



# 7th European Steel Technology and Application Days - ESTAD 2025

## Wednesday 8 October 2025

### Direct Reduction & Alternative Ironmaking - Margherita I (14:00 - 16:00)

time	[id] title	presenter
14:00	[92] The impact of DRI ratio and quality on EAF operational and metallurgical performances	Ms PAPALIA, Katia
14:20	[171] ZHyRON project: Valorization of iron-rich & Zinc-containing steelmaking by-products via Hydrogen-based Reduction	FRAIKIN, Laurent
14:40	[267] Techno-Economic Assessment of H <sub>2</sub> -DRI and NG-DRI-CCS Processes for Low-Emission Iron Production	Ms GUAZZI, Sara
15:00	[268] Comparison of direct reduction by CO gas and carbonaceous materials	LU, Yu-Chiao
15:20	[363] Flexible pathways for green iron production	Mr LAPASIN, Marco
15:40	[468] Design of a sustainable iron ore smelting system using biochar-based direct reduction and CO <sub>2</sub> sequestration to lower steel's carbon footprint in Marcegaglia site at Ravenna port	Prof. MAPELLI, Carlo Dr DALL'OSTO, Gianluca

### Direct Reduction & Alternative Ironmaking - Margherita I (16:30 - 18:30)

time	[id] title	presenter
16:30	[383] Replacement of Conventional Gas Burners with Electrical Resistive Heating for Tundish processes: A Sustainable Approach within the CITADEL Project	GLASER, Björn
16:50	[163] Simulation-driven comparison and investment prioritization of gas-fired and electric radiant tubes in galvanizing furnaces.	Mr BERTOLI, Marco
17:10	[343] Advancements in Electrification and Decarbonization Technologies for High-Temperature Process Heating in Steel Manufacturing: The Role of Coolbrook's Rotodynamic Technology	Dr PAANANEN, Timo MAAKALA, Viljami
17:30	[230] Alternative Annealing Process for NGO Electrical Steels Using Hydrogen Combustion: A Comparative Study	MASSARELLI, Niccolo
17:50	[259] Bio-char production and usage for iron ore pelletization	CROCCO, Beatrice
18:10	[256] Industrial Implementation of PyroLIBS for Continuous Hot Metal Chemistry Measurement	SHAHRIARI, Bijan