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Industrial Energy-Related Technologies and Systems

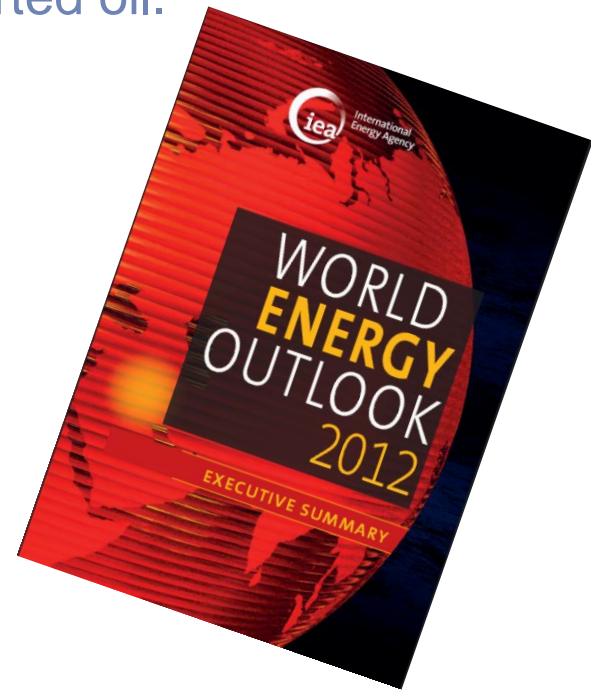
*An Implementing Agreement Established under the
Auspices of the International Energy Agency*

What is the IEA?

The International Energy Agency (IEA) was founded by the OECD (Organisation for Economic Co-operation and Development) countries in 1974 to reduce dependence on imported oil.

The shared goals of IEA members today are **energy security, economic growth and environmental protection.**

Energy technology innovation and widespread deployment of more economical and environmentally benign technologies are central parts of the IEA's work.



For more information about the IEA: <http://www.iea.org/>

What is an IEA Implementing Agreement?

IEA Implementing Agreements offer the **framework** for collaborative projects on energy research, development and demonstration.

Interested countries join together to study applications of existing technologies, research new technologies, coordinate national research programs, and share information.

There are 40 Implementing Agreements targeting different perspectives in areas of like Bioenergy, Transportation, Greenhouse gas, Wind- and Solar Energy, Nuclear technology, and much more



For more information about the IEA: <http://www.iea.org/>

The IETS Implementing Agreement

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Industrial Energy-Related Technologies and Systems

The IETS is an Implementing Agreement 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 9 member countries:

Belgium, Denmark, Germany, Korea, the Netherlands, Norway, Portugal, Sweden and USA.



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

IETS Mission and strategic objectives

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“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 facilitate cooperation between different industrial R&D disciplines
- To improve knowledge transfer and information between countries, researchers, and industries
- To provide IEA and the G8 countries with energy consumption data and energy efficiency opportunities

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

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 the width 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.

Current on-going Annexes include:

- Annex IX - *Energy Efficient Separation Technologies Systems*
- Annex XI - *Industry-based Biorefineries*
- Annex XIII - *Industrial Heat Pumps*
- Annex XIV - *Process integration in the iron and steel industry*
- Annex XV - *Industrial Excess Heat Recovery*
- Annex XVI - *Energy Efficiency in SME's*
- Annex XVII - *Membrane filtration for energy-efficient separation of lignocellulosic biomass components*

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

New initiatives



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New Activities:

Process Integration in Industry

LCA - Linking energy and environmental aspects

Industrial Excess Heat

Process control for the use of Energy Efficient Processes

Multiple Benefits of Energy Efficiency Measures in Industry

Motors and Motor Systems

CO2 capture and storage (CCS). Workshop in March hosted by Portugal.



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IEA Industrial Energy-related Technologies and Systems

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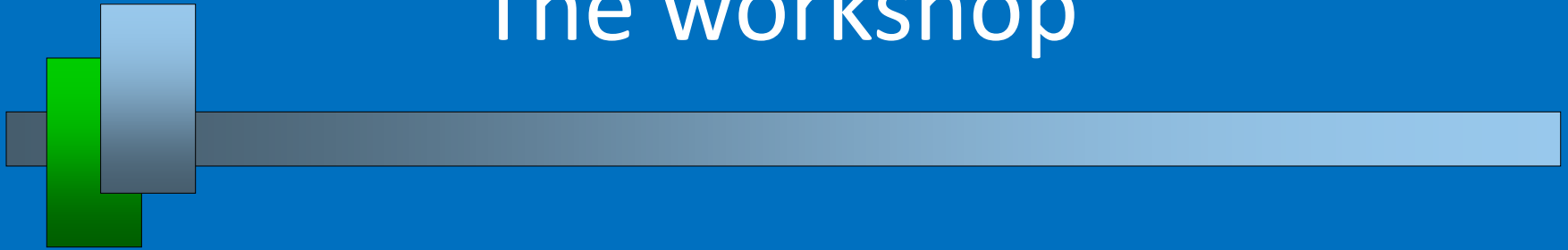


Workshop on CCS in Process Industries- State-of- the- Art and Future Opportunities

A Joint Workshop organized by IEA Greenhouse Gas R&D
Programme (IEAGHG) and IEA Industrial Energy-related
Technologies and Systems (IETS)

10th – 11th March, 2015

The workshop



- The workshop is aimed to provide a forum for the oil refining, chemical and petrochemical, and pulp and paper industries to exchange information and discuss different issues that could impact the development and future deployment of CCS in their respective sectors.

Objectives



To present an overview to the current state-of-the-art technology in industrial CCS

- To identify what short-term actions are needed to achieve the long-term goals of deploying CCS in these sectors,
- To discuss the technical and economic challenges in the future deployment of CCS to these industries, and
- To evaluate what RD&D is needed in the short to medium term to support the development of different policy instruments that could help reduce future investment risk in deploying industrial CCS.



Organising Committee

- Nils Rökke, SINTEF, *Norway*
- Filip Johnsson, Chalmers, *Sweden*
- Lily Gray, Shell Company
- Filomena Pinto, Ineg, *Portugal*
- Clemente Pedro Nunes, Instituto Superior Tecnico, *Portugal*
- Stanley Santos, IEAGHG, *co-chair*
- Thore Berntsson, IEA IETS, *chair*