

ANNEX XIII: TOOLS FOR ANALYSIS OF A FUTURE ENERGY REVOLUTION

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

MINUTES OF THE 68TH EXECUTIVE COMMITTEE MEETING

*held on Thursday, October 22, (14.00 - 18.00), 2015, at the
CMA, MINES ParisTech, Sophia Antipolis, France.*

TABLE 1: PARTICIPANTS

| N. | Country | Contracting Party | Delegate | Attended | Stand-ins |
|----|--------------|--------------------------|--------------------------------------|----------|------------------------|
| 1 | Belgium | VITO/SPW/Brussels | Mr. Jan DUERINCK | Yes | |
| 2 | Denmark | DEA | Mr. Aksel Laurids BECK | Yes | Mr. Kenneth Karlsson |
| 3 | EC | JRC Petten | Mr. Christian THIEL | Yes | Ms. Alessandra Sgobbi |
| 4 | Finland | VTT/TEKES | Ms. Pia SALOKOSKI | Yes | Ms. Tiina Koljonen |
| 5 | France | ADEME/EDMP/ DGEMPEDAD | Ms. Nadia MAIZI | Yes | |
| 6 | Germany | IER | Mr. Markus BLESL, Vice chair | Yes | |
| 7 | Greece | CRES | Mr. George GIANNAKIDIS, OA | Yes | |
| 8 | Italy | ENEA | Ms. Maria Rosa VIRDIS, Vice Chair | Yes | |
| 9 | Ireland | SEAI | Mr. Brian Ó GALLACHÓIR, Chair | Yes | |
| 10 | Japan | Government | | No | |
| 11 | Kazakhstan | NURIS | Mr. Yerbol AKHMETBEKOV | Yes | Ms. Aiyngul Kerimray |
| 12 | Korea | KEMCO | Mr. HoChul Shin | Yes | |
| 13 | Netherlands | ECN | Mr. Tom KOBER | Yes | Mr. Brian Ó Gallachóir |
| 14 | Norway | IFE | Ms. Kari Aamodt ESPEGREN | Yes | |
| 15 | Russian Fed. | ERI-RAS | Mr. Sergey FILIPPOV | No | |
| 16 | Spain | CIEMAT | Ms. Helena CABAL | Yes | |
| 17 | Sweden | STEM | Mr. Klaus HAMMES | Yes | Mr. Erik Ahlgren |
| 18 | Switzerland | PSI | Mr. Kannan Ramachandran | Yes | Ms. Birgit Fais |
| 19 | UK | DECC | Mr. Alec Waterhouse | Yes | Ms. Birgit Fais |
| 20 | US | DOE | Mr. Carmine DI FIGLIO | No | |
| 21 | Sponsor | ENEL Foundation | Mr. Alessandro COSTA | Yes | Mr. Mariano Morazzo |

Officers:

Mr. Uwe Remme IEA Secretariat
Mr. Gary Goldstein ETSAP, Liaison Officer, GAMS, MARKAL, DWI, US

Guests:

Mr. Thomas Brinsmead CSIRO, Australia Mr. Pieter Lodewijks VITO, Belgium

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TABLE 2: AGENDA

| No. | ITEM | DOCS |
|----------|--|------|
| 1 | QUORUM COUNT | |
| 2 | ADOPTION OF THE AGENDA | |
| 3 | FOR THE RECORD | |
| 3.1 | <i>Minutes of the 67th Executive Committee</i> | D1 |
| 4 | IEA-ETSAP IMPLEMENTING AGREEMENT | |
| 4.1 | <i>Communication from the Secretariat</i> | D2 |
| 4.2 | <i>ETSAP Participation</i> | |
| 4.3 | <i>Discussion on the next Annex Work programme</i> | D3 |
| 4.4 | <i>ETSAP website updated version</i> | D4 |
| 5 | ANNEX XIII (2014-2016): TOOLS FOR ANALYSIS OF A FUTURE ENERGY REVOLUTION | |
| 5.1 | <i>Progress of current projects and ETSAP tools</i> | D5 |
| 5.2 | <i>Annex XIII 2015 Budget Report</i> | D6 |
| 5.3 | <i>Selection of new projects</i> | D7 |
| 6 | OTHER BUSINESS | |
| 6.1 | <i>Next workshop and ExCo meeting: Cork, 30-31 May 2016, before IEW 2016.</i> | |
| 6.2 | <i>Successive meetings: Fall meeting 2016.</i> | |
| 6.4 | <i>Others.</i> | |
| <hr/> | | |
| | ATTACHMENTS | |
| | <i>D1 Minutes of the 67th ExCo meeting, held in Abu Dhabi Tuesday, June 2, 2015.</i> | |
| | <i>D2 Communication from the Secretariat.</i> | |
| | <i>D3 Discussion on the next Annex Work programme</i> | |
| | <i>D4 ETSAP Website updated version</i> | |
| | <i>D5 Progress of current projects and ETSAP tools</i> | |
| | <i>D6 Annex XIII Budget report for 2014</i> | |
| | <i>D7 New project proposals and scoring</i> | |

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Opening

The Chair, Mr. Brian Ó Gallachóir, opened the meeting at 14:00 thanking CMA for hosting the meeting and welcoming the guest from Australia.

1. Quorum Count

ETSAP has twenty one Contracting Parties (CP), the quorum is eleven. Nine delegates attended in person and nine CPs through their stand-ins (see above, Table 1). A quorum was present.

2. Adoption of the agenda

The Chair presented the agenda of the Executive Committee (ExCo) meeting. The agenda was adopted by the delegates.

3. For the record

3.1 Minutes of the 66th Executive Committee - for the record (**Attachment D1**)

The minutes of the 67th Executive Committee meeting (on June 2th 2015 in Abu Dhabi) were distributed to the CPs after that meeting, no comments were received and the final version was adopted in August 2015.

4. IEA-ETSAP Implementing Agreement

4.1 Communication from the Secretariat (**Attachment D2**)

Mr Remme presented the main points of the communication from the IEA Secretariat (see Attachment D2 for details). A meeting of all IAs with CERT and the new Executive Director of the IEA was held on 18th September 2015. The Chair asked the delegates to reflect on options for the enhancement of the visibility of ETSAP's activities. The collaboration of ETSAP with IEA for ETP is important and even more proactive engagement with IEA could be pursued.

4.2 Participation in ETSAP

Kazakhstan is a full member of ETSAP as of August 2015. Australia has accepted the invitation and is now in the process of signing the IA text. Ukraine was invited last year to join ETSAP but there is no progress yet. Japan re-engaged with ETSAP and will participate as an active member from 2016. IEA is active in Mexico trying to build a TIMES model. Regarding the participation of USA there is initial engagement with the EPA as well as with TIMES users in the US. Remote participation to ExCo meetings is one of the most important issues for EPA.

Concerns have been expressed from some delegates for CPs that have not paid the annual fees but are participating in R&D projects funded by ETSAP. The delegates decided that CPs/Sponsors that have not paid the fees in the previous calendar year are not eligible for funding in the subsequent year. For the projects approved for funding in 2015 the approval will be provisional and CPs will have until the end of the 2015 to cover the fees. If the 2015 fees are not paid then the project funding will not be available. Additionally, the delegates decided that, subject to this being legally allowed, the voting rights in the ExCo of CPs that are in arrears will be suspended for one year.

4.3 Discussion on the next Annex Work programme

Annex XIII ends by the end of 2016 and the work programme of the new Annex should be agreed in the next ExCo meeting. The Strategic Plan 2015-2020 submitted to the IEA

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together with the request for extension of the ETSAP IA will be used as a background document for the development of the work programme.

Some delegates suggested that the next work programme should focus on specific subjects which should be mentioned explicitly in the text. The topics that will be continued from the previous Annex should be mentioned as improvements and enhancements of work done previously. Other delegates argued that the strategic plan should be rather general in order to include all the priorities of the different participants in ETSAP. It is important to present what ETSAP has accomplished in the previous annexes and what needs to be done in the next steps.

The Chair requested from all the delegates to submit proposals for the title of the next Annex as well as specific topics of interest under the three main topics of tools development, capacity building and research and development that exist in the strategic plan 2015-2020. The proposals should be submitted to the O.A. well before the next ExCo meeting.

4.4 ETSAP website updated version

The new version of the website should be visited by the ETSAP partners in order to provide comments, updates and material to be displayed. The website needs content review; therefore the CPs should provide content review to the website by the end of the year in order to have the new version launched.

The delegates accepted the proposal of posting on the ETSAP tools webpage the contact details of ETSAP model users per country.

5. Annex XIII (2014-2016): Tools for Analysis of a Future Energy Revolution

5.1 Progress of current projects and ETSAP tools (Attachment D5)

The O.A presented the progress of the currently funded projects by ETSAP (details in Attachment D5).

5.2 Annex XIII 2015 Budget Report (Attachment D6)

The O.A. presented the total income of ETSAP for 2015 until October 2015, comprising the fees of 12 contracting parties and the fees of the training courses, and the expenses that took place in 2015 (Attachment D5). The O.A. also presented the contracts commissioned according to the project ranking decided during the 67th ExCo meeting in Abu Dhabi and the payments made in 2015. The O.A. presented the budget for the operational expenses for 2016 which were approved unanimously by the delegates (Attachment D6).

The delegates confirmed unanimously the participation fee of €20,000 for contracting parties and €30,000 for sponsors for 2016. A brief discussion was held on the possibility of linking the level of annual fees to the GDP of the participating party. An investigation will be held on the way other IAs decide on the level of the annual fees and the topic will be discussed in the next ExCo.

5.3 2015 Program of Work: Selection of new projects (Attachment D7)

The delegates discussed the funding of new projects regarding the possibility of revising the proposed budget, or putting limits to the budget of projects based on the type of activities. A discussion was also held regarding the updated ranking method with the possibility of different weights for the various criteria. The Chair asked for concrete proposals from the delegates on the project ranking for the next ExCo meeting.

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The delegates approved the funding of the projects using the updated ranking approach, in the following order, provided that funding is available through the participation fees (see Attachment D7):

1. Myopic windows: Temporal trade-offs in decarbonisation pathways (10000Euros).
2. Collaboration forum for ETSAP-TIAM based on GIT version control (27200Euros).
3. Integrated Water Modelling in TIMES - Moving towards best practice funding only half of the budget for the workshop only provided that the fees for 2015 are paid (35000Euros).
4. Time-slice tool for capturing the characteristics of intermittent renewables (24850Euros).

The delegates approved an additional amount of 15600Euros for the TIMES starter model for Mr Gary Goldstein (Decisionware) and the transfer of the 7000Euro that was allocated to Noblesoft for the User's Manual to the development of the starter model.

One delegate observed that the criterion of participation in the projects scoring is not appropriate for projects that are related to the improvement of the models and tools. An alternative would be to translate "participation" as the number of members that would be benefited by the tools development in a project proposal. After a discussion the Chair suggested to re-visit in the next ExCo meeting the ranking method for the project proposals.

6. Other business

6.1 *Next workshop and ExCo meeting: Cork, 30-31 May 2015.*

The summer 2016 meeting will be held in Cork on 30-31 May 2016, hosted by UCC.

6.2 *Successive meetings:*

The delegates decided to hold the meeting of autumn 2016 in Madrid, Spain hosted by CIEMAT in October - early November. An invitation was offered by the delegate of Belgium and the delegate of Kazakhstan to host one of the future workshops. Mr Goldstein offered to host the autumn meeting of 2017 in Bali.

The Chair closed the meeting at 18:10 thanking CMA for the organisation of the ETSAP workshop and the ExCo meeting.