

CASE WATCH 16 : INDUSTRIAL CO₂ CAPTURE AND STORAGE

Store CO₂ streams from process industry via piping and shipping in empty gas fields.

Reduce CO₂ emissions by capturing and transporting for permanent storage.



CLOSING CO₂ LOOPS

KEY INSIGHTS

- reduce CO₂ emissions
- value existing logistics
- integrate sites & clusters

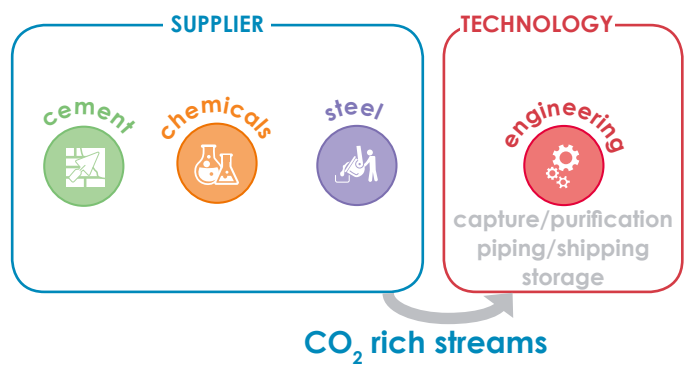


Figure 1: Synergy scheme ^{1,2}

CROSS-SECTOR COLLABORATION

Process industries have a certain potential to capture and jointly store CO₂.

Industries have a growing demand for strategies towards the low-carbon economy.

- CO₂ emitted
- CO₂ captured

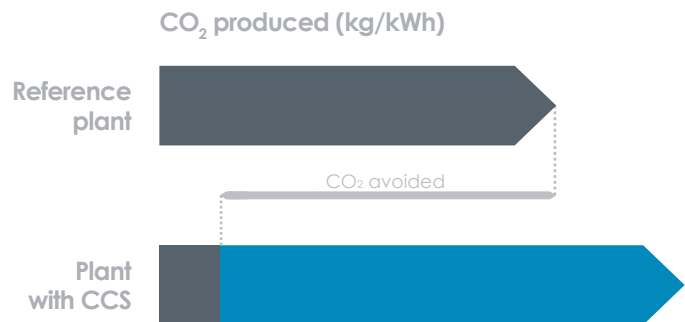


Figure 2: Carbon Capture and Storage (CCS) potential ^{1,2,3,4}

SUSTAINABILITY IMPACT

Wins for industry

- > for suppliers: 15-35 €/ton CO₂ emissions reduction^{3,4}
- > for clusters: low-carbon profile^{2,3}

Environmental gains

- > CO₂ emissions reduction: 10-90% CO₂ captured (depending on situation)^{2,3,5}

Wins for society

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

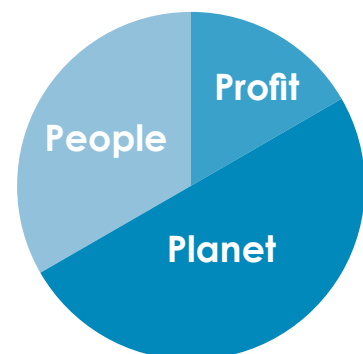


Figure 3: Sustainability ¹

REFERENCES

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