

## IETS Newsletter on current work and activities

### No. 5, January 2017

*The IETS Newsletter provides you with short status reports on on-going Annexes, information on up-coming events and other information on IETS activities. IETS is the IEA Technology Collaboration Programme (TCP) on Industrial Energy-Related Technologies and Systems. Currently there are ten IETS Member countries that collaborate in several Annexes. Visit the IETS web site for more information.*

*You receive this newsletter as an IETS delegate, observer, Annex participant, subscriber by notice, or otherwise considered related to and possibly interested of the work within IETS. If you do not wish to receive future newsletters, please unsubscribe by e-mail to the IETS Secretariat.*

**The last IETS Executive Committee Meeting** was hosted by Université de Liège, Research Unit in Chemical Engineering in Liège, Belgium. In addition, a workshop focusing on national energy-use, GHG emissions and existing reports in the area, was held before the actual meeting. A short summary of the meeting minutes can be found at the [IETS website](#).

#### **IETS Annex Statuses**

The current strategic plan for the IETS TCP involves the development of an organization with larger and more long-standing Annexes. The IETS ExCo has, hence, decided that it shall be possible for recently finished Annexes to continue as long-standing Annexes if there are relevant suggestions for new Tasks. At the last IETS ExCo meeting, several proposals were put forward and most finished Annexes are likely to go on with new Tasks.

Annex XI, [Industry-based Biorefineries](#), will soon deliver a final report including the initial scope, but it will now be transferred to a new long-standing Annex and continue with two new Tasks – one being the “BioEnergy week” together with the BioEnergy TCP in Gothenburg in May and the other one Communication/Dissemination from the Annex.

Also Annex XIV, [Process Integration in the Iron and Steel Industry](#), will be continued as a long-standing one, e.g., with a Task focusing on professional education in the field. It has been decided that the name of the Annex will change into “Energy-efficiency in the Iron and Steel Industry”.

Annex XV, [Industrial Excess Heat Recovery](#), restarted with a second Task in October and will come up with a proposal for a more long-standing Annex during the spring.

Annex XVI, [Energy Efficiency in SMEs](#), finished in 2015. However, at the last ExCo meeting, a new Task was

proposed, 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.

Annex XVII, [Membrane filtration for energy-efficient separation of lignocellulosic biomass components](#), proceeds with the included tasks in 2017.

Updated information is available at the [Annex website](#).

#### **EMS Summer School 2017 Membranes in Biorefineries**

IETS Annex XVII is co-hosting the 34th European Membrane Society Summer School focusing on “Membrane in Biorefineries”, which will take place in the southern part of Sweden June 26 - 30, 2017.

This summer school will bring together leading European scientists and industrialists in the areas of membrane technology and biorefineries with students and young researchers.

The target group for the summer school are students and researchers interested in integration of membrane processes in the concept of biorefineries. Participants from industry are also welcome. Read all about the programme and venue at the [Lund University website](#).

#### **Proposals for new Annexes**

Proposals for new Annexes within the IETS TCP have been put forward and will be further elaborated and evaluated. The most interesting areas are, at this stage, economic and environmental evaluation of new industrial technologies, industrial automation and digitalization from an energy perspective and syntheses of reports regarding energy use and GHG emissions.

#### **Current activities**

The IETS TCP strives to attract new countries – both as regular ExCo members, but also as sponsors in specific

Annexes – in order to collect, develop and spread knowledge in the area of energy-efficiency and renewable energy technologies and systems for the industrial sector. Organizing workshops and promoting the TCP on different occasions has proven effective as has personal contacts. The IETS TCP will continue this path during 2017, by, e.g. organizing more workshops, see below, updating and packaging of promotional material and new topical fact sheets directed at specific target groups.

### Upcoming events

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.

There will also be a workshop on “industrial automation and digitalization from an energy perspective” (no date

set yet).

**The next IETS Executive Committee Meeting** will take place in Gothenburg, 17-18 May 2017.

### IETS Members and representation

Currently there are ten IETS Member countries: Austria, Belgium, Denmark, Germany, Korea, the Netherlands, Norway, Portugal, Sweden and the United States.

### Next Newsletter

The next IETS Newsletter is planned for June 2017. In the meantime, [visit the IETS website](#) for updated information regarding the work within IETS.

## INDUSTRIAL ENERGY-RELATED TECHNOLOGIES AND SYSTEMS (IETS)

The IETS program focuses on energy use in a broad range of industry sectors, uniting IEA activities in this area. Industry offers a significant savings potential at low or even negative cost. The work included in IETS ranges from specific developments of process or energy technologies to overall system aspects, in which energy efficiency is an important part, for practically all types of industry types.

The mission of IETS is to foster international co-operation among OECD and non-OECD countries for accelerated research and technology development of industrial energy-related technologies and systems.

### Background

The IETS program was established in 2005 as a result of a merger, revamping and extension of activities formerly carried out by separate individual programs. The former programs for pulp & paper and for process integration are now parts of the IETS. The new program is still under development, with several new activities starting up.

### Objective

The objective of IETS is to allow OECD member countries and OECD non-member countries to work together to foster international co-operation for accelerated research and technology development of industrial energy-related technologies and systems with main focus on end-use technologies, also taking into account other relevant IEA activities.

### Activities

Through its activities, IETS will increase awareness of technology and energy efficiency in industry, contribute to synergy between different systems and technologies, and enhance international cooperation related to sustainable development.

The participants will implement a wide range of co-operative activities in the fields of

- scientific research,
- technology and systems research and development,
- demonstration and deployment,
- technology and systems foresighting,
- technology and systems assessment of policies and consequences, and
- dissemination of information.