

SUMMARY OF THE 23RD IETS EXECUTIVE COMMITTEE MEETING NOVEMBER, 22-23 2016, LIÈGE, BELGIUM

The meeting was kindly hosted by Université de Liège, Research Unit in Chemical Engineering.

The following persons took part in the meeting:

- Thore Berntsson (Chair, Chalmers University of Technology, Sweden)
- Angélique Léonard (Université de Liège, Belgium)
- Clemente Pedro Nunes (vice Chair, Technical University of Lisbon, Portugal)
- Svante Söderholm (Swedish Energy Agency, Sweden)
- Claus Börner (Forschungszentrum Jülich GmbH, Germany)
- Anne Merethe Kristiansen (Enova SF, Norway)
- Andreas ten Cate (Institute for Sustainable Process Technology (ISPT), the Netherlands)
- Isabel Cabrita (Directorate of Energy and Geology, Portugal)
- Gilles Tihon (Service public de Wallonie)
- Gudrun Maass (Chair, IEA End-use Working Party)
- Per-Åke Franck (IETS Secretariat, CIT Industriell Energi, Sweden)
- Heléne Johansson (IETS Secretariat, CIT Industriell Energi, Sweden)

In addition, two researchers from Université de Liège, Sandra Belboom and Vincent Lemort, presented current national projects. Unfortunately, IETS member countries Korea, Austria, Denmark and the U.S could not participate in the meeting.

The theme for the preceding workshop was “Workshop on Strategies for Industrial Research in the Energy Sector”.

SUMMARY OF THE EXCO MEETING

The IETS TCP continues to implement its new strategic direction, decided on in 2015. This means, among other things, that a large part of the ExCo meeting dealt with proposals for new, long-standing annexes and other activities, e.g. workshops and reports, in order to extend the operations of the TCP and attract new members.

Among the activities that will take place in 2017 is the IEA Expert Workshop on Process Integration (Berlin, April) and a Joint Workshop together with the BioEnergy TCP (Gothenburg, May). The “Bioenergy Week”, May 15-19, in Gothenburg will also include joint meetings and study visits to the GoBiGas biomass gasification plant and the Preem Evolution Diesel biorefinery.

National Support Groups (NSGs), i.e. networks on the TCP level that covers a range of relevant

research and industry areas, are crucial for the future work of IETS as it can enhance and spread the knowledge about IETS in relevant contexts in the IETS member countries and thus contribute to the concrete as well as overall strategic development of the IETS. The overview that was presented at this ExCo meeting, showed that NSGs exist, to some extent, in most member countries, but the use, activities and composition of the groups vary considerably.

The Matrix on on-going research activities is used as a tool to by the IETS identify areas of specific interest to the TCP. At the ExCo meeting, a summary of the Matrix work, so far, was presented and also a suggestion for how to use the Matrix when starting new annexes. An annex on “industrial automation and digitalization from an energy perspective” will be the first annex to start in this way, i.e. by mapping specific parameters.

Interesting national on-going projects are, starting at this meeting, going to be presented at the autumn ExCo meetings. The following national projects were presented:

- Environmental impact assessment of Belgian electricity production using LCA – past, present and future scenarios (Belgium)
- Activities in the field of Waste Heat Recovery (Belgium)
- Centre for an Energy Efficient and Competitive Industry for the Future - HighEFF (Norway)
- Hydrogen Breakthrough Ironmaking Technology (HYBRIT) (Sweden)

Increased dissemination of results from the TCP and annex work is considered important and it was decided that a number of “topic sheets” in specific areas shall be produced and distributed yearly to relevant target groups.

Status reports were given from all current Annexes:

Annex XI (Industry-based biorefineries) will soon deliver a final report. However, the IETS ExCo decided to transfer this Annex into a long-standing one, including, to begin with, two new Tasks – one being the BioEnergy week and the other one Communication/Dissemination from the Annex.

Annex XIV (Process Integration in the Iron and Steel Industry) will also be transferred to a long-standing Annex, with a possible new Task in the area of education (still to be decided on) and a new name: Energy-efficiency in the Iron and Steel Industry.

Annex XV (Industrial Excess Heat Recovery) has recently continued as a long-standing Annex with Task 2. A proposal for additional Task will be presented at the next ExCo meeting.

Annex XVI (Energy Efficiency in SMEs) also proposed a new task, focusing on energy end-use efficiency policies with emphasis on energy efficiency networks towards industrial SMEs as well as review of scientific publications towards industrial SMEs.

The new task can start as soon as it has been approved by the ExCo, which, with a revised timeplan, could be at the next ExCo meeting.

Annex XVII (Membrane filtration for energy-efficient separation of lignocellulosic biomass components) is making progress, but at a slow pace. Two articles have been published.

Several **proposals for new activities** were presented:

- Workshop directed at the industry sector regarding multiple benefits
- Annex on Economic and Environmental Evaluation of New Industrial Technologies
- Industrial automation and digitalization from an energy perspective – starting with a workshop.
- Syntheses of reports

The next IETS ExCo Meeting will take place on May 17-18 2017 in Gothenburg, Sweden, during the “BioEnergy week”.

WORKSHOP SUMMARY: “STRATEGIES FOR INDUSTRIAL RESEARCH IN THE ENERGY SECTOR”

The purpose was to go through the current situation as well as listing reports in each country regarding energy efficiency, aiming at giving a better overview in this area for the IETS TCP countries, national and international researchers and the IEA. Making syntheses of such reports could, e.g., be a new long-standing annex, managed by the IETS Secretariat. At the workshop, the participating countries presented information about energy use and GHG emissions as well as existing reports in the area. During the subsequent discussion the participants were also asked to come up with suggestions for possible new annexes. Among the interesting areas that were mentioned were, e.g.

- Microreactor techniques
- Purification technology (Cleaning)
- Electrification in industry
- Industrial cluster development
- System studies of industry networks
- LCA
- Biomass and energy use