

SAVE THE DATE



13-14 November 2019

Bergamo, Italy

The **ESTEP** Focus Group "**Circular Economy**" is proud to present the workshop:

## **Green steel by EAF route: a sustainable value chain in the EU Circular Economy scenario**

Workshop is focused on sharing experience/needs/best practices to be set-up for a more and more effective sustainability of the process to contribute at the next generation of green steel. Specific attention will be put on the entire value chain from low value scrap, to process decarbonization, to energy recovery up to valorisation of residues as products for internal & external use including substitution of coal with alternative materials.



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#### Introduction

Steel can be endlessly recycled and it is continuously transformed fitting with the concept of a “permanent material”. Consequently, a highly developed and mature steel recycling infrastructure – and associated business models and practices – has emerged over time. The EAF route is a fundamental and integrated part of this high-level recycling strategy.

Today, the steel community agree that any effort aimed at significantly reducing the GHGs emissions of the steelmaking process will have to integrate significant amounts of electrical energy generated by renewables. In this scenario, the contribution of the EAF route in the EU production mix is expected to play an important role (not less than 44% of production share by 2050). The transition from the BF-BOF route to EAF steelmaking is expected worldwide due to an improved and global sustainability of the electric cycle and to push the decarbonization of the steel industry towards a low carbon future

In addition, it must be considered that one potential margin for GHG reduction is offered by a steelmaking process based on the combination of DRP and EAF, where green hydrogen can play a significant role as a reducing agent, while the rest of the energy required will have to derive from renewable electricity.

We kindly invite you to participate in ESTEP WS and are looking forward to meeting you in the beautiful city of Bergamo!

#### Sponsorship opportunities

Companies interested in exhibiting and/or sponsoring the event may contact the ESTEP Organising Secretariat:

E-mail: [Delphine.Snaet@estep.eu](mailto:Delphine.Snaet@estep.eu)

#### Topic

Experts of steel companies and their suppliers, universities and research institutes, consulting companies, national and international steel and environment-related organisations are invited to submit abstract on the following topics:

- Scrap management (yard, optimization of charging recipes, etc.)
- Use of low value scrap (i.e “cleaning” of post-customer scrap, new technologies for “cleaning” liquid steel from tramp elements)
- Production of high value material from liquid steel (i.e. partial substitution of scrap with HBI/DRI for high-grade steel, metal powder production).
- Integration with renewable energy sources (i.e. EAF integration with solar power plant, smart grids, H<sub>2</sub>)
- Improved use of graphite electrode (i.e. new materials, hollowed electrode, advanced modelling).
- Valorisation of residues as products for internal & external use including substitution of coal with alternative materials
- New technologies for off-gas and waste heat valorization.
- Carbon to chemical solution for EA

#### Deadlines

Submission of abstracts June 15, 2019

Information on Acceptance July 15, 2019

Opening of the online registration October 15, 2019

#### Partecipation fee

Participation fee (200 €) will include visit to TenarisDalmine plant, workshop proceedings, common dinner /lunch and coffee breaks.

Payment instruction will follow with the detailed Program of the two days, the location address and the list of suggested accommodations