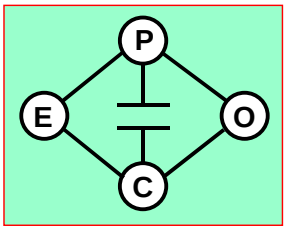
Electric Power Optimization Centre

http://www.esc.auckland.ac.nz/epoc/



Winter Workshop 2007: Measuring and Improving Electricity Markets

Room 1.439, School of Engineering, The University of Auckland

Friday, September 7, 2007

The Electric Power Optimization Centre at the University of Auckland is a research group supported by the Public Good Science and Technology Fund. Our research focuses on the development of optimization and statistical models for decision support in wholesale electricity pool markets. The Sixth Annual Winter Workshop at the University of Auckland is a free one-day meeting for invited industry participants. The theme of the 2007 Workshop is on measuring and improving electricity pool markets. There will be time allocated after each talk for questions and discussion.

Timetable and presenters:

9:00:	**Convene in 4th floor atrium of School of Engineering, 20 Symonds Street**
9:00 – 9:30:	**On the convergence of SDDP and related algorithms** **Ziming Guan (EPOC)**
9:30 – 10:00:	**Measuring productive efficiency losses in the NZEM** **Owen Auger (EPOC)**
10:00 – 10:30:	**Discussion: Market performance modelling**
10:30 – 11:00:	**Coffee**
11:00 – 11:30:	**Mixed integer programming models for wind farm design** **Hamish Waterer (EPOC)**
11:30–12:00:	**A new dispatch model for intermittent generation** **Geoff Pritchard (EPOC)**
12:00 – 12:30:	**Discussion: New dispatch and pricing models for intermittent generation**
12:30 – 1:30:	**Lunch**
1:30 – 2:00:	**Competitive capacity sets - existence of equilibria over transmission networks** **Tony Downward (EPOC)**
2:00 – 2:30:	**The GEM model** **Phil Bishop (Electricity Commission)**
2:30 – 3:00:	**Coffee**
3:00-3:30:	**Competition policy and regulation in hydro-dominated electricity markets** **Luiz Rangel (UoA Energy Centre)**
3:30 – 4:00:	**Uniform-price auctions versus pay-as-bid auctions** **Andy Philpott (EPOC)**
4:00 – 4:30:	**Long-term network development demand forecast for Vector Networks** **David Spackman (UoA Power Systems Group)**