

# Semi-annual ETSAP Workshop Brazil – IEA/NEET Workshop

## 14<sup>th</sup> Draft Program

Venue GRAND BITTAR HOTEL, Setor Hoteleiro Sul, Quadra 05 Bloco "A", BRASILIA  
[<http://www.hoteisbittar.com.br>]  
Date: November 19-23, 2007  
Contacts: for the host: Gilberto Hollauer [gilberto.hollauer@mme.gov.br]  
Dr. Hollauer can provide invitation letters for Visa applications (see last page).  
For ETSAP: GianCarlo Tosato [gct@etsap.org]

*Monday-Tuesday, November 19-20, 2007*

### **Brazil – NEET Workshop**

The joint Brazil – NEET workshop will be held in Brasilia, (location?), on November 19-20, organised by the MME and the IEA.

See separate program

For additional information, please contact Dr. Alexandra NIEZ, IEA/ETO [Alexandra.NIEZ@iea.org]

*Monday, November 19, 2007 (parallel session)*

### **IEA/ETSAP Regular Workshop**

*[Prior to the meeting ETSAP Contracting Parties' representatives are invited to download the ETSAP TIAM model and their own separate region]*

- 14.30-15.30 Richard Loulou (Canada), Amit Kanudia (India), Maryse Labriet (France), Uwe Remme (Germany)  
**Introduction**  
**The recalibration to 2005 national energy balances**  
**Regions, RES, Trades, Periods, Technology Repository**  
**Resource modelling and energy trade**
- 15.30-16.00 Amit Kanudia  
**Using ETSAP-TIAM for national policy analyses: the “country-out-region-in” procedure**
- 16.00-16.30 Amit Kanudia, Maryse Labriet, Uwe Remme  
**Instruction to transfer of the ETSAP-TIAM model** (and actual transfer, if the conditions occur)
- 16.30-17.00 Coffee break
- 17.00-17.15 Antti Lehtilä, VTT – Richard Loulou, KANLO – GianCarlo Tosato, ETSAP  
**Sensitivity and Trade-off analysis in TIMES**
- 17.15-17.30 Antti Lehtilä, VTT – Richard Loulou – Uwe Remme, IER – GianCarlo Tosato  
**Other New Features in TIMES Versions 2.2 – 2.5**

17.30-17.45 Richard Loulou  
**Results of the IPCC special conference on New Scenarios**

17.45-18.30 All participants  
**ETSAP participation to future activities by IAModelers**

*Tuesday, November 20, 2007 (parallel session)*  
**ETSAP Regular Workshop**

9.00-9.20 Denise Van Regemorter  
**Climate change mitigation policies in Belgium**

9.20-9.40 Steve Pye, AEA Energy and Environment  
**MARKAL Macro analysis of long run costs of mitigation targets in the UK**

9.40-10.00 Oleg Lugovoy  
**Towards a new Russia TIMES model**

10.00-10.15 Aleksey Cherednichenko (KazNIEK) (presented by GC Tosato)  
**Potential and opportunities of renewable energy sources in Kazakhstan**

10.15-10.30 Maurizio Gargiulo  
**Progress in the 34 Provinces China TIMES model**

10.30-11.00 Coffee break

11.00-11.15 Richard Loulou  
**Results of the IPCC special conference on New Scenarios**

11.15-11.30 Maurizio Gargiulo, et al.  
**The EC project RES2020: an update**

11.30-11.45 Evasio Lavagno  
**Secure energy corridors for Europe: the EC REACCESS project**

11.45-12.00 Sergiu Robu, Institute of Power Engineering, Moldavia  
**The impact of distributed generation on integrated energy systems**

12.00-12.15 Tanay Sidki Uyar, Marmara University, Istanbul, Turkey  
**Scenarios for MARKAL Studies in Turkey**

12.15-12.30 Melih Kirlidog, Marmara University, Istanbul, Turkey  
**State of the MARKAL Model Studies in Turkey**

*Wednesday, November 21, 2007*

**Introduction to IEA/ETSAP tools for energy systems analyses – 1/3**  
*(Addressed to Brazilian energy experts working for MME, CEPEL, EPE, Petrobras, other organizations and academic institutions)*

*[Some evaluation licenses of ETSAP tools will be sent to MME and CEPEL in advance. Other participants are invited to bring their Windows compatible laptops in order to install the software during the breaks]*

*[Questions from the trainees and interactions during the presentations are welcome]*

- 8.30-9.00 Registration
- 9.00-9.10 (MME)  
**Welcome**
- 9.10-9.40 GianCarlo Tosato  
**Energy systems analysis: an introduction**
- 9.40-10.10 Denise Van Regemorter  
**Energy systems models: classification**
- 10.10-10.40 G.C. Tosato, Richard Loulou  
**Scenario approach to the evaluation of energy choices**  
**The concept of hedging strategies**
- 10.40-11.00 Coffee break
- 11.00-11.30 Gary Goldstein, G.C. Tosato  
**Introduction to ETSAP tools**
- 11.30-12.30 Richard Loulou, et al.  
**The MARKAL-TIMES modelling paradigms**  
**Least cost, partial and general equilibrium versions**
- 12.30-14.00 Lunch
- 14.00-15.30 Uwe Remme  
**Overview of TIMES: Parameters, Primal Variables & Equations**
- 15.30-16.00 Coffee break
- 16.00-16.30 Uwe Remme, GianCarlo Tosato  
**Linear Programming and Economic models: the dual**  
**Marginal prices and price formation equations**
- 16.30-17.00 Questions, Discussion, Conclusion

*Thursday, November 22, 2007*

***Demonstration of IEA/ETSAP tools for energy systems analyses – 2/3***

- 9.00-12.30 Amit Kanudia, Gary Goldstein, Maurizio Gargiulo  
**Introduction to the users' interface VEDA**  
**Working with a simple demo model and results analysis**  
**Presentation of the users' guide: "Getting started with TIMES-VEDA"**
- 10.30-11.00 Coffee break
- 12.30-14.00 Lunch
- 14.00-17.00 Gary Goldstein, Uwe Remme, Ken Noble  
**Introduction to the users' interface ANSWER**  
**Construction of a simple demo model and results analysis**
- 15.30-16.00 Coffee break

*Thursday, November 22, 2007 (16.00-19.00)*  
**ETSAP Executive Committee Meeting**

Delegates and invited experts (normally no more than 20 people) will receive separately the agenda and the annexes.

The host organization is invited to attend.

*Friday, November 23, 2007*  
**Hands-on session to build a first draft TIMES-Brazil model – 3/3**

- 9.00-9.30 Richard Loulou, et al  
**Introduction to the ETSAP – TIAM model**
- 9.30-10.30 Amit Kanudia, et al  
**Possible structure of the Brazilian region of the ETSAP – TIAM model**
- 10.30-11.00 Coffee break
- 11.00-12.30 Amit Kanudia, et al  
**Towards the calibration to 2005 of the Brazilian region of ETSAP – TIAM**  
**Energy service demand projections. New technologies.**
- 12.30-14.00 Lunch
- 14.00-14.30 Participants to the training course  
**Needs and expectations from potential Brazilian users of MARKAL-TIMES**
- 14.30-15.00 Recent new users  
**Experience with starting with MARKAL-TIMES**

15.00-16.00 Questions, Discussion, Conclusion