

Clean Marine Fuels working group

Driven to advance the transition towards clean marine fuels for decarbonisation and air quality improvement

Content

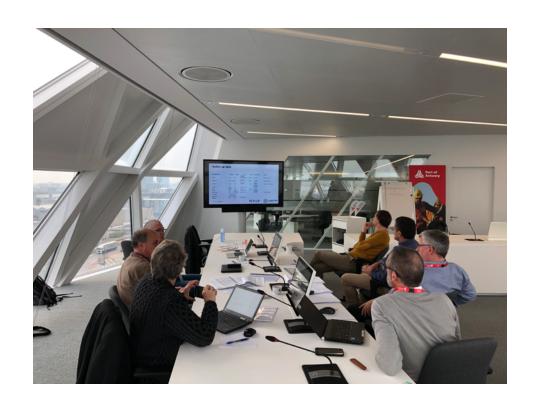
About the CMF working group

The challenge and the tools we provide

Planning the near future



Who we are, what we do



Empowering ports to facilitate, stimulate and regulate the supply of new clean marine fuels by providing expertise and guidance on safe and efficient bunker operations



Our goal

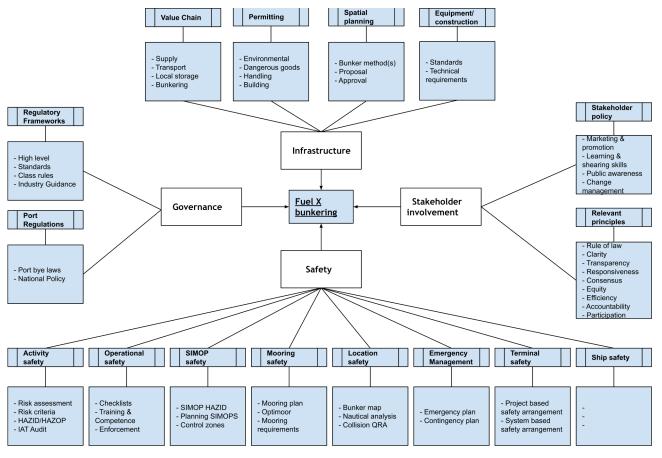
By 2030 the safe and efficient supply of new clean marine fuels in ports is to be common practice





The challenge

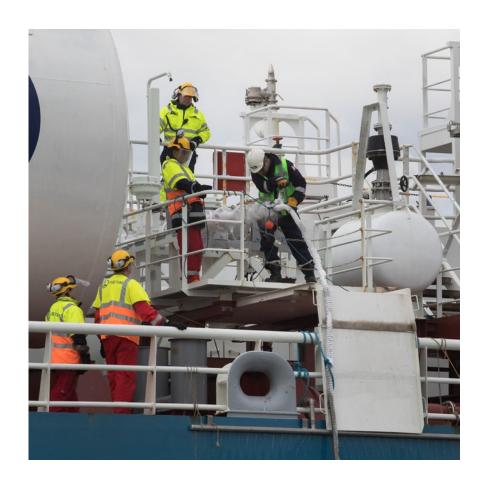
Ports have challenges in enabling the facilitation of new marine fuels



Source: Port Guidance Tool - draft version 0.6



CMF Support



Practical audit and guidance tools for new, clean marine fuels

An open, data-sharing information platform

Cooperation with other initiatives in the maritime industry



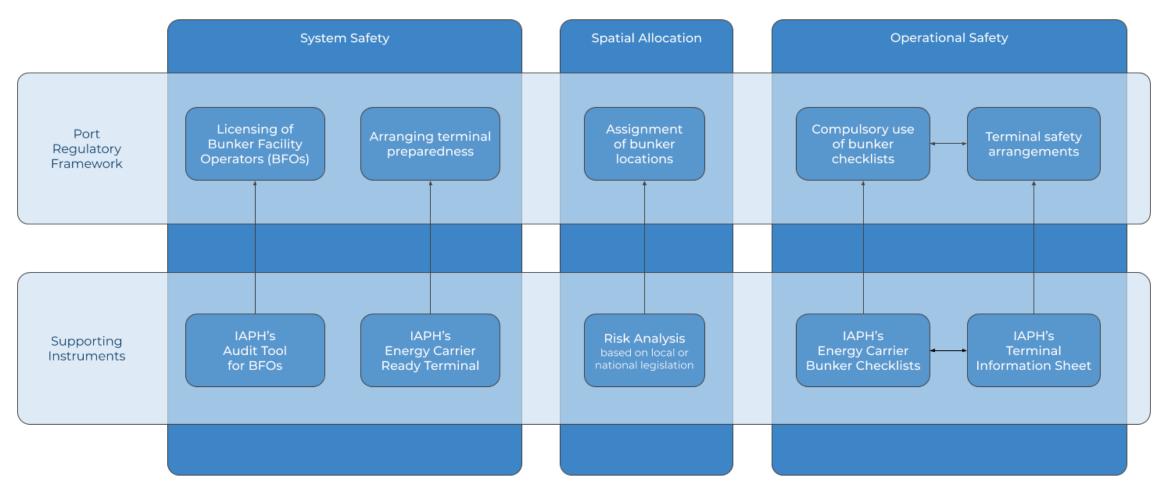
CMF Port Safety Management Framework

Harmonize system and operational safety for the ship - bunker facility interface

Allocate safe bunker locations

Prepare terminals



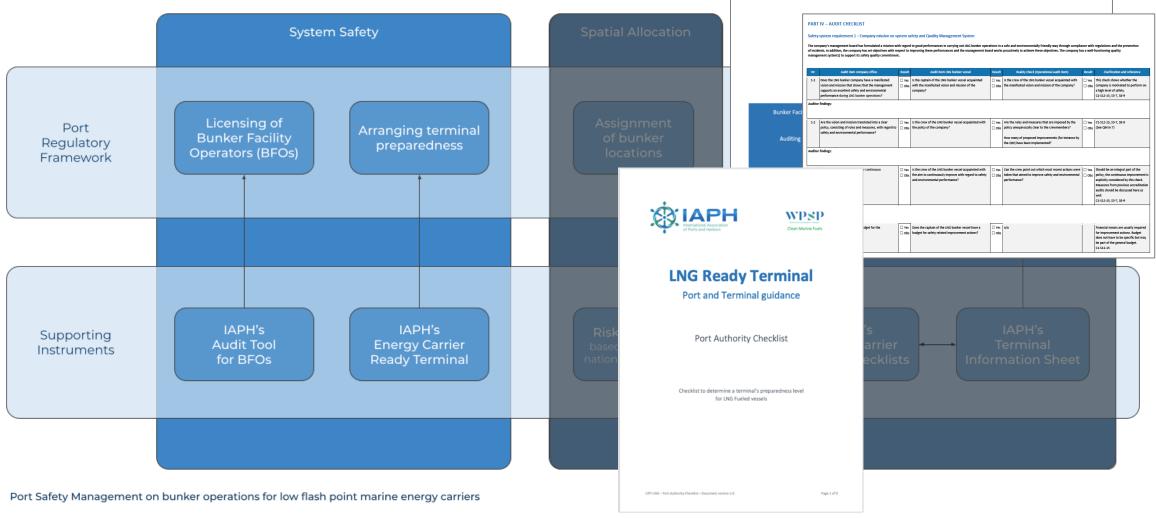


Port Safety Management on bunker operations for low flash point marine energy carriers

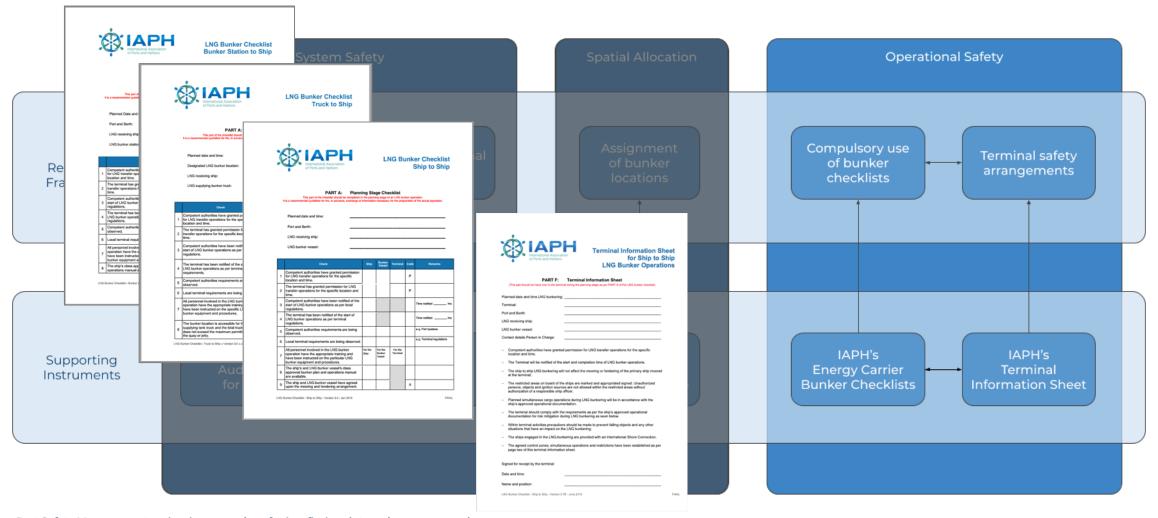




IAT-LNG audit checklist

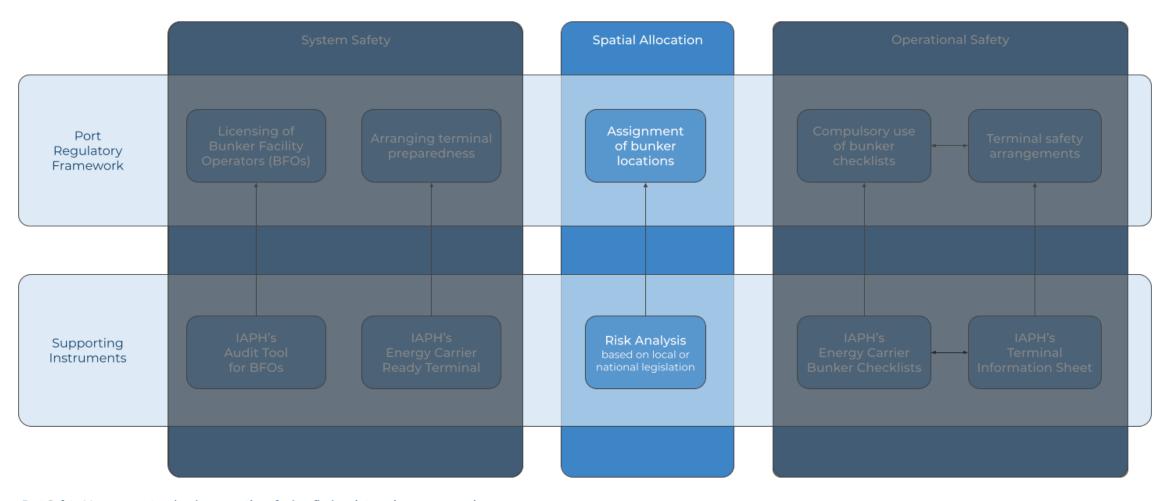






Port Safety Management on bunker operations for low flash point marine energy carriers



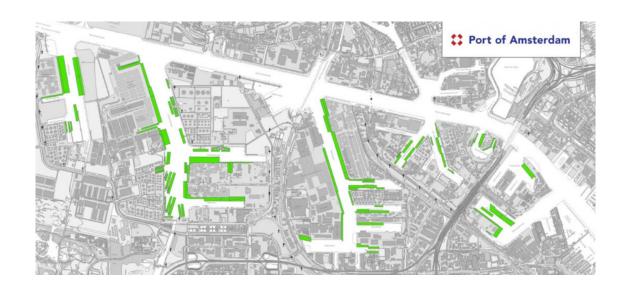


Port Safety Management on bunker operations for low flash point marine energy carriers



Spatial allocation

External Safety: Risks to the surrounding area when handling fuels (the use, storage, and transport of those fuels)





Available tools

SYSTEM SAFETY

Tool	Energy Carrier	Status
LNG BFO Audit Tool	LNG	Completed
LNG Ready Terminal Tool	LNG	Completed

OPERATIONAL SAFETY

Tool	Energy Carrier	Status
LNG checklist Truck to Ship	LNG	Completed
LNG checklist Ship to Ship	LNG	Completed
LNG checklist Ship to Ship Terminal Information Sheet	LNG	Completed
LNG checklist Bunker Station to Ship	LNG	Completed



In progress and planned

SYSTEM SAFETY

Tool	Energy Carrier	Status
Research on conversion of LNG BFO Audit Tool to a generic BFO Audit Tool for existing and new fuels	All	Started
Port Guidance Tool (Gap Analyses Tool)	All	Started
Research on conversion of LNG Ready Terminal Tool to a generic Fuel Ready Terminal Tool for existing and new fuels	All	Start 2021



In progress and planned

OPERATIONAL SAFETY

Tool	Energy Carrier	Status
Multiple Truck to Ship Cryogen checklist based on ISGOTT 6 format	LNG, LH2	Final draft
Multiple Truck to Ship Flammable and/or toxic liquid checklist based on ISGOTT 6 format	Methanol, other fuels with flashpoint < 55 C	First draft
Shore to Ship containerized energy carriers	Battery packs, Hydrogen racks	2021
Ship to Ship Cryogen checklist based on ISGOTT 6 format	LNG, LH2	Not started
Ship to Ship Flammable and/or toxic liquid checklist based on ISGOTT 6 format	Methanol, Other fuels with flashpoint < 55 C	Not started
Multiple Truck to Ship Ammonia checklist based on ISGOTT 6 format	Ammonia	> 2022
Ship to Ship Ammonia checklist based on ISGOTT 6 format	Ammonia	> 2022



Conclusion, references



Facilitating safe and efficient bunker operations for new marine fuels in ports is challenging

CMF provides tools to face the challenge

Cooperation within the maritime industry is essential

https://sustainableworldports.org/clean-marine-fuels peter.alkema@portofamsterdam.com



