

# Action Plan on Green Maritime Fuel Bunkering



Transport and Logistics Bureau  
The Government of the  
Hong Kong Special Administrative Region  
of the People's Republic of China



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# International Maritime Organization (IMO) 2023 Strategy on Reduction of Greenhouse Gas Emissions from Ships

- To work towards the goal of limiting global temperature increase to <1.5 degrees Celsius as set out in the Paris Agreement



- Expected to endorse a series of mid-term measures in 2025 (which will commence in 2027)
- HK is obliged to follow the goals of the IMO and keep abreast of the international trend of green shipping, in order to consolidate our positioning as an International Maritime Centre



# National 14th Five-Year Plan

- Sets corresponding targets in areas such as carbon peak and carbon neutrality
- The 14th Five-Year Plan Comprehensive Work Plan for Energy Conservation and Emission Reduction sets out ten key energy conservation and emission reduction projects, including those on the maritime industry
- The 14th Five-Year Development Plan for the Maritime System further sets out a series of strategies related to carbon peak and carbon neutrality for the maritime industry

A nighttime photograph of the Hong Kong skyline, showing illuminated skyscrapers and buildings reflected in the water. The image is partially obscured by a dark blue banner at the top and a light blue banner on the right side.

# Hong Kong's Green Port Initiatives

- 2015: Became the first port in Asia to mandate the switch to low-sulphur fuel for ocean-going vessels at berth
- 2019: Worked with Mainland China to reduce emissions from vessels, including the implementation of a domestic emission control area jointly with the **People's** Government of Guangdong Province
- 2023: The Policy Address announced the development of HK into a green maritime fuel bunkering centre
- February 2024: Commenced a feasibility study on providing green maritime fuel bunkering services, and subsequently proceed to formulate this Action Plan
- November 2024: Promulgate the Action Plan on Green Maritime Fuel Bunkering

# Definition of Green Maritime Fuels

- Fuels with low or even zero carbon emissions
- Produced from biomass and waste or chemically synthesised using renewable energy



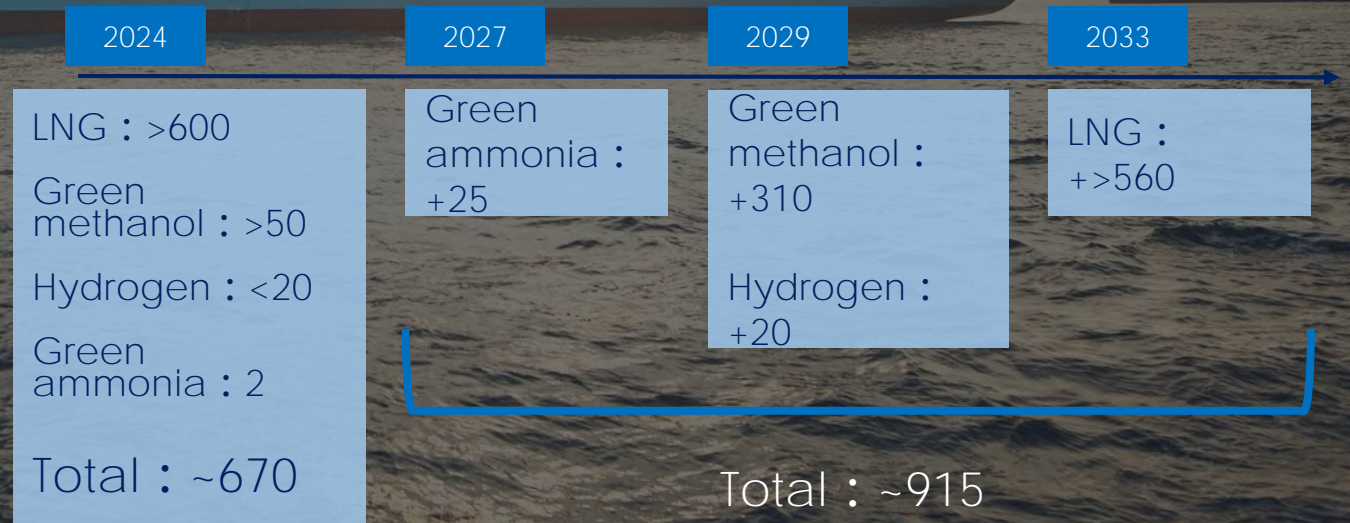
# Supply and Demand of Green Maritime Fuels

## Supply

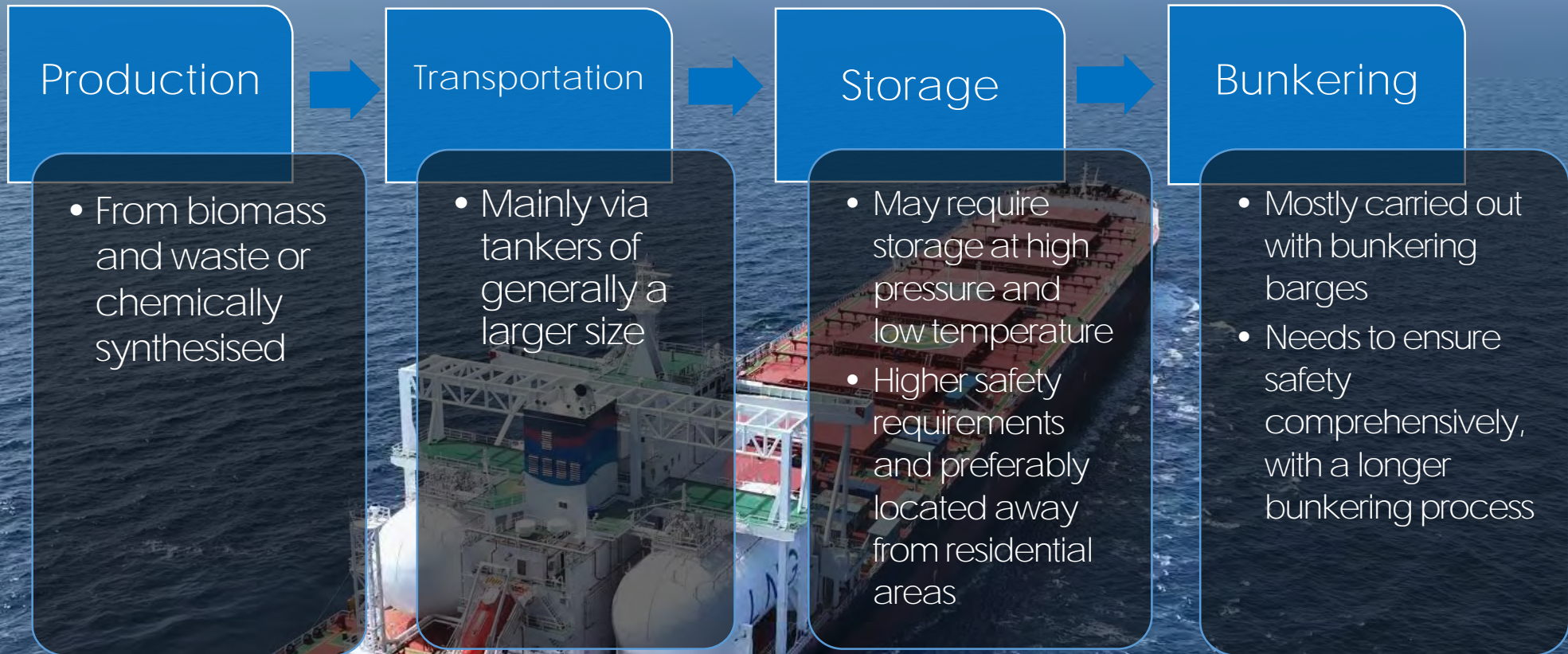
- Currently the supply of green maritime fuels is limited and unstable, with high price and an immature market
- Mainland China is a major producer of various types of green maritime fuels

## Demand

- Out of the 100 000 ocean-going vessels in the **world's** fleet, the number of green maritime fuel-powered vessels is currently very small (~1.4% in 2030), but the growth potential is high



# Green Maritime Fuel Bunkering



- Higher costs involved in retrofitting or ordering tankers, storage facilities and bunkering barges that meet the requirements
- May need to add pressurisation and refrigeration facilities to handle liquefied gaseous fuels

# Hong Kong's Current Status and Opportunities

- HK is one of the top ten bunkering centres in the world. About 5 000 ocean-going vessels visit HK annually, on average making four stopovers here throughout the year. 22.5% of the ocean-going vessels visited HK with the primary aim being bunkering
- Expect to bunker > 200,000 tonnes of green maritime fuels and provide bunkering services for >60 times to ocean-going vessels powered by green maritime fuels such as LNG or green methanol by 2030
- HK has an advantage in importing green maritime fuels from Mainland China and establishing a stable supply chain, and potentially facilitating the export of Mainland-produced green maritime fuels
- HK may even become an international trading centre for green maritime fuels on the back of its mature financial system, good business environment and reputation, and a regulatory regime in line with international standards



# Action Targets



To follow the emission reduction checkpoints set out by the IMO

2026

To reduce carbon emissions from HK-registered ships by at least 11%

2026

55% of the diesel-fuelled vessels in the Government fleet to switch to using green maritime fuels

2030

To reduce carbon emissions from the Kwai Tsing Container Terminals by 30%

2030

7% of the HK-registered ships to take up green maritime fuels

# Five Strategies and Ten Actions

## Strategy 1 Green Fuel

Action (1):  
To adopt a multi-fuel strategy for a zero carbon emission future

Action (2):  
To catalyse the green maritime fuel supply chain and trade

## Strategy 2 Green Port

Action (3):  
To develop a green maritime fuel bunkering ecosystem

Action (4):  
To simplify the approval process for green maritime fuel bunkering

Action (5):  
To reduce carbon emissions from port operations

Action (6):  
To holistically build a green Government fleet

## Strategy 3 Green Incentives

Action (7):  
To subsidise green transformation of vessels

Action (8):  
To develop green-friendly arrangements for usage of port facilities

## Strategy 4 Green Collaboration

Action (9):  
To foster regional cooperation in relation to green maritime fuel bunkering

## Strategy 5 Green Expertise

Action (10):  
To nurture talents in relation to green maritime fuels

# (1) To adopt a multi-fuel strategy for a zero carbon emission future

## Bio-diesel

- 2024: Encourage the trade to provide and use bio-diesel

## LNG

- 2024: Complete drafting CoP on LNG bunkering
- 2025: Conduct ship-to-ship bunkering within first half of the year

## Green methanol

- 2025: Complete drafting COP on green methanol bunkering

## Hydrogen, green ammonia and other potential new fuels

- 2025: Commence setting the future development directions for hydrogen and green ammonia bunkering in HK

## (2) To catalyse the green maritime fuel supply chain and trade



- 2025: Sign memoranda of understanding with stakeholders who are interested and have the capabilities to engage in the development of green maritime fuel bunkering in HK and provide a collaborative platform and other facilitation measures
- Establish an effective supply chain and trading channel to ensure the stable supply of high quality green maritime fuels and the organic development of a relevant trading market

- 2025: Establish the Green Maritime Fuel Bunkering Incentive Scheme to encourage pioneer enterprises to start green maritime fuel bunkering businesses in HK



# (3) To develop a green maritime fuel bunkering ecosystem



## Production

- Mainland China is a major production base for multiple green maritime fuels
- HK, with strong support of the Motherland, has an advantage in importing green maritime fuels from Mainland China and establishing a stable supply chain



## Storage

- Use the offshore LNG terminal to provide LNG for bunkering purpose
- 2025: Invite the industry to submit expressions of interest in developing methanol storage facilities on a port back-up site in Tsing Yi South
- Provide administrative assistance to companies retrofitting existing oil storage tanks or developing new storage facilities



## Anchorage and sheltered spaces for bunkering barges

- Rezone the anchorages in the Central Waters and the area south of Lamma Island to facilitate the anchorage of green maritime fuel bunkering barges
- 2026: Complete the relevant legislative exercise



## Regulatory framework

- Enacted the Shipping Legislation (Use of Fuels and Miscellaneous Amendments) Ordinance 2024
- 2024: Draft CoP on LNG bunkering
- 2025: Draft CoP on green methanol bunkering

## (4) To simplify the approval process for green maritime fuel bunkering

- 2024: Marine Department to set up a dedicated team to provide one-stop services for companies interested in setting up green shipping-related businesses in HK
- Increase the efficiency and transparency of approval procedures in relation to green maritime fuel bunkering and hence facilitate the development of bunkering business

## (5) To reduce emissions from port operations

- Support port operators in reducing carbon emissions from port operations to prepare HK for participation in green shipping corridors
- Reduce carbon emissions of the Kwai Tsing Container Terminals by 30% within 2030 and achieve carbon neutrality by 2050

## (6) To holistically build a green Government fleet

- 2024: Marine Department to set up an inter-departmental working group to explore the technological developments with relevant departments regularly
- 2026: Explore amending procurement policy to drive the use of bio-diesel by suitable Government vessels and replace them with green maritime fuel-powered ones when decommissioned
- 2027: Marine Department to order the first batch of green methanol-powered vessels and launch the pilot scheme for Government fleet to start using green methanol-powered vessels

## (7) To subsidise green transformation of vessels

- EEB has already set up the New Energy Transport Fund that subsidises trials of green innovations, including new energy ships
- 2025: Announce details of reducing the port dues and registration fees for green maritime fuel-powered vessels
- Explore exempting imported green methanol for bunkering purpose from tax
- As a type of commodity trade, the trade of green maritime fuels will benefit from relevant measures in the 2024 Policy Address

## (8) To develop green-friendly arrangements for usage of port facilities

- 2025: Come up with and announce the arrangement for priority usage of Hong Kong port facilities by green maritime fuel-powered vessels
- Marine Department to step up promotion on and encourage usage of green maritime fuels and **HK's** green-friendly port arrangements to companies of HK-registered ships

## (9) To foster regional cooperation in relation to green maritime fuel bunkering

- Collaborate within GBA and with other provinces in Mainland China
- Drive the conclusion of cooperation agreement between industry organisations in Mainland China and Hong Kong over fuel supply, transport and distribution, bunkering operation, technical exchange and manpower training
- 2026: Identify at least one suitable port for developing a green shipping corridor with Hong Kong and kick-start the relevant discussion
- Actively consider joining green shipping corridors between other ports

## (10) To nurture talents in relation to green maritime fuels

- 2025: Expand the Maritime and Aviation Training Fund to cover green maritime fuel-related courses offered in Mainland China and beyond
- 2026: Launch new subsidy schemes to provide more suitable training and exchange opportunities to practitioners and train 50 talents in relation to green maritime fuels
- Continue to provide facilitation for relevant talents to come to HK through different schemes



# Conclusion

Set clear action targets and work in collaboration with the industry, develop HK into the preferred **High-quality Green Maritime Fuel Bunkering Centre** in the region, Enhance HK as a **Green-friendly Port** and Establish an organic and symbiotic **Green Fuel Trading Centre**

# HONG KONG MARITIME WEEK 2024

香港海運週 11.17-23



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you

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