UK Energy Research Centre (UKERC)

(in collaboration with ETSAP, PSI, DTI and AEAT)

Workshop on Modelling Future Energy Technology Cost and Technology Choice

10.00am – 5.45pm, 15 November 2005

(Followed by Drinks Reception)

St Anne's College, Oxford

The workshop is intended to:

- highlight the approaches in a range of energy models to determining the future costs of existing technologies and the introduction of currently pre-commercial energy technologies;
- stimulate discussion on conflicting and complementary approaches to characterizing future energy technologies;

The workshop will bring together researchers working within the International Energy Agency's ETSAP network of MARKAL model users, and well as the UK energy modelling community. One of the purposes of UKERC is to develop networking and collaboration between UK energy researchers and also with the wider network of international energy practitioners. This workshop is being run in parallel with the regular ETSAP semi-annual meeting.

PROGRAMME

10.00 Arrival and Registration

Session 1: Chair – Peter Taylor, AEA Technology

Overview of Workshop

10.30 Introduction to UKERC and Goals of Workshop
Neil Strachan, Policy Studies Institute

10.45 Overview of ETSAP, and MARKAL Family of Models
GianCarlo Tosato, ETSAP

Session 1 (continued): Chair – Peter Taylor

11.10 Innovation and Threshold Effects in Future Energy Technology Modelling
Dennis Anderson, Imperial College

11.40 Energy Technology Paths and Technology Learning
Clas-Otto Wene; Wenergy AB

12.10 Technological Change in Environmental Modelling: Learning Curve Versus Technical Coefficients
Jonathan Köhler, University of Cambridge

12.40 LUNCH

Session 2: Chair – GianCarlo Tosato, ETSAP

1.40 Issues on Future Technology Cost Estimation: An Overview
Nazmiye Ozkan and Neil Strachan, Policy Studies Institute

2.10 Modelling Endogenous Technological Change in MARKAL and other Optimization Models
Socrates Kyrepos, Paul Scherrer Institute; and Gerard Martinus, ECN Netherlands

2.40 Overview of NEEDS Project: Scenario Dependent Evaluation of Technology Externalities
Denise Van Regemorter, Katholieke Universiteit Leuven [TBC]

3.10 COFFEE/TEA

3.30 Stochastic integrated assessment modelling with induced technical change
Stephen Albreth, Cambridge University

4.00 Insights from the Climate Change Policy Review and Implications for Energy Technology Modelling
Michael Grubb, Carbon Trust and Imperial College

Session 3: Chair – Paul Ekins, Policy Studies Institute

4.40 Discussion – Best Practices in Modelling Future Energy Technology Costs and Choice

Discussant 1: Tim Foxon, Cambridge Econometrics

Discussant 2: Richard Loulou, Haloa Inc [TBC]

5.00 General discussions

5.40 Summing up
Paul Ekins, Policy Studies Institute

5.45 DRINKS RECEPTION