



SUSTAINABLE LOGISTICS. SIMPLIFIED.

TACKLING THE OCEAN FREIGHT DECARBONIZATION CHALLENGE WITH CARBON INSETTING

4 November 2022



Introducing our experts...



Kathrin Brost
Global Head of GoGreen
DHL Global Forwarding



Dirk Kronemeijer
Chief Executive Officer
GoodShipping



Mauricio Campos Cardozo
Global Ocean Freight LCL Manager
DHL Global Forwarding

Agenda

1. Welcome & Introduction

2. Sustainable Fuels – the key to accelerating decarbonization of ocean freight

Kathrin Brost, Global Head of GoGreen,
DHL Global Forwarding

3. Sustainable Fuels and Insetting – a perfect match

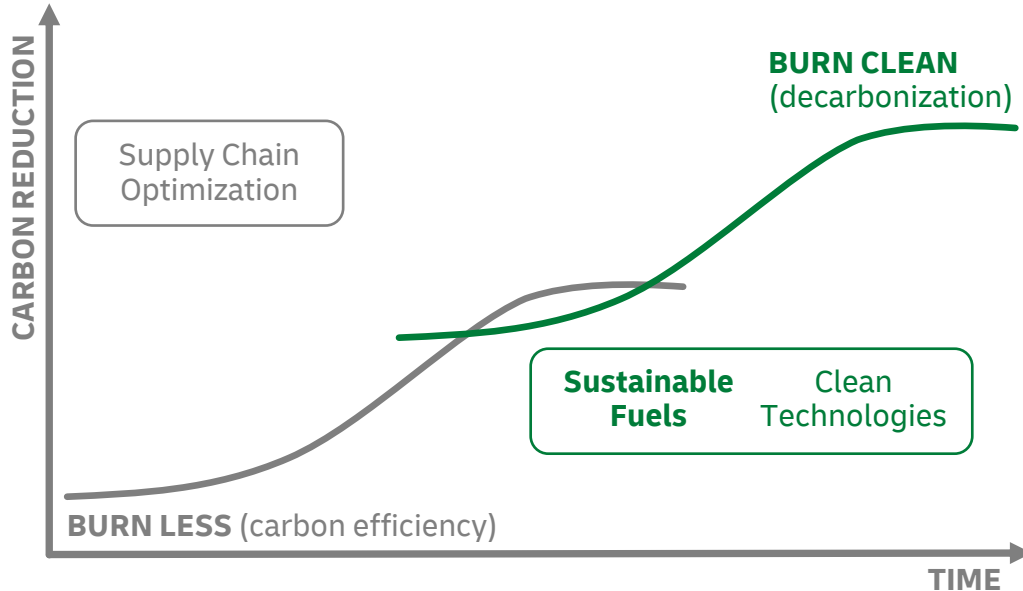
Dirk Kronemeijer, CEO Good Shipping

4. Q&A & Wrap up



Path towards Zero Emissions

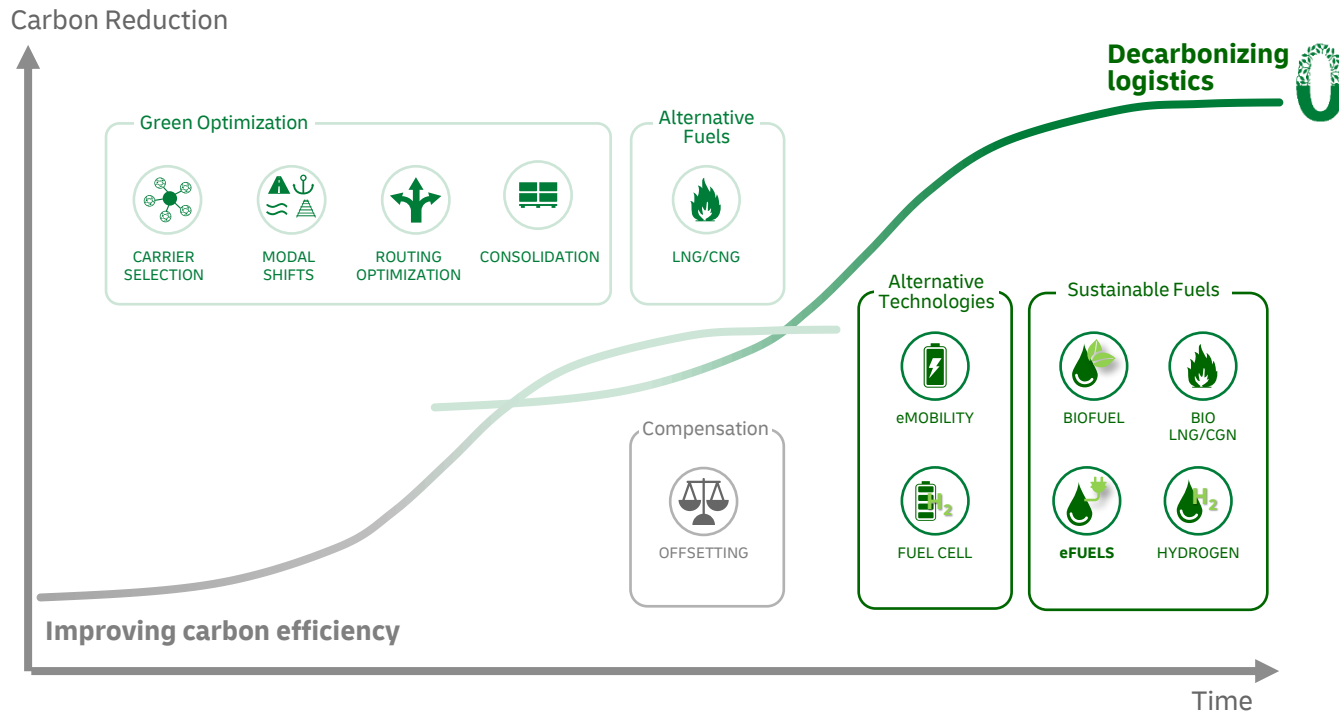
Reaching the next level by leveraging sustainable marine fuels (SMF)



Decarbonizing logistics is possible but requires a **collaborative effort.**

Sustainable fuels will play a key role as vessels have been optimized to a maximum.

The path toward zero emissions – reaching the next level of carbon reduction by leveraging the latest technologies



Container vessels and aircrafts are close to reach their efficiency limits.

While supply chain optimization efforts still leave room for further efficiency increases, new technologies and alternative fuels are currently being developed, scaled and rolled-out.

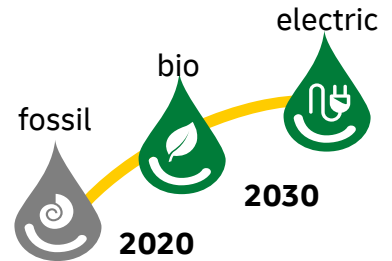
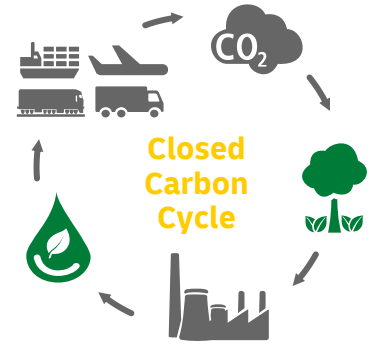
Setting the path towards decarbonized logistics.

Role of Sustainable Fuels – Key Facts

During ‘production’ of sustainable fuels, CO₂ is absorbed from the air. Only this **previously absorbed CO₂ is released during combustion** of the fuel, making it a closed carbon cycle

Biofuels and e-fuels (‘Drop-in fuels’) require no **or little change in engine technologies** and will play a **key role** in the next 10 years

Biofuels are readily available. A **fuel switch** needs to happen **onboard** of a vessel **at locations** where sustainable fuel **is available**



Burn clean - Decarbonization with GoGreen Plus

OFFSETTING



**Compensation
OUTSIDE**
the logistics
industry



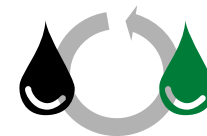
FUNDS

INSETTING



**Reduction
INSIDE**
the logistics
industry

DGF's INSETTING SERVICE



Maximum Flexibility

- Any trade lane
- One shipment or
- Some shipments or
- All shipments

Worldwide Service

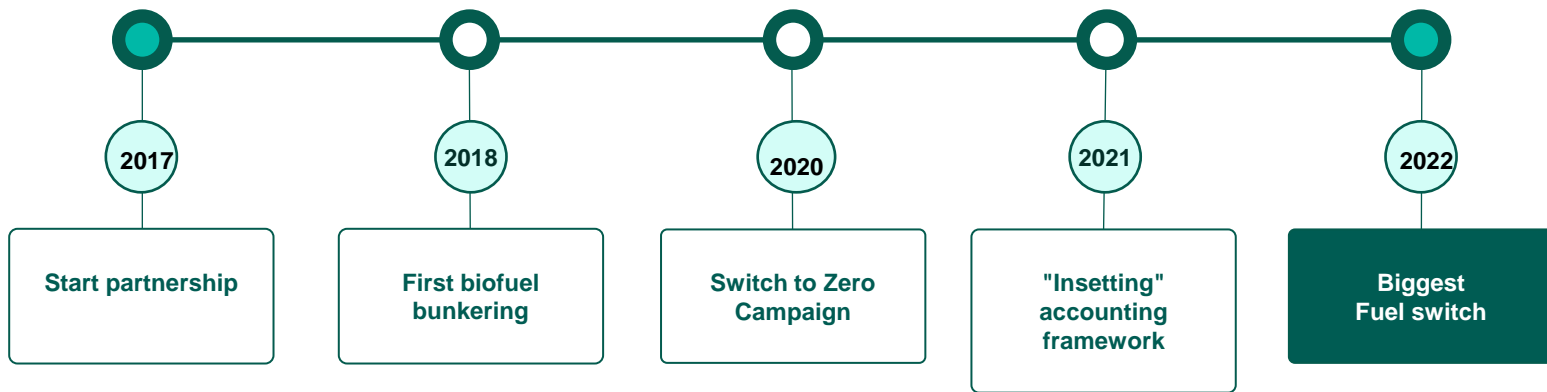


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1. **Welcome & Introduction**
2. **Sustainable Fuels – the key to accelerating decarbonization of ocean freight**
Kathrin Brost, Global Head of GoGreen,
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- ▶ 3. **Sustainable Fuels and Insetting – a perfect match**
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4. **Q&A & Wrap up**



DHL & GoodShipping milestones



Insetting: how does it work ?



1. Measure & Scope



2. Fuel Switch



3. Certification



One atmosphere

Only truly sustainable biofuels

SUSTAINABILITY PRINCIPLES

- Waste and residue based only
- No competition with food
- No direct or indirect land use change
- No deforestation or biodiversity loss
- No higher quality application possible
- Minimum of 75% CO₂-reduction
- No negative social or legal impacts

FLEXIBLE IN FEEDSTOCK QUALITY ACCEPTANCE



Fish production residues



Biofuel production residues



Pulp and paper residues



Animal processing residues



Cosmetics residues



Nut processing residues



Food processing residues

OUR SUSTAINABILITY BOARD



ANNE MARIT POST-MELBYE

Head of industry policy
Miljøstiftelsen ZERO



MARTIN JUNGINGER

Professor of
bio-based economy
Utrecht University



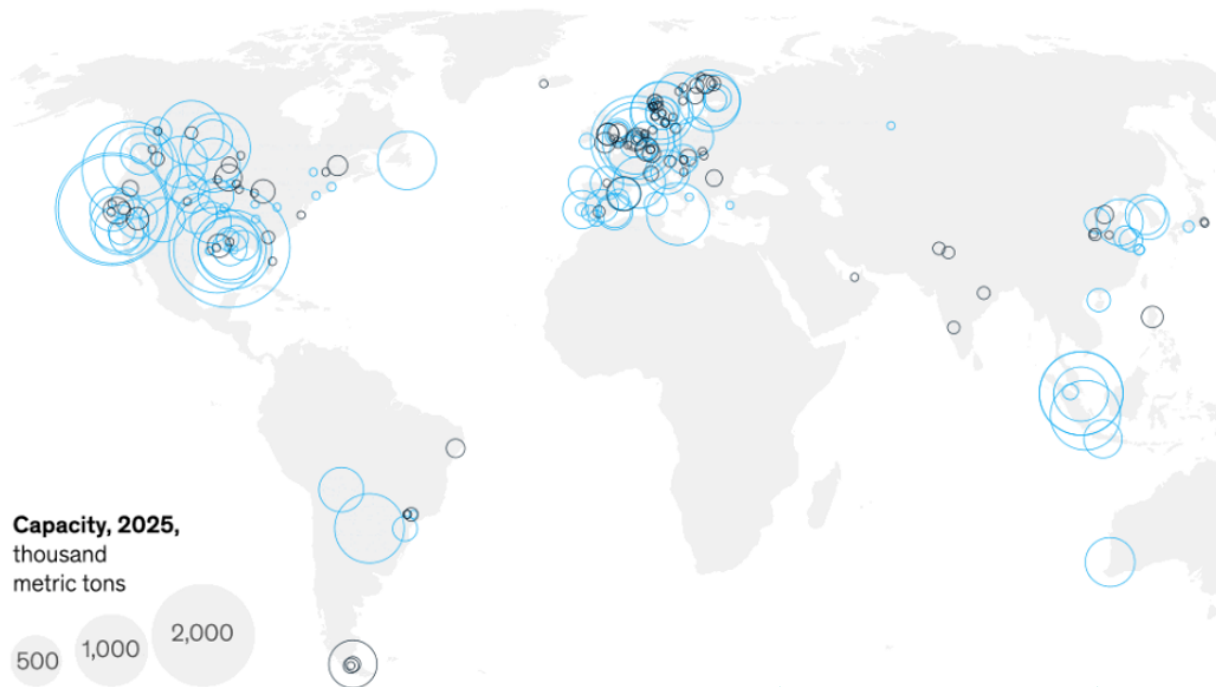
PATRICIA OSSEWEIJER

Professor of sustainability
TU Delft

Insetting empowers innovation & accelerated scaling

Announced investments in sustainable-fuel-production facilities by process type ¹

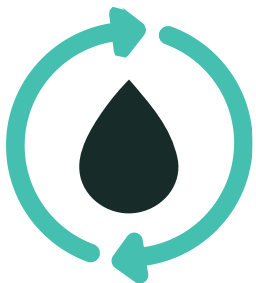
○ Hydrotreating ○ Other advanced technologies²



Research by Mc Kinsey suggests that investments in sustainable fuels are gaining momentum, with a projected capacity of **46 million metric tons expected by 2025**

Source: Mc Kinsey analysis "Charting the global energy landscape to 2050: Sustainable fuels." July 7, 2022

World's biggest sustainable marine fuel switch to date



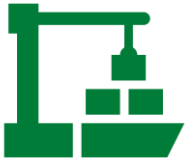


GoodShipping

better world



Key takeaways for Shippers



Sustainable Marine Fuels **are key to decarbonizing ocean freight** in the next 10 years



There is a **sufficient supply of Sustainable Marine Fuels**



You can decarbonize your LCL shipments (for free) and FCL shipments (at cost) **already today**

Q&A SESSION

If you have any further questions, contact your usual Account Manager or Customer Service Representative, or email us at GoGreen.DGF@dhl.com

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