

CALL FOR
ABSTRACT

The Focus Group
"Low Carbon and Energy
Efficiency" of ESTEP
is pleased to announce
the webinar & workshop



WASTE HEAT

RECOVERY & UTILIZATION

FOR STEEL PLANTS

Overview, state of the art, market regulation,
and future developments

MAY 4, 11, 18
JUNE 1, 2021 &

DEADLINES

Submission of abstracts
Sponsor request
Information of abstract acceptance
Opening online registration

March 31, 2021
March 31, 2021
April 15, 2021
April 16, 2021



BACKGROUND

Waste heat recovery and utilization will become a cornerstone for future energy efficient steelmaking, especially since energy efficiency is key to further minimize carbon dioxide emissions and save primary resources.

Within a steel plant there are different waste heat sources available, for example but not limited to:

- Hot off-gases
- Cooling water
- Hot intermediate products like slabs, billets, etc.
- Hot slags

Currently most of these sources are not utilized for waste heat recovery. Besides the technical challenges of the waste heat recovery itself, waste heat utilization (e. g. electric power generation) and market regulations related to this topic have major impact on the feasibility of such projects.

Currently waste heat recovery systems are partially installed at some selected plants (already high TRL), but the majority of plants are not equipped with such solutions. Hence, a comprehensive work is necessary to improve this situation.

THE AIMS

The three-sessions webinar and one interactive workshop is dedicated to key players dealing with waste heat recovery and utilization in iron and steel industry, such as steel manufacturers, energy supply companies, solutions providers, academics, research institutes, policy makers.

The aims of the webinar and workshop are :

- Overview of waste heat potential (integrated and EAF route)
- Overview of existing waste heat recovery systems in steel plants
- Typical waste heat utilization possibilities as well as global application examples of already applied concepts (district heating, steam generation, electric power production, heat supply to other industries, etc.)
- Influence of current market regulations on waste heat recovery solutions
- Advanced options for waste heat recovery (e.g. from intermediate products, etc.) as well as heat storage
- Outlook on current developments & innovative technologies

SCIENTIFIC COMMITTEE

- Thomas Steinparzer (Primetals Technologies)
- Enzo Chiarullo (Tenova)
- Gerard Griffay (ArcelorMittal)
- Olivier Brégand (CRM)
- Agnieszka Morillon (FEhS)
- Mustapha Bsibsi (Tata Steel)

ORGANIZING COMMITTEE

- Thomas Steinparzer (Primetals Technologies)
- Enzo Chiarullo (Tenova)
- Delphine Snaet (ESTEP)

ABSTRACT SUBMISSION

Authors wishing to present a contribution are asked to prepare an abstract about 1,000 characters. Figures and references can be included (max abstract length 2 pages). Please submit the abstract to the ESTEP Secretariat by e-mail to: D.Snaet@estep.eu. In addition, please indicate the topic and the intention (or not) to submit a paper.

PARTICIPATION FEE

- Free for speaker in the related session
- 50 € per person for 1 session
- 150 € per person for all 4 sessions

Student fee (all 4 sessions)

- 60 € per student (only for first 30 registered students – further students can participate to the workshop paying the standard fee - the student status, e.g. bachelor, master and PhD, must be certified); a certificate of attendance will be released to all the students.

Company fees (all 4 sessions)

- 250 € for 2 persons
- 300 € for 3 persons
- 350 € for >3 persons (max 25)

Fee is used by ESTEP for workshop organization as well as generation and provision of the proceedings and related publications.

Workshop (session 4) participation is free for all people who participated in at least one webinar session.

SPONSORSHIP OPPORTUNITIES

Members of ESTEP interested in sponsoring the event (cost 1,000 €) are invited to contact the ESTEP Secretariat via e-mail: D.Snaet@estep.eu

TOPICS

1. Waste heat potential and recovery solutions

The topic is focused on the current situation as well as state of the art solutions for waste heat recovery. Contributions on all stages of the supply chain are expected including but not limited to:

- Overview on waste heat potential and opportunities;
- State-of-the art solutions;
- Best practice examples from steel plant operators.

2. Market regulations and advanced options

The topic mainly concerns integration of waste heat into external networks (e.g. sector coupling) as well as relevant market regulations and advanced options for waste heat recovery.

3. Outlook on future developments

An outlook on latest developments in waste heat recovery as well as a comprehensive view considering future transitions in iron and steel industry (enhanced EAF scrap route) is given.

4. Workshop

The final session will be an interactive workshop in which current solutions and developments shall be reflected on as well as discussion of missing factors for a wider application of waste heat recovery solutions. The target is to elaborate first draft of a roadmap in which requirements for technology developments are defined and recommendations for regulative changes are made.



Information and Contacts

For information and subscriptions, contact the ESTEP Secretariat, Mrs. Delphine Snaet - D.Snaet@estep.eu