



iets

Industrial Energy-Related Technologies and Systems

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

*Views, findings and publications of the IETS TCP do not necessarily represent
the views or policies of the IEA Secretariat or its individual member countries.*

The IETS Technology Collaboration Programme (TCP)

iets

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, the Netherlands, Norway, Portugal, Sweden and the US.



For more information about IETS: <http://www.iea-industry.org/>

IETS Mission and strategic objectives

The IETS logo consists of the lowercase letters 'iets' in a bold, black, sans-serif font. The text is positioned on the right side of a thick yellow horizontal bar. A green brushstroke graphic is layered behind the yellow bar, extending from the right edge towards the center.

“To foster international co-operation among OECD and non-OECD countries for accelerated research and technology development of industrial energy-related technologies and systems”

- To strengthen international cooperation on energy saving and GHG mitigation in industry
- To include all industrial sectors and technologies/systems in the IETS area
- To facilitate cooperation between different industrial R&D disciplines
- To improve knowledge transfer and information between countries, researchers, and industries
- To develop international networks within an industry sector or within cross-cutting technology or system areas

The IETS Annexes

The IETS logo consists of the lowercase letters "iets" in a bold, black, sans-serif font. The letters are positioned on a yellow horizontal bar that spans across the top of the slide. To the right of the text, there is a green, brush-stroke-like graphic element that overlaps the yellow bar and extends slightly above and below it.

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*

Ideas and proposals for new Annexes or activities

iets

- Process Integration
- Control System for improved energy efficiency
- International expert workshop on deep decarbonization in industry
- Sponsoring conference on negative emissions in industry (discussed together with IEA, Bioenergy and IEA, GHG)

Workshops and Conferences - Examples

iets

- Joint workshop with IEA, Bioenergy on Industrial Biorefineries, Gothenburg, May 2017
- “The role of process integration for greenhouse gas mitigation in industry”, Expert Workshop in Berlin 2017
- Workshop in connection to the conference Industrial Processing, co-arranged with Dutch ISPT, June 2016 in The Hague.
- Several workshops in different Annexes
- Joint workshop on Industrial Carbon Capture and Storage, CCS, with IEA Greenhouse Gas (IEAGHG) TCP, Lisbon March 2015
- International Jubilee Process Integration Conference, Gothenburg March 2013
- Joint workshop on System Aspects of Biomass Based Gasification, with Bioenergy TCP, Task 33, Gothenburg November 2013



iets

IEA Industrial Energy-related Technologies and Systems

IETS Executive Committee Chair

Prof. Thore Berntsson (Chalmers), CIT Industriell Energi, Sweden

thore.berntsson@chalmers.se

Vice Chair

Clemente Pedro Nunes, Instituto Superior Tecnico, Portugal

pedronunes@gml.pt

IETS Secretariat (Sweden)

Administration: Heléne Johansson, CIT Industriell Energi

helene.johansson@cit.chalmers.se

Technical support: Per-Åke Franck, CIT Industriell Energi

per-ake.franck@cit.chalmers.se

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