

IETS Newsletter on current work and activities No. 7, February 2018

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 nine 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 CanmetENERGY in Varennes, Canada, on November 28-29. A short summary of the meeting minutes is published at the [IETS website](#).

Several proposals for new Tasks within the existing Annexes were put forward and approved, which will result in inspiring and important new projects starting in 2018 (see Annex Statuses below).

Prior to the ExCo meeting, a workshop called “Big Data and Data Analytics for Energy Efficiency and GHG Emissions Reduction” was held, aiming at setting the scene for and giving input to an annex proposal in the area. There were many interesting discussions during the workshop, contributing to the elaboration of the proposal. This workshop was preceded by an expert webinar on digitalization and Big Data earlier in the fall.



Mouloud Amazouz, CanmetENERGY, presents the background of and the vision for the proposed new Annex “Big Data and Data Analytics for Energy Efficiency and GHG Emissions Reduction”, to the IETS ExCo and other workshop participants. Photo: Helène Johansson

Re-election of Chair and vice Chair

Thore Berntsson, Sweden, was appointed Chair and Clemente Pedro Nunes, Portugal, vice Chair for two more years (2018-2019).

IETS Annex Statuses

After a period of consolidation in some of the Annexes, the trend is now very positive. The new strategic plan with larger and more long-standing annexes has, hence, proven to be successful.

Annex XI, [Industry-based Biorefineries](#), has delivered a draft final report on the initial scope. However, a project on decision support tools for evaluating bioeconomy transformation strategies is being formalized and will be added as a new task in this long-standing annex.

Annex XIII, [Applications of Industrial Heat Pumps and Electrification in Industry](#) is taking on a new task on electrification in industrial processes.

Annex XIV, [Energy-efficiency in the Iron and Steel Industry](#), has started a new task, i.e. an [international course on process integration in steelmaking](#), which was held for the first time in October. The next opportunity will be in June 2018 in Luleå, Sweden.

Annex XV, [Industrial Excess Heat Recovery](#), is working according to plan and will deliver a final report in the end of 2018. In the meantime a new Task is being prepared.

Annex XVI, [Energy Efficiency in SMEs](#) is starting a new Task early in 2018, 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](#), has delivered a final report, and a new Task - broadening the scope from focus only on lignocellulosic biomass to covering “membranes processes in biorefineries” - will start in early 2018.

Recent publications

The report and the executive summary from the IEA expert workshop titled “The Role of Process Integration for Greenhouse Gas Mitigation in Industry”, organized by

the IETS TCP in Berlin on April 4-5 2017, is available from [the IETS website](#) together with the slide presentations.

Summary and conclusions from the IEA Bioenergy/IEA IETS joint workshop titled “The role of industrial biorefineries in a low-carbon economy”, held in Gothenburg, May 2017, is available from [the IETS website](#).

The final report from the first phase of Annex XVII is now published at the [IETS website](#).



IEA TCPs IEAGHG, IEA Bioenergy and the IETS are among the sponsors for and international conference bringing together a wide range of scientists, experts and stakeholders. *Image: Conference website*

Upcoming events

The IETS is sponsoring the International Conference on

Negative CO₂ Emissions in Gothenburg, May 22-24. The purpose of the conference is to bring together a wide range of scientists, experts and stakeholders, in order to engage in various aspects of research relating to negative CO₂ emissions. This will include various negative emission technologies, climate modelling, climate policies and incentive. More information can be found at the [conference website](#).

The next IETS Executive Committee Meeting will take place in May 2018.

IETS Members and representation

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

Next Newsletter

The next IETS Newsletter is planned for July 2018. In the meantime, [visit the IETS website](#) for updated information regarding the work within IETS.

The IETS TCP wishes you an energy efficient 2018!

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.