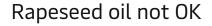
# Fuel certifications Needs of a shipping and logistics company

### Fuel certifications - intro

- In general, certification bodies certify to existing standards like e.g. the EU Renewable Energy Directive. They may apply own sustainability criteria on top of the standard criteria
- Shipping companies need certifications for several purposes:
- To document the sustainability of the fuel,
  - produced from feedstocks accepted by the company (or customers) e.g. wastes and residues
  - Low land use change
  - Does not lead to unintended consequences e.g. loss of soil fertility, biodiversity, poor forest conditions
- To document the greenhouse gas emissions associated with the production of the fuel for reporting purposes
  - Consistent and auditable
- To document traceability of the fuels to their source
- To document more sustainable products to customers
- In the future, shipowners may need certified marine fuels in the context of e.g. the EU Emission Trading System







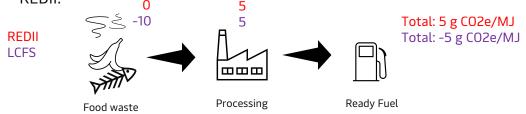




2

#### Challenges and needs

- International shipping is global and shipping emissions fall outside the national greenhouse gas emissions inventories (UNCCC), outside of local trading schemes e.g. California Low Carbon Fuel Standard (LCFS).
- Existing standards do greenhouse gas accounting differently.
- A biofuel certified to e.g. the LCFS Standard is likely to have a very different GHG footprint than the same fuel certified to the REDII.



- Shipping needs consistency in grade naming and GHG allocation for new renewable/circular fuel plants for residual and intermediate streams.
- The EU's pending a delegated act for e-fuels\*, RFNBOs (Renewable Fuels of Non-Biological Origin) is causing major uncertainty for fuel suppliers and off-takers
- Existing rules on mass-balance bookkeeping are not aligned with the realities of marine fuel logistics, e.g. floating storage, bunker barge last point before consumption.
  - Fuel production is often far from ports

\* It is finally out!

Shipping needs globally recognised standards and robust greenhouse gas accounting across continents, regions and countries (and preferably also across transport modes like trucking and aviation) that emphasize consistency.







## How to get the transition to green fuels going

- IPCC advice:
  - Demand signals are key and fast action
  - There is <u>no room</u> for unabated fossil fuels in credible pathways to 1.5°C or new fossil infrastructure including natural gas infrastructure which has problematic methane emissions
- Taking into account the urgency and the pace at which action is needed, it is <u>absolutely imperative</u> that certification highlights sustainably produced fuels, this requires:
  - Accounting for upstream and downstream emissions
  - Accounting for by and co-product benefits/burdens in a consistent way
  - Taking into account current uses of feedstock for fuel production including the consequences of diverting feedstock from current uses, whether that is energy production or soil carbon accumulation, etc.
  - Clear definitions of carbon neutrality
- Can the transition be supported by catering for certification on mass balance basis or swapping of volumes globally?
  - Logistical challenge e.g. small volumes of green methanol and other green fuels in locations far from trade lanes
  - First mover disadvantage

# Our needs for a global certificate:

- ✓ Robust sustainability criteria
- ✓ Consistent GHG accounting
- ✓ Flexible fuel bunkering logistics
- Inclusion in incentive schemes

