



ADVANCE MEETING

University College London (UCL), 16 Taviton Street, London, WC1H 0BW

September 14 – 16, 2015

AGENDA

Monday, September 14, 2015

Room 347 (3rd floor)

Chair: I. Keppo, UCL

- 11:00–11:30
- **Welcome**, N. Strachan, UCL
 - **Objectives of the meeting**, E. Kriegler, PIK
 - **Introduction to wholeSEM project, which co-hosts the meeting**, I. Keppo, UCL

- 11:30-12:30 **Model diagnostics (WP1)**
- Results from diagnostics exercise, E. Kriegler, PIK
 - Short inputs:
 - More suitable meta information for classifying CGE models, L. Paroussos, NTUA
 - Energy system lock-in and path dependency, G. Luderer, PIK
 - Linking technology information with model behavior/diagnostic indicators, I. Keppo, UCL
 - Discussion and next steps

12:30-13:30 Lunch - Room 433 (4th floor)

Chair: C. Wilson, UEA

- 13:30–14:15 **Representation of existing policies & demand side heterogeneity (WP3)**
- Introduction, K. Riahi, IIASA
 - Energy access modelling and results, S. Pachauri, IIASA
 - Energy subsidy scenarios, J. Jewell, IIASA
 - Depicting consumer choice in the transport sector, D. McCollum, IIASA

- 14:15-15:00 **Systems Integration, Resource Bottlenecks and Path Dependencies (WP5)**
- Overview of WP5, G. Luderer, PIK
 - Results from Task 5.1 on integration of Variable Renewable Energy, R. Pietzcker, PIK

15:00-15:30 WholeSEM input on grid infrastructure modeling, M. Aunedi, Imperial College

15:30-16:00 Coffee break - Room 432 (4th floor)

- 16:00-18:00 **Break-Out Group WP5**
Room 347 (3rd floor)
- Integration costs as calculated with REMIX, R. Pietzcker, PIK
 - Final modeling approach MESSAGE, N. Johnson, IIASA
 - Final modeling approach POLES, J. Depres/S. Mima, UPMF

- Break-Out Group WP3**
Room 433 (4th floor)
- Model comparison on subsidy removal policies: Diagnostics and Findings, J. Jewell, IIASA
 - Recycling of energy subsidies, L. Paroussos, NTUA
 - Energy subsidies in WITCH, J. Emmerling, FEEM



- Final modeling approach IMAGE, H.S. de Boer, PBL
- Integration Crosscut: findings, open questions, team contributions, R. Pietzcker, G. Luderer, PIK
- Open questions on the submission process
- Overview of WP3 model-comparison on vehicle choice: diagnostics, findings, and issues, D. McCollum, IIASA
- Individual research team presentations, PBL, FEEM, UEA
- Transport mode choice modeling with TIAM-UCL model, H. Daly, UCL

19:00 Joint dinner - Sardo Restaurant, 45 Grafton Way, London W1T 5DQ

Tuesday, September 15, 2015
Room 347 (3rd floor)

09:00-10:00 **Policy-realistic scenarios and preparation of the policy impact assessments (WP6)** Chair: C. Bertram, PIK

- Outline of the Policy Scenario Impact Analysis, Z. Vrontisi, IPTS
- Protocol for Policy scenarios, B. Saveyn, IPTS
- Timeline up to finalisation, B. Saveyn, IPTS

10:00-10:45 **Representation of the demand side (WP2)**

- Buildings update and Service sector model, O. Edelenbosch, PBL
- Industry update and Iron & Steel modelling protocol, K. Kermeli, UU, D. Gernaat, PBL
- Transport update and Price elasticity scenarios, O. Edelenbosch, PBL
- Splitting routine for energy transactions in IO, L. Paroussos, NTUA

10:45-11:15 Coffee break - Room 346 (3rd floor)

11:15-12:00 **Uncertainty and technological change (WP4)** Chair: J. Emmerling, FEEM

- Implementation of the energy efficiency module in WITCH, M. Tavoni, FEEM
- Estimation of learning curves, M. Tavoni, FEEM
- Global Sensitivity Analysis of SSP scenarios, M. Tavoni, FEEM
- Model uncertainty aversion, M. Tavoni, FEEM

12:00-13:00 Lunch - Room 433 (4th floor)

<p>13:00-15:00 Break-Out Group WP2 Room 347 (3rd floor)</p> <ul style="list-style-type: none"> • Transport special issue: discussion of all articles and planning, O. Edelenbosch, D. Van Vuuren, PBL • Price elasticity scenarios, O. Edelenbosch, D. Van Vuuren, PBL • Transport module in GEM-E3, L. Paroussos, NTUA <ul style="list-style-type: none"> ○ IMAGE service sector model & 	<p>Break-Out Group WP4 Room 432 (4th floor)</p> <ul style="list-style-type: none"> • Global sensitivity analysis: latest results and next steps, G. Marangoni, FEEM • Modelling to Generate Alternatives, J. Price, UCL • Expert elicitation of energy intensity improvement: a proposal, M. Tavoni, FEEM
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- REMIND buildings model, O. Edelenbosch PBL, A. Levesque, PIK
- Next steps in buildings model development, O. Edelenbosch, D. Van Vuuren, PBL

15:00-15:15 Coffee Break - Room 433 (4th floor)

15:15-17:00 **Open Space**

- Industry modelling: focus on cement and iron and steel subsector
- WP3 vehicle choice modeling: residual issues to be discussed
- WP5 work on LCA modeling
- Other topics tbd

17:30-18:30 **ADVANCE & wholeSEM panel discussion**

Room G01, UCL Energy Institute, Central House, 14 Upper Woburn Place, WC1N 0NN

The IAM perspective

- Elmar Kriegler, PIK - The use of IAMs for policy analysis
- Keywan Riahi, IIASA - The role of IAMs for the analysis of sustainable development

Feedback from policy and business

- Martin Haigh, Senior Analyst and lead on Shell's world energy model, Shell International
- Jonathan Tecwyn, Head of Energy Pathways Modelling Team, Analysis Directorate, The Department of Energy & Climate Change (DECC)

General Q&A

18:30 Drink reception - same venue as panel discussion

Wednesday, September 16, 2015

Room 347 (3rd floor)

Chair: Matthew Winning, UCL

09:00-11:00 **Report back from the Break-Out Groups & Next steps (WP2, WP3, WP4, WP5)**

11:00– 11:30 **Outlook:** Scenario protocol for the updated climate change scenarios, G. Luderer, PIK

11:30-12:00 Coffee Break - Room 346 (3rd floor)

12:00-12:30 **Feedback from Scientific Advisory Board**

12:30-13:00 **Wrap-up session**, G. Luderer, PIK

13:30 Light lunch and adjourn - Room 346 (3rd floor)

