## 46th PMTA 'Charting a Sustainable Course: Pioneering Green Practices for Pacific Ports and Trade'

Ports Australia: Assisting the ports sector's contribution to the development of a sustainable and greener maritime supply chain



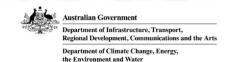




## **Transport and Infrastructure Net Zero Consultation** Roadmap

#### Timeline of transport decarbonisation technology pathways

		To 2030	2030 – 2040	2040 – 2050
Light vehicles	<b>(3</b> )	Battery electric passenger vehicles mass market adoption	Expansion of next-generation passenger and advancements for light commercial vehicles	Battery electric available for all light vehicle tasks
		Hydrogen fuel cell demonstration	Hydrogen fuel cell adoption	Hydrogen fuel cell where electrification is not feasible
eavy ehicles	<b>(4)</b>	Battery electric and hydrogen fuel cell demonstration	Battery electric and hydrogen fuel cell adoption accelerates	Battery electric and hydrogen fuel cell mass market adoption and efficiency improvements
	<b>(P)</b>	LCLFs blended in existing fleet use	LCLFs support long distance, hard to electrify cases to transition	LCLFs where battery electric and
2R-2		Synthetic LCLF R&D		hydrogen fuel cell are still advancing / not feasible
Rail		Passenger rail electrification		
	<b>(4)</b>	Hybrid and battery electric freight rail deployed	Hybrid, battery electric and hydrogen fuel efficiency improvements	cell mass market adoption and
		Hydrogen fuel cell demonstration		
n°A	<b>(P)</b>	LCLFs blended in existing fleet use	LCLFs support long distance, hard to electrify cases to transition	LCLFs where battery electric and
0		Synthetic LCLF R&D		hydrogen fuel cell are still advancing / not feasible
aritime	<b>Ø</b>	Battery electric and hybrid propulsion demonstrated and deployed for short range vessels	Short range battery electric vessels deployed	Short range battery electric vessels adoption and efficiency improvements
+	(P)	LCLFs blended in existing fleet use	LCLFs deployed for long range vessels	LCLFs for majority of long range vessels
		Synthetic LCLF R&D	Continued synthetic LCLF investment	
viation	<b></b>	Battery electric and hydrogen fuel cell development	Battery electric and hydrogen fuel cell for short range flights demonstration	Battery electric and hydrogen fuel cell for short range flights deployed
	(P)	LCLFs blended in existing fleet use	LCLFs for short, medium and long haul flights deployed in the market	LCLFs for majority of medium and long haul flights
	0	Synthetic LCLF R&D	Continued synthetic LCLF investment	
ransport nfrastructure		Domestic <b>low and zero carbon concrete, alumina</b> and <b>steel</b> industries emerging – used in transport infrastructure	Domestic <b>low and zero carbon</b> <b>concrete</b> and <b>steel</b> industries developing	Low and zero carbon concrete and stee is available for infrastructure projects
nabling		LCLF optionality in existing fleets	LCLF used by transport modes that have lim	ited electrification opportunities
systems	(9)	LCLF certification stimulates further demand (aviation, heavy vehicles and maritime)		
(S)	$\otimes$	Optimisation of intermodal infrastructure developing	Increased low and zero carbon options to to	ransport goods
	0	Continued investment in active and public transport infrastructure	Sustained investment and increasing use of public transport	



### **Low Carbon Liquid Fuels**

A Future Made in Australia: Unlocking Australia's low carbon liquid fuel opportunity

**Consultation Paper** 



## **Maritime Emissions Reduction National Action Plan (MERNAP)**



**MERNAP Issues Paper: Energy Sources and Technologies** 

December 2023



#### **Review of the National Freight** and Supply Chain Strategy

Australian Government

**Review Report** 

May 2024







## **Transport and Infrastructure Net Zero Consultation Roadmap**

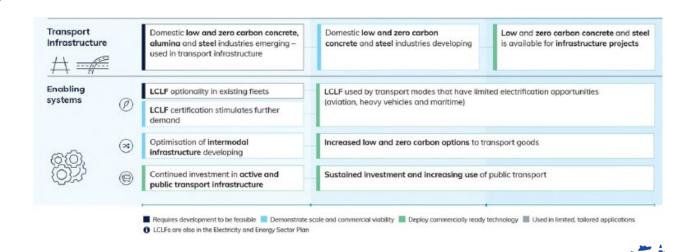
## Timeline of maritime decarbonisation technology pathways



The Australian Government legislated to reduce national emissions by 43% on 2005 levels by 2030 and net zero by 2050.

The Consultation Roadmap seeks feedback on potential pathways for transport and transport infrastructure to support economy-wide net zero; and actions or policies the Australian Government will need to take to support these potential pathways.

It will inform final Transport and Infrastructure Net Zero Roadmap and Action Plan to be released later in 2024.



# Maritime Emissions Reduction National Action Plan (MERNAP)



In developing a National Transport and Infrastructure Net Zero Roadmap and Action Plan, the Australian Government is working closely with the maritime industry to develop a Maritime Emissions Reduction National Action Plan (MERNAP).

The MERNAP will set the strategic direction and recommend actions to decarbonise our maritime transport sector, as well as contribute towards reducing international shipping emissions.

Federal agencies are working on the final MERNAP framework, to be delivered to the Federal Government this year.

The framework is informed by stakeholder responses to four Issue Papers:

- Regulation and Standards
- Energy Sources and Technologies
- > Skills and Training
- Green Shipping Corridors and Partnerships



## Getting MERNAP and Net Zero right

**Align with International Direction -** Needs to be consistent with the international direction and standards related to maritime decarbonisation and alternative fuels, including the IMO.

**Regulatory Certainty is Necessary** - To facilitate maritime decarbonisation investment led by the market, not dictating or mandating specific initiatives, fuels or mechanisms.

**Alternative Fuel Supply Chains Need to Be Understood -** Map the supply chain of each feasible alternative fuel to understand the extent each is viable for shipping and to understand the opportunities for production and supply in Australia and the region - enabling measured and effective investment.

**Mechanisms to Support Investment in Decarbonisation -** Government financial assurance to encourage industries to invest in alternative fuels and maritime decarbonisation initiatives, where the market does not yet exist. Direct measures including government underwriting initial offtake agreements for alternative fuels and tax incentives for decarbonisation initiatives.

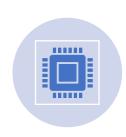




## Unlawful Interference, Cybersecurity Reporting and Natural Hazards



The Government is looking at expanding what is unlawful interference and requiring reporting within specific timeframes of significant cyber security threats.



Distinct approaches need to be taken between physical and cyber infrastructure to reflect dynamics of security threats and risk mitigation.



Outsourced IT services is an industry standard; making direct oversight and monitoring problematic.



Need to respect the powers of state and territorial police forces to act on threats to safety, including protests, blockades, cyberattacks and terrorism.

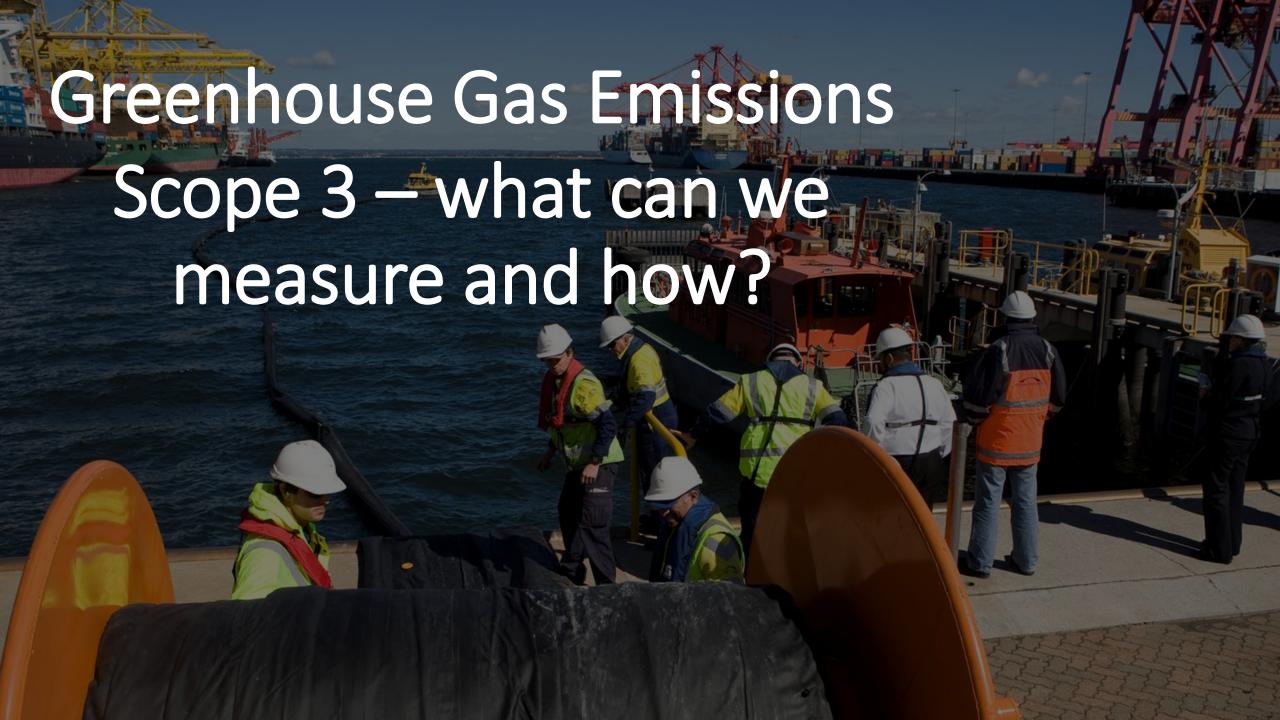


In preparing for natural hazards, industry already complies with state/territory emergency management plans and regulations. They have contingency plans, business continuity plans and conduct emergency exercises.



Replicating information across multiple documents without a clear need will risk updates not being reflected in all documents.





# The path to measuring GHG Footprint





## GHG Scope 3 emissions

## Key underpinning frameworks for Scope 3 guidance

- National Greenhouse and Energy Reporting (NGER) Scheme is basis of all regulatory-based mandatory and voluntary Scope 1 and Scope 2 GHG reporting in Australia
- GHG Protocol is foundational, global standardised framework for Scope 1, 2 and 3 GHG emissions measurement
- Ports may choose or be required to align with additional standards.

Ports may not need to report under NGER but could do so voluntarily, or use NGER measurement guidance for their own emissions estimation purposes.



## Upstream and Downstream Scope 3 Emissions

Purchased goods and services	Upstream emissions of production of goods used by port
Capital goods	Embodied emissions in infrastructure builds, provided by the contractor and suppliers
Fuel and energy related activities (not inc in Scope 1 or 2)	Upstream emissions of fuel or electricity used by port
Upstream transportation and distribution	Upstream transportation of goods (eg equipment) purchased by port
Waste generated in operations	Emissions from transport and treatment of waste, and fugitive emissions from waste itself
<b>Employee commuting &amp; Business travel</b>	Employee commutes to and from port and transport for business related activities
Upstream & Downstream leased assets	All tenant emissions included in downstream
Downstream transport and distribution	Transport of goods/services produced or sold by port
Processing of sold products	Processing of any goods/services produced or sold by port
Use of sold products	Use of any goods/services produced or sold by port
End-of-life treatment of sold products	End-of-life treatment of any goods/services produced or sold by port
Franchises and Investments	



## **Maritime Noise**

As ports become larger, busier, more complex, and more widespread, port operators, authorities, managers and regulatory authorities are increasingly involved with managing the port area and its interface with the local community.

Ports are also subject to 'community encroachment' with residential development in areas close to port lands.

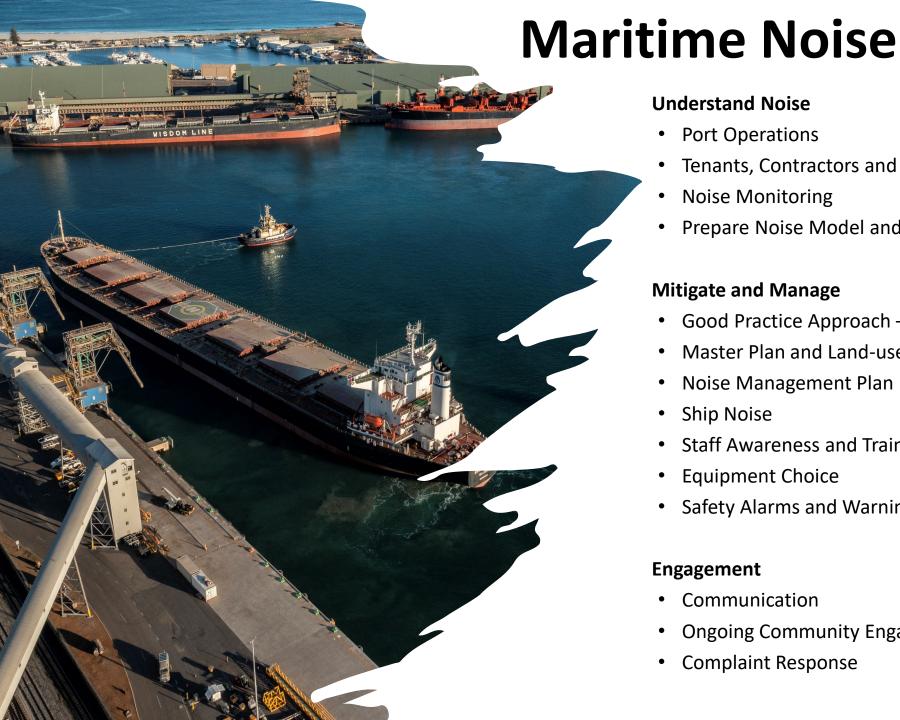
There is little guidance on good practice for port authorities, tenants, and customers when managing noise.

Ports Australia has developed guidance for large commercial ports in Australia and New Zealand which includes frameworks for noise management at ports.

#### **Australian Government Review of Underwater Noise Guidelines**

The Department of Climate Change, Energy, the Environment and Water is working on draft National Anthropogenic Underwater Noise Guidelines, Technical Background Report, and EPBC Act Policy Statement 2.1. An expert noise working group is facilitating input so it is fit for purpose and sets key approaches to manage impacts to protected marine species from anthropogenic underwater noise.





#### **Understand Noise**

- Port Operations
- Tenants, Contractors and other port users
- **Noise Monitoring**
- Prepare Noise Model and Contour Maps

## Mitigate and Manage

- Good Practice Approach NEPTUNES / NOMEPORTS, etc
- Master Plan and Land-use Plans for Port and Surrounding Lands
- Noise Management Plan
- Ship Noise
- Staff Awareness and Training
- **Equipment Choice**
- Safety Alarms and Warning Signals

## **Engagement**

- Communication
- **Ongoing Community Engagement**
- **Complaint Response**

14:00	COACH TRANSPORT FROM AMC TO HOBART
TUESE	DAY 29 OCTOBER
13:00	ANNUAL GENERAL MEETING (members only)
13:30	GENERAL MEETING (members only)
15:00	HOBART PORTTOUR
17:00	REGISTRATION Hotel Grand Chancellor
18:00	WELCOME RECEPTION IXL Tasmanian Art Gallery

MONDAY 28 OCTOBER

11:00 AUSTRALIAN MARITIME COLLEGE TOUR, LAUNCESTON

WEDNESDAY 30 OCTOBER			
08:00	REGISTRATION Hotel Grand Chancellor		
08:30	WELCOME TO DELEGATES AND OPENING		
300000000	WELCOME TO COUNTRY		
08:40	OPENING ADDRESS: GOVERNMENT INSIGHTS		
INTERNATIONAL MARITIME LANDSCAPE Chair: Mike Gallacher, Ports Australia CEO			
09:00	Jens Meier IAPH President and Hamburg CEO		
40305000	Patrick Verhoeven IAPH Director		
10:15	Morning Tea		
REGIONAL	COLLABORATION FOR SHARED SUCCESS Chair: Mike Gallacher, Ports Australia CEO		
10:45	Graeme Sumner Lyttleton Ports Corporation		
100010000	Hon. Seveniini Toumo'ua Minister for Infrastructure, Kingdom of Tonga IMO Pacific Nations Office		
FUTURE 0	F PORT GOVERNANCE: TRENDS & STRATEGIES FOR TOMORROW		
12:00	Simon Mitchell AICD		
	Marcus John TT Club		
	Speaker TBA Secolve		
	Professor Nick Bartner Griffith University		
13:00	LUNCH		
GREEN SH	IIPPING AND DECARBONISATION Chair: Phil Hollidey, CEO, Port Authority of NSW		
13:45	Rashpal Bhatti BHP Vice President Maritime and Supply Chain Excellence		
15:00	AFTERNOON TEA		
ECONOMIC & GEOPOLITICAL LANDSCAPE: PAST, PRESENT & FUTURE Saul Cannon, Port of Melbourne CEO			
15:15	PANEL SESSION		
	Merriden Varrall KPMG Geopolitics Partner David Woods DFAT Chief Economist		
16:45	CONFERENCE DAY 1 CLOSE		
	GALA DINNER		
18:30	Glen Albyn Estate		



THURSDAY 31 OCTOBER					
08:50	INTRODUCTION DAY 2				
09:00	DAY 2 OPENING ADDRESS - PERSPECTIVES FROM THE OPPOSITION Senator the Hon Bridget McKenzie				
MAXIMISING AUSTRALIA'S SUPPLY CHAIN EFFICIENCY					
09:30	Christine Holgate Team Global Express CEO				
	Shane Walden ANL CEO and Shipping Australia Director				
	Wayne Johnson ARTC CEO and Managing Director				
10.30	MORNING TEA				
FUTURE E	NERGY & PORTS Chair: Sam McSkimming, Pilbara Ports				
12:00	LUNCH				
BEYOND ON THE HORIZON: OFFSHORE WIND Chair: TBA					
13:00	Malcolm Wise Australian Maritime College Principal				
	TBA Ramboll				
14:00	CONFERENCE CLOSE				
VISIT PORTSAUSTRALIA.COM.AU FOR THE LATEST PROGRAM UPDATES					





# Ports Australia's Port Operations Committee Tues 10 – Wed 11 September 2024

Starts 9am on 10 Sept with the first session focusing on responses to lithium battery fires onboard and port side

#### Panel:

State fire experts, Wilhelmsen, TT Club, Australian Maritime Safety Authority, Australian Transport Safety Bureau and others.

<u>Venue</u> Voco Brisbane City Centre Hotel, Brisbane City QLD Full agenda details will be available shortly



# Thank you

