

# Value Maritime

Filtering emissions and capturing CO<sub>2</sub> with valuable green and financial dividends.



# Who We Are

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Maritime

We are a young innovation-driven team of experienced **engineers** and **financial** experts who understand shipping and the need for **new, simple, sustainable** solutions that make **commercial** and **financial** sense.

Since 2017, Value Maritime's **technology** has been helping shipowners and operators to achieve substantial **emission reductions** and **financial savings**.

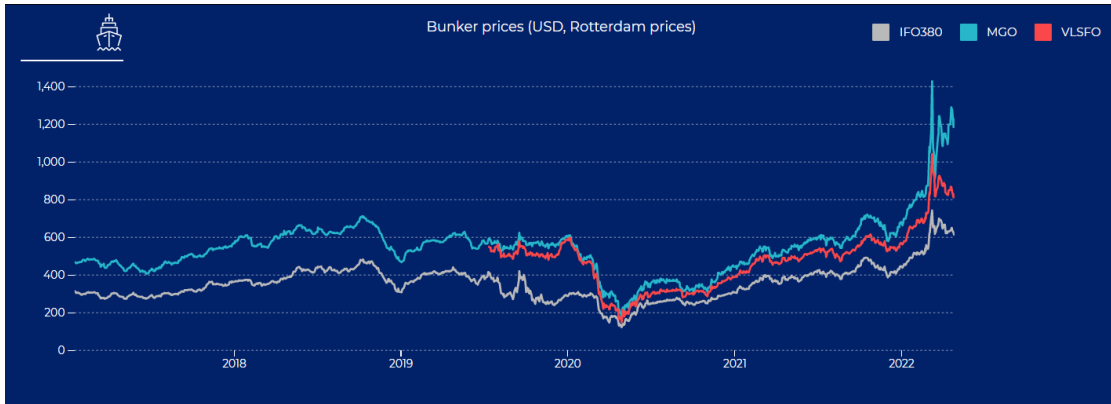
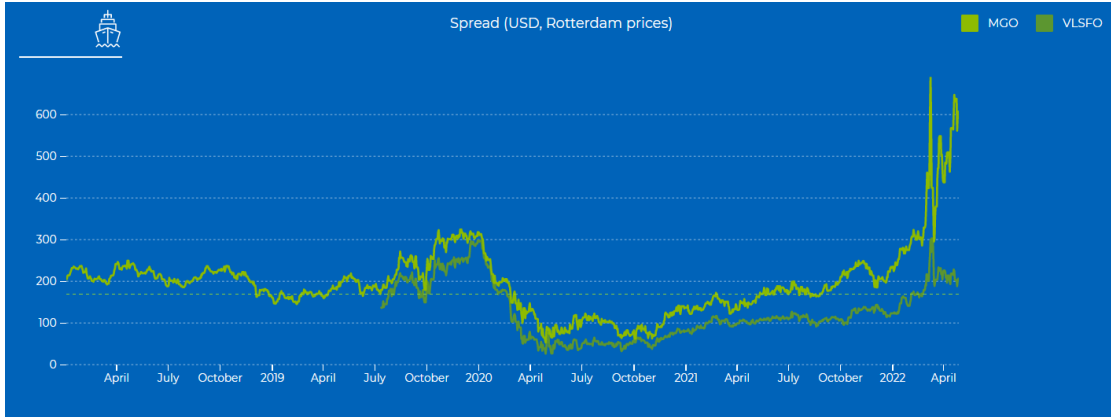


# Introduction – Filtree System

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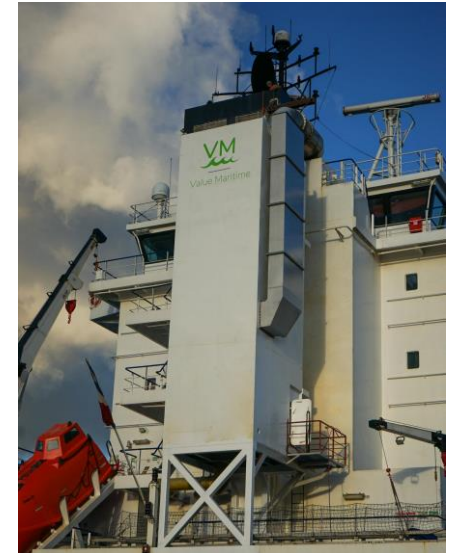


# Price difference HSFO – MGO/VLSFO



## Price difference

- Price difference HSFO – MGO/VLSFO at EUR 470 and EUR 210
- Pay-back time between 1 and 2,5 year incl 30% CO2 capture
- VM CO2 service Rotterdam 75 euro/ton vs 81 Euro ETS



# CO2 Capture Operations



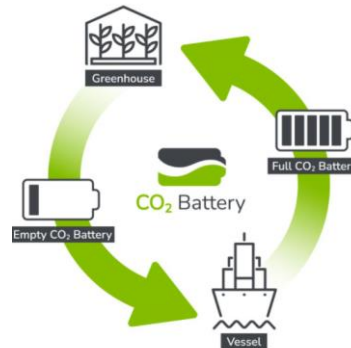
## Value Maritime CO2 capture unit integrated with Filtree system

- Filtree unit works with and without CO2 capture
- Start and stop of CO2 scrubber from Filtree HMI
- Additional energy consumption minimal (<0,5%)

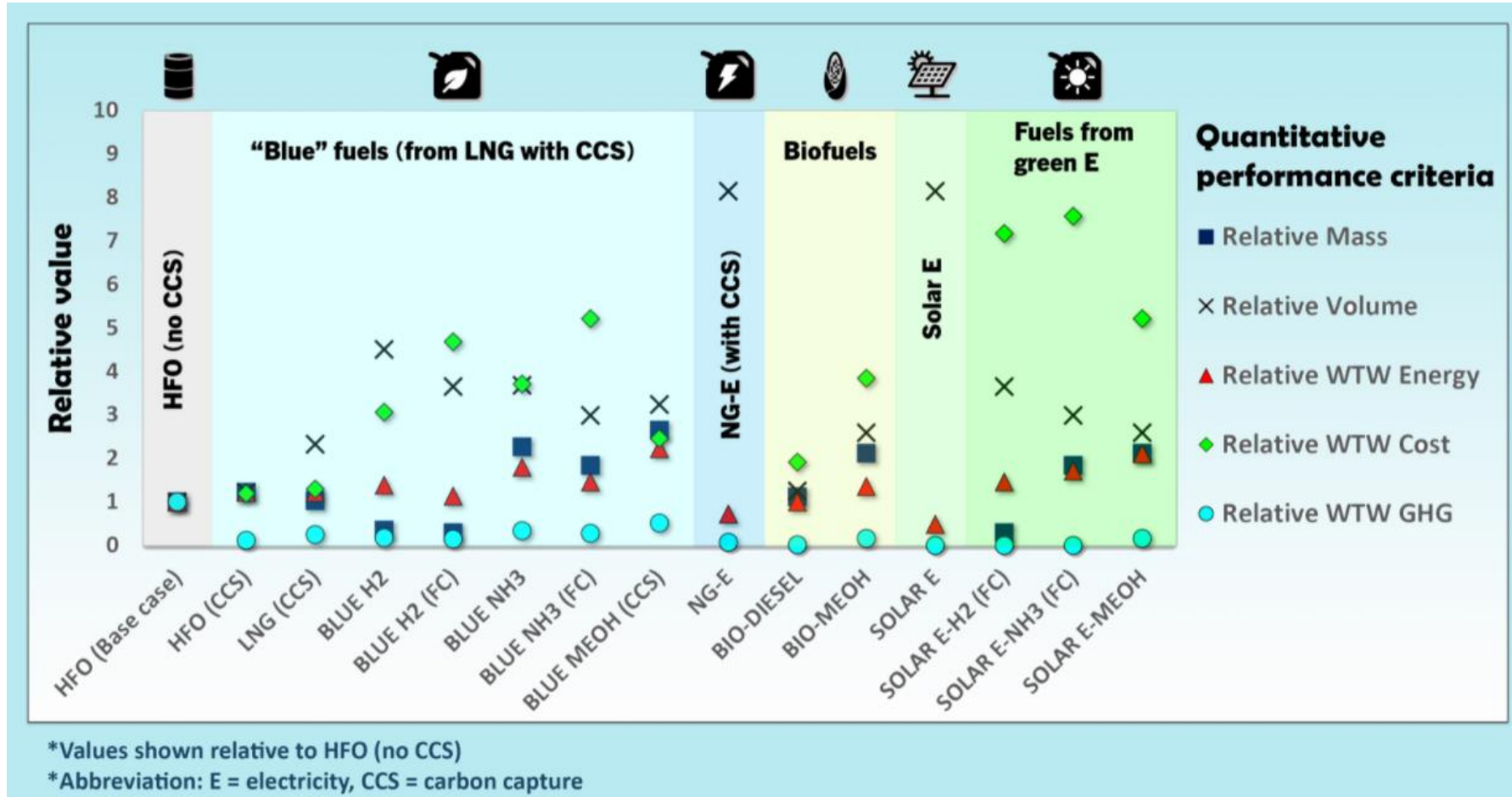
## Handling

- Connecting the supply and discharge with flexibles at CO2 Battery or dedicated CO2 tank
- Supply and return of CO2 Battery or CO2 storage material managed by VM CO2 services

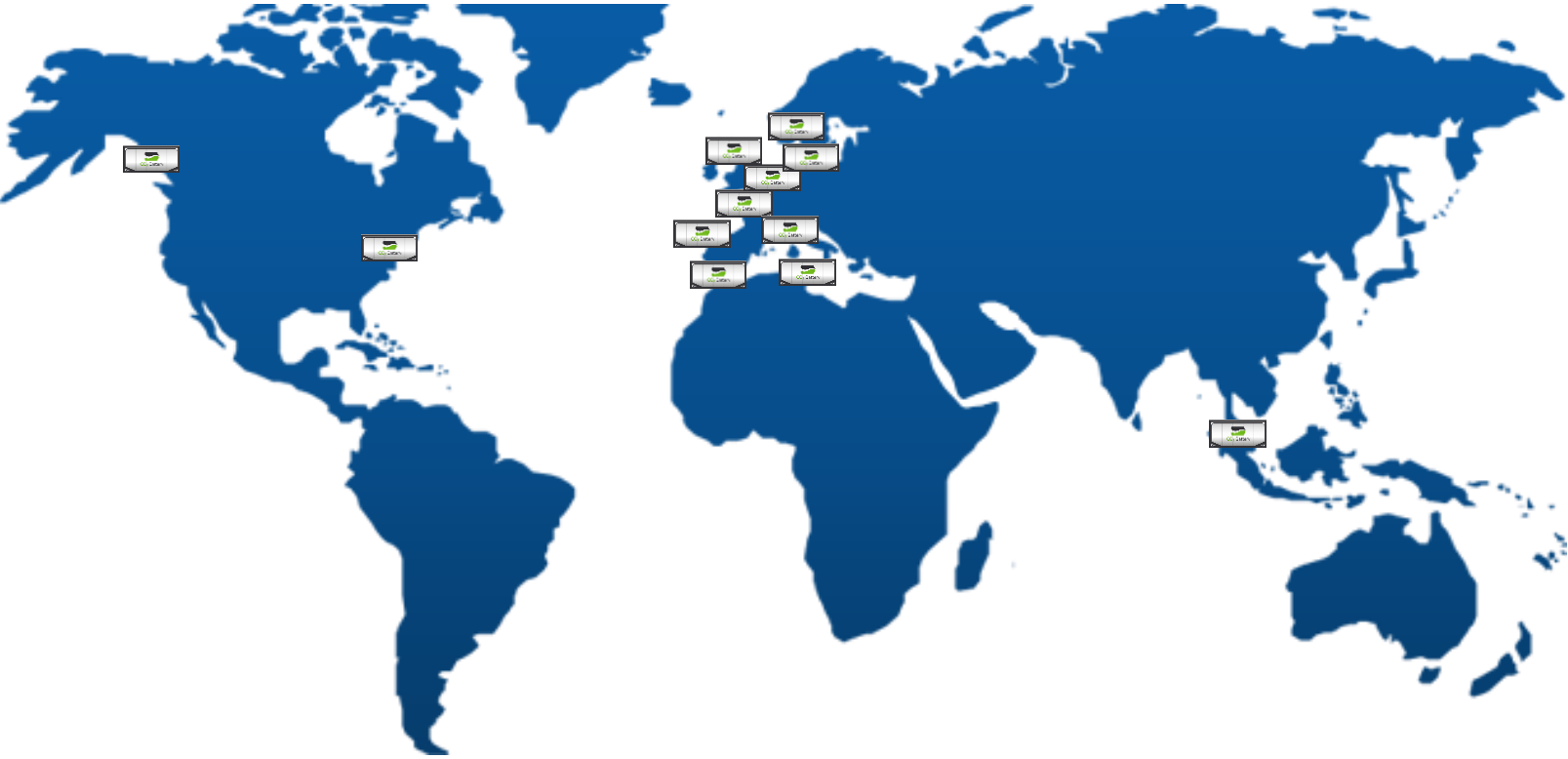
## CO2 discharge for e.g. greenhouses or Storage (CCS)



# Shipping Future Fuels



# CO2 Battery Network



Value Maritime is currently building a network of **CO2 Battery hubs**, where CO2 Batteries can be loaded and unloaded.

# CO2 Battery Copenhagen/Avedore -Hub



– Call for CO2 offtake (21kT/a available in 2023)



CO<sub>2</sub> Battery

- 13 kT/a liquid CO<sub>2</sub> Avedore for greenhouses/ Methanol production/ other applications
- 8-16 kT/a CO<sub>2</sub> battery with CO<sub>2</sub> Converters for Greenhouses



# A thank you to our (future) customers



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- *16 Filtree units in operation*
- *14 in orderbook*
- *125 in pipeline*



# Appendix

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# Differential Advantages

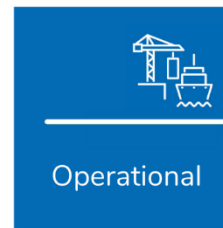
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- Sulfur, CO2, Particulate Matter (PM 2.5)
- PH neutral discharge (Clean Loop)
- Low energy consumption
- CO2 as circular product, no waste



- Financial Business case:
  - Spread HSFO – LSFO/MGO
  - Carbon Tax
  - Customer demand
- Tailor made financial solutions
- Meet regulatory requirements (EEXI/CII, ETS)



- Plug and play system (NB & Retrofit), easy to install with limited downtime
- Easy operation, start and stop button
- Standardized compact system
- CO2 stored under ambient temperature and pressure
- Flexible carbon capture rate