

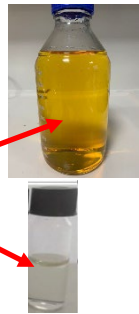
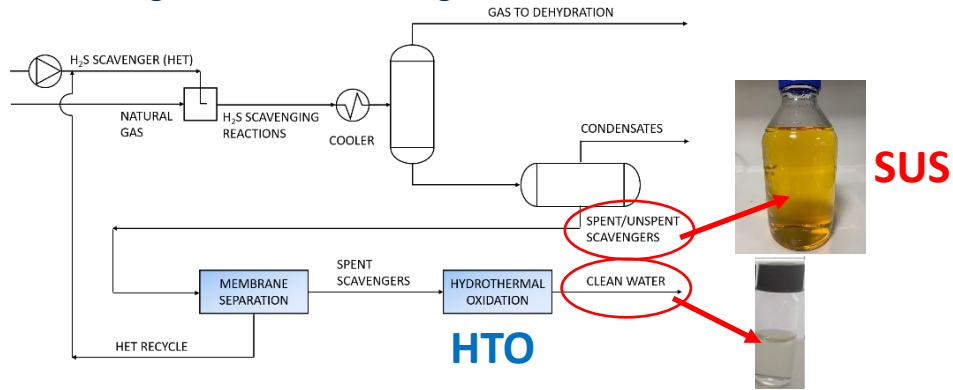
# Project: Zero Discharge of H<sub>2</sub>S Scavenging Chemicals

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## Objectives

Develop a process for recovering unspent MEA-triazine (HET) from spent/unspent H<sub>2</sub>S scavengers and cleaning the spent scavengers before discharge



## Deliverables

- Lab-scale demonstration and basic design of a membrane process for HET recovery and HTO on SUS
- Synthesize tailored membranes for improved spent/unspent scavenger separation
- Process integration and optimal operating conditions accounting for both Environmental Impact Factor and size/weight of the process units

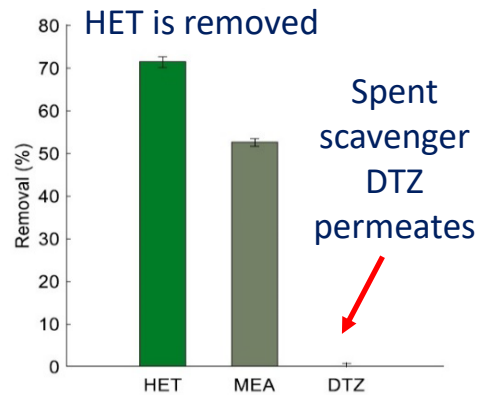
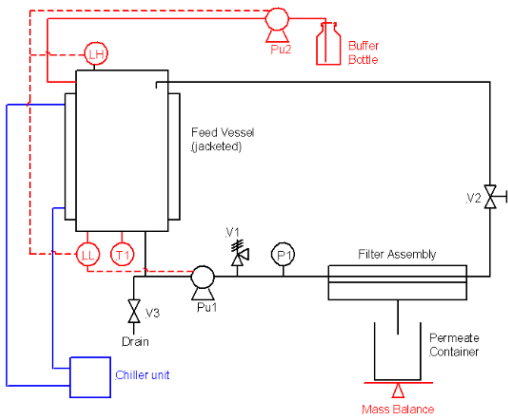
## Envisaged application

Reduction of MEA-triazine consumption and EIF in offshore O&G installations

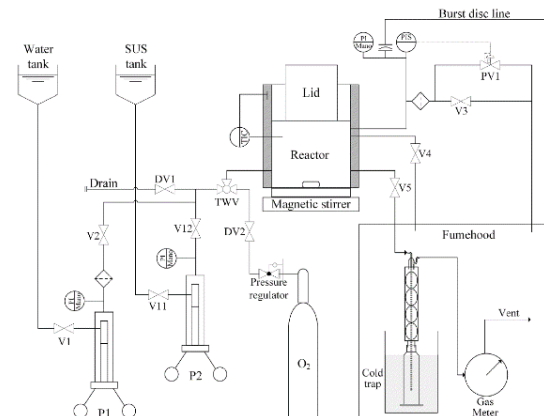
## Challenges

- Increase the selectivity of the unspent/spent scavenger separation in the membrane unit
- Optimize the HTO design to get small volume and weight

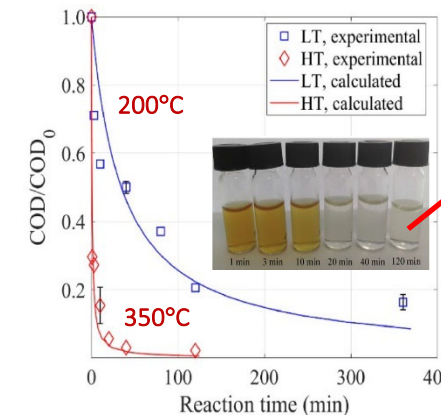
## Experiments/Techniques



Separation and Purification Technology 277 (2021) 119641



Chemical Engineering Journal 427 (2022) 131020



C,N,S converted into CO<sub>2</sub>, ammonium, nitrate, sulfates

Research Area: PW Treatment

