



INCITE

1st WORKSHOP ON INNOVATIVE TECHNIQUES IN THE IRON AND STEEL SECTOR

A fast-track gate towards a greener and more competitive sector

Draft Programme (19/03/2025, subject to changes)

13th to 15th May 2025 in the JRC Seville, Spain.

The workshop will be composed of several thematic sessions covering some of the most important technological developments in the IS sector that will need to be considered when starting the revision of the Iron and Steel BREF due in 2026.

Objectives of the workshop

- Exchange on the **state-of-play in terms of innovation in the IS sector** for e.g. depollution /decarbonisation / circular economy. In particular, deep-dive into innovative technologies with the aim to frontload information in preparation of the IS BREF revision (planned 2026).
- Provide a unique forum to industry / technology providers for **showcasing key innovative technologies** to be deployed for reaching zero pollution, climate neutrality, increased resource efficiency / circular economy in the IS sector during the industrial transition.
- **Discuss / debate among stakeholders** (e.g. industry, technology providers, financiers, permit writers of first-of-a-kind installations) on the degree of maturity, environmental performance, cost-effectiveness, cross-media effects/trade-offs, framework conditions, permitting, financing aspects of innovative techniques.
- **Mobilise stakeholders to actively engage with INCITE** and submit technical information on new technologies / processes / environmental performance.



DAY 1

WORKSHOP INTRODUCTION

Welcome of participants	Caroline Lambert Head of Unit - Circular Economy and Sustainable Industry- JRC B5	9:00 to 9:05
Workshop objectives / INCITE introduction	Eric Aries (TBC) Scientific Officer – JRC B5	9:05 to 9:30
Policy Context <ul style="list-style-type: none"> Revised IED Steel and Metals Action Plan 	Toon Smets Policy Officer, DG ENV C4 Joan Canton Head of Unit – Energy Intensive industries and raw material – DG GROW I1	9:30 to 10:00
Live demonstration of INCITE Platform	Nicolas Bellomo Scientific Officer – JRC B5	10:00 to 10:20
Status quo on the existing IS BREF	TBC Scientific Officer – JRC B5	10:20 to 10:35
EUROFER presentation: Activities of the EUROFER Transformation Working Group, pathways to decarbonisation / circularity	Danny Croon Jean Theo Ghenda EUROFER	10:35 to 10:50
Coffee Break		10:50 to 11:15
MS presentations (INCITE / National perspective on IS Sector advancement towards targets)	Sebastian Plickert UBA, Germany Matthis Persson EPA, Sweden	11:15 to 11:45
Environmental NGO presentation	Domien Vangenechten Programme Lead in Clean Economy - E3G	11:45 to 12:00
TECHNICAL INNOVATION IN THE IRON AND STEEL SECTOR – DECARBONISATION		
Scene setting. Decarbonisation challenges for the IS sector in the global context and added value of INCITE	Professor Lars J Nilsson Lund University	12:00 to 12:20
➤ PATHWAY 1 – Optimised BF Process / CCUS / Smart carbon usage		
EasyMelt / Blue blast furnace	Klaus-Peter Kinzel Vice President - Paul Würth	12:20 to 12:40
MHI / D-CRBN plasma project (ArcelorMittal - Ghent)	Wim Van Der Stricht CTO - ArcelorMittal	12:40 to 13:00
Lunch		13:00 to 14:00
Steelanol / Lanzatech	Wim Van Der Stricht CTO - ArcelorMittal and Sanjeev Manocha Global Director of Business Development - Lanzatech	14:00 to 14:20
Exchange of views on Pathway 1		14:20 to 15:20
➤ PATHWAY 2 – Direct smelting / reduction technologies		
HYFOR / Hy4SMELT	Alexander Fleischanderl CTO & Head of Green Steel - Primetals Technologies / Voestalpine / K1-MET	15:20 to 15:40
SUSTEEL	Thomas Buegler CEO Metallurgical Competence Centre – Voestalpine / K1-MET	15:40 to 16:00
Coffee Break		16:00 to 16:20
Exchange of views on pathway 2		16:20 to 17:20
Closure Day 1		17:20 to 17:30

Day 2

TECHNICAL INNOVATION IN THE IRON AND STEEL SECTOR - DECARBONISATION

➤ Pathway 3 – Direct reduction technologies

H₂-DRI – Melting – BOF steelmaking decarbonisation project in Duisburg

Florian Kremers

Head of DRI & BOF Plant – Thyssenkrupp

09:00 to 09:20

Joint HYBRIT – LKAB presentations

Part 1) The Hybrit pilot scale

Gunilla Hyllander

General Manager – Hybrit Development AG

09:20 to 09:50

Part 2: H₂-DRI/EAF steelmaking / full scale plant in Gallivare (SE)

Dan Hallberg

LKAB

POWER4STEEL

Michael Bott

Head of Decarbonisation – SHS

09:50 to 10:10

Exchange of views on pathway 3

10:10 to 11:10

Coffee break

11:10 to 11:30

➤ Pathway 4 – Electrification / H₂ integration in downstream processes

Electrification of energy intensive industries – the case of the steel industry

Marco Giuli

Project Manager – Agora Industry

11:30 to 11:50

New EAF project (Sestao, Spain)

Jordi Torné Darriba

CEO & General Manager, Gijon Long Products – ArcelorMittal Spain

11:50 to 12:10

Electrification of Ferrous Metal Processes and development of process heaters

Dilip Chandrasekaran

Global Business Development Manager – Kanthal

12:10 to 12:30

Lunch

12:30 to 13:30

Exchange of views on pathway 4

13:30 to 14:30

Pathway 5 – Electrolysis of iron ore

Molten Oxide electrolysis

Adam Rauwerdink

SVP Business Development
Boston Metal

14:30 to 14:50

Low temperature iron ore electrolysis – Volteron Project

Pedro Prendes

Global R&D Process Portfolio Manager – ArcelorMittal

14:50 to 15:10

Coffee Break

15:10 to 15:30

Exchange of views on pathway 5

15:30 to 16:30

Closure Day 2

16:30 to 16:35

Day 3

TECHNICAL INNOVATION IN THE IRON AND STEEL SECTOR - CIRCULARITY

Circular economy / industrial symbiosis technologies (e.g. with cement, chemical sectors)

➤ Technologies for better scrap characterisation / management

PURESCRAP	Peter Lundin (or Jonas Petersson) Group Manager - SWERIM	9:00 to 9:20
CAESAR	TBC CRM	9:20 to 9:40

➤ Technologies for by-products valorisation

GREENIRON	Edward Murray CEO - Greeniron	9:40 to 10:00
REMFRA	Silvia Tosato Environment Regional Director – Tenaris	10:00 to 10:20
DUST2Value	M. Leuchtenmüller Senior Researcher - University of Loeben	10:20 to 10:40
Cambridge Electric Cement	Cyrille Dunant CTO - Cambridge Electric Cement	10:40 to 11:00

Coffee break 11:00 to 11:20

➤ Carbon Capture and Utilisation

CALby2030	Malin Blomqvist Swerim	11:20 to 11:40
INITIATE	Eric Vandijk or Soledad Van Eijk (TBC) TNO	11:40 to 12:00

Exchange of views on circular economy / industrial symbiosis 12:00 to 13:00

Workshop conclusions

- Wrap-up / Summary
 - Review list of actions
 - Next steps
- 13:00 to 13:20

Workshop Closure TBC 13:20 to 13:30