

CASE WATCH 21 : HUB FOR CO₂ UPGRADING

Jointly invest in a central hub for shared upgrading of captured CO₂ in process industry cluster.

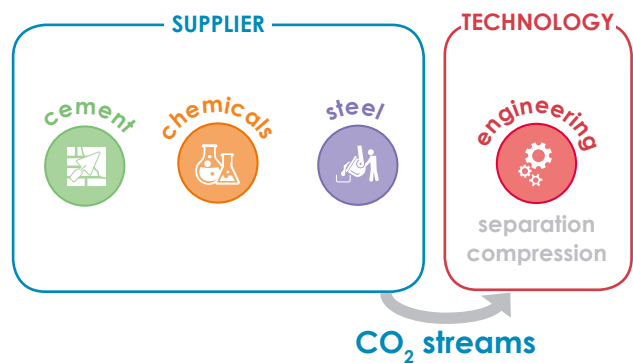
Increase CO₂ capture for storage or utilisation by jointly investing in pretreatment facilities.



BUILDING CO₂ SOLUTIONS

KEY INSIGHTS

- value waste streams
- reduce CO₂ emissions
- create new markets
- integrate sites & clusters



CROSS-SECTOR COLLABORATION

Process industries have a high potential to jointly upgrade captured CO₂.

Industries have a growing demand for contributing to the low-carbon economy.

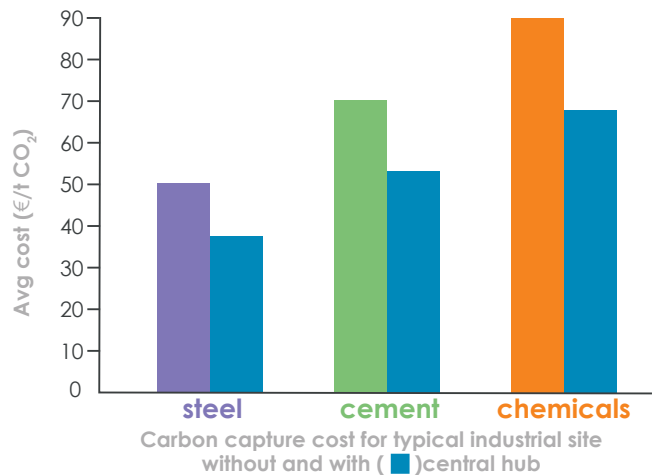


Figure 1: Synergy scheme ^{1,2}

SUSTAINABILITY IMPACT

Wins for industry

- > for suppliers: 20-40% reduction on CO₂ upgrading cost^{1,6,7}
- > for clusters: low-carbon profile^{5,6}

Environmental gains

- > Emissions management: increased carbon capture potential^{1,4}

Wins for society

- > public health benefits due to emissions reduction¹
- > improved business relations in regional clusters
- > job creation and new skills development



Figure 3: Sustainability ¹

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