

14 - 16  
MARCH  
CONFERENCE  
2027

VENUE  
NEWCASTLE  
CITY HALL

90 KING ST  
NEWCASTLE  
NSW - 2300  
AUSTRALIA

## NEW PATHWAYS TO SUSTAINABLE IRON AND STEELMAKING

With the global imperative to implement low-emission iron and steelmaking, the University of Newcastle is proud to host the third edition of this important international conference. Building on the success of the previous two events - which attracted strong attendance, high-quality international speakers and excellent feedback - NewIRON 2027 will again bring together academic and industry leaders to share insights and advance sustainable ironmaking, with particular relevance to Australian conditions.

Hosted by the BHP Centre for Sustainable Steelmaking Research (SSR) at the University of Newcastle, and drawing on Newcastle's long history of iron and steelmaking research, the conference aims to facilitate collaboration, identify future research opportunities, and explore the challenges and opportunities facing the steel industry as it transitions towards near-zero carbon emissions.

## CONFERENCE TOPICS



### LOW EMISSION IRON AND STEELMAKING TECHNOLOGIES

- Modified blast furnace
- DRI-ESF process route
- Direct reduced iron
- Emerging technologies



### RAW MATERIALS FOR LOW EMISSION IRONMAKING

- Raw material requirement for low-carbon blast furnace operations and DRI production
- Sintering, pelletising, briquetting
- Fundamental studies, kinetics of reduction, smelting, gasification, etc.



### DECARBONISATION PATHWAYS

- Auxiliary reductants
- Electrolysis processes
- Hydrogen and electricity utilisation
- Biomass utilisation and supply chain
- Regional Specific Developments



### SUSTAINABLE COKEMAKING

- New cokemaking technologies
- Impact of renewable additives on coke quality
- Stamp charging technology
- Coke quality requirements in low-carbon blast furnace



### PROCESS INTEGRATION AND OPTIMISATION

- Carbon capture and utilisation
- Utilisation of iron and steelmaking slags



**REGISTRATION** [www.sustainableironmaking.com.au](http://www.sustainableironmaking.com.au)



### CONTACTS

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