

Highlights from the 8th ExCo meeting in Paris, France

The 8th IETS Executive Committee meeting was arranged at the facilities of the International Energy Agency in Paris, France.

Kick-off meeting for Industrial Heat Pumps

In April, IETS arranged a joint kick-off meeting in cooperation with the Implementing Agreement for Heat Pumping Technologies in Amsterdam. A possible joint Annex on industrial heat pumps is now under preparation. Some of the discussed scope areas are information to key stake holders and policy makers, and better knowledge and information about industrial heat pumps.

Inventory of Industry-based Biorefineries

Within IETS Annex XI, Industry-based Biorefineries, an inventory of information on R&D programmes and demonstration/industrial installations has been started to identify the State-of-the-Art and Benchmarking of industry-based biorefineries in the IETS countries. This work will be continued throughout the year. Read more about Annex XI on the IETS website.

New Annex proposal on Process Integration in the Iron & Steel Industry

The iron and steel industry is one of the most energy intensive, as the processes operate at high temperatures. Because of the necessary use of coke and coal as reducing agents, and unavoidable use of fuels for reheating purpose at the rolling mill, the emission of carbon dioxide is also substantial.

Within this Annex, modelling and optimisation of iron- and steelmaking production will be in focus. An optimisation model will be developed. The model includes the energy and process gas system of an integrated steel making together with one or more industrial partners. The model will be used both in a process perspective and in a system perspective to evaluate the local as well as the global effects on the energy use, total emissions, and costs because the local/regional conditions may lead to different conclusions on the potential benefits of new technologies.

Read more about existing and proposed Annexes at www.iea-iets.org or contact the IETS Secretariat, sara.boije@kanenergi.se to learn more.

More detailed Meeting Highlights from Paris are available on the IETS website: <http://www.iea-iets.org/oslo/iea-iets.nsf/932db17d668fff70c12569370027a098/cb89e18fe01fb895c125747a0028c287!OpenDocument>.

New publications From IETS



IETS Annual Report 2008

The IETS Annual Report 2008 is now published. It contains highlights from the year, results and activities from the ongoing Annexes and a feature on the upcoming task on Membrane Technologies.

During the year, the IETS work has been extensive with consolidation of newly started Annexes and discussions on possible new Annexes. Due to the broad scope of IETS, these activities cover many different R&D scientific and application areas. In fact, 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. For the moment the pulp and paper, iron and steel, petrochemical, oil refinery, aluminium and SME types are included in ongoing or planned Annexes (projects).

The report can be found in the Publications section on the IETS website:

<http://www.iea-iets.org/oslo/iea-iets.nsf/id/97F2A0D732860FA7C12571DB002D674C?OpenDocument>

New project ideas on energy use in industry sectors

The IETS program focuses on energy use in a broad range of industry sectors, uniting IEA activities in this area. Aside from its ongoing projects, IETS is currently starting up five new areas of work.

Currently, these project proposals (Annexes) are being outlined in terms of work scope and objectives, and are also looking for interested partners that would like to join the international co-operation for accelerated research and technology development of industrial energy-related technologies and systems within these areas:

Industrial Excess Heat. Aims at investigating the potential for use of industrial excess heat, but also to widen the application of existing technology and spread know-how to potential industries. Some ideas and technology examples that could be included are: sensible preheating, condensing economizers, fumes to fuel/power generation, mechanical vapour recompression or thermal compression, and chilled water /refrigeration.

Process integration and energy efficiency for the iron and steel industry. The suggested objectives and scope of this proposal is development of process integration methods to identify possibilities for minimization of energy use and/or greenhouse gas emission from the iron and steel industry, and use of process integration methods for evaluation of new iron- and steelmaking technologies.

Industrial CO₂ separation. Will include pre- and post-combustion technologies, system and technology aspects and degree of pureness of the CO₂. An Annex will be prepared to the next ExCo meeting in November.



Process integration in Small and Medium Enterprises (SME:s). SME:s are normally less energy intensive than process industries but, nevertheless, energy and environmental aspects are of great concern and the economic gain of improving energy systems can be significant. Process integration methods developed for process industries, however, can normally not be used directly in SMEs. Methods for these types of industry are now being developed, which will be the focus of this Annex.

Industrial Heat Pumps. A joint Annex initiative with the HPP IA. An Annex proposal is now being worked out to define the scope and tasks.

Workshops will be arranged on these topics, watch the Upcoming Events section on the IETS website for further information. If you're interested in these topics and would like to know more, please contact the Secretariat Technical Support:

techsupport.iets@cit.chalmers.se

Upcoming Events

IETS Workshops 2009

Process integration in Small and Medium Enterprises, October 27-28, Bern Switzerland. To further develop this Annex, a workshop for experts will be arranged. Read more: <http://www.iea-iets.org/oslo/iea-iets.nsf/id/17FD433D0B5E041BC12575B6004815C9?OpenDocument>

Process Integration in the Iron and Steel Industry, fall 2009 in Luleå, Sweden.

Industry-based Biorefineries (Annex XI), fall 2009, Portugal.

Membranes as energy-efficient technologies for Separation of Hydrocarbons (Task 12.1)
fall 2009, place to be decided.

Next IETS ExCo meeting

The next IETS ExCo meeting will be organised in the USA during the November 10-11. Further details will be posted on the IETS website.

Visit www.iea-iets.org

IETS Member Countries



Brazil
Canada
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Denmark
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Sweden
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Chair is Dr. Thore Berntsson,
Sweden thore.berntsson@chalmers.se.

Contact details for the Country Representatives can be found on www.iea-iets.org.

Participation

«Energy technology innovation is occurring in an interconnected world in which national efforts no longer suffice.»

National energy R&D and demonstration programmes gain impact when incorporated into the larger context of international interdependence. Worldwide collaboration is needed to prepare any practical response to global environment issues. Membership in Implementing Agreements is open to governments and organisations designated by governments in both IEA Member and non-Member countries.

For questions, please contact the IETS Secretariat:

Information & Administration:

Sara Boije af Gennäs, sara.boije@kanenergi.se

phone: +46 708 78 11 99

Technical:

Per-Åke Franck, techsupport.iets@cit.chalmers.se

phone: +46 706 06 36 72