



Industrial Energy-Related Technologies and Systems

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

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Technology Collaboration Programme

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Industrial Excess Heat Presentations

Introduction to Industrial Excess Heat Recovery, 5Min.

Rene Hofmann, Head of the Institute of Energy Systems and Thermodynamics
TU Wien, Austria

Methods for identification and quantification of excess heat, 25Min.

Donald Olsen, Senior Research Associate
Lucerne University of Applied Sciences and Arts, Switzerland

Practical experiences and efficient mapping of process heat energy in industry, 25Min.

Fridolin Müller Holm, Viegand Maagøe A/S, Denmark

Impact on excess heat opportunities of future changes in industrial energy systems, 25Min.

Elin Svensson, Senior researcher
Chalmers University of Technology, division of Energy Technology, Sweden

Industrial Excess Heat Presentations

Optimization Strategies for Industrial Excess Heat Recovery, 25Min.

Felix Birkelbach, Post.Doc researcher at the Institute of Energy Systems and Thermodynamics
TU Wien, Austria

Towards high temperature (>500°C) excess heat recovery in Steel Industry, 25Min.

Akshay Bansal, Energy Program Leader, Process Energy & CO2
ArcelorMittal Global R&D, Maizières-les-Metz, France

Panel Discussion, 30Min.

- The role of excess heat in industry and industrial symbiosis
- Strategic process integration/intensification for future changes in industrial energy systems
- Ongoing projects at different TRL levels and systematical knowledge transfer
- Different approaches

Background – Task XV Description

- ✓ The Task takes on a **multi-disciplinary approach to the concept of excess heat recovery** integrated in industrial complexes, aiming at the optimization of energy efficiency in global terms...
- ✓ The **approach is based on industry needs and application**, combining the knowledge of industrial technologies with energy efficiency and cost-effectiveness...





Related Topics

Combination of methods for excess heat identification & quantification

The aim of this subtask is to **create a network** between groups working on and/or being interested in **developing combinations of excess heat identification methods**.

Consequences for excess heat levels of future changes in industrial energy systems

In this subtask, **future changes** in industrial energy systems that could possibly **influence** the amount of **available excess heat** and its temperature levels will be investigated.

Operational aspects in industrial energy systems

New concepts (online, predictive and holistic) for industrial energy supply systems and **combining** existing optimization **approaches** for **unit commitment** and **heat exchanger network synthesis** to increase the efficiency of the overall systems



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