













MISSION AND VISION STATEMENT

The Clean Steel Partnership (CSP) is aligned with the EU's goal and policies to achieve climate neutrality by 2050 – the European Green Deal, the Clean Planet for All strategy and the Paris Agreement. It will thus contribute to fighting climate change and moving towards climate neutrality by 2050.

CSP will develop lean CO₂ technologies, and test these at large scales until 2030. These technologies are required to reduce CO₂ from EU steel production by 80-95% compared to 1990 levels, ultimately leading to climate neutrality.

CSP will ensure a coordinated, sustainable approach across stakeholders, technologies, production routes and countries.

CSP nurtures the long-term vision of supporting the European leadership in the transformation of the steel industry into a climate neutral sector while preserving the competitiveness and viability of the EU steel industry making sure that EU production will be able to meet the growing demand for steel products.

KEY FACTS AND FIGURES

Horizon Europe Pillar and Cluster: Pillar II – Cluster 4: Digital, industry and space

Type of partnership: Co-programmed

Coordinating entity: European Steel Technology Platform (ESTEP)

Total estimated budget: EUR 1.7 bn

EUR 700 m

Partners' commitments: Up to EUR 1 bn

Predecessor under Horizon 2020: The Clean Steel Partnership is a new partnership

FIND OUT MORE

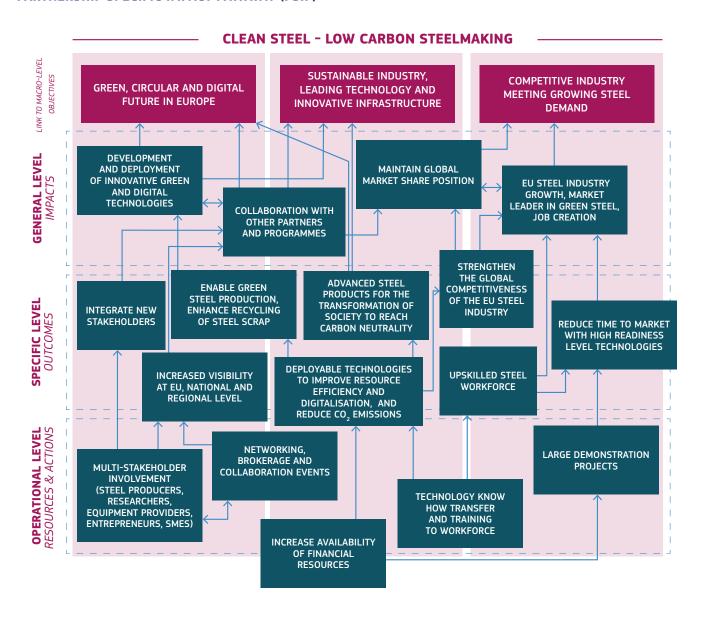
https://www.estep.eu/

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PARTNERSHIP SPECIFIC IMPACT PATHWAY (PSIP)





PARTNERSHIP'S KEY PERFORMANCE INDICATORS

KPI NAME	UNIT OF MEASUREMENT	BASELINE	TARGET 2023	TARGET 2025	TARGET 2027	AMBITION >2027
RESOURCES (INPUT), PROCESSES AND ACTIVITIES						
Steel industry involvement – financial	% of project budget to steel producers (average)	new	>50%	>50%	>50%	N/A
Steel industry involvement – inclusiveness	% of CO ₂ represented by CSP project partners ¹	new	>50%	>60 %	>85 %	>95 %
R&D collaboration science-EU steel companies	# external research stays funded by the Partnership	new	N/A	>5 in 4 technology fields	N/A	>10 in 3 technology fields
Joint calls with other partnerships	# joint calls	new	N/A	Min 2	N/A	Min 5
OUTCOMES						
Energy use per tonne	%	TBD	N/A	-5% at TRL7	N/A	-10% at TRL8
CO ₂ capture for CCU/ CCS	% capture rate	TBD	N/A	90% at TRL 6	N/A	95 % at TRL 8
Scrap recycling	% low quality scrap input share	TBD	N/A	+25 % at TRL 6	N/A	+50 % at TRL8
Breakthrough in technology building blocks	% projects TRL7	TBD	N/A	Min. 50 %	N/A	Min. 85 % (Min. 75 % TRL8)
Upskilled labour force	# dedicated programmes	0	N/A	Min. 1	N/A	Min. 3
		IMPACT	S			
EU market share clean steel products	% of clean steel out of total EU steel demand	N/A	N/A	Acceptance of definition of clean steel and its products	TBD	Start of roll-out of clean steel and its products
Global market share EU technology providers	% growth	2020	N/A	+5 %	N/A	+10 %
Gross Added Value clean steel production	% growth	2020	N/A	+1%	N/A	+2% in 2030
CO ₂ emission reduction	t CO ₂ e / t CO ₂ e_1990	1990	N/A	N/A	N/A	-55 % in 2030

¹ This % indicates the share of CO₂ from CSP project partners in the overall CO₂ emissions of the steel industry in the EU



SYNERGIES WITH OTHER EUROPEAN AND NATIONAL INITIATIVES

SYNERGIES: STORY 1

Additionality of the the Clean Steel Partnership's is envisaged to be realised through a high degree of openness and transparency, and seek to attract all relevant stakeholders to participate in the wider framework. This is done via various measures, such as yearly workshops, a dedicated online presence, and thematic and networking events. Thereby, the partnership will ensure the broad and representative participation of players in the EU steel value chain and those connected to it.

In 2021, ESTEP organised two brokerage events for CSP's members in view of the 2021 calls for funding applications for Horizon Europe and the Research Fund for Coal and Steel frameworks. Focus group workshops on low carbon and energy efficiency, and the circular economy took place.

SYNERGIES: STORY 2

Enablers and support actions on behalf of the CSP will include the creation of synergies with EU and national programmes that enable the upskilling of the steel workforce, activities aiming at fostering R&D&I collaboration between EU companies participating in the clean steel value chain, as well as broader initiatives supporting the creation of a new market for clean steel products.

A way forward will be the launch of several multi-partner projects (targeting at least three beneficiaries and engaging at least three EU Member States) to achieve the objectives of the CSP.

Due to the collaboration among steel producers, reasonable synergies are expected compared to the company-by-company approach, thus reducing the investment need.

SYNERGIES: STORY 3

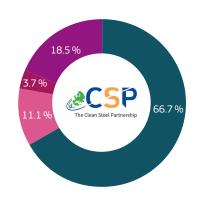
For the partnership to foster additionality, it will collaborate with other partnerships and programmes, for example:

- Processes4Planet: CSP and Processes4Planet have been working closely to align R&D objectives and plans (joint declaration);
- Clean Hydrogen: setting the objectives to accelerate the market entry of nearly-zero GHG-emission hydrogen-based technologies across energy, transport, and industrial end-users (joint declaration);
- Artificial Intelligence, Data and Robotics;
- Made in Europe.



OVERVIEW OF MEMBERS

MEMBERS PER TYPE



INDUSTRY Other Industrial and/or profit Private organisation

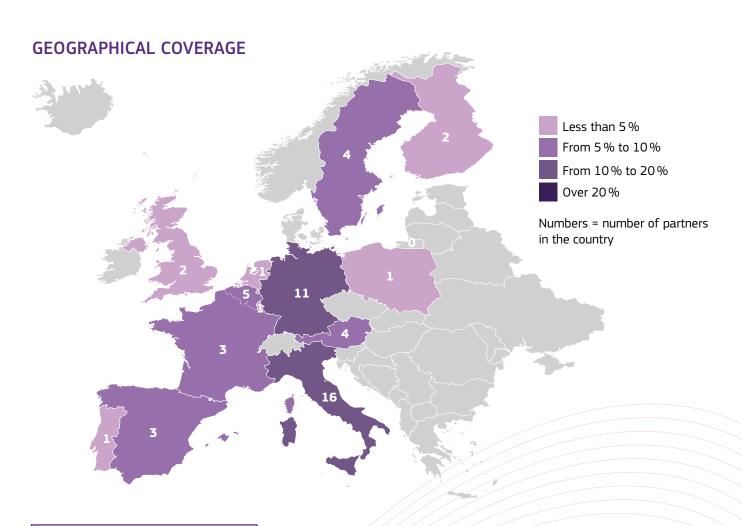
UNIVERSITY University and other higher education organisations

RESEARCH Public research organisation

(including international research organisation as well as private

research organisation controlled by a public authority)

OTHERS Non-profit, associations, state companies etc.



Total number of partners: 54