

# Electric Arc Furnace Transition Delivery

Unique, integrated assets and capabilities that de-risk transition delivery, optimising production and supply chains, enhancing decarbonisation, and maximising financial returns.



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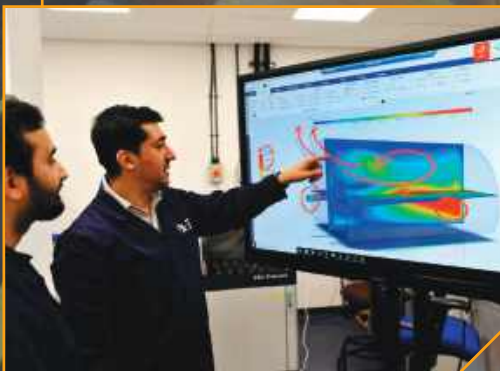
**Delivering significant value throughout the entire EAF plant project and operational life cycle using our differentiated customer offer:**

**UNIQUE PILOT SCALE PRODUCTION AND LABORATORY ASSETS**

- Seven tonne EAF demonstrator plant
- Slab and ingot casting
- Reheat furnaces
- Rolling mill
- Comprehensive range of testing and analytical assets, including cutting edge digital and scanning electron microscopy.

**UNDERPINNED BY WORLD CLASS SCIENTISTS AND ENGINEERS**

A diverse team of scientists and engineers with decades of commercial scale EAF operational and technical expertise.



## COMPREHENSIVE LIFE CYCLE ANALYSIS AND EVALUATION

### Project Feasibility

Evaluate plant design, technology options and technology provider assessment in order to optimise CAPEX and operational performance, and so de-risking overall project delivery and investment.

### Leading Capability in Steel Grade Development

Detailed material characterisation, with optimisation of chemistry, and system thermodynamics using cutting edge modelling and integrated AI capabilities.

### EAF and Auxiliary Equipment Optimisation

Minimise energy consumption, life cycle assessment, value in use, cleanness performance, digitisation, maintenance, refractory and operational safety performance.

### Decarbonisation Innovation

Explore opportunities to reduce carbon footprint and associated financial exposure including decarbonised heating, fuel conversion, routes to low carbon fuels and feedstocks including biochar and hydrogen reduced iron.

### Waste Stream Monetisation

Identify technologies delivering slag conversion into valuable carbon neutral composite materials.

### Expert Training

Provide by EAF specialists through plant installation, commissioning and operation.

### Supply Chain

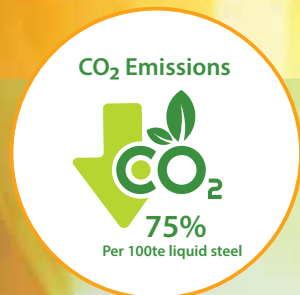
Provide commercial, operational and technical, assessment and qualification of input materials and supply chains, including rapid scrap analysis.

### Process Flow Optimisation

Including ladle fleet tracking and management.

### Troubleshooting

Supporting plant startup to steady state operation.





A man with short dark hair, wearing clear safety glasses and a blue lab coat over a white shirt, is looking directly at the camera. He is holding a complex mechanical device with his right hand, which is wearing a blue nitrile glove. The device has various metal components, wires, and a small white label. The background is a blurred laboratory setting. A large, faint blue graphic of a gear and circuit lines is overlaid on the left side of the image.

## Materials and Process Innovation for a Sustainable Future



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Green Steel Centre



EAF Links