

INCITE – The Innovation Centre for Industrial Transformation and Emissions

**Presentation on INCITE to SE Stakeholders
June 3rd**

Jose Gonzalez & Vanessa Ferreira
EU-BRITE – Joint Research Centre - Seville



Overview

1st PART

- 1 Introduction to INCITE
- 2 INCITE Activities & Main Milestones

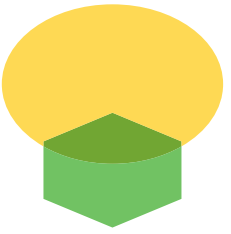
2nd PART

- 3 INCITE Platform
- 4 “Why” and “How” to engage with INCITE



INCITE

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.



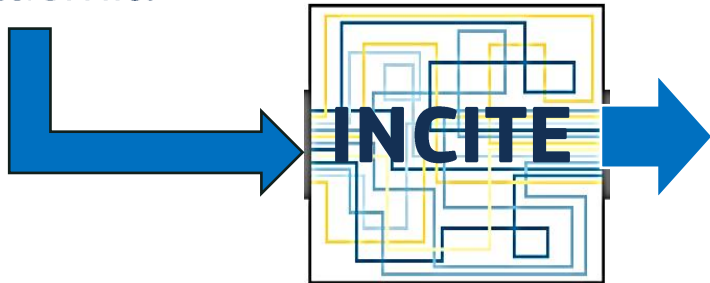
INCITE

Role and objectives



Stakeholders

Industry
Research & Technology
Organisations
Technology providers
Member states
Academia



Outputs / publications

- Information platform
- Annual technical report on innovative techniques

Beneficiaries / Outcomes

MS authorities / industry/ Env. NGOs

- ‘Sevilla Process’
- BREF Prioritisation



Policy-makers / analysts

- Identify technology gaps
- Advise on R&I priorities



Financial institutions / investors

- Steer financial support (public / private)



INCITE's findings will be designed to inform financial support and investment decisions of public authorities, the financial sector and private investors (Steel and Metal Action Plan, March 2025).

INCITE

Stakeholder Engagement Tools



➤ 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)
- **Member States** (Support INCITE for information exchange)



➤ Sectoral workshops

- Hybrid meetings involving industry experts and technology providers as well as the relevant industry associations, MS competent authorities, research and technology organizations, 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

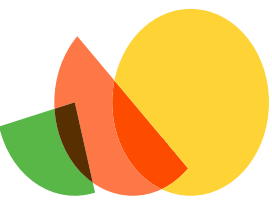


➤ Site Visits

- 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

INCITE

Main Milestones



- **June 2024** – INCITE launch event in Seville
- **September 2024:** Site visits to Sweden (Kanthal, Hybrit, Stegra)
- **October 2024:** Launch of the INCITE information platform
- **March 2025:** Site visits to Hamburg, Ghent and Dunkirk (Arcelor Mittal sites)
- **May 2025:** 1st sectoral workshop (Iron and steel / IS)
- **Sept 2025** (TBC): launch event with Chemical Sector + Site visits
- **October 2025:** 2nd sectoral workshop (Cement, lime and magnesium oxide production)
- **December 2025:** 1st INCITE report on innovative techniques
- **Y26:** INCITE Commission Implementing Decision



1st INCITE Workshop – Iron & Steel Sector



- May 13th to 15th @ JRC_Seville
- Over **280 participants** (77 in person, 200+ online) – **Key participation of SE representatives**
- **Detailed participation:** Industry (95), Technology Providers (23), EU Comms 6 Agencies (34), EU Member States (75), Other countries (7), Academia (11), RTO (20), Finance (4), NGO (7), International Organisations (3).
- **22 technical presentations** (5 Decarbonisation Pathways + Circular Economy & Industrial Symbiosis).
- **Bringing together for the 1st time all relevant stakeholders** to discuss the state-of-play in terms of innovation in the IS sector + **Exchange of info**



Overview

1st PART

1

Introduction to INCITE

2

INCITE Activities
& Main Milestones

END of 1st PART – BREAK

2nd PART

3

INCITE Platform

4

“Why” and “How” to engage with INCITE



INCITE Platform



 Log in  English

Innovation Centre for Industrial Transformation and Emissions

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European Innovation Centre for Industrial Transformation and Emissions

INCITE promotes the uptake of innovative technologies to achieve decarbonisation, depollution, increased resource efficiency and circular economy in large industrial plants.

INCITE website

- Publicly accessible
- Within the European Commission website

<https://innovation-centre-for-industrial-transformation.ec.europa.eu/>

INCITE Platform



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European Innovation Centre for Industrial Transformation and Emissions

INCITE promotes the uptake of innovative technologies to achieve decarbonisation, depollution, increased resource efficiency and circular economy in large industrial plants.

News (8)



Displaying 1 - 8 of 8



News | 26-05-2025

First INCITE sectoral workshop looks into innovative techniques in the Iron and Steel European industry

INCITE sectoral workshops will review and help to fast-track the uptake of innovative techniques



News | 13-05-2025

1st INCITE Workshop - Iron and Steel Sector 13th to 15th of May

The 1st INCITE sectoral workshop on Innovative Techniques dedicated to the



News | 11-04-2025

INCITE takes centre stage at the Basque Circular Summit in Bilbao!

The [Basque Circular Summit](#) is the largest



News | 07-03-2025

The INCITE Team conducts site visits to Iron and Steel demonstration and first-of-a-kind industrial installations in Europe

The Innovation Centre for Industrial Transformation and Emissions (INCITE) team c



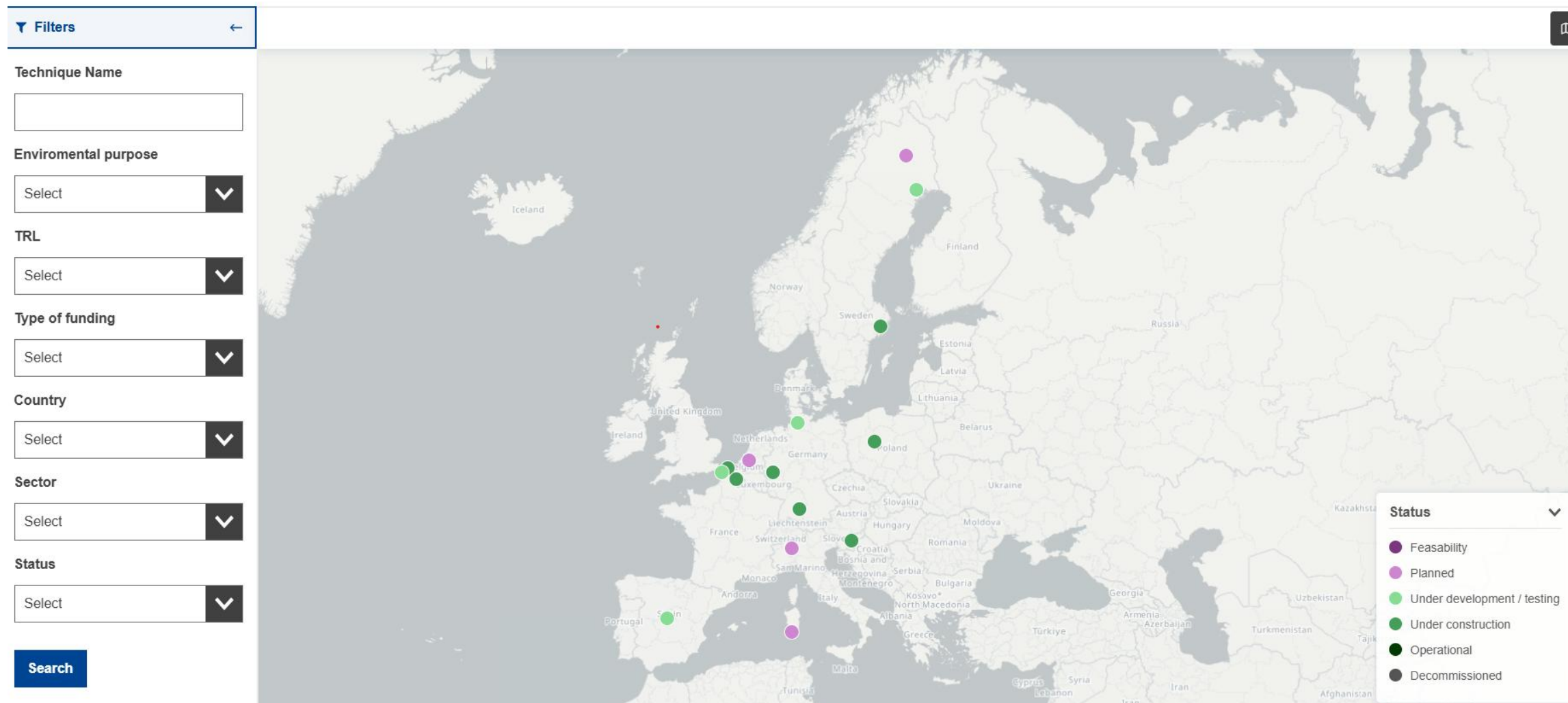
News | 29-11-2024

INCITE reaches POLLUTEC in Paris!

Between the 26th and the 27th of November, the INCITE Team had the pleasure to ac

INCITE Platform

Innovative techniques



Full-scale BECCS with hot potassium carbonate technology - IDENTIFIED BY INCITE

The Stockholm Exergi KVV8 facility is Europe's largest biomass-based Combined Heat and Power plant. By capturing the plant's biogenic carbon dioxide emissions and permanently storing it in the geosphere, the carbon flow is reversed, and a carbon sink is formed. CO₂ that was previously circulating between the atmosphere and trees will now be withdrawn from the atmosphere, directly contributing to cooling of the atmosphere.

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To accomplish this, the CO₂ in the flue gases of the bio-energy CHP must be captured. Based on careful assessment and previous experience of carbon capture, Stockholm Exergi has chosen to work with the well-proven Hot Potassium Carbonate technology.

The flue gas with the carbon dioxide meets a solvent liquid, which mostly consists of water and potassium carbonate. Potassium carbonate is a harmless ionic compound (salt) that is also used as a pH adjuster in food.

UNDER CONSTRUCTION

Expected TRL 8 

Date of development of the technique

Start date End date
1 July 2021 1 October 2026

Environmental purpose of the innovative technique

Decarbonisation Energy efficiency

Relevant industrial sector

Large combustion plants

IED activity

1.1 Combustion of fuels in installations with a total rated thermal input of 50 MW or more

Locations

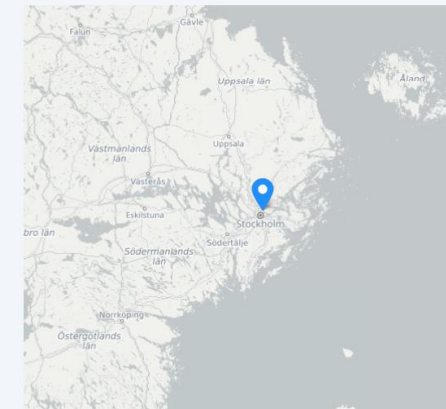
VÄRTAVERKET

E-PRTR (INSPIRE ID)

SE CAED/10014055 Facility

Commissioning expected date

 15 August 2026



Webtools • @ EC-GISCO • Leaflet | @ OpenStreetMap | Disclaimer

GHG Emission

CO₂

Percentage reduction of GHG emissions



Energy efficiency

Energy consumption reduction (%)



Add your Innovative techniques



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Next >

Or

If you do not wish to create an EU Login account, you can sign in by using one of the following third-party sign-in options ("Sign-in Service"). [Read more](#)



[Sign in with your eID](#)

Innovative techniques: Questionnaire

Add Innovative technique

[Save Draft](#)[Submit](#)**1**

Basic information

2

Project

3

Where is your technique being implemented?

4

Production

5

Environmental benefits

6

Cross-media effects

7

Economics

8

Privacy Statement

1.10 Relevant alternative technique *

A relevant alternative technique is a well-established technique, legal and accepted by end users, commercially available and fully implemented and tested full scale. Often, a relevant alternative will be a Best Available Technique (BAT), that are documented in the BAT reference documents.

1.11

Indicate

Feas

TRL levels are defined as in the Horizon Europe funding programme. TRL 6 = [Technology demonstrated in a relevant environment: development of a pilot-scale testing plant or unit (e.g. 1/100th of commercial scale) including engineering scale equivalents of all the operations that will be required at scale]. TRL 7 = [System prototype demonstration in an operational environment: successful demonstration of the continuous operation of the pilot plant/unit during a relevant timeframe]. TRL 8 = [System complete and qualified: demonstration plant is constructed (e.g. 1/10th of commercial scale) and operated in continuous mode, including working outside normal parameters]. TRL9= [Actual system proven in an operational environment: commercial plant/unit setup and running for full range of operating conditions]

1.12 Technology readiness level (TRL) *

Indicate the TRL on completion of the technique. In general, the innovative techniques relevant to INCITE are at least at a level of technology demonstrated in a relevant industrial environment (in the case of key enabling technologies) or system prototype demonstration in operation environment (with a minimum TRL of 6-7).

6-Technology demonstrated in relevant environme...



Innovative techniques: Questionnaire

Add Innovative technique

Save Draft

Submit

- 1 Basic information
- 2 Project
- 3 **Where is your technique being implemented?**
- 4 Production
- 5 Environmental benefits
- 6 Cross-media effects
- 7 Economics
- 8 Privacy Statement

Installation name *

Provide the installation name(s) (e.g. company name)

Address

Indicate the address of the industrial installation.

Country *

Indicate the country where the industrial installation is located.



Zip/Postal code

Latitude *

Please provide exact coordinates. Please enter the coordinates using a numerical notation (eg: 37.3953, -6.0108), i.e. not in degrees, minutes, seconds.



Longitude *

Please provide exact coordinates. Please enter the coordinates using a numerical notation (eg: 37.3953, -6.0108), i.e. not in degrees, minutes, seconds.



Innovative techniques: Questionnaire

Add Innovative technique

Save Draft

Submit

- 1 Basic information
- 2 Project
- 3 Where is your technique being implemented?
- 4 Production
- 5 Environmental benefits
- 6 Cross-media effects
- 7 Economics
- 8 Privacy Statement**

CBI Fields

By default, all the fields in this list will be displayed in the detail of your innovative technique. However, if you consider that some information is sensitive and you would like to maintain confidentiality, please select the sections of the questionnaire that would need to be considered as Confidential Business Information. Such information will not be published on the INCITE information platform (which only displays non-confidential information) and will only be available to the INCITE team.

- Any -

Search

☐ Select all (16)

☐ 1.5 Reference documents related to the innovative technique

☐ 2.1.7 Project Leader

☐ 2.1.8 Project coordinator

☐ 4.3 Production data

☐ 5.2.2 Energy consumption data

tion. You can download the full statement

perform an analysis of your submitted

Back

Innovative techniques: Questionnaire

[incite-information-platform-questionnaire-fields.pdf](#)



EUROPEAN COMMISSION
JOINT RESEARCH CENTRE
Directorate B – Fair and Sustainable Economy
Circular Economy and Sustainable Industry

INCITE information platform (Questionnaire fields)

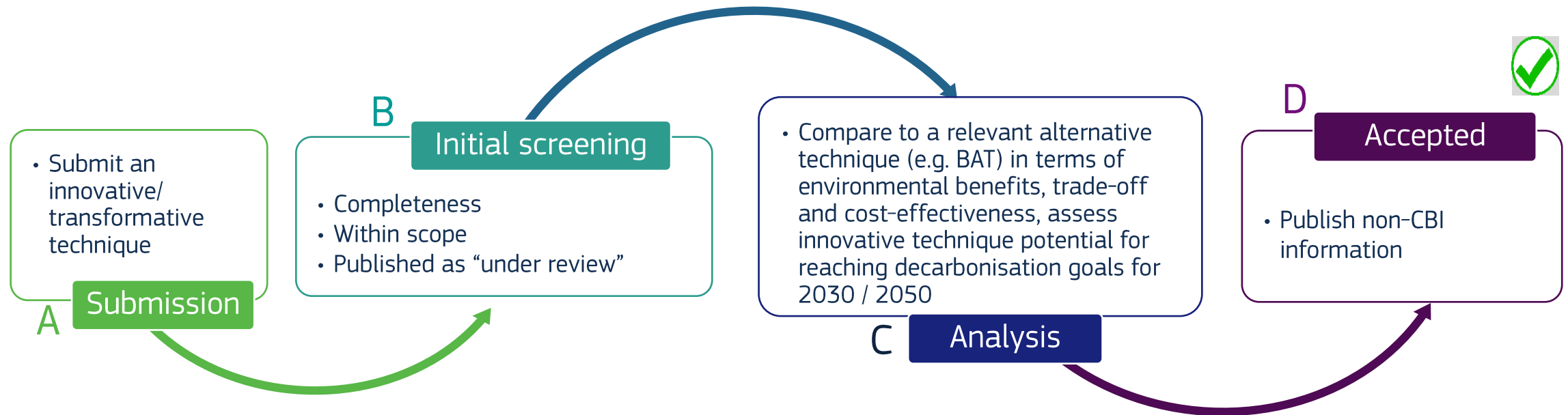
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INCITE Platform

Analysis of techniques submitted

What happens when a technique is submitted to the information platform?



INCITE

Why submit techniques to the platform?

- **Project specific Benefits** – Potential identification of a Technique as candidate (*) for...
 - **“Emerging Technique”** – special permitting considerations for facilities testing Emerging Techniques – up to 30 months derogation to meet BAT-AELs.
 - **“Deep Industrial Transformation”** – up to 8 years’ flexibility to comply with updated permit
 - **“Best Available Technique”** – become sectoral reference with competitive advantages and faster permitting

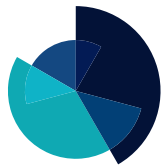
(*) *INCITE proposes candidate techniques to the BREF TWG. Final inclusion of a technique in the BREF is subject to TWG assessment and validation.*
- **Sectoral Benefits:** Contribute to sectoral assessment & scoreboards /potential to influence prioritisation of Environmental norms and funding mechanisms to bridge gaps / competitive advantages and faster permitting
- **Investors Benefits:** Provide confidence in the strategic allocation of investments
- **Safe and supported submission process:**
 - **Confidentiality of information** – Platform allows to select CBI not to be made public
 - **High Cybersecurity** – Platform has security level above EU standards (submitted info is encrypted)
 - **User-friendly questionnaires** – Simple fields to fill + Direct support of INCITE team!

INCITE

How can you contribute to INCITE?

- **Promote INCITE / Spread the News:** INCITE is a centre and mechanism of recent creation – Include INCITE mentions and presentations in ENV Events, Promotional Meetings, etc + refer to its potential and opportunities when talking to others
- **Participate on INCITE Activities:** Workshops, Site Visits, Engagement Meetings...
- **Make contact with INCITE:** let's know each other and discuss further how we could collaborate and benefit more each other.
- **Submit Information on Techniques to INCITE platform:** this is fundamental to base our assessments and conclusions on real cases and data.

**COUNT ON US. WE COUNT ON YOU
LET'S DO THIS JOURNEY TOGETHER**



Thank you for your attention



<https://innovation-centre-for-industrial-transformation.ec.europa.eu/>

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