

Circular Economy (CE)



Carbon Direct Avoidance (CDA)

H₂-based metallurgy



Electricity-based metallurgy



Smart Carbon Usage (SCU)

Process Integration



Carbon Valorisation/CCU



Carbon Capture and Storage CCS²

(not included in SCU, CDA or CE)



- Number of low-CO₂ projects: 54
- Technology Readiness Level (TRL): at least TRL 7
- Starting year: all projects start before 2030
- Potential annual CO₂ abatement in 2030: 76 Mio tons CO₂/year (1/3 of total direct and indirect CO₂ emissions of EU steel)
- Capex needs: 25 billion EUR
- Opex needs: 25-30 billion EUR (currently being assessed)

The success of these projects and their envisaged emission reductions require a legislative framework that effectively addresses carbon leakage both during and after the projects implementation.

Status: June 2021

