



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.



IETS Mission and strategic objectives

“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 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

- 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

- 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

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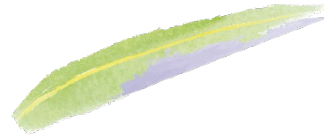
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About Technology Collaboration Programme

The Technology Collaboration Programme was created with a belief that the future of energy security and sustainability starts with global collaboration. The programme is made up of 6,000 experts across government, academia, and industry dedicated to advancing common research and the application of specific energy technologies.



The IETS TCP is part of a network of autonomous collaborative partnerships focused on a wide range of energy technologies known as Technology Collaboration Programmes or TCPs. The TCPs are organised under the auspices of the International Energy Agency (IEA), but the TCPs are functionally and legally autonomous. Views, findings and publications of the IET TCP do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.