

CEMCAP

CEMCAP is a Horizon 2020 project with the objective to prepare the grounds for cost- and resource-effective CCS in European cement industry.

Product	Market	Energy demand	Maturity	Price
CaCO ₃ (GCC)				
CaCO ₃ (PCC)				
Aggregates				
Carbonated concrete				
Methanol				
DME				
Methane				
Ethanol				
Isopropanol				
Biodiesel from microalgae				
PPC				
Polyols				
Cyclic carbonates				
Formic acid				
CO ₂ (food-grade)				
CO ₂ (greenhouses, NL)				

Classification of CO₂ utilization products

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WP5 Post-capture CO₂ management

Part A Commercial Products

Inorganic Carbonates | Fuels | Chemicals | Polymers | CO₂

Part B Process Information

Part C Sequestration Solutions

Saline aquifers

EOR | EGR

Part D Case studies

Costs in €/ton CO₂ avoided

Storage in Dutch CS 114

Mineralization to MgCO₃

150 to 400

+ Ethanol 96 to 111

Storage in Norwegian CS

153

+ Polyols Profit > 18

+ Food-grade CO₂ 108 to 120

CEMCAP reference cement plant with 90% CO₂ capture



10% of CO₂ emissions

Up to 10%

CO₂ for storage
Above 80%

CO₂ utilization

