INCITE: a new mechanism for promoting innovation in the the revised Industrial Emissions Directive



15.10.2024 | Paris
UNECE Workshop: Impacts of air
pollution and implementation of BATs

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Industrial Transformation and Emissions)

Overview





INCITE (Introduction / concept)

- 2 INC
 - **INCITE Information Platform**

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Stakeholder engagement

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Site visits to First-Of-A-Kind (FOAK) installations

5

INCITE other key outputs

The 'Sevilla Process' – Industrial Emissions Directive



Developing Environmental Norms for the European Industry for +25 years from Sevilla



experts

BAT Conclusions:

→ Environmental

Norms (4 years

implementation period)



INnovation Centre for Industrial Transformation and Emissions

INCITE is a **new** element of the revised Industrial Emissions Directive (IED) for **tackling industrial transformation**. It adds to the 'Sevilla Process' a **forward-looking mechanism**: a necessary evolution of the **Best Available Techniques** concept (what is after BAT?).

INCITE will promote innovation and accelerate the uptake of green innovative techniques:

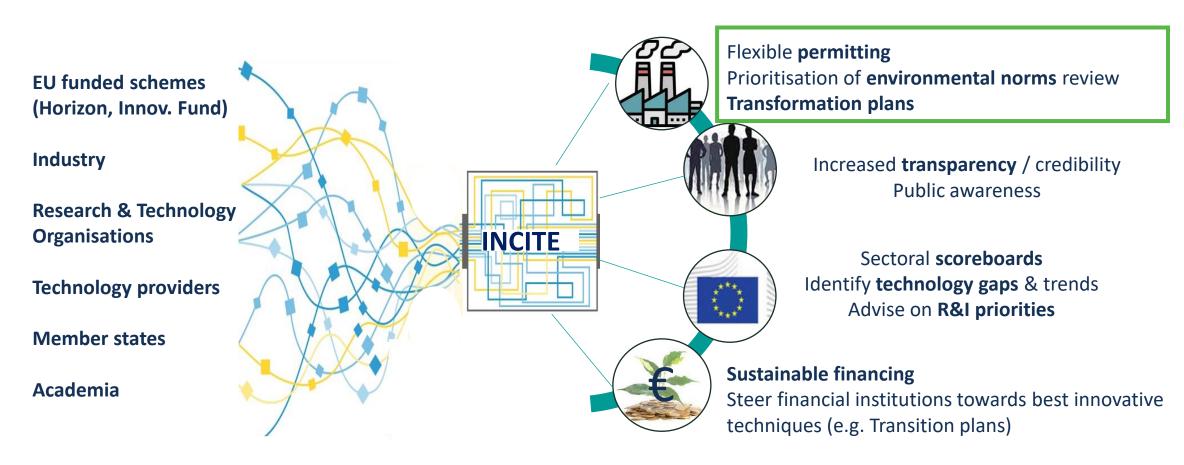
- Integrated approach: decarbonisation, resource efficiency, depollution & circular economy
- Initial focus on Energy Intensive Industries (EII), later expand to all IED sectors.





Objectives and potential

Become a central point of reference for identifying and analysing the environmental performance of innovative techniques in Europe and beyond, and informing policy developments and investments.



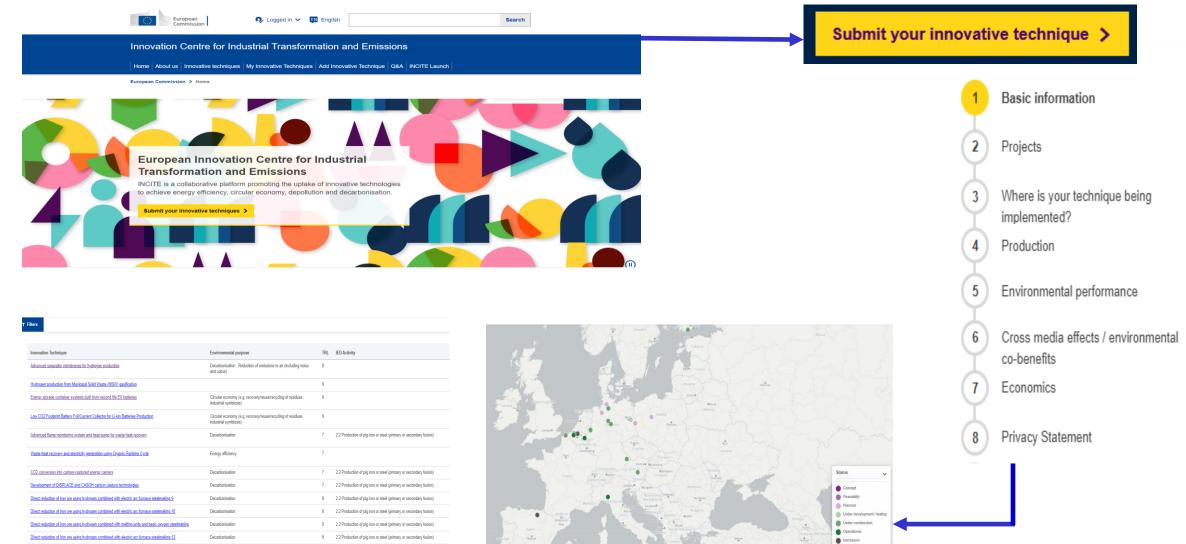
INCITE information platform

9 2 Production of pin iron or steel (primary or secondary fusion)

First release / Mid-October 2024

Direct reduction of iron ore using hydrogen combined with electric arc furnace steelmaking 13





Stakeholder engagement activities



Direct engagement with:

- Industry associations (e.g. EUROFER, CEMBUREAU, CEPI, European Aluminium)
- Technology providers
- Leader/coordinator of research projects (e.g. EU-funded projects such as Innovation Fund, Horizon Europe, Clean Steel Partnership, A.SPIRE, Processes4Planet, RFCS)









Sectoral workshops (Expected start – Q1 2025)

- **Hybrid meetings** involving industry (relevant EII associations), MS competent authorities, research and technology Organisations, environmental NGOs, relevant Commission DGs (e.g. ENV, RTD, GROW, ENER)
- Forum to show-case and exchange on the most promising technologies, pathways towards sustainability



Participation to conferences

- Carbon Zero 2024, Madrid, 10 October 2024
- Pollutec, Paris, 26-27 November 2024



Site-visits to FOAK installations



Objective

Organise site visits to key FOAK plants with plant operators, industry associations,
 MS competent authorities, Commission representatives to better understand technological advancements and potential barriers to implementation / permitting

Example: INCITE site visits to Sweden

(Iron and Steel Sector / 11 to 13 September 2024)

- Kanthal technology provider for electric heating furnace applications (Hallstahammar)
- Hybrit (SSAB/LKAB): hydrogen steelmaking using direct reduction of iron ore (DRI) – tested at a semi-industrial scale pilot plant located in Lulea
- Stegra (previously H₂ Greensteel), commissioning a new integrated steel works for production of green steel using H₂-DRI in Boden.





INCITEOther key outputs



Commission Implementing Decision (INCITE)

 Document outlining the operation and working procedures of INCITE. Expected 2026 (following consultation with stakeholders).

Annual INCITE report (first publication expected December 2025)

 Report summarising (e.g. per sector) the innovative techniques received and analysed by INCITE, recommendations for BREF prioritisation and techniques considered relevant for inclusion in the scope of a BREF revision.





INCITE – CONTACT US



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