

ANNEX XI: Joint Studies for New and Mitigated Energy Systems

ETSAP - ENERGY TECHNOLOGY SYSTEMS ANALYSIS PROGRAMME

Implementing Agreement of the INTERNATIONAL ENERGY AGENCY – IEA/AIE

57th EXECUTIVE COMMITTEE MEETING

Held on Thursday, June 24 (15.30 – 17.00), 2010, at the

*Royal Institute of Technology (KTH) premises at Campus Valhallavägen, Lindstedtsvägen 3, Stockholm
(Draft minutes)*

Table 1: Participants

Delegates

N.	Country	Contracting Party	Delegate / Alternate	Atten- ding	Ab- sent	Stand-ins
1	Belgium	FPP Science Policy	Mrs. Anne FIERENS, Vice-chair	X		
2	Canada	NRCan	Mr. Hertsel LABIB, Chair	X		
3	Denmark	DEA	Mr. Aksel Laurids Beck			Mr Poul Erik Grohnheit
4	EU	JRC Petten	Mr. Arnaud MERCIER	X		
5	Finland	VTT/TEKES	Mrs. Pia SALOKOSKI			Mr. Antti Lehtila
6	France	ADEME/EDMP/ DGEMPEAD	Mr. Jean Marie Bouchereau			Ms Nadia Maizi
7	Germany	IER	Mr. Alfred VOSS, Vice-chair	X		
8	Greece	CRES	Mr. George GIANNAKIDIS	X		
9	Italy	CNR/IMAA <u>ENEA</u>	Mr. Vincenzo La Penna <u>Mr. Umberto Ciorba</u>	X		
10	Ireland	SEI	Mr Brian Ó Gallachóir	X		
11	Japan	Government			X	
12	Korea	KEMCO	Mr. Won-Goo LEE	X		
13	Netherlands	ECN	Mr. Marc LONDO	X		
14	Norway	IFE	Mr. Audun FIDJE	X		
15	Sweden	STEM	Mr. Klaus HAMMES	X		
16	Switzerland	PSI	Mr. Hal TURTON			Mr. K. Ramachandran
17	UK	DECC	Mrs. Margaret MAIER			Mr. Adam Hawkes
18	US	DOE	Mr. Carmen DI FIGLIO			Ms. Audrey Lee

Officers:	Mr Uwe Remme	IEA, Desk Officer
	Mr GianCarlo Tosato,	ETSAP, Operating Agent and Project Head, ASATREM srl, Italy
	Mr Antti Lehtila	ETSAP, TIMES Developer, VTT, Finland
	Mr Amit Kanudia	ETSAP, VEDA and TIAM Developer, KanORS, India
	Mr Ken Noble	ETSAP, ANSWER Developer, Noble-Soft System, Australia
	Mr Gary Goldstein,	ETSAP, Liaison Officer, MARKAL developer, DWI, US
	Ms Maryse Labriet	ETSAP, TIAM use, ENERIS, Spain
	Mr Maurizio Gargiulo	ETSAP, TIMES training, E4SMA, Italy
	Ms Kathleen Vaillancourt	ETSAP, Support, GERAD, Canada

Guests:

Mr Per Ivar Helgesen	ENOVA, Norway	Mr Gilles Guerassimoff	MinesParisTech, France
Mr Erik Ahlgren	Chalmers, Sweden	Mr Seok-Ki Lim	KEMCO, Korea
Mr Edi Assoumou	MINES ParisTech, France	Mr Pieter Lodewyks	VITO, Belgium
Mr Markus Blesl	IER, Uni-Stuttgart, Germany	Ms Françoise Nemry	EC, JRC IPTS, Spain
Ms Helena Cabal	CIEMAT, Spain	Mr Wouter Nijs	VITO, Belgium
Mr Eiichi Endo	AIST, Japan	Mr Song-Kyung Park	KIER, Korea
Ms Helene Ystanes Foyen	Risoe, Denmark	Mr Steve Pye	UCL, UK

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Table 2: Amended agenda

No.	ITEM	DOCS
1	Quorum Count	
2	Adoption of the agenda	
3	Adoption of the minutes of the 56th Executive Committee.....	S1 rev
4	IEA-ETSAP Implementing Agreement	
4.1	<i>Communication from the Secretariat</i>	<i>S5 new</i>
4.2	<i>Participation</i>	
5	Annex XI (2008-2010): Joint studies for new and mitigated energy systems	
5.1	<i>Report of activities.....</i>	<i>S7 new</i>
5.2	<i>The ETSAP-TIAM model: use and updates.....</i>	<i>S2, S2a, S2b, S6</i>
5.3	<i>Program of Work</i>	
5.4	<i>Budget: status and proposals.....</i>	<i>S3 rev</i>
6	Annex XII (2011-2013): Policy Analysis Tools for Global Sustainability (PAT-SUS)	S4 rev
6.1	<i>Discussion of initial proposals</i> <i>Discussion and endorsement of the draft final text</i>	
7	Other business	
7.1	<i>Election of the chairperson</i>	
7.2	<i>Report of the workshop</i>	
7.3	<i>Next workshops and Executive Committee meetings</i>	
7.4	<i>(new) Contracting Parties conditions for using MARKAL and TIMES</i>	
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	Annexes	
S1	<i>Draft Minutes of the 56th ExCo meeting, held in Delhi, Wednesday, January 20, 2010</i>	<i>Rev</i>
S2	<i>Letter of Agreement for the use of TIAM proposed by the developers KANLO-KanORS</i>	
S2a	<i>Old Letter of Agreement for the distribution of TIAM approved in Venice at the 55th ExCo meeting</i>	
S2b	<i>New Letter of Agreement, for the use of ETSAP-TIAM (the official 2009 version)</i>	<i>New</i>
S3	<i>Budget of Annex XI (2008-10)</i>	<i>Rev</i>
S4a	<i>Proposed text of next ETSAP Annex (2011-13) (track change)</i>	<i>Rev</i>
S4b	<i>Proposed text of next ETSAP Annex (2011-13) (final text)</i>	<i>Rev</i>
S5	<i>IEA Secretariat report</i>	<i>New</i>
S6	<i>Brief account of TIAM development and funding</i>	<i>New</i>
S7	<i>E-TechDS: invitation to collaborate to other IEA Implementing Agreements</i>	<i>New</i>

Opening

The chair, Mr Hertsel Labib, opened the 57th Executive Committee (ExCo) meeting at 15.40. He thanked KTH for making the facilities available. He welcomed everybody and in particular Mark Londo, ECN, the new delegate of the Netherlands, and Mr. Uwe Remme, the new IEA desk officer of ETSAP.

1 Quorum Count

ETSAP has 18 contracting parties (CP), the quorum is 10. Eleven delegates attended in person and six through their stand-ins (see above, table 1). A quorum was present.

2 Adoption of the agenda

The agenda was adopted with the following amendments (see above, table 2):

- agenda item 6. new title: “Policy Analysis Tools for Global Sustainability (PAT-SUS)”
- agenda item 6.1 new title: “Discussion and endorsement of the draft final text”
- agenda item 7.4 added item: “Contracting Parties conditions for using MARKAL and TIMES”

3 Adoption of the minutes of the 56th Executive Committee (attachment R1 revised)

The chair asked to adopt the minutes of the 56th ExCo meeting. One delegate objected. The sentence “KanORS is in charge of these activities” – agenda item 5.2, Program of Work, at the end of the section on the presentation of TIAM in international forums – did not reflect the different position expressed by some delegates. According to Mr. Tosato those positions were reflected in the following sentence “Some delegates then suggested including new teams for the use of TIAM for presentations in international forums”, which appears in the minutes a few lines below. After discussion, it was decided to change the order of the sentences. The section on the presentation of TIAM in international forums is concluded by: “KANLO-KanORS is in charge of these activities. Some delegates then suggested including new teams for the use of TIAM for presentations in international forums.”

With this change the minutes of the 56th ExCo meeting were adopted.

4 IEA-ETSAP Implementing Agreement

4.1 *Communication from the Secretariat (attachment S5 new)*

Mr. Uwe Remme, the new IEA desk officer of ETSAP, summarised the written report circulated to the delegates. He illustrated recent and upcoming publications, workshops, collaboration & outreach activities of interest of ETSAP CP. For the first time the ETP 2010 book added analyses at the regional level for China, India, OECD Europe and the US. The focus was based on regional or sub-regional MARKAL-TIMES models and analyses carried out by prof. Wenying Chen at Tsinghua University for China, IER Stuttgart for OECD Europe, Tom Alfstad and Chip Friley at BNL for the US.

In July the ETP team will start the preparation of the ETP2012 report. Certainly the model will switch from MARKAL to TIMES. Probably the regions will be redefined, in order to include the European Union and some new developing country as separate regions. The goal is to have the new model running in one year from now.

The IEA is working to the preparation of a “Low-Carbon Energy Technology Platform” on request of the G8. Mr. Remme thanked Mr. Tosato for representing ETSAP at the expert meeting held in Paris on May 31-June 1, 2010. A steering committee will collect the contribution of the experts from governments, industry, and organizations and, at a meeting to be held in October, propose a program of work for 2011.

The IEA established two new units: the Carbon Capture and Storage Technology Unit (CCS), headed by Juho Lipponen, and the Energy Training and Capacity Building Programme (TCB), headed by Assen Gasharov, in charge of extending the training activities from the assembly of quality statistics to systems analyses and modelling.

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Mr. Labib read a message by the IEA Office of the Legal Counsel (OLC). It makes ETSAP aware that “the Commission of the European Communities, which signed the SHC IA on 5 October 1977, has been replaced and succeeded by the Commission of the European Union as a Contracting Party in the IA. This came into effect on 1 December 2009, with the entry into force of the Treaty of Lisbon. It is not necessary for the ExCo to take any steps in relation to this change of name, except to correct it on documents or on the website where the Participants names are listed.” In the same message the OLC approved the new logo adopted by ETSAP: “it goes very well with the new IA logo created by the Secretariat for the IAs.” (Implementing Agreements)

4.2 Participation

The IEA has received a letter from the Government of Spain designating CIEMAT as the Contracting Party in ETSAP, and from CIEMAT the confirmation of participation (June 17). Spain will become the 19th CP to ETSAP as soon as the IEA receives from CIEMAT the form with the official signature letter (in fact the letter was received on July 1, 2010).

Mr. Tosato was invited to Japan by the Institute of Applied Energy (March 15-16, 2010). He participated to two seminars on ETSAP tools and related activities in Japan, held at the Institute of Applied Energy and at the Akihbara Office of AIST, respectively. He presented ETSAP to representatives of the Agency of Natural Resources and Energy, at the Ministry of Economy and Trade (ANRE/METI). The Ministry confirmed the interest of Japan to resume the active participation to ETSAP.

5 Annex XI (2008-2010): Joint studies for new and mitigated energy systems

5.1 Report of activities

Mr. Tosato proposed to illustrate the activities undertaken in the first semester together with the program of work for the following semester, at agenda item 5.3.

5.2 The ETSAP-TIAM model: use and updates

Mr. Labib invited delegates to discuss this point with particular attention since conflicting views emerged in the last few months. Delegates and participants discussed at length. Eventually Mr. Labib and Mr. Tosato were asked to elaborate compromise solutions and submit them to the delegates.

5.3 Program of work

Mr. Tosato illustrated the implementation of the 2010 program of work, as approved at the 56th ExCo meeting.

Model Generators

The improvements in TIMES and MARKAL were illustrated in the morning sessions of the ETSAP WS (see presentation posted at: http://www.etsap.org/Workshop/Stockholm_Sweden_2010/Index.htm).

Data Base Management Systems

The improvements in ANSWER and VEDA were illustrated in the morning at the ETSAP WS (see presentation posted at: http://www.etsap.org/Workshop/Stockholm_Sweden_2010/Index.htm, visit the web site <http://www.kanors.com/vedasupport/>, and contribute to the related forum).

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TIMES Integrated Assessment Model

The collaboration with the Renewable Energy Technology Deployment Implementing Agreement (RETD IA) was completed and the report on Renewable Energy Scenarios built upon the use of TIAM has been now finalised. The collaboration with the Asian Modelling Forum continued. The Data Base Online framework for using TIAM was completed and used by two contracting parties.

Energy Technology Data Source

After further revision 17 briefs were posted on the web (at: <http://www.etsap.org/E-techDS/>), another 4-5 were expected in the following weeks. Delegates and ETSAP tools users were invited to download the briefs, to use them for modelling and send feedbacks to the project coordinators.

The Chair and the Operating Agent contacted all the 27 IEA IA and proposed to collaborate for the joint extension of the E-TechDS to new technology clusters (attachment S7 new). Twelve IA answered; some proposed to revise existing briefs, other proposed to collaborate to characterise new clusters. Mr. Giorgio Simbolotti, E-TechDS project coordinator, will contact directly the representative of many IA at the Bad Toelz (Germany) workshop organised by the Energy Storage IA (ECES). An operational plan will be prepared soon afterwards. Delegates were invited to express their views and preferences on E-TechDS, as already done by one delegate.

Other

The web site continued to improve with corrections, updates and new pages. In the rest of the year it is planned to renew the whole site and move it to www.iea-etsap.org. The ETSAP web page hosted by http://www.iea.org/techno/iareresults.asp?id_ia=15 has been updated.

Training courses were organised back to back to the ETSAP WS. Now a third course was offered in September October in Delhi and a fourth in Cork, at next ETSAP WS.

Some additional work is expected on the cost-benefit analysis of MARKAL-TIMES results.

The delegates took note of the report on activity and endorsed the continuation of the program of work.

5.4 Budget: status and proposals (attachment S3 revised)

Mr Tosato illustrated the main points of the budget. Nine contracting parties paid their fees (actually 11, when these minutes were drafted). With reference to the budget proposed in Delhi, few changes were proposed.

In the first part of the budget, “Base activities, improvements and training / diffusion”, it was proposed to allocate €15k for the preparation of the final report of Annex XI, and €12k for the renewal of the web site.

In the second part of the budget, nothing was allocated for bases support, and the allocation for EMF-24 was reduced to cover the expenses to attend the meetings. Ms. Labriet made it clear that this meant the reimbursement of the participation cost. Decisions on further allocation for ETSAP-TIAM were postponed.

On E-TechDS, as explained above, it was not yet possible to decide what specific briefs would be prepared with the €80k allocated in Delhi. Part of money will be used to supplement the in kind contribution of some IA, others for preparing new briefs independently.

On R&D nothing was decided. Delegates and groups were invited again to send proposals.

The updated budget was approved.

6 **Annex XII (2011-2013): Policy Analysis Tools for Global Sustainability (PAT-SUS)**

6.1 *Discussion and endorsement of the draft final text*

Mr Tosato stressed the importance to agree on the text of next Annex, which paves the way to collaborative work for the next three years. After a short illustration of the four main objective of the new annex, the Chair opened the discussion.

One delegate asked whether in the next Annex interactions are foreseen with the open source code energy modelling framework developed in the frame of OSEMOSYS. Collaborations were not foreseen so far, but the ETSAP team will follow the developments and report to the ExCo for possible future collaborations.

Some delegates stressed the importance of the first objective (a) ‘Coordinated Analysis Tools’, which should be at the core of the activity of the next Annex.

One delegate suggested expanding the activity of ‘preparation of memos etc.’ and moving it from the objective (c) ‘Capacity building’ to the objective (b) ‘Research and Development’, because it involves complex modelling tasks.

One delegate thanked for taking into account his previous observation in the draft text of the new annex and stressed the importance of the forth objective (d) ‘Tools Maintenance’. For CP not particularly interested in the use of TIAM or E-TechDS the generic and continuous improvement of the tools and methodologies is the core of this new annex. ETSAP money spent in this new annex and the corresponding activities should become available to all partners. The suggested ceiling of €100k per annum should not be taken in a too restrictive way. Mr. Tosato promised to review the IPR document sent months ago to the IEA Office of the Legal Counsel and identify clearly what ETSAP owns and / or has the right to use.

One delegate suggested to clarify point 9 ‘Funding’, second paragraph, that the development of ETSAP models and E-TechDS (objective a) is not included in R&D (objective b). Practically, it is suggested to start only those new activities that have a chance to be concluded by the completion of the annex.

One delegate asked about the annual fee. Mr. Tosato confirmed that the annual fee will remain the same, at no more than €20k per participant.

The delegates asked Mr. Tosato to revise the text of Annex XII (2011-2013).

7 **Other business**

7.1 *Election of the chairperson*

Mr. Tosato took the chair and proposed to confirm Mr Labib in the position of chair, and Ms Fierens and Mr Voss as vice-chairs. The proposal was seconded by some delegates. Nobody objected. The chair and vice chairs were confirmed.

Mr. Labib thanked the delegates. He was glad to accept for another year the position, but he announced that he intends to leave it next year. He invited the delegates to make Mr. Tosato aware of possible candidates.

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7.2 *Report of the workshop*

The International Energy Workshop 2010 has been a great success, with about 280 submissions, about 120 presentations, and about 200 registered participants. It was a success for ETSAP too because more than 100 registered for the extra ETSAP day.

Tuesday, June 22, 18.00-20.00 the IEW steering committee met, chaired by Prof. Shunsuke Mori, with the participation of Franco Baroni (IEA), Mark Howell (IAEA), Alison Hughes (ERC-UCT), Semida Silveira (KTH), GianCarlo Tosato (ETSAP), Geoff Blanford (EPRI), Massimo Tavoni (FEEM), and Bob Van der Zwaan (ECN). It approved the management of IEW2010 by the three interim co-directors, Jeoff Blanford, Massimo Tavoni and Bob van der Zwaan. They were confirmed and appointed as co-directors. The IEW steering committee accepted the invitation of John Weyant and Rich Richels to hold next IEW in Stanford (California) Wednesday to Friday, July 6-8, 2011. The venue for 2012 was discussed; possible venues are Japan, South Africa and Paris; the decision was postponed.

7.3 *Next workshops*

Mr Ó Gallachóir confirmed the invitation of the Irish Contracting Party to held next ETSAP Workshop in Cork Monday to Wednesday, November 15-17, 2010. The Monday there will be the National Workshop, Tuesday and Wednesday the ETSAP regular Workshop and ExCo meeting. The training could be held Thursday to Saturday, before or after the workshop. The delegates accepted the invitation.

Mr. Tosato proposed to hold next ETSAP workshop and ExCo meeting back to back to IEW2011, Tuesday July 5, 2010. Options to hold a training course will be explored together with the organisers of IEW2011.

7.4 *Contracting Parties conditions for using MARKAL and TIMES*

Mr. Tosato remarked that not all Contracting Parties signed the Letter of Agreement for using ETSAP tools. Mr. Goldstein illustrated the problem: two new offices at US-DOE would like to use ETSAP tools, on top to the office of international policy which is officially in charge of the ETSAP IA. The responsible of these two US-Doe office should sign the LoA before obtaining the MARKAL-TIMES codes. But letting US-DOE sign such a LoA would not be easy. Given the special position of the ETSAP CP, the following statement will substitute the LoA.

“All the delegates of the contracting parties, on behalf of the offices directly and indirectly using ETSAP tools inside their organizations, understood the meaning and the function of the Letter of Agreement for using ETSAP tools, and agreed on the main principles: not to give the code to others, and not to sue ETSAP if something goes wrong.”

The delegates approved.

The Chair closed the meeting at 17.15.