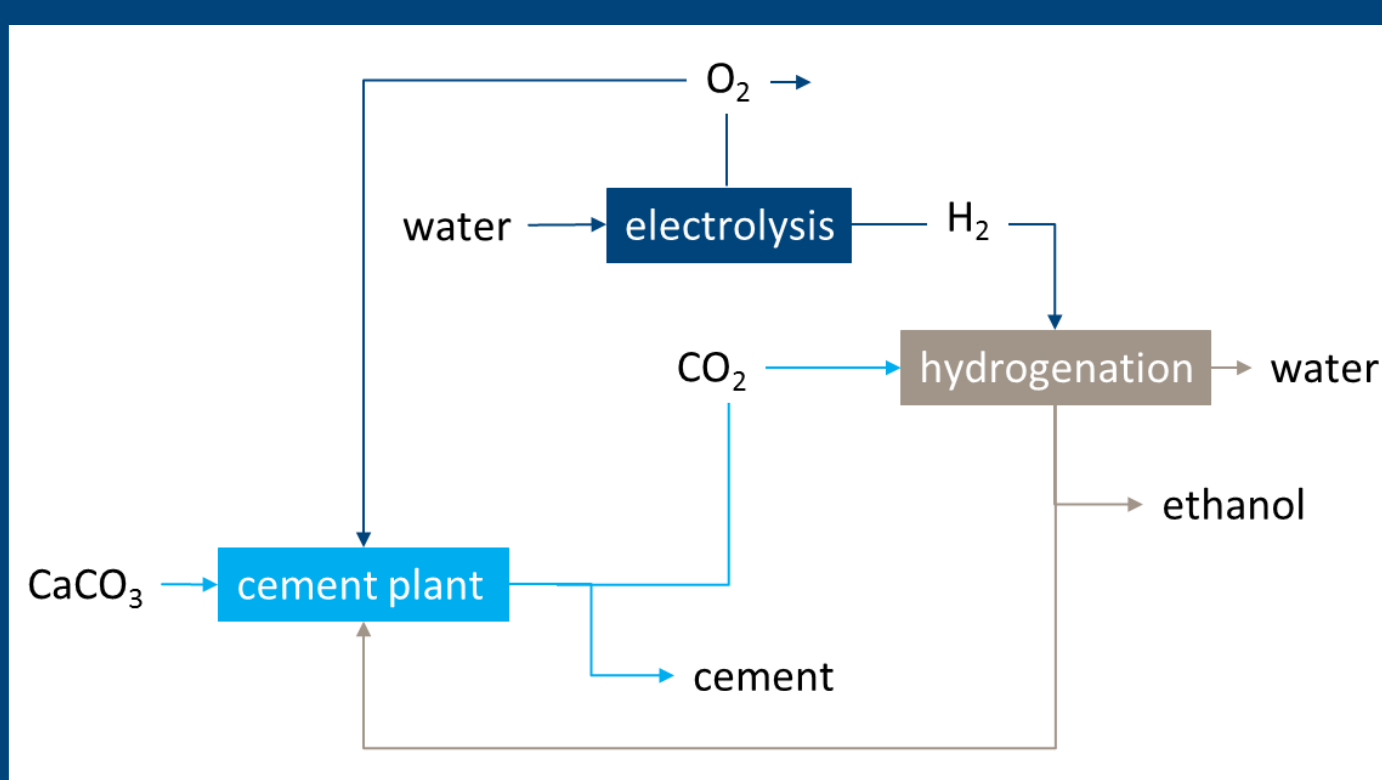
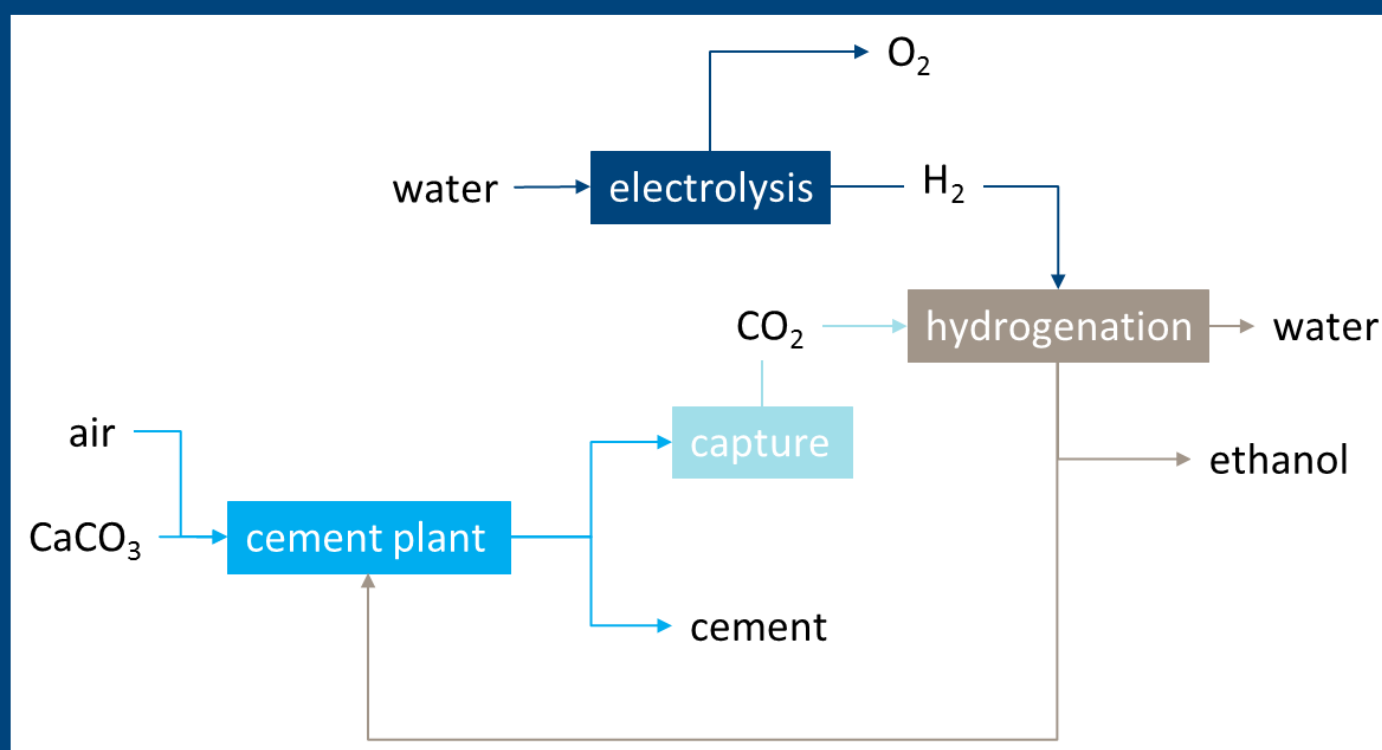


CEMCAP

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



WP5 Post-capture CO₂ Management for the Cement Industry

Objectives

To inventorize and evaluate options for Post-capture CO₂ Management for the Cement Industry.

Conclusions

In WP5 we show that a number of chemicals can be produced from CO₂ via different technological routes. While many routes have appreciable merits, technological and market limitations creates challenges to CO₂ utilization and sequestration. In WP5, we showcase this by evaluating the following selected cases in connection to a BAT cement plant:

- 1) CCS: Shipping-quality CO₂ for storage
- 2) CCS: Mineralization to MgCO₃
- 3) CCU: Hydrogenation to ethanol
- 4) CCU: Polymerization to poly(propylene) carbonate
- 5) CCU: Food-grade liquid CO₂

Juliana Monteiro, Peter van Os, Earl Goetheer

TNO

Francisco Pérez-Calvo

ETHZ

Helmut Hoppe

VDZ

Contact:

Juliana.Monteiro@tno.nl

www.sintef.no/cemcap

Twitter: @CEMCAP_CO2



This project is funded by the European Union's Horizon 2020 Framework Programme for research and innovation

WP5 research

