

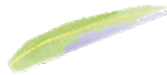
# Webinar on Process Integration for the Energy Transition in Industry

**Time:** 30 November 2020, 14.00-17.00 (CET)

**Venue:** Online

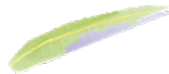
**Registration:** On 25 November at the latest, [using this web form](#)

This webinar is a joint effort between [the IETS TCP](#) and the [energy section of EFCE](#) (European Federation of Chemical Engineering). The main aims are to discuss the role of process integration for deep decarbonization and energy transition in industry and to identify needs for further international work.



Although process integration is considered a mature system approach, used in most industrial sectors globally, this powerful process design methodology will be of increasing importance for the radical structural changes in industrial energy and process systems, which are needed for radical energy efficiency measures, efficient implementation of novel technologies and systems and deep CO<sub>2</sub> emissions mitigation. The webinar targets a discussion on the role of process integration for the energy transition with four keynote speakers and with a discussion session around the following four topics.

- New methods for process integration in the context of energy transition towards low emissions, high share of renewables and novel technologies.
- Strategic planning of complex integrated industrial systems, taking industrial symbiosis, circular economy and future conditions into account with ex-ante based scenarios.
- The importance of digitalisation and databases for industrial energy system examples like the one developed in IETS Annex XV on industrial excess heat.
- Risks mitigation in the development and the operation of integrated industrial systems.



## Welcome!

Prof Thore Berntsson (CIT Industriell Energi, Chair of the IETS TCP), and  
Prof François Marechal (EPFL, Co-chair of the energy section of EFCE)

# Programme

## Introduction

Prof Thore Berntsson, Chair of Industrial Energy-Related Technologies and Systems (IETS TCP)  
Prof François Marechal, EPFL – Switzerland; Co-chair of the Energy section of EFC

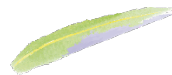
## Keynote speakers

**Prof François Marechal** (École Polytechnique Fédérale de Lausanne - EPFL, Switzerland)  
“ On the role of process integration in industrial symbiosis for the energy transition”

**Prof. Simon Harvey** (Chalmers University of Technology, Sweden): “Assessing the benefits of industrial symbiosis measures in a system perspective - Case studies from Sweden”

**Dr. Luciana Savulescu** (CanmetENERGY, Canada):  
“Process Integration for Effective Decarbonization and Eco-efficient Industrial Processes Development”

**Prof Liang Dong** (City university of Hong Kong)  
“Industrial metabolism and industrial symbiosis potential:Material & Energy Flows Analysis in a steel plant industrial complex”



## About the organizers

### European Federation of Chemical Engineering – EFCE

The goal of the energy section of the EFCE is to promote the role of chemical engineering for the energy transition. One of the key topics is the process integration dimension relating to efficient use of conversion of energy and to renewable energy resources integration in industrial systems.

### Industrial Energy-Related Technologies and Systems – IETS TCP

In the IETS TCP, all types of industry and energy-related technologies/systems can be included. The main aims are sharing of experiences, international networking and dissemination of results in these areas. An IETS TCP international expert workshop on process integration was held in 2017 to highlight the role of process integration in greenhouse gas mitigation in industry (available on the IETS TCP website).

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

