



Workshop Revised Final Program

Dates: January, 18-23, 2010
Venue: TERI, India Habitat Centre, Lodhi Road, New Delhi, India
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Monday-Wednesday January 18-20, 2010 Seminar Hall, TERI

TIMES Training

(The program is posted at www.etsap.org - Participation: restricted to registered trainees.)

Trainers: Amit Kanudia, Maurizio Gargiulo: VEDA-TIMES
Ken Noble, Maurizio Gargiulo: ANSWER-TIMES

Wednesday January 20, 2010 (11.00-15.30) Magnolia Hall, IHC

Informal ETSAP experts meetings

11.00-13.00 (After the morning coffee/tea break)
ETSAP-TIAM (<http://www.etsap.org/applicationGlobal.asp#ESTSAP-TIAM>):
Achievements and developments (a discussion note will be distributed to the participants)
14.00-15.30 (After lunch)
The ETSAP Technology Data Source (<http://www.etsap.org/E-techDS/>)
Achievements and developments (a discussion note will be distributed to the participants)

Wednesday January 20 (16:00-18:00) Magnolia Hall, IHC

ETSAP Executive Committee

*(Agenda and attachments have been sent separately)
(Participation restricted to Delegates, ETSAP officers, invited experts)*

Thursday-Friday January 21-22 Magnolia Hall, IHC

Joint TERI – ETSAP Workshop

*Energy Modelling Tools & Techniques to address Sustainable Development & Climate Change
(see next page)*

Saturday January 23, 2010 Seminar Hall, TERI

Training course on advanced MARKAL-ANSWER options

(The program is posted at www.etsap.org. Participation: restricted to registered trainees.)

Trainers: Socrates Kypreos, <socrates.kypreos@psi.ch> Theory
Ken Noble, <noblesoft@netspeed.com.au> Examples

Thursday-Friday, January 21-22, 2010, Magnolia Hall, IHC

Joint TERI ETSAP Workshop

Energy Modelling Tools & Techniques to address Sustainable Development & Climate Change

At 7:40 a bus will collect WS participants from Hotel Samrat and Hotel Parkland to the Venue and bring them back after the reception

8.30-9.00	Registration
9.00- 9:30	<p>Opening</p> <p>Welcome by Dr R K Pachauri, Director General, TERI Opening Remarks by GianCarlo Tosato, IEA-ETSAP</p>
9.30-11.00	<p>Session n. 1 Climate Change and Mitigation Chair: Prodipto Ghosh, TERI, India</p> <p>Atul Kumar, TERI, India <u>India's Energy Sector: Options & Challenges</u></p> <p>Denise Van Regemorter, KULeuven, Belgium, and IPTS Sevilla <u>Economic cost of Climate Change in Europe</u></p> <p>Amaro Pereira, Federal University of Rio de Janeiro, Brazil <u>GHG Mitigation Strategies and the Energy Options for the Brazilian Power Sector</u></p> <p>Qi Zhang, Graduate School of Energy Science, Kyoto University, Japan <u>Study on Integrated Computer Model for Long-term Scenario Analysis of Zero-carbon Energy System and its Application to Japan</u></p> <p>Discussion</p>
11.00-11.20	Tea/Coffee break
11.20-13.00	<p>Session n. 2 Energy Security and Co-benefits Analysis Chair GianCarlo TOSATO, IEA-ETSAP</p> <p>Fabian WAGNER, IIASA <u>Co-benefits Analysis based on GAINS-Asia Model</u></p> <p>Evasio Lavagno, Polytechnic University of Turin, Italy <u>The EC REACCESS Project on Energy Corridors and Security of Supply in Europe</u></p> <p>Kenichi Matsumoto, National Institute for Environmental Studies, Japan <u>Energy Mix Change and Energy Security Improvement through Climate Change Mitigation: Analysis of the RCP Cases</u></p> <p>Gilles Guerassimoff, Edi Assoumou, Nadia Maïzi, Centre for Applied Mathematics, Mines ParisTech, France <u>Biomass for Energy uses: Assessment Methodology for France</u></p> <p>Discussion</p>
13.00-14.00	Lunch

14.00-15.20 **Session n. 3** **New Emerging Technologies and Long Term Energy Models**
Chair **Socrates Kypreos, Paul Scherrer Institute, Switzerland**

Socrates Kypreos and Hal Turton, Paul Scherrer Institute, Switzerland

[Climate Change Scenarios Evaluated with MERGE-ETL and Technology Transfer Protocols](#)

Mariangela Guidolin, Department of Statistical Sciences, University of Padua, Italy

[The Diffusion of Photovoltaic Energy across Countries: Modelling Choices and Forecasts for National Growth Patterns](#)

David Bruchof, Institute of Energy Economics and the Rational Use of Energy (IER), University of Stuttgart, Germany

[Contribution of Alternative Fuels and Power Trains to the Achievement of Climate Protection Targets within the EU27](#)

Discussion

15.20-15.40 Tea/Coffee break

15.40-17.40 **Session n. 4** **Sustainable Cities & Habitats: Integrating Local Level Concerns in Planning**
Chair **S. Sundar, TERI, India**

Kari Aamodt Espegren, IFE, Norway

[Regional MARKAL Modelling: Focusing on Introduction of Hydrogen as an Energy Carrier in Norway](#)

Chhavi Dhingra, TERI, India

[Addressing Sustainability Concerns in Basic Urban Service Delivery](#)

Thomas Hamacher, Max-Planck-Institute for Plasma-physics, Germany

[Urban energy systems modelled with TIMES](#)

Nagaraj Sivasubramaniam, Duquesne University (USA)

[Effectiveness of Carbon Mitigation Strategies at the Municipal Level: Application and Extension of MARKAL Models](#)

Roman Kanala, Haute Ecole de Gestion, Genève & Université de Genève

[First Modelling Attempts with Social MARKAL Approach](#)

Discussion

17.40 Adjourn

18.00-19.30 **Reception at TERI**

At 7:50 a bus will collect WS participants from Hotel Samrat and Hotel Parkland to the Venue and bring them back at the end of the workshop

Friday, January 22, 2010

9.00-9.30 Uwe Remme, IEA, Energy Technology Office
Energy Technology Perspectives 2010

9:30-11.20 Session n. 5 Use of the TIMES Integrated Assessment Model (ETSAP-TIAM)
Chair Maryse Labriet, ENERIS, Madrid, Spain

Maryse Labriet, ENERIS, Madrid, Spain

[Applications of TIAM: Future role of renewables \(RETD\) and post-COP15 World strategies \(SynsCOP15\)](#)

Markus Blesl, Institute of Energy Economics and the Rational Use of Energy (IER), University of Stuttgart, Germany

[The Role of the Natural Gas Supply for Europe: An Analysis with TIAM-IER](#)

Sandrine Selosse, Centre for Applied Mathematics, Mines ParisTech, France

[Regional Impacts of the Global Carbon Stakes: Long Term Prospective with the ETSAP-TIAM Model](#)

Helene Ystanes Føyn, Olexandr Balyk, DTU Climate Centre, Risø DTU, Denmark

[A Global Renewable Energy System - A Modelling Exercise in ETSAP/TIAM](#)

Discussion

11.00-11.20 Tea/Coffee break

11:20-13.00 Session n. 6 Energy Planning Tools and Frameworks
Chair Denise Van Regemorter, KULeuven, Belgium, and IPTS Sevilla

Kazushige Shimpo, Keio University, Japan / Kartik Krishna Ganju, TERI

[Life Cycle Analysis of Solar Modules and Lanterns Using an Input-Output Approach](#)

Andrew Marquard, Energy Environment and Climate Change Programme, University of Cape Town, South Africa

[Sustainable National Accessible Power Planning - Accessible Creation of Rigorous Future Electricity Scenarios in South Africa](#)

Shaligram Pokharel, Nanyang Technological University, Singapore

[Modelling for Energy Future: Econometric and Backcasting Method](#)

Kannan Ramachandran, Energy Economics Group, Paul Scherrer Institut, Switzerland

[Experience from the Development of a New Swiss TIMES Electricity Model](#)

Kenneth Karlsson, DTU Climate Centre, Risø DTU, Denmark

[Wind Power Potentials in Global Energy Models](#)

Discussion

13.00-14.00 Lunch

14.00-15.40 **Session n. 7** **Energy Planning and Policies**
Chair **Prabir Sengupta, TERI, India**

Amrit Man Nakarmi, SJM SOM, IIT Bombay, Mumbai
[Modelling for Energy Planning and Policy Analysis for Nepal](#)

Henrik Klinge Jacobsen and Poul Erik Grohnheit, Risoe DTU, Denmark
[Tax Incidence from Environmental Taxation](#)

Shuichi Ashina, National Institute for Environmental Studies, Japan
[Japan Roadmaps Toward a Low-Carbon Society by Backcasting](#)

Francesco Gracceva, National Agency for Energy and Environment, Italy
[New TIMES-Italy for Scenario Analyses to Support Policymakers: Preserving Independence and Credibility](#)

Erik Ahlgren, Chalmers University of Technology
[The POEM Modelling Framework](#)

Discussion

15.40-16.00 Tea/Coffee break

16.00-18.00 **Session n. 8** **Activities with ETSAP Tools: an Update**
Chair **GianCarlo TOSATO, IEA-ETSAP**

Thomas Alfstad, Brookhaven National Laboratory, USA
[Highlights of Recent US Climate Policy Analysis at Brookhaven National Lab](#)

Francoise Nemry, EC Commission JRC/IPTS
[Presentation Title: TIMES-based modelling activities in the Joint Research Centre](#)

Brian O Gallachoir, University College Cork
[Presentation Title: Building Irish TIMES from PET Ireland.](#)

Wouter Nijs, VITO, Belgium
[Technology Choices for Steel Production in TIMES](#)

Tanay Sidki Uyar, YTAM New Technologies Research and Application Center Marmara University, Istanbul Turkey

[Emission Mitigation Scenarios in Turkish MARKAL Model](#)

Gary Goldstein, International Resource Group, USA
[ETSAP Liaison Officer Activities](#)

18.00 **Conclusion of the Workshop**