

IETS Newsletter on current work and activities

No. 6, July 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 the Swedish Energy Agency in Gothenburg, Sweden, during the “Bioenergy Week” (15-19 May), which included several different meetings, workshops and study tours. A short summary of the meeting minutes will be published at the IETS website.

One important event was the joint workshop titled “The role of industrial biorefineries in a low carbon economy” that was held together with the IEA Bioenergy TCP and gathered about 70 people from more than 20 countries. The presentations are available at the [IEA Bioenergy website](#) and there will also be a concluding report.



Study tour participants and guides at the GoBiGas plant for gasification of biomass to produce advanced biofuels. The tour also visited Preem’s production of renewable diesel and gasoline based on tall oil and other residues. Photo: Pearse Buckley

IETS Annex Statuses

The current strategic plan for the IETS TCP involves the development of an organization with larger and more long-standing annexes. Currently, several new proposals for activities are being discussed, some of which could be included as tasks in existing annexes.

Annex XI, [Industry-based Biorefineries](#), will soon deliver a final report on the initial scope. However, a project on decision support tools for evaluating bioeconomy transformation strategies, previously put forward as ex-

ante evaluation, is being formalized and may be added as a new task in this long-standing annex.

Annex XIII will continue as [Applications of Industrial Heat Pumps and Electrification in Industry](#) and possibly include a task on electrification in industrial processes, which is being discussed.

Annex XIV, [Energy-efficiency in the Iron and Steel Industry](#), is planning for an international course on process integration in steelmaking, which will be held for the first time in October. Further work may include development of modelling approach that allows for model interconnectivity and implementation in industrial IT environments as well as applied process integration studies on energy efficiency, resource efficiency and greenhouse gas mitigation.

Annex XV, [Industrial Excess Heat Recovery](#), is working according to plan, e.g. through an annex workshop in Lisbon in May. Four main areas are included: Results and experiences of industrial excess heat surveys, methods for making surveys, consequences of policy instruments for excess heat and new technology developments for excess heat.

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](#), will soon deliver a final report, but there are already some ideas plausible for a continuation.

Current activities

The IETS Annual Report 2016 is now published at IETS website. The report includes progress reports from active annexes as well as general information about the IETS TCP, performed activities and plans for future work.

The IETS TCP organized an IEA expert workshop titled “The Role of Process Integration for Greenhouse Gas Mitigation in Industry” in Berlin on April 4-5. About 30 people from 13 countries participated in the workshop, sharing knowledge and experiences from different types of industries and research areas. The workshop will result in an open report and the presentations held are already available at the [IETS website](#).



IETS Chair Thore Berntsson introducing a discussion at the Berlin workshop on process integration.

Photo: Heléne Johansson

Upcoming events

There will be a web meeting on “digitalization and data evaluation in industry for energy efficiency”, aiming at starting an annex in this area. The date is not set yet.

The next IETS Executive Committee Meeting will take place in November 2017 and include the election of Chair and vice Chairs.

The IETS Secretariat will be hosted by CIT Industriell Energi in Sweden for three more years, since the ExCo has decided to renew the appointment.

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 December 2017. In the meantime, [visit the IETS website](#) for updated information regarding the work within IETS.

The IETS TCP wishes you all a nice summer!

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.