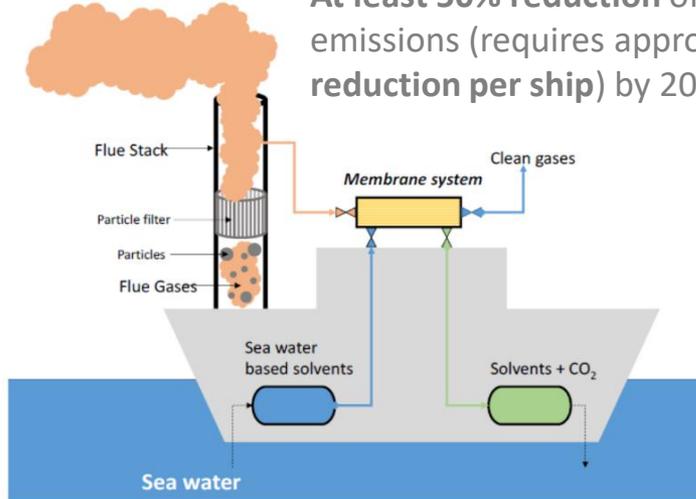




MemCCSea

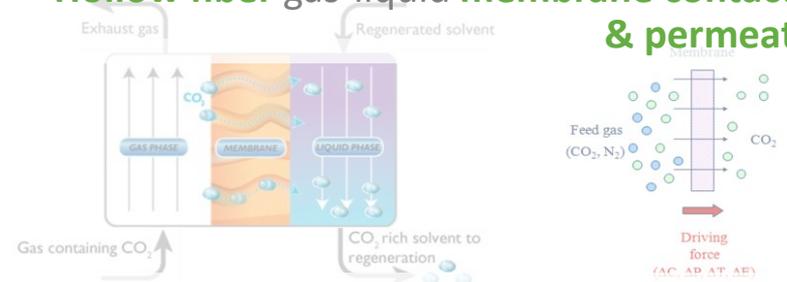
Innovative membrane systems for CO₂ capture and storage at sea

At least 50% reduction of total annual GHG emissions (requires approximately 85% CO₂ reduction per ship) by 2050.

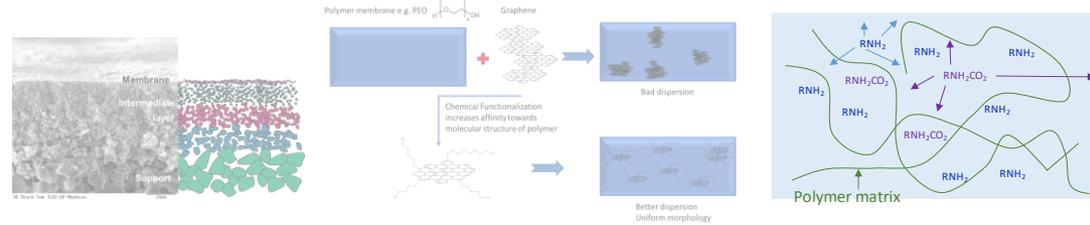


Key innovation

Hollow fiber gas-liquid membrane contactors & permeators



Advanced customized ceramic and polymeric high performance, high stability membranes



Process marinzation addressing the unique challenges of maritime environment



Key targets

- Recovery of main engine CO₂ emissions greater than 90%
- Overall CO₂ emissions reduction (including added emissions by capture plant and utilities) greater than 50%
- A 10-fold reduction of system volume and a reduction of operating costs greater than 25% compared to conventional amine-based systems.



<http://memccsea.certh.gr>

Budget 1.98 M€ Project duration 30M



Project Coordinator: Dr G. Skevis
CPERI / CERTH



4th ACT Knowledge Sharing Workshop
Athens, 6-7 November 2019