EEC 2026 - 14th European Electric Steelmaking Conference & amp; EMECR 2026 - 5th International Conference on Energy and Material Efficiency and CO2 Reduction in the Steel Industry



Monday 11 May 2026 - Wednesday 13 May 2026

Brixia Forum

Scientific Programme



EEC - Technological Advancements

EEC 1.A Innovations in electric arc furnace (EAF) technology

EEC 1.B Developments in ladle metallurgy and secondary refining

EEC 1.C Induction Furnaces

EEC 1.D High Temperature Resistance Furnaces

EEC 1.E Automation and digitalization in electric steelmaking

EEC 1.F Use of artificial intelligence (AI) and machine learning in process optimization

EEC - Process Optimization

EEC 2.A Energy efficiency and consumption reduction strategies

EEC 2.B Optimization of raw material usage, including scrap metal and direct reduced iron (DRI)

EEC 2.C Process control and quality improvement techniques

EEC 2.D Slag control

EEC 2.E Reduction of greenhouse gas emissions and environmental impact

EEC - Materials and Raw Materials

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EEC 3.A Sourcing and quality of scrap metal

EEC 3.B Use of alternative iron sources like DRI, HBI (Hot Briquetted Iron), and pig iron

EEC 3.C Alloying elements and their impact on steel properties

EEC 3.D Recycling and circular economy in steelmaking

EEC - Environmental and Sustainability Issues

EEC 4.A Carbon footprint reduction strategies.

EEC 4.B Integration of renewable energy sources in electric steelmaking

EEC 4.C Waste management and by-product utilization

EEC 4.D Life cycle assessment (LCA) of electric steelmaking processes

EEC 4.E Compliance with environmental regulations and standards

EEC 4.F Exploitation of slag and by-products

EEC - Case Studies and Best Practices

EEC 5.A Successful implementation of electric steelmaking technologies

EEC 5.B Lessons learned from operational challenges and solutions

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EEC 5.C Best practices in energy management and process optimization

EEC - Research and Development

EEC 6.A Ongoing research in electric steelmaking

EEC 6.B Collaboration between academia and industry

EEC 6.C Future directions and emerging technologies in the field

EEC - Safety and Workforce Development

EEC 7.A Safety protocols and risk management in electric steelmaking

EEC 7.B Training and skill development for the workforce

EEC 7.C Human factors and ergonomics in steel plant operations

EEC - Economic and Market Trends

EEC 8.A Global and regional market trends in electric steelmaking

EEC 8.B Cost analysis and economic viability of electric steelmaking

EEC 8.C Impact of trade policies and tariffs on the steel industry

EEC 8.D Future demand for electric steel products

EEC - Integration with Other Industries

EEC 9.A Synergies between electric steelmaking and other industries (e.g., automotive, construction)

EEC 9.B Collaborative efforts in research and development

EEC 9.C Cross-industry innovations and applications

EEC - Future Outlook

EEC 10.A Predictions for the future of electric steelmaking

EEC 10.B Potential disruptions and opportunities in the industry

EEC 10.C Long-term sustainability goals and strategies

EEC - Policy and Regulatory Framework

EEC 11.A Government policies supporting electric steelmaking

EEC 11.B International standards and certifications

EEC 11.C Impact of climate change policies on the steel industry

EMECR

EMECR 1. New and emergent ironmaking Technologies (hydrogen, biomass, electrolysis, etc.)

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EMECR 2. Major improvements in Blast Furnace ironmaking

EMECR 3. Emission avoidance, renewable gases and CO2 mitigation in steel industry

EMECR 4. Circularity and by-product management in steel industry

EMECR 5. Cleaner Production and Technologies in Steel Industry

EMECR 6. Carbon offsets

EMECR 7. Energy savings and energy efficiency optimization

EMECR 8. Water recirculation and usage

EMECR 9. Life Cycle Assessment

EMECR 10. Recent progress and new developments in CCS/CCU