

ADVANCE MEETING

Milan, May 14-16, 2014
Fondazione Eni Enrico Mattei
Corso Magenta 63

Agenda

Wednesday, 14 May 2014

14.30 - 14.45 Welcome - M. Tavoni - FEEM
Objectives of the meeting - E. Kriegler – PIK

Chair: M. Tavoni - FEEM

14.45 - 15.45 Model documentation and diagnostics (WP1)

- Documentation: update & next steps towards finalization, V. Krey - IIASA
- Diagnostic database and automated climate evaluation, V. Krey - IIASA
- Proposal on Diagnostic Protocol, E. Kriegler - PIK
- Discussion and next steps

15.45 - 16.00 Coffee Break

Chair: D. McCollum - IIASA

16.00 - 16.45 Representation of the demand side (WP2)

- Data collection, O. Edelenbosch - PBL
- Hybrid modelling, L. Paroussos - NTUA
- Collection of questions for BOG

16.45 - 17.30 Uncertainty and technological change (WP4) - M. Tavoni - FEEM

- Workshop on Uncertainty: report back
- Theoretical/empirical work on technological change & learning curves
- Technology diffusion with granularity
- Computation of learning rates for the main technologies
- Collection of questions for BOG

17.30 - 18.15 Supply-side bottlenecks and path dependencies (WP5)

- Systems integration of renewables, G. Luderer - PIK
- LC impacts of energy technologies, A. Arvesen - NTNU
- Representation of infrastructure in IAMs, C. Guivarch - CIRED (tbc)
- Collection of questions for BOG

19.30 *Joint Dinner*

Thursday, 15 May 2014

Chair: K. Riahi - IIASA

09.00 - 10.00 Representation of existing policies & demand side heterogeneity (WP3) –

- Transport literature review, C. **Wilson** - UEA
- Transport modelling plans, D. **McCollum** - IIASA
- Energy access modelling plans, S. **Pachauri** - IIASA
- Incorporating subsidies/taxes into IAMs, J. **Jewell** - IIASA
- Collection of questions for BOG

10.00 - 10.15 *Coffee break*

10.15 - 12.45 Break-Out Group WP3 - Chair: K. Riahi - IIASA

- Integration of subsidies/taxes
- Transport modeling plans

Break-Out Group WP5 - Chair: G. Luderer/R. Pietzcker - PIK

- Infrastructure
- VRE Integration

12.45 - 13.45 *Lunch*

13.45 - 16.15 Break-Out Group WP2 - Chair: D. v. Vuuren - PBL

- Data collection
- Future work on energy demand modelling

Break-Out Group WP4 - Chair: M. Tavoni - FEEM

- Extending uncertainty analysis to pioneer models
- Incorporating technical change specification to pioneer models

16.15 - 16.30 *Coffee break*

16.30 - 18.00 Open space

Discussion of left-over topics and specific other issues

- Energy access
- Material flows
- Any other emerging topics

Friday, 16 May 2014

Chair: Ilkka Keppo - UCL

09.00 - 10.30 Report back from the breakout groups (WP2, WP3, WP4, WP5)

10.30 - 11.00 Modelling in EU Impact Assessments, Z. Vrontisi - IPTS

11.00– 11.30 Coffee Break

Chair: G. Luderer - PIK

11.30 - 12.00 Feedback from Scientific Advisory Board

- L. Cozzi
- G. Blanford
- G. Klaassen

12.00 - 12.30 Management : Mid-term progress report, L. Delsa - PIK

12.30 - 13.30 Wrap-up session

13.30 Light lunch and adjourn

The FP7 ADVANCE project

Integrated assessment and energy-economy models have become central tools for informing long-term global and regional climate mitigation strategies. There is a large demand for improved representations of complex system interactions and thorough validation of model behaviour in order to increase user confidence in climate policy assessments. ADVANCE project (Advanced Model Development and Validation for Improved Analysis of Costs and Impacts of Mitigation Policies) aims to respond to this demand by facilitating the development of a new generation of integrated assessment models. This will be achieved by substantial progress in key areas where model improvements are greatly needed: end use and energy service demand; representation of heterogeneity, behaviour, innovation and consumer choices; technical change and uncertainty; system integration, path dependencies and resource constraints; and economic impacts of mitigation policies. In the past, methodological innovations and improvements were hindered by the unavailability of suitable input data. The ADVANCE project will make a large and coordinated effort to generate relevant datasets. These datasets, along with newly developed methodologies, will be made available to the broader scientific community as open-access resources. ADVANCE will also put a focus on improved model transparency, model validation, and data handling. A central objective of ADVANCE is to evaluate and to improve the suitability of models for climate policy impact assessments. The improved models will be applied to an assessment of long-term EU climate policy in a global context, and disseminated to the wider community. The ADVANCE consortium brings together long-standing expertise in integrated assessment and energy-economy modelling with a strong expertise in material flows, energy system integration, and energy service demand.

ADVANCE is a 4-year research project (starting in January 2013), with fourteen partners from Europe. It consists of 8 main workpackages.

Logistics

The workshop is held at FEEM premises, in Palazzo delle Stelline, corso Magenta 63, Milano. This link contains directions and a map.

[http://www.feem.it/getpage.aspx?id=36&sez=About us&padre=24&sub=35](http://www.feem.it/getpage.aspx?id=36&sez=About%20us&padre=24&sub=35)

If you have any trouble, you can call Mariaester Cassinelli at: +39 02 52036989