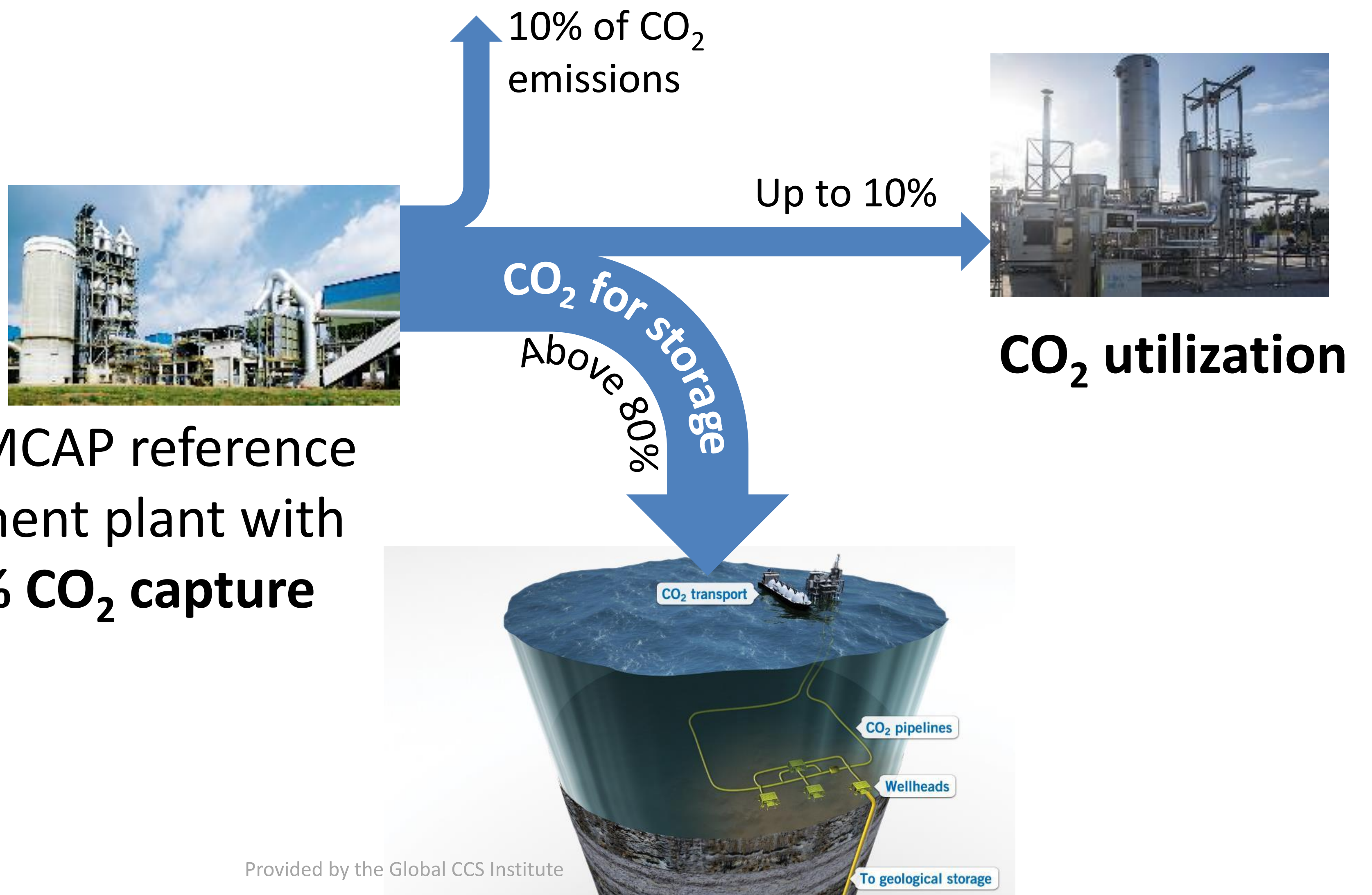


# CEMCAP

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

## CCUS scenarios for the cement industry: is CO<sub>2</sub> utilization economically feasible?



Melbourne, Australia  
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### 4 case studies

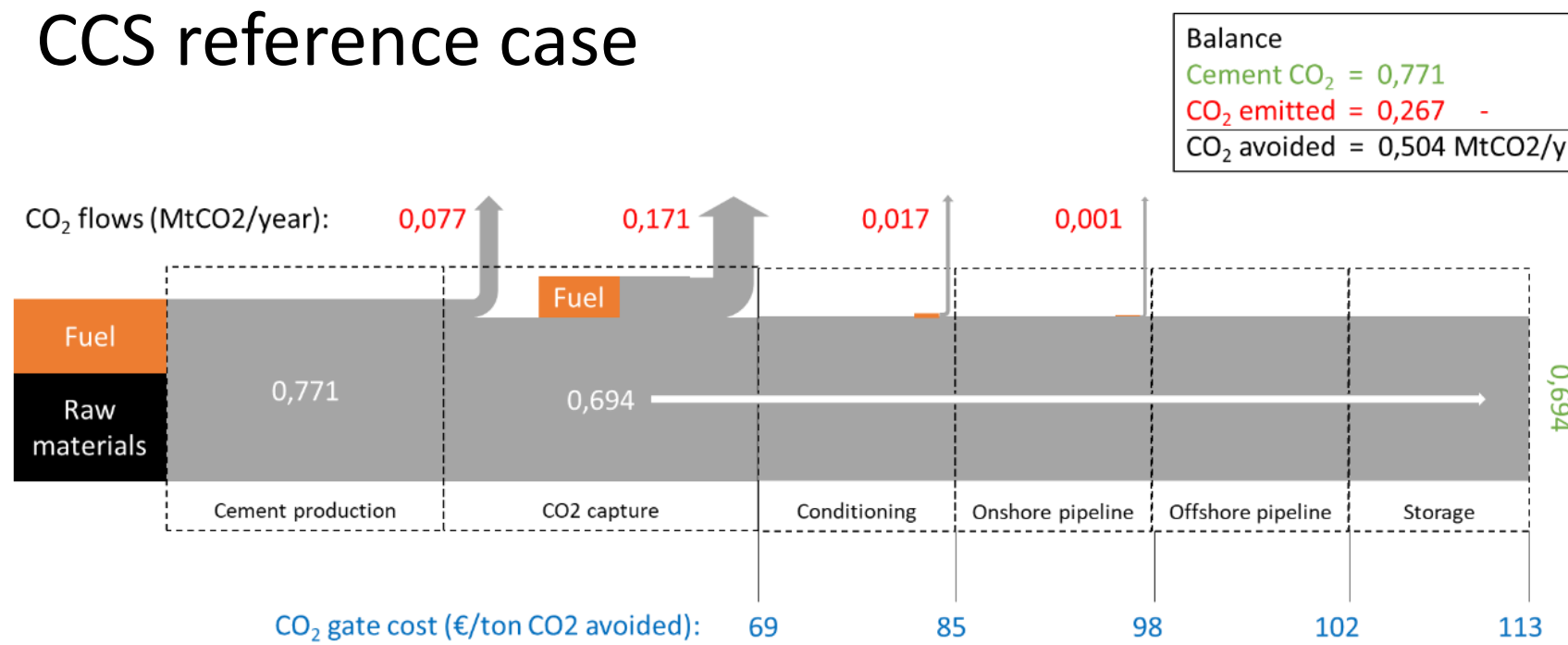


- 120 km radius from Rotterdam: Stand-alone onshore pipeline to a Dutch hub
- 150 km radius from Rotterdam: Shared offshore pipeline to storage
- 1 Saline formation: Capacity 110-225 MtCO<sub>2</sub>
- 2 Saline formation: Capacity 360 MtCO<sub>2</sub>
- Hypothetical cement plant
- Schematic CO<sub>2</sub> path from source to sink

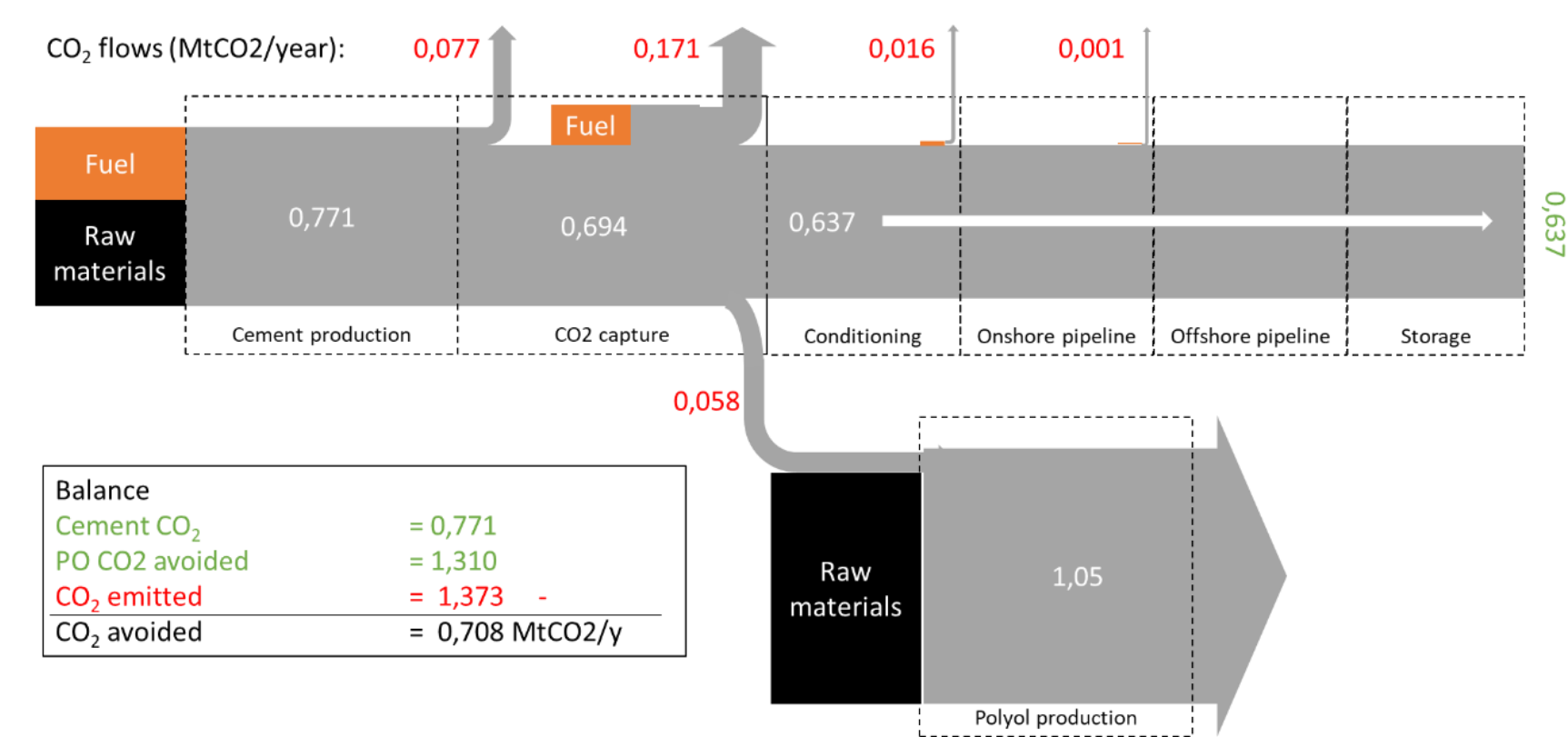
#### Costs in €/ton CO<sub>2</sub> avoided

Storage in Dutch CS	114
+ Ethanol	96 to 111
+ Polyols	Profit > 18
+ Food-grade CO <sub>2</sub>	108 to 120

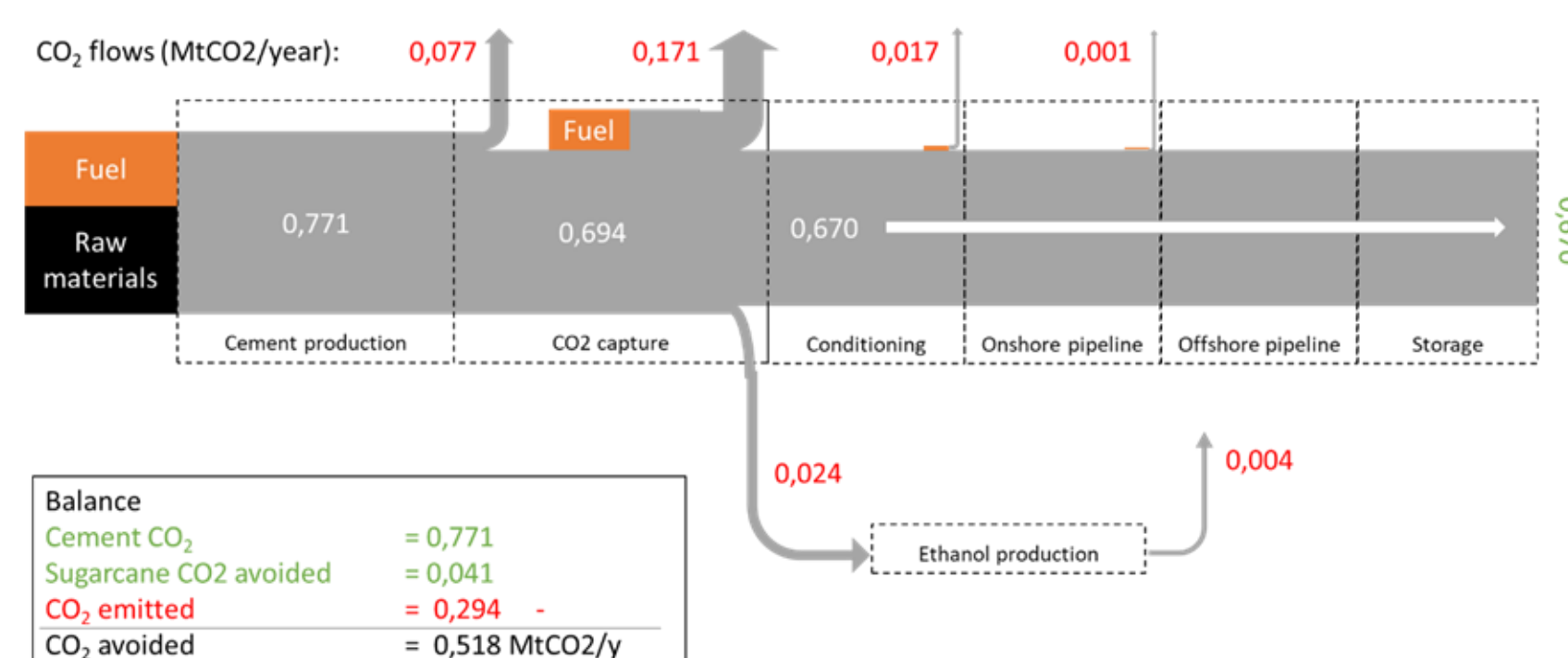
#### CCS reference case



#### CCS + polyols production



#### CCS + ethanol production



#### CCS + food-grade CO<sub>2</sub> production

