



# 10th European Oxygen Steelmaking Conference - EOSC CTSI 2025

## Wednesday 21 May 2025

### CO2 mitigation in iron and steelmaking - Room 1 (09:10-10:30)

time	[id] title	presenter
09:10	[14] The potential of selective adjustments to the suction gas in iron ore sintering to reduce greenhouse gas emissions	Dr EISBACHER-LUBENSKY, Jan
09:30	[38] Reducing use of fossil carbon and fuels to decarbonize the electric steelmaking route: evaluation of the effects of biomass and hydrogen exploitation in the Electric Arc Furnace	Dr MATINO, Ismael
09:50	[45] CO2 reduction at Tata LD3 Using Tallman Technologies Focus Post Combustion Technology	Mr SINHA, Swarup
10:10	[77] Development of a fuel-flexible ladle preheating system	KAISER, Hannah

### CO2 mitigation in iron and steelmaking - Room 1 (11:00-12:40)

time	[id] title	presenter
11:00	[27] Reducing CO2 Emissions and Increasing Scrap Recycling in the Integrated Blast Furnace - Basic Oxygen Steelmaking	Dr JIPNANG, Elena
11:20	[68] The Revival of the KOBM Process	VORABERGER, Bernhard
11:40	[26] Investigation of the reoxidation and material behaviour of directly reduced pellets	TAFERNER, Bernd
12:00	[69] Decreasing Hot Metal Ratio with dual-flow post-combustion lance at ArcelorMittal Dunkerque	WAGNER, Damien
12:20	[58] Techno-Economic and Environmental Assessment of By-product Coke-Making Using non-recyclable Waste Plastics: A European Perspective	Mr AVILA, Mario

### CO2 mitigation in iron and steelmaking - Room 1 (14:20-15:40)

time	[id] title	presenter
14:20	[35] Application of hydrochar composite briquettes for sustainable slag foaming process in the electric arc furnace	Dr LU, Yu-Chiao
14:40	[40] Numerical Modeling of Hydrogen Electric Arcs for Optimizing Green Steel Production in EAF	AL NASSER, Mohamad KHARICHA, Abdellah
15:00	[65] Microstructural effect of Al <sub>2</sub> O <sub>3</sub> on the H <sub>2</sub> -based direct reduction of iron ore	Dr PATERER, Lena
15:20	[72] Study on the reduction of hematite by hydrogen-rich gas: multi-step Reaction kinetics and Characterization	Prof. CHEN, Bin