

SUMMARY OF THE 27TH IETS EXECUTIVE COMMITTEE MEETING 27-28 NOVEMBER 2018, ROME, ITALY

The meeting was kindly hosted by ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development.

ExCo members (delegates and/or alternate delegates) from eight member countries, Italian observers, representatives from two sponsor organizations, one Annex and the IEA End-Use Working Party as well IETS Secretariat staff participated in the meeting.

IETS member countries Belgium and the U.S are leaving the TCP and were not present.

The theme for the preceding workshop together with Italian stakeholders was “Opportunities for international collaboration on RDI for energy saving and GHG mitigation in industry”.

SUMMARY OF THE EXCO MEETING

A large part of the IETS ExCo meeting dealt with proposals for new activities. The preparations for two new Annexes, one focusing on electrification in industry and one on digitalization, AI and related technologies for energy efficiency and GHG emissions reduction, are ongoing, as well as the new task on decision support tools in Annex XI. The planning for a new expert workshop on deep decarbonization of the industrial sector that will be held in Vienna in October 2019 was also discussed.

Status reports, including proposals for new activities were given from all current Annexes:
Annex XI (Industry-based Biorefineries) is preparing the new task - “Decision Support Tools and Ex-Ante Research for Evaluating Bioeconomy Transformation Strategies” and the transfer of management from Portugal to Canada. Three well attended webinars presenting software tools have been held, so far.

Annex XIV (Energy-efficiency in the Iron and Steel Industry) has continued working with the new task: “Training and dissemination” and is currently working on getting organizations onboard for the continuation (years 2017-2020) of this Annex, including also two additional subtasks.

Annex XV (Industrial Excess Heat Recovery) will soon publish a Final Report from Task 2, which includes the experiences from each group together with a discussion of findings. A proposal for a Task

3 is being prepared and the work will start next year, if approved by the IETS ExCo.

Annex XVI (Energy Efficiency in SMEs) is in the start-up phase of two new tasks: Energy end-use efficiency policies towards industrial SMEs with emphasis on energy efficiency networks and Review of scientific publication on energy end-use efficiency and industrial SMEs.

Annex XVII (Membrane processes in biorefineries) is setting up the organization for executing the previously approved extension including six new subtasks.

Annex XVIII (Digitalization, Artificial Intelligence and Related Technologies for Energy Efficiency and GHG Emissions Reduction in Industry) will have a kick-off webinar for Task 1, Assessment study, in mid-December. Planned work is, e.g.:

- Overview of broad trend sin industry
- Survey of Big Data, Digitalization and Data Analytics centers of excellence and energy-intensive process sectors
- Big Data projects in participating IETS countries
- Assessment of potential impact of Big Data on different process industry sectors, Identification of RD&D opportunities for strategic development of Big Data tools, methods and applications in the energy-intensive process sectors

Annex XIX (Electrification in Industry) reported the outcome of interviews and scoping performed during fall. The start-up phase in 2019 will consist of:

- Establishing a Steering Committee – finalize scoping of attention areas and formalization, activate working areas.
- Starting a centralized action - collection and analysis of National Roadmaps.
- Start two tasks - Power to Heat and Power to Hydrogen.

An organization from a non-IETS member country wishing to participate in Annex work can join the IETS as a sponsor. A sponsor has access to all internal information and can participate in ExCo meetings, but without the right to vote. A sponsor has to be invited by the IETS ExCo and approved by the IEA Committee on Energy Research and Technology (CERT).

The following sponsor organizations have been approved by the CERT:

- Ricerca sul Sistema Energetico S.p.A. (RSE), Italy
- EURAC Research, Italy
- Universidad de la Costa, Colombia
- Central Research Institute of Electric Power Industry, Japan
- Limerick Institute of Technology, Ireland

The contents of two **Topic Sheets** were approved, i.e., “Big data” and “Membranes”, and will be published. Two new titles “Excess heat” and “Decision Support Tools” were proposed and approved.

The Annex Management Guidelines have been updated and will be reviewed by the ExCo before approval.

An updated version of the **IETS Matrix** (of research activities) was presented at the meeting and might result in a new activity in “Process modification / Intensification”.

The new website (<https://iea-industry.org/>) was launched on June 15. The IETS TCP has also started a Twitter account (@IEA_IETS) for a wider dissemination of information.

The next IETS ExCo Meeting will take place in Paris, mid-May 2019.

**SUMMARY OF THE WORKSHOP:
“OPPORTUNITIES FOR INTERNATIONAL
COLLABORATION ON RDI FOR ENERGY
SAVING AND GHG MITIGATION”**

A number of presentations, resulting in fruitful discussions, were held during the workshop:

- Italian involvement in EU programmes Mission Innovation and SET plan.
- Italian participation in IEA end-use TCPs.
- Global participation in IEA TCPs.
- ENEA Activities on Bioenergy and Green Chemistry, also relating to Bioenergy Task 42 and IETS Annex XI.
- Two projects in the area of energy efficiency: Induco and EU-Merci.
- ENEA work in the area of Digitalization

Some conclusions from the workshop:

- Italian organizations already work in some IETS Annexes, but there is interest to participate in additional activities.
- The IETS area attracts more and more interest. The IEA is highlighting the industrial sector more: as the second largest emitter (after power production). Climate mitigation in this sector is very important.
- The result of the IETS collaboration is networking, knowledge transfer, identification of direct collaboration between participants and dissemination of important aspects of different technologies and systems, but it can also result in a joint application for EU funding.