

Training course on advanced MARKAL-ANSWER options

Venue: TERI, The Energy and Resources Institute

Darbari Seth Block, IHC Complex,
Lodhi Road, New Delhi – 1100 03 (India)
Phone: +91-11-24682100, Fax: +91-11-24682144
For logistic questions, please contact Atul Kumar, Ph.D., atulk@teri.res.in

Saturday, January 23, 2010

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

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| 9.00-9.30 | Trainers and trainees introduce themselves; previous experience with energy models, with bottom-up models, with optimization models, with MARKAL? |
| 9.30-11.00 | MARKAL as a supply model with fixed (inelastic) energy demands MARKAL with endogenous (elastic) energy demands (MARKAL-ED) |
| 11.00-11.15 | <i>Tea/Coffee break</i> |
| 11.15-12.45 | MARKAL-MACRO: a general equilibrium macroeconomic model (MACRO) integrated with an engineering model (MARKAL). MARKAL with Endogenous Technology Learning (MARKAL-ETL) |
| 12.45-13.45 | <i>Lunch</i> |
| 13.45-15.15 | Multi-region MARKAL with Global Trade and Bilateral Trade (MMT) Two-stage Stochastic Programming MARKAL model. |
| 15.15-15.30 | <i>Tea/Coffee break</i> |
| 15.30-17.00 | Technology Filters and Rule-based Constraints in ANSWER-MARKAL Demonstration/explanation of other ANSWER-MARKAL features of interest to trainees (if time permits) |
| 17.00 | <i>Adjourn</i> |