

ETSAP - ENERGY TECHNOLOGY SYSTEMS ANALYSIS PROGRAMME
Implementing Agreement of the INTERNATIONAL ENERGY AGENCY – IEA/AIE

DRAFT MINUTES OF THE EXECUTIVE COMMITTEE MEETING

Ruth Deech Building, St Anne's College in Oxford, UK

Friday, November 18, 2005 (9.00 – 12.00)

As amended by the written procedure of March 2006

Participants

Contracting Parties' Representatives:

Belgium	Ms. Anne FLerens
Canada	Mr. Hertsel Labib
Sweden	Ms. Eva Centeno Lopez
Switzerland	Mr. Socrates Kypreos
United Kingdom	Mr. Peter G. Taylor

"Stand-ins":

Finland	for Mr. Sami Tuhkanen	Mr. Antti Lehtila
Germany	for Mr. Alfred Voss	Mr. Markus Blesl
Italy	for Mr. Vincenzo Cuomo	Mr. G.C. Tosato
Japan	for Mr. Masao Tanaka	Mr. Osamu Sato
Korea	for Mr. Jong-Whan NOH	Mr. Young-Gu Park
Netherlands	for Mr. Koen Smekens	Mr. Peter G. Taylor
United States	for Carmen Di Figlio	Mr. Paul Friley

ETSAP Representatives:

IEA/ETSAP Desk Officer	Mr. Fridtjof Unander
ETSAP Project Head	Mr. GianCarlo Tosato
ETSAP Operating Agent	Mr. Evasio Lavagno

Guests:

Mr. Thomas Alfstad	Energy Research Centre, South Africa
Mr. Gary Goldstein	ETSAP, Primary Systems Coordinator
Mr. Poul Erik Grohnheit	Riso, Denmark
Mr. Brendan Millane	Key Economics, Australia
Mr. Ken Noble	Noble-Soft, Australia
Mr. Neil Strachan	Policy Studies Institute, United Kingdom
Ms. Denise van Regemorter	Catholic University Leuven (KUL), Belgium

Opening

The Chair of ETSAP, Mr. Hertsel Labib, opened the meeting at 9.00.

1. Quorum Count

As listed in the text of the implementing agreement, presently ETSAP has 17 Contracting Parties, requiring 9 to be represented for a Quorum. With 12 Parties represented a Quorum is present.

2. In Memory of Colleagues

ETSAP lost two important colleagues, friends and inspirations in recent months.

Professor Alan Manne, a pioneer in Operations Research, and in particular Energy Systems Modelling, was lost owing to an arrhythmia episode that resulted in him falling off his horse and sustaining fatal injuries. Among Alan's direct contribution to ETSAP was the conceptualizing and guidance for the realization of MARKAL-MACRO, his leading work with respect to assessment of global Climate Change by means of his development, application and dissemination of results from the MERGE model, and his stewardship of the International Energy Workshop. A testimonial was held at Stanford University, followed by a barbeque, where many echoed our impression of Alan as a special individual who touched the lives of all those who were lucky enough to have known him. On behalf of ETSAP Mr. Goldstein attended the remembrance. An obituary and recent article on Professor Manne can be found on the San Francisco Chronicle website at <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2005/09/29/BAGK2EVMDP1.DTL> and <http://sfgate.com/cgi-bin/article.cgi?file=/c/a/2005/06/03/PNGPGCUNPD1.DTL>. Mr. Goldstein suggested that ETSAP contributes to the planting of memorial trees in Israel on behalf of Professor Manne. He will provide details of how to accomplish this to the Chair and Project Head at which time a decision will be taken on how to proceed in this regard.

This summer Olev Liik, a professor at Tallinn Technical University in Estonia, passed away as a result of a heart attack. After a long experience in energy system simulation models, Olev joined the extended ETSAP community in 1994 when he became involved in Swedish and Norwegian sponsored outreach initiatives in the Baltic countries. His enthusiasm and professionalism resulted in MARKAL becoming an important tool for energy systems planning in Estonia, which then also contributed to the introduction of the methodology to Latvia as well. Olev left us way too early, which was a great loss to us all.

3. Agenda

The Agenda was adopted, as follows:

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1. *Quorum Count*
 2. *In memory of colleagues*
 3. *Adoption of the agenda*
 4. *Adoption of the minutes of the ExCo held in Kyoto, July 8, 2005 (Attachment J1)*
 5. *IEA/ETSAP Implementing Agreement:*
 - 5.1 - New text of the Implementing Agreement (updated participants; Attachment J2)
 - 5.2 - Communication from the Secretariat
 - 5.3 - Report of the Workshop
 - 5.4 - 1-year experience with the new rules for distributing the ETSAP tools
 6. *Annex VIII / IX (2002-2005)*
 - 6.1 - Updates
 7. *Annex X (2005-2007): Global Energy Systems and Common Analyses*
 - 7.1 - Report of activities
 - 7.2 - 2006 program of work
 - 7.3 - 2006 participation fee
 - 7.4 - Invitation to participate
 8. *Other business:*
 - 8.1 - Next ETSAP workshop: IEW, Cape Town, June 27-29, 2006
 - 8.2 - Others (Attachment J3)

Attachments: *J1-fin Final Minutes of the previous Executive Committee, held in Kyoto, Friday, July 8, 2005*
J2 New text of the Implementing Agreement
J3 Draft IEW-SA-DonorPitch-v1
J4-new Text of the letter sent by the IEA Office for Legal Council on November 14, 2005
J5-new Text of the letter sent by Hirst-Campbell on IEA G8 plan of action & annexes
J6-new Annex VIII-draft-final budget, revision
J7-new Annex X, 2005-6 budget, draft

4. Adoption of the minutes of the Executive Committee meeting held in Kyoto, Japan, July 8, 2005

After the incorporation of minor corrections noted by Mr. Smekens, and the explicit mention that Ireland has withdrawn from ETSAP, the minutes were accepted (Attachment J1).

5. IEA/ETSAP Implementing Agreement

5.1 New text of the Implementing Agreement: updated list of participants (Attachment J2)

The only slight difference from the previous text distributed is the list of participants, which was updated according to the decision taken at the previous Executive Committee (ExCo) meeting (Kyoto, July 8, 2005, agenda item no. 4.2).

Mr. Unander then read part of a letter sent by Ms. Lachartier of the IEA Office of Legal Council regarding participation in Implementing Agreements. This letter from IEA legal requests that at each ExCo meeting membership of Contracting Parties to an Implementing Agreement (IA) and participation in the current active Annexes be updated. This led to a discussion on the current status of some Parties.

In particular, IEA legal office is requesting an update on Australia. Mr. Tosato indicated a need for more time to look for a new Contracting Party. It was agreed that if still dormant a letter will be sent to Australia requesting clarification of its status, or withdrawal from the IA.

A discussion then ensued on the back and forth status of the European Community (EC). Mr. Unander noted that the legal issues raised by the EC last year have been sorted out, and now the EC wants to re-activate its participation in all said Annexes. Since the ExCo had not taken a decision on the earlier request and thereby had not accepted the EC's temporary withdrawal from the IA, officially the EC had never withdrawn from ETSAP. Regardless the ExCo welcomes the EC re-activation in the ETSAP IA and current Annex as a full member.

Discussions then turned to Ireland. The ETSAP ExCo had previously sent a request to the Ireland Contracting Party for clarification of their current status. After receiving a communiqué from Ireland indicating that they no longer wanted to participate in the Implementing Agreement (see point no. 9: Other business in the minutes of the ExCo held in Canberra in May 2002), there were no other sign of interest. Therefore the ExCo considered them withdrawn since July 8, 2005, when the previous ExCo was held.

There was then an inquiry regarding Norway. Eva Centeno Lopez will be in contact with key individuals from Norway in the next weeks and will check on status. Mr. Unander noted that there is some increased interest at the Institute for Energy Technology (IFE), but IFE is still trying to get enough ETSAP related project support and government interest to permit it to participate as Norway's representative to ETSAP. It was noted that collaboration with the other Nordic countries and the European Union is extremely important to the Norwegian government, and that ETSAP is an important forum in this regard. Thus concrete steps to clarify Norway's status are being taken.

5.2 Communication from the Secretariat

Fridtjof Unander distributed a copy of the letter sent from the IEA/Technology Office Director to the heads of all IEA Working Parties, Ad Hoc Groups and Implementing Agreements (reported in Attachment J4 with annexes¹) related to the request arising from the G8 Gleneagles Summit (July) to the IEA for active and extensive assistance in a number of key energy related areas targeted as highest priorities for the G8 governments. The core nature of the request is to provide explicit and concise input on what contributions ETSAP can offer in five main areas. These are:

¹ The G8 Gleneagles Communiqué may be downloaded from <http://www.number-10.gov.uk/output/Page7881.asp>; the IEA Gleneagles Programme Brochure from http://www.iea.org/textbase/papers/2005/g8_leaflet.pdf

1. suggestion on refining and improving the overall IEA G8 Plan of Work (Program of Work, IEA/SLT/CERT(2005)16), included in Attachment J5);
2. a one page description of the role ETSAP can play with respect to the IEA G8 Program of Work, identifying just 2-3 most relevant areas;
3. an indication of events in the 2006-2008 ETSAP work plan that can directly contribute to the IEA G8 Program of Work;
4. identification of any top talent that may be able to assist the IEA with its G8 PoW, and
5. ways that ETSAP can contribute to strengthening links between the IEA and the "Plus-5" major energy consuming developing countries (Brazil, China, India, Mexico and South Africa).

The ExCo members initiated a robust discussion surrounding the letter. With respect to point 1, ETSAP should look for:

- specific ways to comment on the content, list of deliverables, timing, workshops, etc;
- ways to combine ETSAP's work plan and products with proposed IEA's proposed PoW, particularly in areas such as scenarios, end-use data for modelling (this Spring), energy technology data for modelling (this June, perhaps could be combined with the IEW);
- meetings that ETSAP could perhaps organize, and other information dissemination ideas such as an open bulletin sent out each month to those in the ETSAP network.

Input from the various parties in these key areas is to be sent to the IEA by December 30, 2005.

ETSAP recognises the importance of this opportunity. In order to establish quickly a plan of action:

1. Mr. Unander will provide the Chair and Project Head (PH) with electronic versions of the letter from the IEA and the accompanying attachments;
2. the Chair and PH is to provide said material to all Executive Committee (ExCo) members and their representatives, and other key individuals identified by the PH;
3. each representative is to provide concise input on each of the five main areas to the Chair and PH by December 10th, and
4. each representative is also requested to identify any existing material that explicitly addresses the IEA G8 PoW with respect to its goal of analysis supporting future scenarios for clean, clear and competitive energy systems (CCCES).

With regard to 4 above, it was suggested that ETSAP should compile perhaps a ten page prospectus indicating how ETSAP and its tools have contributed to the assessment of CCC and Climate Change, and the policies arising from that work, as well as ETSAP's collaborations and partnerships in the Plus-5. While looking to do so in a timely manner, for the December deadline, it was proposed that this material could then be assembled into a special Newsletter or publication in time for the IEW/ETSAP Cape Town workshop.

Mr. Unander made special note of the heightened activity at the IEA related to the G8 request, including the Ministerial meeting in May and the most recent CERT. He noted that the IEA for example asked to assist with the preparation for the G8 meeting, and that much of the material compiled in the final Annex I communiqué was derived from said material. As a result there is a heightened awareness of the increasingly key role of technology, the importance of taking a longer-term perspective of the issues surrounding energy, and the essential need to constructively engage non-member countries. Relative to ETSAP this includes key points such as:

1. the heavy emphasis placed on identifying pathways for addressing global climate change, promoting clean and efficient energy use, and fostering sustainable development;
2. looking for opportunities in the building and transportation sectors;
3. implications of various policies with respect to energy security;
4. strengthening of networks and capability building, particularly with the Plus-5 countries;
5. examining the potential role of carbon capture and sequestration and hydrogen (both of which have been the focus of analyses at the IEA using the MARKAL-based Energy Technology Perspective (ETP) model), and
6. the need for more analysis on all the above.

Another crucial aspect of the request to the IEA from the G8 is that it is to coordinate activities and outcomes with the World Bank, an unprecedented teaming of these two key organizations. As part of this Mr. Unander noted that in response the World Bank is looking to the IEA to identify and recommend the best way forward with respect to achieve the main goals of the G8 Gleneagles communiqué. The implications being that there may be here-to-fore unknown opportunities to leverage World Bank resources for IEA identified activities, particularly with respect to project identification and Plus-5 networking and outreach initiatives.

The first hard output from the IEA is to be a Global Energy Technology Perspective report that will be based upon the ETP model. There will also be material on frequently asked questions and summary of relevant information from the IEA Implementing Agreements. The summaries discussed above under item 4 in the group of ETSAP action items will be able to contribute directly to this if compiled in a timely enough manner.

Mr. Unander also noted that the IEA is getting very good feedback on its recent handling of the pressure imposed on the oil markets following Katrina, most notably the release of 2m bbl/day of oil from the IEA oil stocks for thirty days; just the third time said resource has been tapped. This seems to have improved the US view of the IEA and is thereby further strengthening the role requested of the IEA by the G8.

With regard to item 5, strengthening the links between the IEA and the Plus-5 countries, ETSAP has a strong global presence as embodied by its worldwide network for analysts, planners and policy makers that use the ETSAP tools. This network is active in all five of the Plus-5 countries. Mr. Goldstein and Mr. Kypreos will take the lead in compiling the list of contacts in the Plus-5 countries and coordinating ETSAP's engagement with our network in those countries. As a major goal of the IEA directive is engagement on the Plus-5 in IEA activities, including Implementing Agreements, of particular merit may be garnering interest in each of these countries for their possible participation in ETSAP in some form. If such an idea is embraced by the Plus-5 ETSAP could prepare a proposal to the IEA requesting World Bank support for such an undertaking. While the initial focus would be the Plus-5, if we received and executed it could clearly expand further to look to engage other developing countries.

5.3 - Report of the Workshop

The host, the UK Policy Studies Institute (PSI), as represented by Neil Strachan reported briefly on how pleased PSI was to have the opportunity to host ETSAP, how well it fitted with their directive to engage with international collaborations, the quality and success of the Tuesday joint workshop of depicting future energy technologies, and the overall benefit to PSI from the engagement with the ETSAP modellers. The Chair thanked PSI for the hospitality, noting in particular the outstanding job done by the team at St. Anne's College and PSI, and the general high calibre of the workshop as a whole. The Project Head echoed the accolades of the Chair, noting in particular the excellent assistance provided with respect to preparing the material and assembling the presentation materials. Peter Taylor indicated his pleasure at the UK having the chance to again host an ETSAP meeting, after a bit of a hiatus. Neal Strachan noted that all the material presented at both the joint and ETSAP workshops will be made available as PDFs over their website.

5.4 - 1-year experience with the new rules for distributing the ETSAP tools

Mr. Tosato began a discussion on the dissemination of the ETSAP tools by noting that it has now been one year since ETSAP removed the R&D fee, making the MARKAL/TIMES source code available to interested parties free of charge. Mr. Goldstein, the ETSAP Primary Systems Coordinator, reported that in general the approach being taken now, where users may optionally pay a modest fee for support for their use of the model generators, has in general seemed to work out with about 30% of new users opting for support while most of the others are engaged in larger undertakings where there is involvement of an ETSAP partner or some other MARKAL/TIMES expert who provides such support. It was agreed to leave the guidelines with respect to access to the ETSAP tools as they are currently.

There was then a discussion regarding whether removing the R&D fee has affected the distribution of the ETSAP tools. Mr. Goldstein indicated that the cost of obtaining the 3rd party software was always more substantial, and that if an institution was looking to work with MARKAL/TIMES they seem to be able to come up with the necessary funds, in most cases. He also noted though that the MESSAGE model, similar in many respects to MARKAL/TIMES, is now being made available at no charge (including training) to interested signatories of the Non-Proliferation Treaty through the International Atomic Energy Agency (IAEA). At the moment the ETSAP tools are more advanced with respect to usability, that is the data handling systems, but the backing of the IAEA will most likely enable the MESSAGE developers to narrow that gap. With a core goal of ETSAP being the dissemination of its tools the afore mentioned suggestion to perhaps request IEA assistance in approaching the World Bank if the Plus-5, and other key developing countries, would like to be engaged with ETSAP and its tools carries added weight.

As part of this discussion about the ETSAP tools Mr. Grohnheit also noted the need for better introductory material for new users. As requested in the previous ExCo, Mr. Tosato and Mr. Goldstein are thinking of ways that make the first steps easier for new ETSAP tools users. A draft should be presented at the next workshop. The contribution from others is welcomed.

6. *Annex VIII / IX (2002-2005)*

6.1 - Updates

The Operating Agent distributed two printed copies of the Final Report to each country representative present at the meeting. The Project Head gave a special thanks to Mr. Goldstein for compiling the report, which other representatives also acknowledged was a fine piece of work. An electric version (PDF) of the report will of course be posted on the ETSAP website. It was agreed that ten copies would be provided to each representative (not necessarily the ExCo member, who will be provided copies from the traditional attendee). ETSAP participants and the IEA are invited to circulate the report widely.

As part of finishing up Annex VIII it was noted that substantial progress has been made by Ken Noble on ANSWER6 for TIMES. A prototype should be ready by the end of the year, which is undergoing beta testing at IER. TIMES-MACRO was also completed and is in beta testing as well. It is expect to be distributed by the end of the year as well.

An updated version of the budget was then presented by the Project Head, which reflected the late contribution of Greece, the cost of printing the final report, and the cost of the Kyoto Workshop (see Attachment J6). With the only outstanding expenditures expected to be the sending out of the Final Report the Annex VIII/IX budget is just about ready to be closed. The final disposition of that budget will be presented at the next workshop. Any (minor) funds remaining will be transferred to the Annex X budget.

The Project Head then noted that there were problems receiving payment from the US owing to the complicated nature of payment procedures from the US Department of Energy to non-US entities. It was suggested that perhaps arrangements could be made in the future (and perhaps for the outstanding Annex VIII fees) for payment to be made to the ETSAP Primary Systems Coordinator, as represented by DecisionWare Inc. The Project Head and Mr. Goldstein will contact the US representative to see if this might be a preferred route.

7. *Annex X (2005-2007): Global Energy Systems and Common Analyses*

7.1 - Report of activities

The Project Head gave a quick overview of the progress with reference to the program approved at the previous ExCo.

1. The ETSAP TIMES Integrated Assessment Model (TIAM) and participation in EMF-22 is proceeding well. The core model development team is engaged, expansion of the model generator to support stochastics has been completed, and the review of the initial model is underway. Outstanding at the moment is engagement with other ETSAP partners and the other global modelling teams working with the ETSAP tools (IEA-ETP, EIA-SAGE, and EFDA).
2. The maintenance and improvement of the ETSAP tools is underway, as follows:
 - a. ETSAP will continue to support MARKAL, but as agreed will not look to continue with MARKAL related development (e.g. refinements to the peaking constraint);
 - b. ANSWER-TIMES will continue to see progress using Annex VIII funds - which is occurring;
 - c. VEDA is to see all parameters for TIMES included, and full user documentation completed - which is occurring;
 - d. PSI will add decomposition features to the tools, as in-kind payment of the Annex X fees - underway;
 - e. The Project Head will circulate before next ExCo a proposal to re-introduce into the ETSAP tools facilities to define alternative objective functions and to augment the capabilities in terms of exploring near-optimal solutions - pending but still of interest, and
 - f. The ETSAP Primary Systems Coordinator (PSC) will oversee integration of the various components of the ETSAP Tools, including GAMS - ongoing.
3. As to the additional activities, no progress was made in developing and deploying LEAP-2-TIMES, because the interest within Tellus (and ETSAP) is waning and the resources needed are not available. A "straw-man" outline for "A Guide to Building a TIMES Model" is part of the effort to make the approach of ETSAP tools easier to new users, as mentioned at point no. 5.4 above and no. 7.2 below.

With regard to 2a, a discussion on continued enhancement of MARKAL was held. The opinion was put forward that perhaps all MARKAL related development should be discouraged, including that using non-ETSAP resources so as not to narrow the gap between TIMES and MARKAL. This discussion centred on an expected request from the US EPA+DOE to increase the number of time-slices allowed in MARKAL. It was agreed though that ETSAP would not discourage interested parties from experimenting with or enhancing MARKAL, and could not prevent it anyway.

This Annex is expected to have fourteen active participants, collecting twelve fees (+ maybe Greece), with Switzerland handled by means of a special agreement that has been negotiated. So far the Operating Agent has received 6 payments. It was noted that Italy, Belgium and Germany should be in shortly.

Also it was noted that the Contracting Party for Turkey is to be changed, which the Project Head will follow-up on.

Four contributions were received and the first draft of the ETSAP Newsletter No. 1 of Annex X assembled. A short reference to the objectives of Annex X will be added, as well as brief testimonials to Professors Alan Manne and Olev Liik. In addition, Mr. Goldstein will follow-up again with requests for links for the "Hot Corner" on new material. Contributions to this have been received from the UK and links to the IEA G8 and ETP material will be included.

Koen Smekens had raised the question via email of how the Newsletters are distributed. These days only posting on the web is employed. But this was deemed as perhaps inadequate, so it was agreed that the Primary Systems Coordinator would serve as the focal point for compiling a series of new ETSAP email distribution lists. Besides the core ETSAP list, distribution lists for the entire community of ETSAP tool users and an extensive list for announcement of new Newsletters and other pertinent ETSAP related information are being compiled with contributions from the ETSAP partners and all others in the community. This list may also prove useful for the IEA G8 thinking.

The project head was not able to prepare a short brochure for COP11-MOP1, as requested by delegates (see minutes of the previous ExCo, held in Kyoto, July 8, 2005, agenda item no. 8.4).

7.2 - 2006 program of work

The program of work underway is reflected above and summarized further here.

1. Develop the global TIMES Integrated Assessment Model (TIAM), for participation in EMF-22 and distribution to the ETSAP Contracting Parties.
2. Maintain the tools.
3. Implement the capability of adding a 16th region to the TIAM by pulling a country out of an existing region. How? Along the following lines:
 - For each contracting party, the most up-to-date energy flows of the world countries will be re-aggregated, in a set of 16 templates (one set for each of the 15 existing regions, plus a set for the country) by updating and creating some additional macro in the VEDA templates;
 - Each contracting party (say IER for Germany) receives an excel file where it has to indicate the rules to be used in order to transform the parameters characterizing the stock of existing processes in the region of origin (say WEU for Germany) to the set applicable to the new country (say Germany);
 - The first draft country specific global model will be generated through VEDA-FE, one for each contracting party created prior to workshop;
 - The 2006 regular fall ETSAP workshop will include a training session (2 days?) on the use of the model & procedures, and
 - The ExCo will elaborate quality assurance rules for the correct use by Contracting Parties of the TIAM.

There were some questions raised about the degree of interest and merit of such a facility. Does singling out say Belgium from the rest of the EU within a global context really make sense? The UK also expressed the opinion that they may be more interested in removing the UK from the EU region, adding in instead its national model. It was agreed that these minutes would serve as an initiator of discussion on this topic and a proposal would be developed by the Project Head.

A discussion then also ensued about whether this was perhaps premature, and that resources should perhaps be first devoted to the writing of the User's Guide for TIMES (and MARKAL) and the construction of associated examples (simplified model(s)). It was agreed that the Guide needed to be assembled first, perhaps re-channelling funds for this purpose. If resources are shifted to this undertaking the extract utility will most likely have to be delayed, perhaps resulting in a 2-phase TIAM training, fall 2006 1-day for familiarization and use, and a special mini-workshop early in 2007 for those interested in working with the utility (this was not mentioned at the ExCo, but was mulled over in subsequent discussions).

Before the end of the year the TIMES documentation is to be updated for recent enhancements and the addition of new "user" parameters. It was also agreed that Information Notes will be posted both on the ETSAP software download and documentation web pages.

Operating Agent

The Budget Office of the Turin Polytechnic University acknowledges that it has problems to continue collecting ETSAP fees and paying the experts working for ETSAP, at no cost and without additional resources. The chair proposes to appoint as new Operating Agent the private company founded by the project head. The proposal is endorsed.

Therefore the delegates approve the new art. No. 7 of Annex X as follows: 'The Poly-Technical University of Turin (Politecnico di Torino, Italy), acting through the Department of Energy Studies (Dipartimento di Energetica), is designated as Operating Agent. Starting from May 1, 2006, the private consulting company ASATREM srl (Italy) is designated as new Operating Agent'

7.3 2006 fee

For 2006, number of participants and their contributions remain as in 2005. Therefore, the Executive committee has decided that the 2006 participation fee to Annex X for each contracting party will remain the same as in 2005, at 20k Euros.

The Project Head ran through the basics of the proposed budget (see Attachment J7). Other than the possible re-allocation of some funds for the TIMES (and MARKAL) User's Guide from the TIAM "extraction" utility development no other adjustments were suggested at this time. The question was asked if the proposed program of work could be accomplished with the current budget, to which the Project Head responded affirmatively. If some fees are not paid, the 2006 program will be reduced and some new activities delayed.

The Primary System Coordinator noted that negotiation had been successful with the various 3rd party software providers with respect to a flexible ETSAP project license. This license would permit ETSAP to purchase said license for some number of Outreach applications and thereby reduce the cost of the software for use with MARKAL or TIMES by 60%. ETSAP partners could draw on this license as needed, which increments last or if the license is expanded. However, at the current time there is no immediate need of any participant so the license will not be pursued at this time.

7.4 Invitation to participate

Mr. Poul Erik Grohnheit expresses the interest of Denmark in joining Annex X. The ExCo officially invites the Danish representatives to the IEA to join ETSAP Annex X.

A request has also been received from Mr. Guyon (Electricite de France, EDF) asking as to the conditions and costs for EDF to join ETSAP Annex X. The ExCo officially invites EDF to join ETSAP Annex X, either as the French representative or as a sponsor. The Project Head will follow-up, and if interest is serious discussions will be held with the ExCo to decide how best to permit their involvement.

8. Other business:

8.1 - Next ETSAP workshop: IEW, Cape Town, June 27-30, 2006

IIASA has sent the first announcement a few weeks ago. Mr. Alfstad noted that a venue had been found. It was proposed to start the regular ETSAP Workshop after the IEW. Thursday afternoon and Friday would be devoted to the regular ETSAP Workshop and Saturday morning to the ExCo. Those ETSAP partners interested in participating in the IEW will have to pay their way, as it was agreed upon at last ExCo that ETSAP will no longer pay the IEW participation fee for individuals, also owing to the decision that ETSAP will make a general contribution for the IEW (see next agenda item).

Mr. Blesl put forward an offer from IER to host the Fall 2006 ETSAP meeting in Germany.

8.2 - Others (Attachment J3)

A brief discussion was then held regarding ETSAP's intention to provide up to 10,000€ to support the meeting, which was approved. There was then an incomplete discussion regarding the offer of ETSAP to look to raise other funds in support of the workshop, particularly with regard to raising funds to bring in modelling and policy experts from around Africa. The draft "donor pitch" (Attachment J3) was not explicitly discussed. Another open issue in this regard was raised with respect to where the funds are to be provided. It is assumed that it is left to the Primary Systems Coordinator to continue to see if any avenues for funding can be opened. To this end the "donor pitch" will be updated and sent to all ExCo representatives to encourage them to perhaps approach their sponsors and/or international donors. In addition, owing to the clear tight correlation with the IEA G8 Plus-5 and general network strengthening goals the material will also be provided to Mr. Unander for possible forwarding to the World Bank as part of ETSAP's response to the IEA's call for input on their PoW.

The meeting was closed at noon.