

**ENERGY
FUTURE 2023
IN INDUSTRY**

The IETS TCP's International Conference

Energy Future in Industry

9–11 May 2023

Gothenburg, Sweden



Industrial
Energy-Related
Technologies
and Systems

iets

An IEA Technology Collaboration Programme

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Session on Digitalization and AI in Industry:

Advance knowledge and development of digitalization, artificial intelligence and related technologies to improve the economic and environmental performance of energy and GHG-intensive industries.



- **Digitalisation in industry, a journey beyond productivity and sustainability**
Mehrzad Lavassani, Senior Researcher/Project leader
Strategic Innovation Programme – Process Industrial IT and Automation (PiiA)
RISE – Research Institutes of Sweden



- **Digital twins as enablers for waste heat recovery with thermal energy storage**
Felix Birkelbach, post-doctoral research fellow at the Institute of Energy Systems and Thermodynamics of TU Wien, Austria

Session on Digitalization and AI in Industry:



- **Optimisation of energy production in a bio-refining process using artificial intelligence**

Philippe Mack, Founder & Advisor
PEPITe SA, Belgium



- **Panel discussion on Digitalization and AI for Industrial Decarbonization: Success stories, Barriers, lessons learned and outlook**

- List of panellists:

Mehrzad Lavassani, RISE, Sweden
Philippe Mack, Pepite, Belgium
René Hofmann, TUWien, Austria
Paul Stuart, Polytechnique Montreal, Canada