal of Renewable Energy and Climate Policy at ROAM Consulting (a leading provider of electricity market modelling services). Her research examines high penetration renewable power systems, with particular focus on the design and operation of electricity markets. She has led the delivery of consulting services to a wide range of clients, including the Australian Energy Market Commission (AEMC), the Australian Energy Market Operator (AEMO) and the Clean Energy Council, among others. Significant studies have included analysis of Frequency Control Ancillary Service requirements and costs with high wind penetration, examination of the market impacts of network congestion on wind farm operators and detailed analysis of the Renewable Energy Certificate market in Australia. Jenny has a PhD in biophysics from the University of Queensland.

