

LOW COST AND ENERGY-EFFICIENT MODULAR MEMBRANE REACTORS FOR A WIDE RANGE OF APPLICATIONS



e.g. CO₂ Capture & Valorization
and Synthetic Fuels &
Green Ammonia Processing

COMPANY OVERVIEW



Mission

HyET NoCarbon develops and commercializes new innovative modular membrane reactors to decarbonize the chemical industry and the energy supply chain.



Value proposition

HyET NoCarbon accelerates the energy transition with small- and large-scale deployment of its low cost, high efficiency modular systems.



Key technologies

Direct Air Capture of CO₂

Electrochemical CO₂ compression

Small-scale ammonia decomposition reactors & fuel cells

- Based on planar protonic ceramics (in reactors H₂ separation)
- Based on tubular Pd membranes (in reactor H₂ separation)

Synthetic Fuel production

- Based on Low Temperature electrochemical processes (Aqueous CO₂ electrolysis)
- Based on High Temperature electrochemical processes (Tubular protonic ceramics)

Examples of markets served

Renewable aviation industry

CCU and CCS

Green ammonia supply chain

Supplying basic building blocks for the green chemical industry

Blue hydrogen industry

Shipping industry



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