

## Invitation to Webinar

# #3 Digitalization and AI for Energy Efficiency

**Time:** 21 January 2026, 15:00 – 17:00 CET

**Place:** Online

**Moderator:** Heike Brugger, IREES GmbH

**Registration:** <https://events.teams.microsoft.com/event/9ccee4b-d9eb-437d-9b15-84ae6609836d@fd44d5d4-bbac-4ce4-b734-c9f595398cad>

The Industrial Transition Series is a new webinar format arranged by the IETS TCP (Industrial Energy-Related Technologies and Systems Technology Collaboration Programme). The webinar series focusses on the exchange of knowledge between the stakeholders of industrial transition: researchers, manufacturers and adopters of new energy technologies for industry. Research projects from the network of IETS TCP member states will be presented and discussed. The projects discussed range from applied research in the laboratory and pilot plant scale to demonstration plants in the industrial application environment.

The IETS TCP is part of a network of autonomous collaborative partnerships focussed 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). The IETS programme focusses on energy use in a broad range of industry sectors, uniting IEA activities in this area.

## PROGRAMME

### Introduction to the IETS TCP

Elin Svensson, IETS Secretariat

### Introduction to IETS Task XVIII on Digitalization, Artificial Intelligence and Related Technologies for Energy Efficiency and GHG Emissions Reduction in Industry

Mouloud Amazouz, Task Manager, CanmetENERGY, Natural Resources Canada

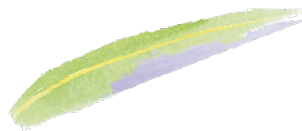
### Project presentations:

- **Foundation Models in the Energy Sector: Integration Potential and Challenges**  
Mehrza Lavassani, RISE Research Institutes of Sweden  
*Foundation Models (FMs) is a new class of Artificial Intelligence that learns general-purpose representations that create unique opportunities in various energy use cases and applications. This presentation provides an overview of a recent study on the assessment of FMs.*
- **KI4ETA**  
Heiko Ranzau, Etalytics, Germany  
*The goal of the KI4ETA project is to develop tools that help energy managers and consultancies close the energy efficiency gap in industry.*

- **Towards Autonomous Industrial Operations: Causal and Multi-Agent RL for Supervisory Control of Energy-Intensive Processes**  
Karim Nadim and Ahmed Ragab, CanmetENERGY, Natural Resources Canada
- **DECODE – Data-driven best practice for energy-efficient operation of industrial processes**  
Zhipeng Michael Ma, PhD, Postdoctoral Researcher, SDU Center for Energy Informatics, University of Southern Denmark  
[\*DECODE develops data-driven methods and digital tools to optimize industrial process operation, improving energy efficiency and reducing CO<sub>2</sub> emissions through advanced analytics, modelling, and decision support.\*](#)

**Q&A, discussion**

**Welcome!**



If you have any questions or comments about this webinar or the IETS TCP Seminar Series, please contact

**The IETS Webinar Series Committee:**

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***About the TCP on Industrial Energy-Related Technologies and Systems (IETS TCP)***

Founded in 2005, the IETS TCP is dealing with new industrial energy technologies and systems. Our mission is to foster international cooperation among OECD and non-OECD countries for accelerated research and technology development of industrial energy-related technologies and systems. In doing so, we seek to enhance knowledge and facilitate deployment of cost-effective new industrial technologies and system layouts that enable increased productivity and better product quality while improving energy efficiency and sustainability. Through our activities, we will increase awareness of technology and energy efficiency opportunities in industry, contribute to synergy between different systems and technologies, and enhance international cooperation related to sustainable development.

***Disclaimer***

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