

23 MARCH 2021

Revision of the Energy and Environmental State aid guidelines (EEAG)

How to start the transition to low CO₂ steel production before 2030, while avoiding carbon leakage?





Facts about EUROFER and the European steel industry

- The European Steel Association (EUROFER) was founded in 1976 and is based in Brussels
- 330,000 people work directly for the Steel Industry at over 500 sites in Europe
- Europe produces 160 million tonnes of steel annually
- Steel is 100% recyclable, infinitely

Overview of steel production in **Europe**



26 March 2021



A Green Deal on Steel: "we are ready, are you?"

The sector would be able to develop, upscale and roll-out new technologies that could reduce EU steel production's CO₂ emissions by 30% by 2030 compared to 2018 emissions (or about 55% compared to 1990) and by 80 to 95% by 2050, while contributing to greenhouse gas mitigation across all sectors and ultimately achieving climate neutrality, however....

we need **effective enabling policies** for a Green Deal on Steel that sets out a clear action plan for the recovery of the steel industry and boosts our CO₂ reduction efforts

For further information see the EUROFER position paper "Green Deal on Steel" (or click directly on this link)



Breakthrough technologies need a comprehensive regulatory framework

Environmental and Energy Aid Guidelines

Emissions Trading System

Carbon border adjustment

Creating lead markets

Breakthrough technologies would increase the steel price by 35%-100%

- Risk sharing instruments (e.g. contracts for difference)
- Requirements and incentives for customers' use
- Public procurement

Competitive low carbon energy

Breakthrough technologies need ± 400 TWh of electricity (equivalent to Germany)

- State aid to reduce structurally costs of energy for industry in transition
- Building the necessary infrastructure
- A European hydrogen strategy

Level playing field

The EU imports ±30 M tons and exports ±20 M tons of steel per year

- Benchmark based free allocation
- Compensation of indirect costs
- Complementary carbon border adjustment
- · Measures to foster steel recycling in the EU

Funding support

Breakthrough technologies need 50 to 60 €bn investment

- Important Projects of common EU Interest
- Innovation Fund and ETS revenues
- Clean steel partnership
- National support (based on EU state aid rules)

Hydrogen & gas package

Renewable Energy Directive

Energy Taxation Directive

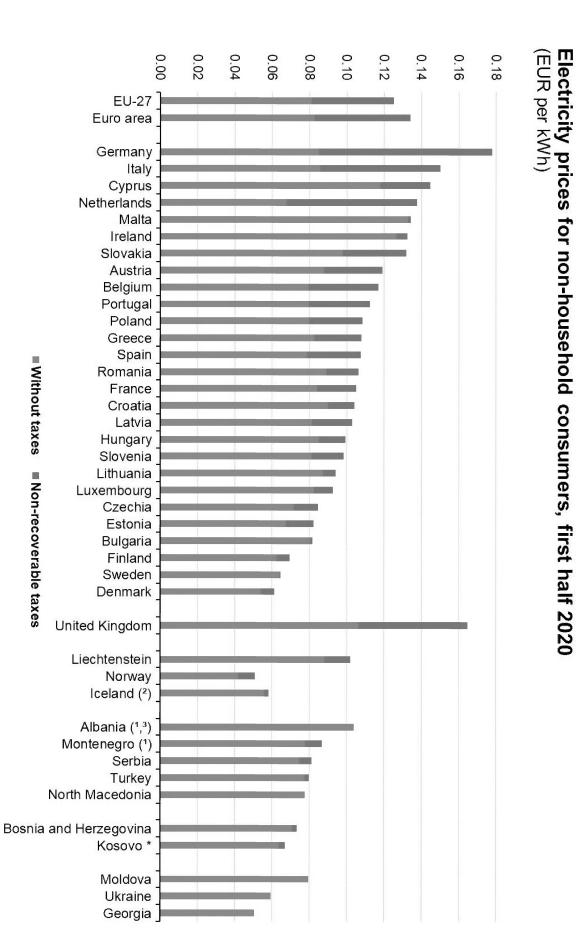


- Delivering the higher climate target in the most cost-efficient way without undue additional costs
- Ensuring effective carbon leakage protection to safeguard the competitiveness of sectors exposed to global competition while they invest in low carbon technologies
- Supporting low carbon investment in industry to accelerate the implementation of breakthrough technologies at industrial scale

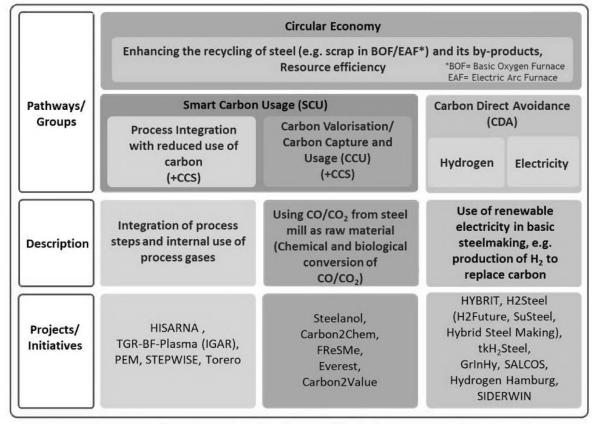


Globally competitive industrial electricity prices

- ☐ Ensure renewable surcharge exemptions are maintained under section 3.7 paragraphs 188 and 189 and Annexes 3 and 5
 - □ Eligibility of the entire steel value chain, notably NACE codes 24.10 (iron & steel), 0710(iron ores), 1920 (coke ovens), 2420 (steel tubes), 2011 (industrial gases), 2431-34 (drawing and rolling), 2451-52 (casting)
- □Extend such exemptions to other climate related regulatory costs impacting electricity consumption prices, not faced by international competitors (i.e. infrastructure and storage for renewables, capacity schemes, etc.)
- ☐ Create a regulatory and commercial framework that facilitates long term PPAs**
- ☐Phase out renewable schemes for mature technologies



EUROFER Technological pathways to climate neutrality



Carbon2Chem



Everest



















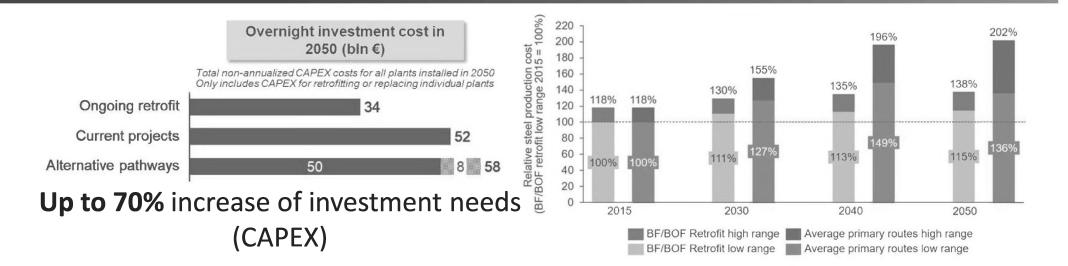




* Non exhaustive list of projects

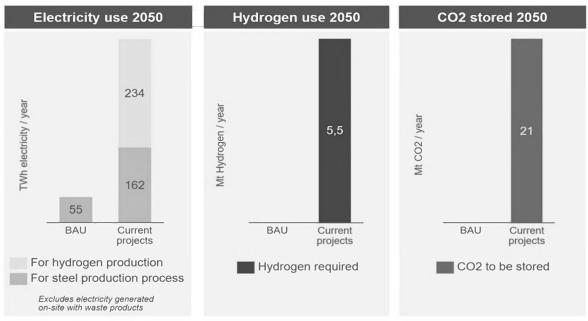
- 16 project applications in the first call of the Innovation Fund
- 33 projects in the Important Projects of Common European Interest
- 32 projects under the Clean Steel Partnership

EUROFER Financial & energy needs of such pathways



35%-100% increase of production costs

in primary steel making (OPEX)



 Up to 400TWh of climate neutral electricity (including for the production of yearly 5.5 Mt hydrogen), which is 7 times more than what the sector purchases from the grid today

Source: Low carbon Roadmap, November 2019



- □ Introduce a general compatibility criterion "conversion to low CO₂ or CO₂-neutral production", according to which support for additional investment and operating costs with an aid intensity of 100% is expressly permitted under the state aid rules
- Include a special rule on the **compatibility of carbon contracts for difference (CCfD)** as a key instrument for the promotion of projects to introduce low carbon production processes

Thank you for your attention

Visit www.eurofer.eu for more information

