

7th European Steel Technology and Application Days - ESTAD 2025

Wednesday 8 October 2025

Energy Efficiency & Decarbonization - Auditorium Verdi (09:00 - 10:40)

-Conveners: Mauro Bianchi Ferri

| time | [id] title | presenter |
|-------|--|------------------------------|
| 09:00 | [434] Influence of Hydrogen-DRI on the EAF process | GRUBER, Georg |
| 09:20 | [252] Effects of H ₂ as energy source and biocarbon injection in EAF | Mr ORRE, Joel |
| 09:40 | [38] Experimental evaluation of a flexible natural gas and hydrogen burner in the electric arc furnace | SCHULTE, Lilly |
| 10:00 | [337] CDRI preheating system by off-gas heat recovery for charging into EAF | Mr MONFARED, ALI MOHAMMAD |
| 10:20 | [257] Efficiency of bio-carbon as slag reduction and slag foaming agent in EAF | SANDBERG, Erik |

Energy Efficiency & Decarbonization - Auditorium Verdi (11:10 - 12:10)

-Conveners: Klaus Krüger

| time | [id] title | presenter |
|-------|---|------------------------|
| 11:10 | [385] Simulating the use of renewable and alternative Carbon-bearing materials and hydrogen in the Electric Arc Furnace through a flowsheet model | Prof. COLLA, Valentina |
| 11:30 | [21] Electrification of High Temperature Heating Demand: A Techno-Economic Perspective on Decarbonized Steel Making | ONCINA MICO, Ana |
| 11:50 | [448] Pneumatic injection of carbon neutral sources in the EAF melting process: a comprehensive overview of the use of new materials | Mr IACUZZI, MASSIMO |