

SUMMARY OF THE 25TH IETS EXECUTIVE COMMITTEE MEETING NOVEMBER, 28-29 2017, VARENNES, CANADA

The meeting was kindly hosted by Natural Resources Canada at the CanmetENERGY site in Varennes.

The following ExCo members, observers and Secretariat staff participated in (the whole or parts of) the meeting:

- Thore Berntsson (Chair, Chalmers University of Technology, Sweden)
- Claus Börner (Forschungszentrum Jülich GmbH, Germany)
- Jan Sandvig Nielsen (Weel & Sandvig, Denmark)
- Elvira Lutter (Klima- und Energifunds, Austria)*
- Clemente Pedro Nunes (vice Chair, Technical University of Lisbon, Portugal)*
- Isabel Cabrita (Directorate of Energy and Geology, Portugal)*
- Maurits Clement (vice Chair, RVO Netherlands Enterprise Agency, the Netherlands)*
- Eric Soucy (observer, CanmetEnergy, Canada)
- Fiona Zuzarte (observer, CanmetEnergy, Canada)
- Philippe Navarri (observer, CanmetEnergy, Canada)
- Per-Åke Franck (IETS Secretariat, CIT Industriell Energi, Sweden)
- Heléne Johansson (IETS Secretariat, CIT Industriell Energi, Sweden)

Unfortunately, IETS member countries Belgium, Norway, the U.S could not participate in the meeting. (*= by phone/GoToMeeting)

Mouloud Amazouz, Marzouk Benali and Serge Bedard from CanmetENERGY as well as Paul Stuart, Polytechnique Montreal also attended the meeting. John Bagterp Jørgensen, DTU, Denmark presented a task proposal via GoToMeeting.

The theme for the preceding workshop was “Big Data Analytics for Energy efficiency and GHG Emissions Reduction” and aimed at setting the scene and provide the scope for a new annex on digitalization.

SUMMARY OF THE EXCO MEETING

A large part of the IETS ExCo meeting dealt with proposals for new activities. Several new tasks, that could be included in on-going annexes, were discussed and also the initiation of a new annex on digitalization and data evaluation in industry for the purpose of energy efficiency.

Status reports, including proposals for new activities were given from all current Annexes:

Annex XI (Industry-based Biorefineries) has delivered a draft final report on the first phase of the project, which will be reviewed by the ExCo before publishing. A proposal for a new task - “Decision Support Tools and Ex-Ante Research for Evaluating Bioeconomy Transformation Strategies”

was presented by Canadian representatives. It was decided to start the task and that the results of the initial workshops should be presented to the ExCo in May together with a work plan.

Annex XIII (Applications of Industrial Heat Pumps and Electrification in Industry) will continue with a new task: “Electrification of Industrial Processes”. The work will start with an overview of available technologies, to begin with in the area of “Power-to-Heat”. Dutch delegate Maurits Clement will be the Annex Manager, resigning from the post as vice Chair.

Annex XIV (Energy-efficiency in the Iron and Steel Industry) has started the new task: “Training and dissemination”. The first course on process integration in steelmaking was held in October with

20 international participants and the next will be held in June. Two additional tasks have been proposed earlier, but no further development regarding these tasks was presented.

Annex XV (Industrial Excess Heat Recovery) is working according to plan. There will be a final report from Task 2 late next year and a proposal for Task 3 will be presented to the ExCo in May.

Annex XVI (Energy Efficiency in SMEs) was granted a continuation at the last ExCo meeting and will start a new task in January, the first deliverable being policy recommendations and how countries should approach and work with industrial SMEs in regard to improving energy efficiency, including an overview of policies and programs, and the outcome of these policies and programs. One Irish and one Japanese institute will be invited to join the annex as sponsors.

Annex XVII (Membrane Filtration for Energy-efficient Separation of Lignocellulosic Biomass Components) has presented a final report that was approved by the ExCo. A new task – broadening the scope from focus only on lignocellulosic biomass to covering “membranes processes in biorefineries” - was presented and approved at the ExCo meeting. The new task will start in January and continue for three years with Professor Frank Lipnizki, Lund University, as the new Annex Manager. A Finnish university will be invited as sponsor.

Four initial “**Topic Sheets**” were approved for publication:

- Energy end-use data among industrial SMEs and energy end-use efficiency improvement opportunities (Annex XVI)
- Guidelines for application of process integration in the steel industry (Annex XIV)
- The role of industrial biorefineries in a low-carbon economy
- The role of process integration for greenhouse gas mitigation in industry

The **IETS Matrix** (of research activities) has been developed over a few years. The member countries will now be asked to provide five areas each within the industrial sector (as to be defined by the Secretariat) to make a new matrix.

Some additional **proposals for new activities** were presented:

- At the previous ExCo meeting it was decided that the IETS will sponsor, with logos, support regarding programme and knowledge spreading, the [International Conference on negative CO2 emissions](#) in Gothenburg, May 2018. Suggestions for new potential projects in the area of biobased CCS and CCU are also encouraged.
- The Secretariat will make syntheses of available reports issued in member countries, e.g. evaluations of research areas, government reports on relevant topics or political reports.

Korea has withdrawn from the IETS TCP, while **Canada** is finalizing the paper work to join from January 1 2018. The ExCo decided unanimously (per capsulam) to send an invitation to **France**, since there are French organizations interested in collaboration. It was also decided to investigate if there is an interest in participation from the **EU**.

Election of Chair and vice Chair was held at the meeting and it was decided that Chair Thore Berntsson and vice Chair Clemente Pedro Nunes will keep their assignments for two more years.

The next IETS ExCo Meeting will take place in May 2017 – dates and venue to be decided on.

“BIG DATA ANALYTICS FOR ENERGY EFFICIENCY AND GHG EMISSIONS REDUCTION” – WORKSHOP CONCLUSIONS

Three presentations were held during the workshop:

- Trends in Big Data and data analytics, by Daniel Aloise, Polytechnique Montreal.
- Towards a vision for the Big Data application focus in the new IETS Annex, by Mouloud Amazouz, CanmetENERGY.
- Draft proposal for Task 1 of the new Annex, by Paul Stuart, Polytechnique Montreal.

There were many interesting discussions following the presentations, contributing to the elaboration of the proposal that was to be presented to the ExCo during the succeeding IETS ExCo meeting.