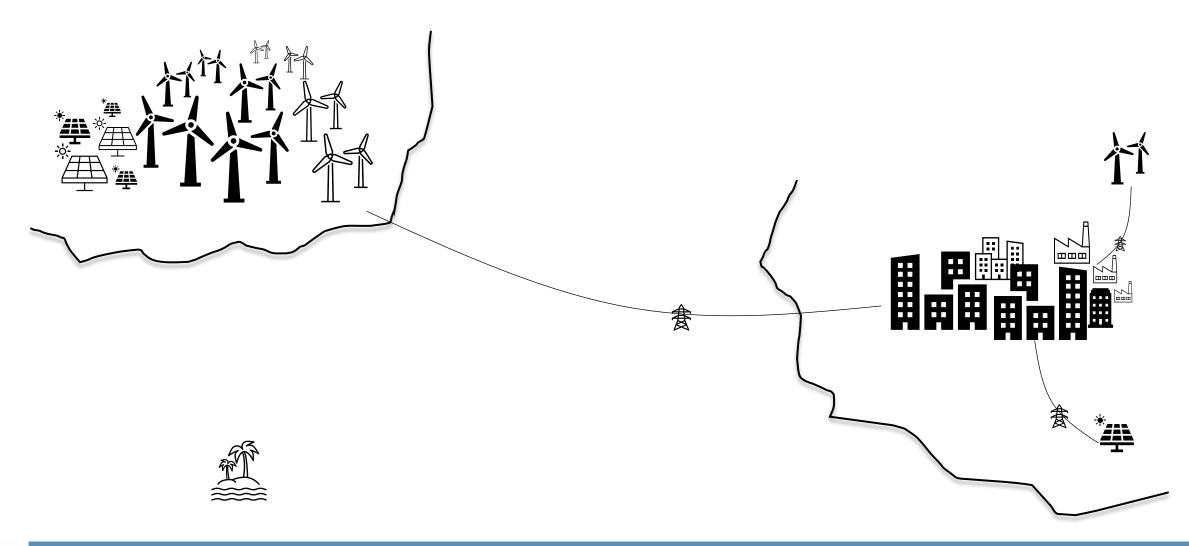


H2 STE Membrane reactors for H2 generation

On-site hydrogen solutions

MOTIVATION

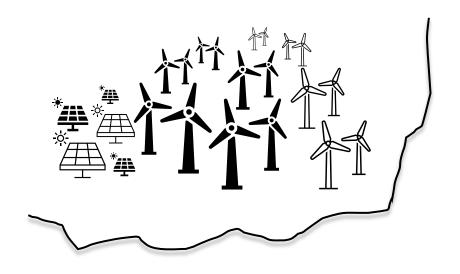
Why ammonia cracking?

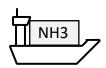




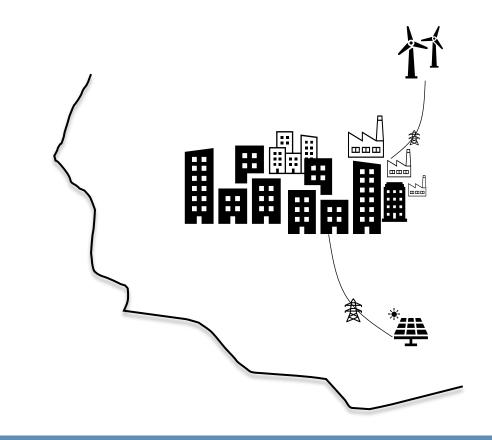
MOTIVATION

Why ammonia cracking?



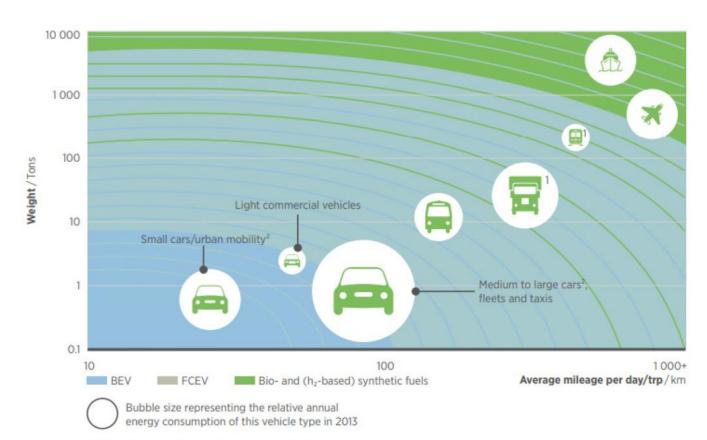






MOTIVATION

Why ammonia cracking?



1 Battery-hydrogen hybrid to ensure sufficient power

Source: Ammonia to Green Hydrogen Project. Feasibility Study, UK's Department for Business, Energy and Industrial Strategy (BEIS).



² Split in A- and B-segment LDVs (small cars) and C+segment LDVs (medium to large cars) based on a 30 % market share of A/B-segment cars and a 50 % less energy demand

TECHNOLOGY MATURITY



2019 – lab scale testing NH3 TRL 5 paper

TRL Milestones

2022 – medium NH3, DME, formic acid TRL 9

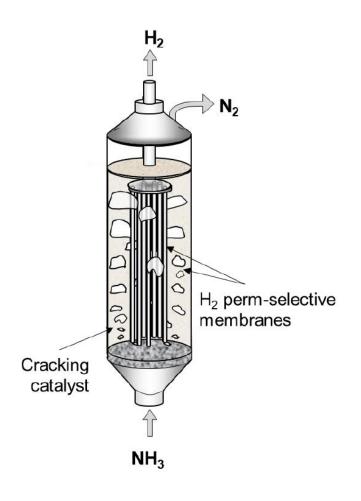


2020-2021 – small NH3 TRL 8 no paper published yet



TECHNOLOGY STATUS

Reactors

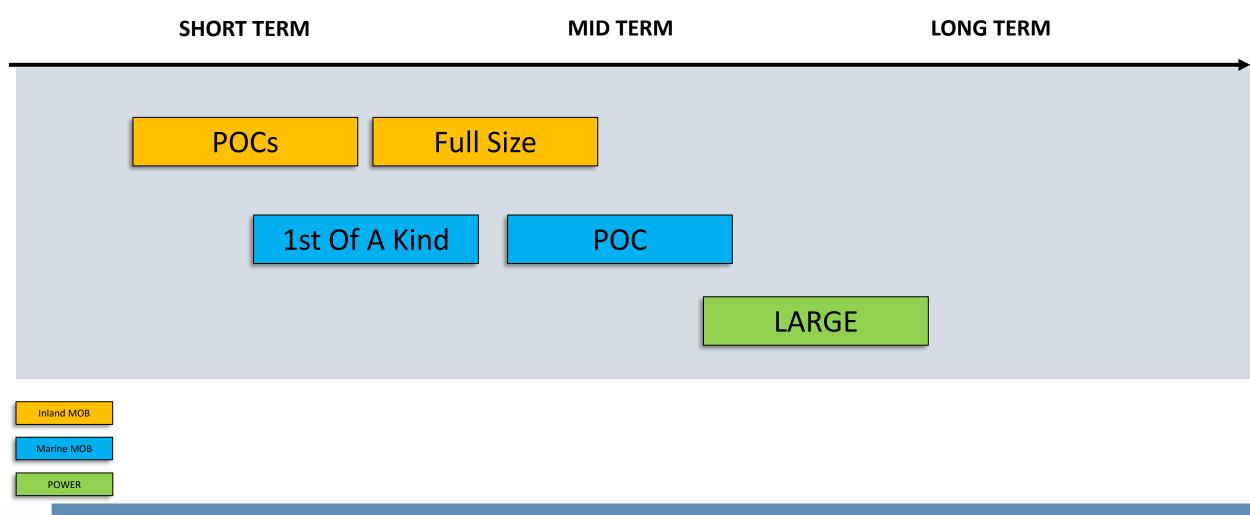






MARKET OUTLOOK

Looking for Partners to develop new POC



SUMMARY

NH3 cracking technology

97.5%





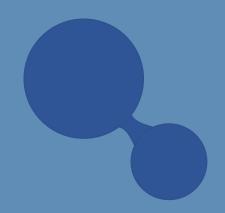


H2 recovery

Compact & containerized solution

Fuel Cell purity hydrogen suitable for MOB applications per ISO 14687 Short term goal: up to 4ton/day (larger units will follow)







H2 SITE

Membrane reactors for H2 generation

THANK YOU FOR YOUR ATTENTION

CONTACT DETAILS:

Igor Egaña +34 628.704.808

igor.egana@h2site.eu



