EUROFER
THE EUROPEAN STEEL ASSOCIATION

Circular Economy (CE)

Carbon Direct Avoidance (CDA)

- H_2-based metallurgy
- Electricity-based metallurgy

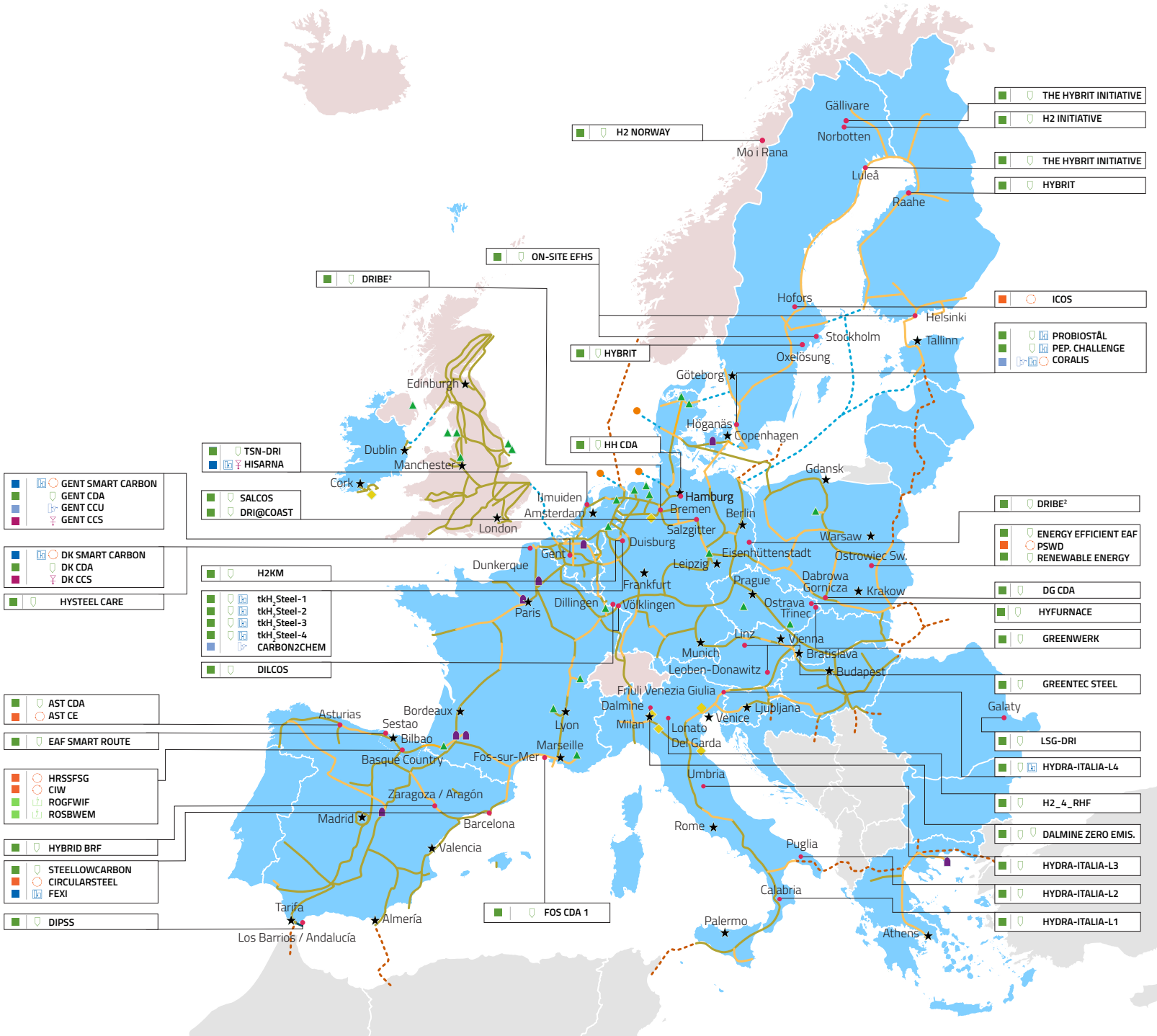
Smart Carbon Usage (SCU)

- Proces Integration
- Carbon Valorisation/CCU

Carbon Capture and Storage CCS²
(not included in SCU, CDA or CE)

- H_2 pipelines by conversion of existing natural gas pipelines (repurposed)
- UK 2030 pipelines depends on pending selection of hydrogen clusters
- Newly constructed H_2 pipelines
- Export/Import H_2 pipelines (repurposed)
- Subsea H_2 pipelines (repurposed or new)

- Potential H_2 storage: Salt cavern
- Potential H_2 storage: Aquifer
- Potential H_2 storage: Depleted field
- Energy island for offshore H_2 production
- City, for orientation purposes



SOURCES:
EUROFER for steel low-CO_2 projects
European Hydrogen backbone, Guidehouse report 2021