



Innovations and Governance in Maritime

June 2nd 2022



Innovations and investments required by maritime decarbonation legislation.

Poul Woodall
Advisor, SeaFocus





ETS

MBM

EU Taxonomy



FuelEU

EEXI

CII

EU FuelTax Directive



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ETS

For each tonne of GHG a vessel emits, the “owner” needs to acquire and submit a similar amount of carbon credits.



ETS

- ✓ GHG i.o. CO₂
- ✓ 400 GT i.o. 5000 GT
- ✓ Start 2024 i.o. 2023
- ✓ No Phase-in period
- ✓ Carbon leakage avoidance measures
- ✓ GWP 20y i/o 100y

Consequences ?





ETS

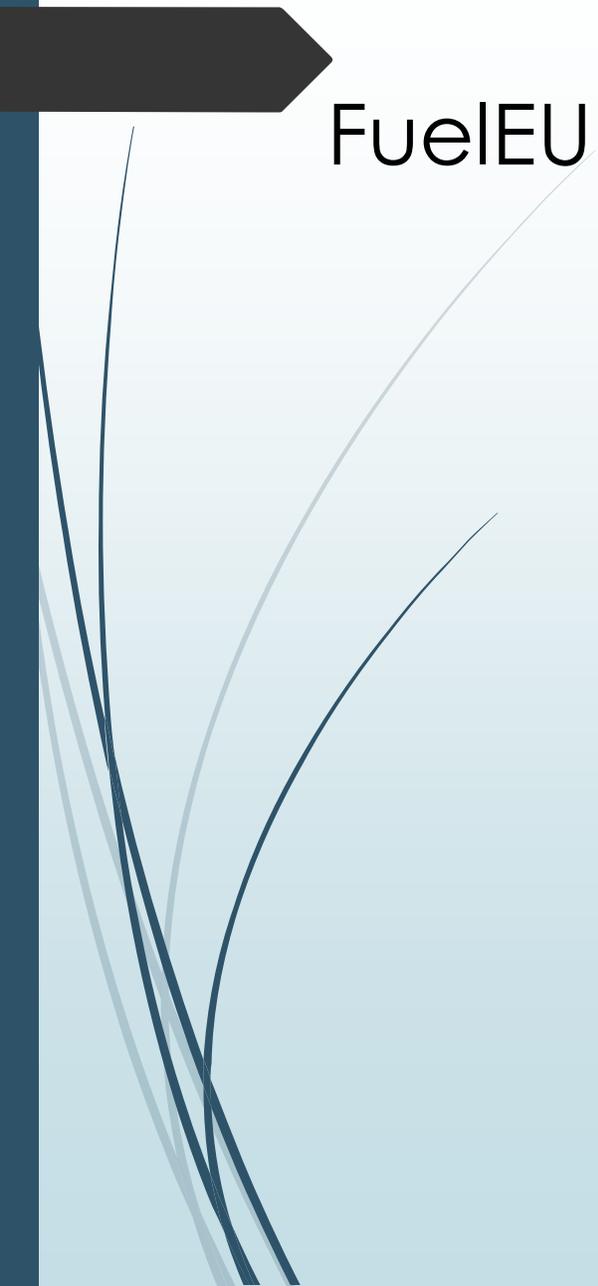
- ✓ Need to measure methane and nitrous oxide (and BC?)
- ✓ > 44000 new ships[#] to be included, who may need "plug&play"
- ✓ Monitoring & Reporting of carbon leakage violators
- ✓ Banking & Insurance for carbon credits.
- ✓ System for "Owner/Charterer" responsibility

as per GISIS 21/5/22

FuelEU

The average carbonfactor per fuel unit needs to decrease over time according to a predefined scale.





FuelEU

- ✓ GHG i.i. CO₂
- ✓ Upstream included
- ✓ Pooling allowed

Consequences ?





FuelEU

- ✓ Identify upstream element and find out how to document
- ✓ Measuring of all GHG's
- ✓ Fleet pooling tool

FuelEU – how it works

Total avg. carbon factor - WTW

Diesel

Upstream

Downstream

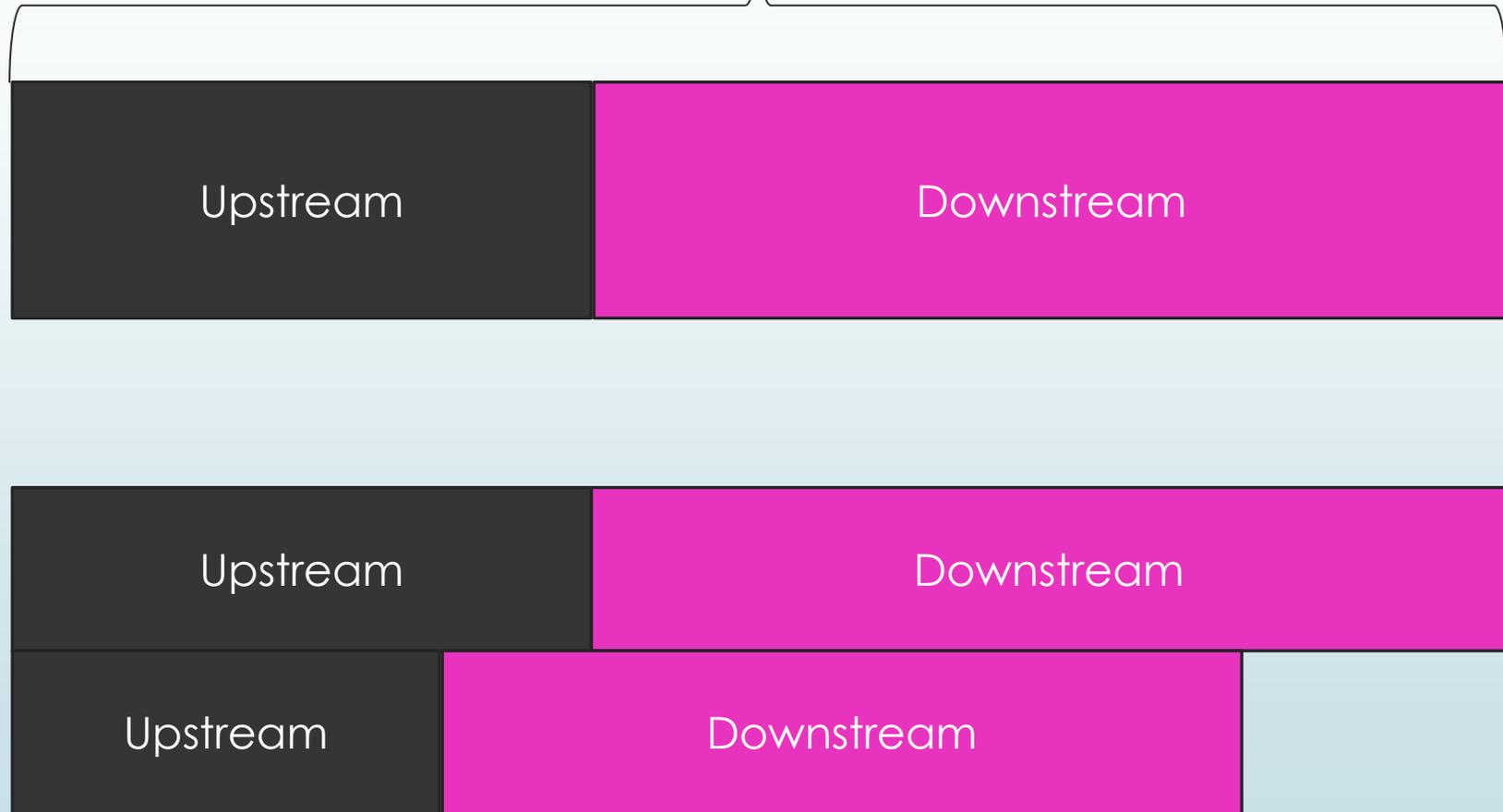
Combination fuel
e.g. Diesel+HVO

Upstream

Downstream

Upstream

Downstream





THANK
YOU!