

IEA, IETS International Expert Workshop on Deep Decarbonization in Industry

Programme Committee

- Chris Bataille IDDRI, Paris and Simon Fraser University, Canada
- Rene Hofmann TU Wien / AIT, Austria
- Stefan Lechtenböhmer Wuppertal Institut, Germany
- Elvira Lutter Climate and Energy Fund, Austria
- Philippe Navarri Natural Resources Canada, Canada
- Andrea Ramirez Delft University of Technology, Netherland
- Thore Berntsson IEA/IETS Chair



Industrial Energy-Related Technologies and Systems

*A Technology Collaboration Programme
established under the auspices of the International
Energy Agency*

The IETS Technology Collaboration Programme (TCP)

The IETS is a TCP under the IEA, focusing on **energy efficient industrial technologies and systems**.

IETS was established in 2005 as the result of merging, revamping and extending activities formerly carried out by separate industrial IEA Programs.

IETS currently has 10 member countries:

Austria, Canada, Denmark, France, Germany, Italy the Netherlands, Norway, Portugal and Sweden.



The IETS Annexes

The core of the IETS activities is carried out in so called Annexes.

On-going:

- Annex XI – Industry-based Biorefineries
- Annex XIV – Energy efficiency in the iron and steel industry
- Annex XV – Industrial Excess Heat Recovery
- Annex XVI – Energy Efficiency in SME´s
- Annex XVII – Membrane Processes in Biorefineries
- Annex XVIII – Digitalization, Artificial Intelligence and Related Technologies for Energy Efficiency and GHG Emissions Reduction in Industry

Starting up:

- Annex XIX – Electrification in Industry

Finished:

- Annex IX – *Energy Efficient Separation Technologies Systems*
- Annex XII – *Membranes as Energy-Efficient Technologies for Separation of Hydrocarbons*
- Annex XIII – *Industrial Heat Pumps*

Contact

IETS Executive Committee Chair

Prof. Thore Berntsson (Chalmers), CIT Industriell Energi, Sweden
thore.berntsson@chalmersindustrietechnik.se

Vice Chair

Clemente Pedro Nunes, Instituto Superior Tecnico, Portugal
pedronunes@gml.pt

IETS Secretariat (Sweden)

Administration: Heléne Johansson, CIT Industriell Energi
helene.johansson@chalmersindustrietechnik.se

Technical support: Per-Åke Franck, CIT Industriell Energi
per-ake.franck@chalmersindustrietechnik.se

For IETS delegate contacts and more information, visit
<http://www.iea-industry.org>

Workshop on Deep Decarbonization in Industry



- IETS international expert workshop
- By invitation only
- Vienna 9-11 October
- Austria hosting the workshop
- 45-50 participants, including 25 speakers

Aims with the Workshop

- To give leading international experts in different disciplines the opportunity to meet
- To identify needs/opportunities to cooperate more closely
- To identify need for further work
- To distribute findings to industry, national authorities, etc

Sessions

- Session 1: Roadmaps
- Session 2: Technologies
- Session 3: Industrial Systems
- Session 4: Industry in a Circular Economy
- Session 5: Innovation, Business Models, Risk
- Session 6: Policy, Strategy, International Cooperation

A combination of many competence areas
necessary for deep decarbonization

Each session could have one workshop of its own

This workshop cannot go into detail in all
important aspects

Our aim is to arrange more workshops in specific
areas

Sessions and Group Discussions

- Session 1, Roadmaps, will be the base for discussions in subsequent sessions
- Sessions 2-6, totally 180 min
- 100 min presentations
- 40 min group discussions at 6 tables
- 20 min reporting session

The Group Discussions

- Six groups, coffee served at each table
- Questions for each session, same questions for all groups
- Mix of competences in each group
- For each session, one expert is appointed discussion leader and rapporteur
- Three groups report orally, the other groups comment

The Group Discussions, Cont.

- Each discussion leader/rapporteur reports in writing to the secretariat
- Results and findings from group discussions to be compiled and conclusions included in the final report
- With reports from six groups, a very good overview of most important aspects and need for further work should be achieved

Final Report

- Executive summary
- Introduction and background
- Results and findings from all sessions
- Conclusions and suggestions for further work internationally
- A compilation of all presentations