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Clean Industrial Deal Cluster 4

Tarragona, 25 Febrero 2026

**Nieves González, Spanish Delegate
Cluster 4 INDUSTRY**

nieves.gonzalez@cdti.es

La política europea a partir de 2025: Competitividad



- Start-up and Scale-up Strategy
- 28th regime
- European Innovation Act
- European Research Area Act
- AI Factories Initiative, Apply AI, AI in Science, and Data Union Strategies

- EU Cloud and AI Development Act
- EU Quantum Strategy and a Quantum Act
- European Biotech Act and Bioeconomy Strategy
- Life Sciences Strategy
- Advanced Materials Act

- Space Act
- Review of the Control Guidelines
- Digital Network Act

- Clean Industrial Deal and an Action Plan on Affordable Energy
- Industrial Decarbonisation Accelerator Act
- Electrification Action Plan and European Grids Package
- New State Aid Framework
- Steel and metals action plan

- Chemicals industry package
- Strategic dialogue on the future of the European automotive industry and Industrial Action Plan
- Sustainable Transport Investment Plan
- European Port Strategy and Industrial Maritime Strategy

- High Speed Rail Plan
- Carbon Border Adjustment Mechanism Review
- Circular Economy Act
- Vision for Agriculture and Food
- Oceans Pact
- Amendment of the Climate Law

Clean Industrial Deal (CID)

73 líderes europeos de 20 sectores de la industria básica europea firman la Declaración de Amberes



20 febrero 2024

CID Communication 26 February 2025 **offer clear business incentives** to support the decarbonisation and competitiveness of European industry, at the same time.

It will help **creating lead markets to boost supply and demand in clean tech, accelerate the roll-out of clean energy & manufacturing, and reinforce a circular economy.**



Key figures

**Over
€100 billion**

will be mobilised by the Clean Industrial Deal to support EU-made clean manufacturing

€100 billion

projected value of the European remanufacturing market by 2030

**500,000
new jobs**

will be created

The Clean Industrial Deal is our business plan to **accelerate decarbonisation** and **competitiveness** for European industry - by boosting innovation and reinforcing our resilience.



Become **climate neutral** by
2050

The Clean Industrial Deal focuses on:



Energy-intensive industries

to safeguard competitiveness from high energy costs and unfair global competition



Clean-tech sector

to allow it to expand in the EU as it is a key enabler of competitiveness and decarbonisation

6 core business drivers:

- Affordable Energy
- Lead markets
- Circularity and Access to Materials
- Global Markets and International Partnerships
- Skills Enhancement
- Financing the transition

Energy-Intensive Industries (EIIs)

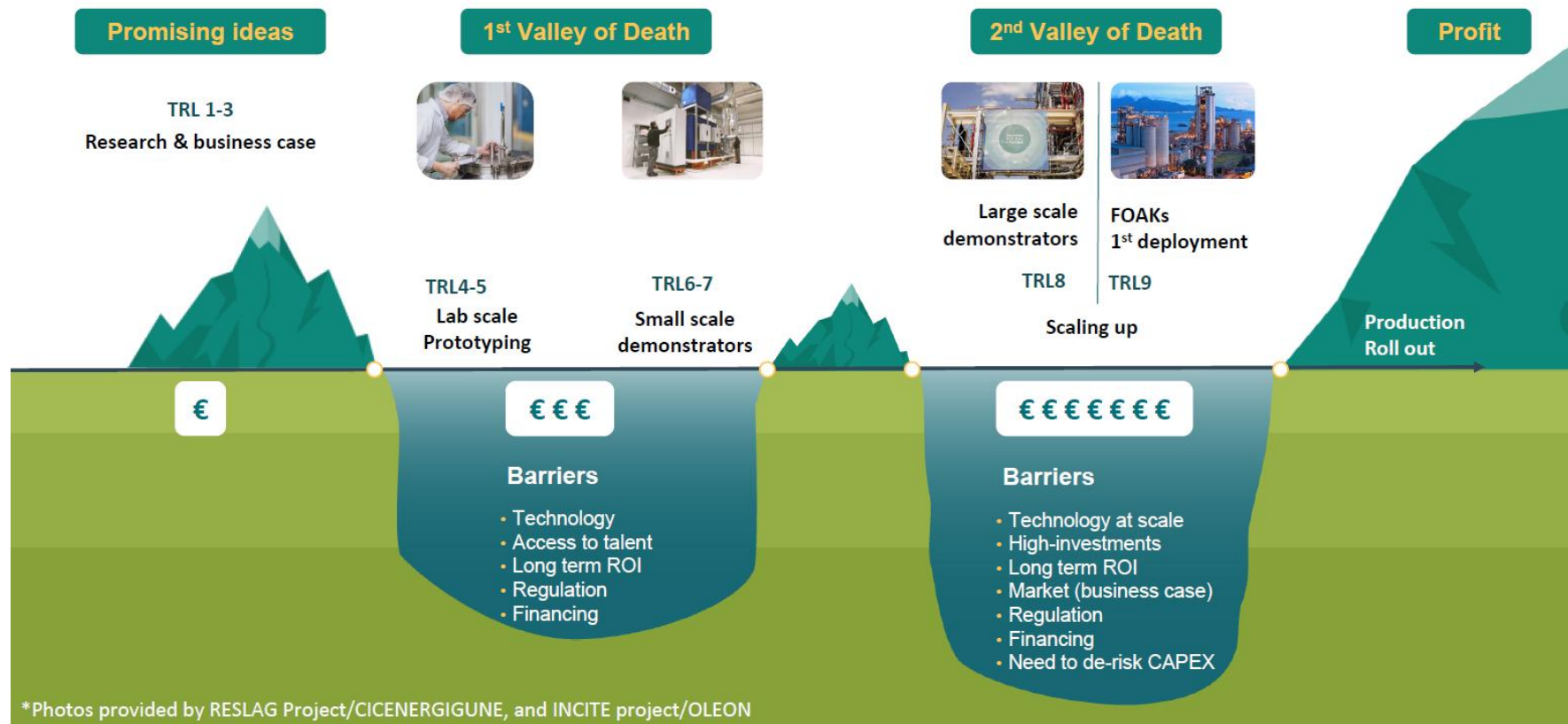
Se incluyen 10 sectores:

- Acero
- Químico
- Cemento
- Cerámica
- Refino de petróleo
- Papel
- Minerales
- Metales no ferrosos
- Ingeniería
- Agua



Long innovation process: 10 to 20 years...

... a number of promising technologies remain at TRL7 due to scaling up barriers.



*Photos provided by RESLAG Project/CICENERGIGUNE, and INCITE project/OLEON

EU demonstration projects in Spain



Junio 2023
TRL 6-8

Figure 6: Total number of demonstrators by location

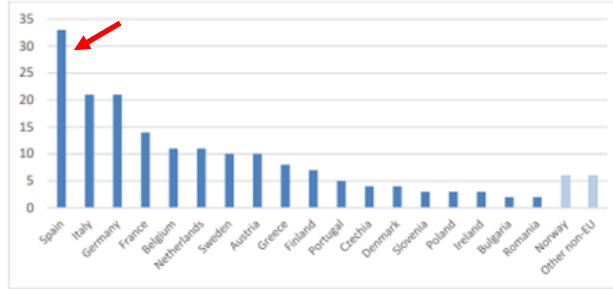
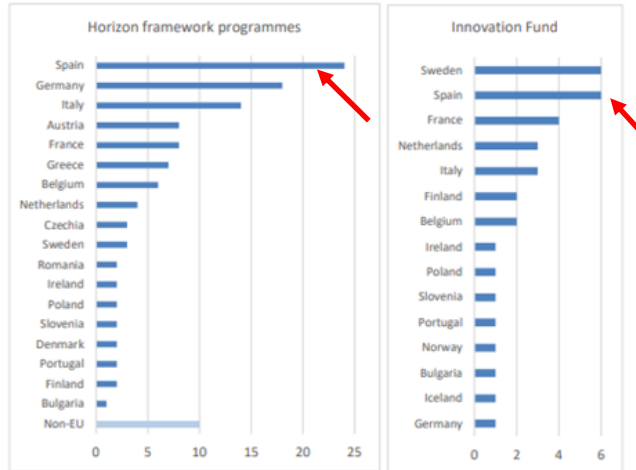


Figure 7: Number of demonstrators by location and funding programme



36 proyectos en España

Clean Industrial Deal flagship call – 2026-27

Financing



Not enough investments to support decarbonisation, electrification and competitiveness of the industry



- Increase the firepower of the Innovation Fund by more synergies between existing funding instruments – **R&I Flagship call under Horizon Europe**
- Leverage private investment by amending InvestEU
- Simplified State aid rules will give Member States more flexibility to support decarbonisation



→ The Clean Industrial Deal will leverage more than € 100 billion investments supporting the industrial transition



Convocatoria Clean Industrial Deal



*Research and Innovation (R&I) is a key enabler for promoting the next generation of clean tech, clean energy and decarbonised manufacturing in the EU. The Commission will launch a **flagship Horizon Europe call of ca. EUR 600 million** under the 2026-2027 work programme to support fit-for-deployment projects. This will aim at fostering synergies between the Framework Programme for R&I and the Innovation Fund, creating a pipeline of projects from R&I to deployment.*

- **HE flagship call:** Investigación e innovación en apoyo a los objetivos del Clean Industrial Deal (26/02/25)
- Presupuesto total 600M€ en WP2026-27
- Proyectos “industry-led”, fit-for-deployment” (TRL 7-8)



Work programme 2026-2027 – Part 14 Horizontal Activities

- https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2026-2027/wp-14-horizontal-activities_horizon-2026-2027_en.pdf

Horizontal call (between **Clusters 4 and 5**), with 2 topics (every year 2026 & 2027):

1. *Clean Technologies for Climate Action*

→ EUR 290 million across 2026 and 2027

2. *Decarbonisation of Energy-Intensive Industries*

→ EUR 250 million across 2026 and 2027

Call 2026
Opening: 18 Dec 2025
Deadline(s): 15 Sep 2026

Both topics are **Innovation Actions** targeting **fit-for-deployment solutions**

A complementary call of EUR 50 million in support of the Clean Industrial Deal is included in the **Research Fund for Coal and Steel**.

Principles & Features of the Call

Open Character

- **Applicants are free to decide** on the specific tech value chain they wish to strengthen through innovative competitive & decarbonization solutions

Focus on Industrial Competitiveness

- Demonstrate **industrial leadership** in view of the deployment after the project (i.e. put together a consortium composition that allows for effective collaboration between relevant stakeholders and future deployment).
- Set out a sound **business plan** and **market-readiness strategy** on how to prepare and support the deployment of the proposed tech solution within/across relevant EU industrial sectors.
- Think ahead in view of **Leveraging investments** for deployment

Value Chain & Cross-Sectorial Integration

- Ensure the development of technological solutions **across a specific tech value chain** (i.e. involving adequate combination of suppliers, users & relevant stakeholders).

Expected Outcomes

Innovation Action **TRL 7-8**

Presupuesto: **15-25 M€**

Proposals are expected to contribute to **all** the following expected outcomes:

- Accelerate the use of **innovative technologies to decarbonise industrial processes** and bring to the market more cost-effective clean products to strengthen the competitiveness, sustainability (including biodiversity), and resilience of EU industries;
- Create new innovative **first-of-a-kind operational demonstrators** and/or optimise newly installed industrial decarbonisation solutions in Europe;
- Demonstrate the **market readiness** of the envisaged future clean products and their innovative processes via a **credible business plan and an exploitation strategy** for industrialisation, including market-tested use cases.

Scope

The following three technology areas on energy intensive industries :

- 1) Managing of carbon cycle (CCU and/or CCUS)
- 2) Clean energy usage in production
- 3) Circularity and resource efficiency (material, energy, water) of production processes

Proposals should **explicitly select one main area** but can also address in an integrated way a combination of these three areas within an industrial sector.

The choice of the specific technologies addressed in the proposal is left to the project applicants who should include a **thorough justification of the choices** both in technological and business terms.

1) Managing of carbon cycle (CCU and/or CCUS)

Further optimization and demonstration of solutions for the capture, utilization or storage of CO₂ and/or CO from installations of the EIs.

- significant reduction of energy input (per ton of CO₂/CO) related to capture rate and purity compared to current available technologies (target figure 30% reduction)
- potential of commercialization of the decarbonized products with respect to LCA (soa), market size, and cost.

2) Clean energy usage in production

Electrification of the processes, decarbonated production, integration of alternative clean energy carriers – e.g. hydrogen – and technologies, on-site renewable energy storage solutions, usage and upgrade of waste heat)

Supporting major improvements of clean energy usage in the energy intensive industries until 2035.

3) Circularity and resource efficiency (material, energy, water) of production processes:

improvement by 30% until 2035 compared to current industrial value, with technological solutions which are commercially viable;

- significant reduction of the overall raw material consumption, energy input, freshwater intake, impact on ecosystems and emissions, through circular value networks that convert industrial side-streams and/or end-of-use waste to new feedstock for which no low-CO₂-technologies currently exist.
- Solutions must have an overall positive LCA and remain commercially viable under the expected regulatory and framework conditions at the end of the project.

* Use of advanced, and safe and sustainable materials and processes could be also addressed as part of the selected proposals.

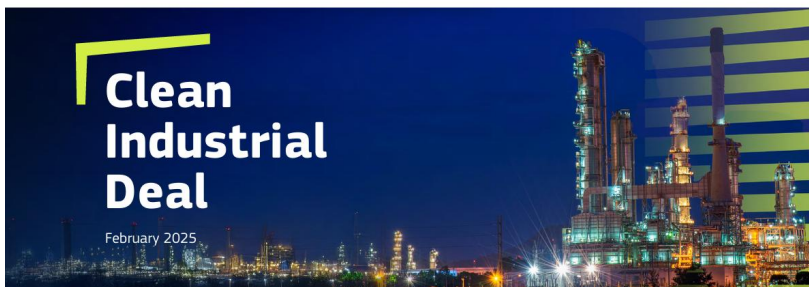
Proposals are expected to:

- Demonstrate an **adequate integration of relevant technological solutions** in support of the Clean Industrial Deal. The integration can either be demonstrated in a direct (e.g. reduction of greenhouse emissions of a process) or an indirect (e.g. production of a new green/clean product) manner.
- Show industrial leadership in the deployment after the project. To ensure market readiness and effective collaboration amongst relevant stakeholders, **the consortium should be industry driven** and composed of a preferably **small and manageable number of participants** and its size should be justified. The participation of SMEs is encouraged.

R&I in Support of the Clean Industrial Deal: Decarbonisation of Energy Intensive Industries

- The draft dissemination, exploitation and communication plan is expected to include a sound and **convincing business plan and market-readiness strategy**:
 - how to prepare and support the deployment of the proposed tech solution across relevant EU industrial sectors
 - how to ensure a high potential for market uptake through further private/public investment (including relevant EU deployment programmes, such as the Innovation Fund).
- They should include a comprehensive **analysis of the critical barriers** (technological and non-technological) for the successful market deployment and the corresponding plan to tackle them before 2030.
- Proposals are expected to include a clear **go/no-go moment** ahead of the contracting and demonstration phase. Before this go/no-go moment, the proposal is expected to deliver detailed engineering plans, a techno-economic assessment, all needed permits for the demonstrator, a complete business plan and market-readiness strategy, **identifying clearly the industrial partner(s) that will lead the deployment**.
- Proposals are also expected to provide a clear and credible pathway to obtaining all needed permits for the demonstration phase of the project.

Convocatoria Clean Industrial Deal



https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2026-2027/wp-14-horizontal-activities_horizon-2026-2027_en.pdf



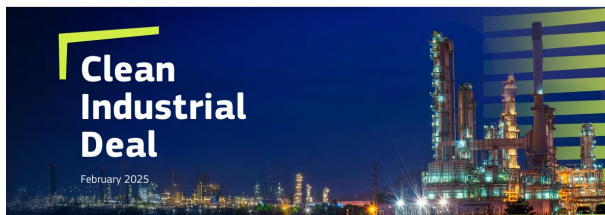
HORIZON-CID-2026-01 : 275 M€
HORIZON-CID-2027-01: 265 M€
TOTAL CID CALL 530 M€



Convocatoria Clean Industrial Deal
Anexo 14. Actividades Horizontales
HORIZON-CID-~~2026~~-01-01: 125 M€
18 diciembre-**15 septiembre 2026**

Convocatoria Clean Industrial Deal
Anexo 14. Actividades Horizontales
HORIZON-CID-~~2027~~-01-01: 125 M€
12 enero-**15 septiembre 2027**

Convocatoria CID: últimas recomendaciones



- Justificación de los TRLs (7-8)
- Importancia del Business Case – Ampliación a 60 páginas
- Cálculo de GHG: metodología del Innovation Fund
- Conocer hojas de ruta de los partenariados *Processes4Planet* y *Clean Steel*
- FAQs en el Funding & Tenders Portal

Otras oportunidades en 2026-27: Cluster 4- Industria



**Plan Estratégico
2025-2027**

Twin Transition



Resilience



Horizonte Europa en cifras

Presupuesto Horizonte Europa: lo que sabemos, 95.517 MEUR

PILAR 1 – CIENCIA EXCELENTE	25.011	PILAR 2 - RETOS MUNDIALES Y COMPETITIVIDAD INDUSTRIAL EUROPEA	53.516	PILAR 3 – INNOVACIÓN ABIERTA	13.597
ERC - Consejo Europeo de Investigación	16.004	Clúster 1 - Salud	8.246	EIC- Consejo Europeo de Innovación	10.105
MSCA - Acciones Marie Skłodowska-Curie	6.602	Clúster 2 - Cultura, creatividad y sociedad inclusiva	2.280	Ecosistemas de innovación europea	527
Infraestructuras de investigación	2.406	Clúster 3 - Seguridad	1.596	EIT - Instituto Europeo de Innovación y Tecnología	2.965
		Clúster 4 - Digital, industria y espacio	15.349		
		Clúster 5 - Clima, energía y movilidad	15.123		
		Clúster 6 - Alimentación, bioec. recursos naturales, agricultura y MA	8.952		
		JRC – Centro Común de Investigación	1.970		

Ampliar la Participación y Fortalecer el Espacio Europeo de Investigación	3.393
Ampliar la participación y difundir la excelencia	2.955
Reformar y mejorar el sistema europeo de la I+i	438

Incl 5.000 M€ Next Generation EU

Incl 4.000 M€ (acuerdo político MFP)

Clúster 4 –2026-27 5 Destinations

1



Leadership in materials in production for Europe

MAT-PROD

2



Developing an agile and secure single market and infrastructure for **data-services and trustworthy artificial intelligence services**

3



Achieving open strategic autonomy in **digital and emerging enabling technologies**

4



Open strategic autonomy in developing, deploying and using global **space-based** infrastructures, services, applications and data

5



Digital and industrial technologies driving **human-centric innovation**

Horizon Europe Partnerships: Processes for Planet

- Horizon Europe coprogrammed partnership
- Industrial association SPIRE



- Objective: “Transforming the European **energy intensive process industries** to make them **circular** and achieve overall **climate neutrality** at EU level by 2050, while enhancing their competitiveness.”

- Multisectorial approach: 10 sectors



- Budget of 2.6b EUR (1.3b EUR from Horizon Europe, 1.3 bn EUR from private side)

Horizon Europe Partnerships: Clean Steel

- Horizon Europe coprogrammed partnership
- Objective:



*Develop technologies at TRL8 to reduce CO2 emissions stemming from EU **steel production** by 80-95% compared to 1990 levels.*

- Private side: STEP (EU Steel Technology Platform)
- Budget 1.7 bn EUR (350m€ **HE** + 350m€ **RFCS** +1 bn€ private)

Otras oportunidades para las EIs

TOPIC	TITLE		BUDGET (M€)
Disruptive technologies for carbon capture and clean energy use			
HORIZON-CL4-2026-01-MAT-PROD-31	Efficient capture / purification / utilisation of CO2 for the production of competitive products (P4P)	RIA	43,8
HORIZON-CL4- 2027 -02-MAT-PROD-32-two-stage	Efficient energy input from renewable sources and energy management in the process industries (P4P + IAM4EU)	IA	52,50
Fast-tracking Circularity			
HORIZON-CL4-2026-01-MAT-PROD-04	Optimise the usage of resources in a circular economy (P4P + CS)	RIA	64
Digital and emerging enabling technologies			
HORIZON-CL4-2026-02-DIGITAL-EMERGING-53-two-stage	Innovative AI methods and technologies for the process industries (P4P + ADRA)	RIA	30

Otras oportunidades para química y materiales

TOPIC	TITLE		BUDGET (M€)
Sustainable Advanced Materials, Raw Materials and Chemicals			
HORIZON-CL4-2026-02-MAT-PROD-21-two-stage	Development of safe and sustainable alternatives to substances of concern	IA	38
HORIZON-CL4-2027-02-MAT-PROD-22	Innovative advanced materials and new production processes – reducing dependencies on Critical and Strategic Raw Materials (P4P IAM4EU)	IA	36
HORIZON-CL4-2026-01-MAT-PROD-23	Accelerating the discovery and development of chemicals and innovative advanced materials through digitalisation and artificial intelligence (IAM4EU)	IA	50
Fast track Circularity			
HORIZON-CL4-2026-01-MAT-PROD-05	Circular innovative advanced materials: facilitating the transition from design to markets (IAM4UE+MiE)	RIA	37
HORIZON-CL4-2027-01-MAT-PROD-06			36

... Y más Oportunidades !

TOPIC	TITLE		BUDGET (M€)
HORIZON-CL4-2026-01-MAT-PROD-48 HORIZON-CL4-2027-01-MAT-PROD-49	'Proof of market' to improve valorisation and commercialisation of Horizon generated R&I results	IA	5
HORIZON-CL4-2027-01-MAT-PROD-61	Fast Track to Research and Innovation for breakthroughs in industrial technologies	RIA	20
HORIZON-CL4-2027-01-MAT-PROD-62	Fast Track to Innovation for breakthroughs in the Chemical Industry Action Plan	RIA	15
Raw Materials			
HORIZON-CL4-2026-01-MAT-PROD-14	Improving availability of secondary raw materials through recycling	IA	28
HORIZON-CL4-2027-01-MAT-PROD-16	Technologies for innovative processing of raw materials (IA)	IA	49

Convocatorias 2026 y 2027



ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2026-2027/wp-7-digital-industry-and-space_horizon-2026-2027_en.pdf



HORIZON-CL4- 2026 -01:	320 M€
HORIZON-CL4- 2026 -02-two-stage	98 M€
HORIZON-CL4- 2027 -01:	224 M€
HORIZON-CL4- 2027 -02-two-stage	82 M€
TOTAL CL4-INDUSTRIA	418 M€



2026: 6 enero – **21 abril** 2026
16 diciembre- **17 marzo** (Fase 1)
13 octubre (Fase 2)

2027: 22 septiembre – **2 febrero** 2027
22 septiembre – **2 febrero** (Fase 1)
2 septiembre (Fase 2)

Para estar a la última...



Horizonte Europa Industria

- European Commission Industry 5.0 Award**
30 de Enero de 2022
- Recordatorio convocatoria abierta en Clúster 4 Industria**
07 de Octubre de 2021
- Consulta sobre tecnologías industriales bajas en carbono**
07 de Septiembre de 2021
- Participación encuesta EUSurvey "Manufacturing Our Future"**
06 de Septiembre de 2021
- Publicadas las sesiones del Info day de la Comisión Europea para el Clúster 4 "Industria" de los días 29 y 30 de junio 2021**
- Jornada Horizonte Europa Clúster 5 "Energía" y Clúster 4 "Industria" con la Plataforma Tecnológica de CO2**
23 de Julio de 2021



nieves.gonzalez@cdti.es

carlos.toledo@cdti.es

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+ info sobre programas y ayudas
para la
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