



ASIAN INFRASTRUCTURE  
INVESTMENT BANK

# Emissions from the Maritime Sector in the Asia-Pacific Region and Future Pathway

*Multilateral Cooperation Center for  
Development Finance*

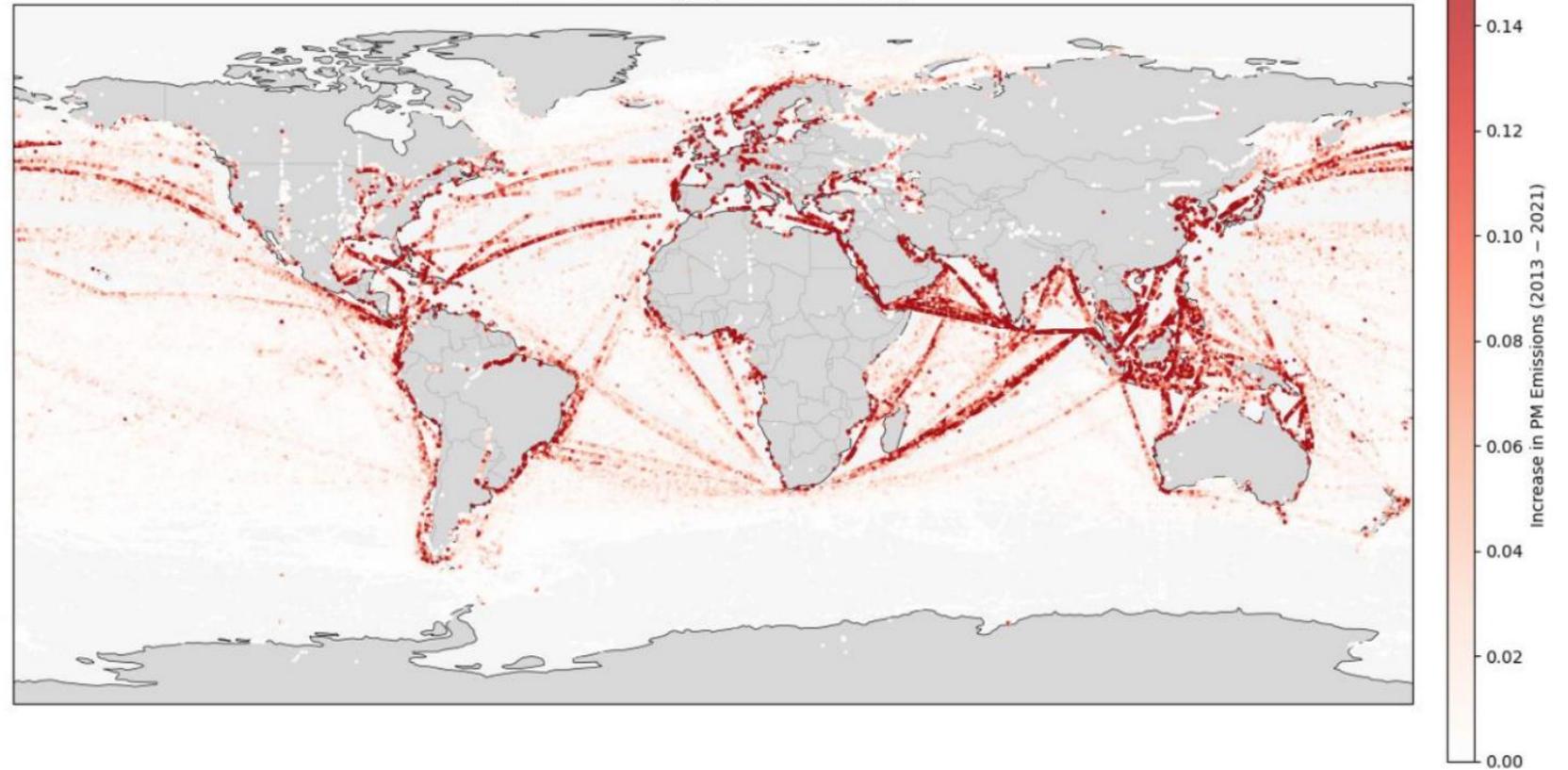
Connectivity Investment Conference  
on Green and Efficient Port

*December 5, 2025*



# 20% Increase International Shipping Emissions

Increase in Shipping Emissions: PM (2013 vs. 2021)

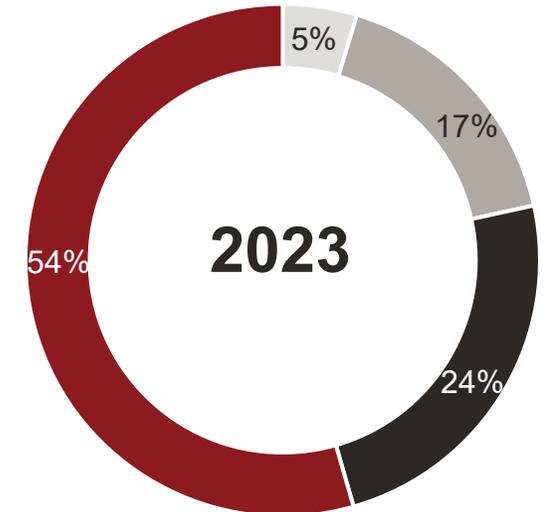
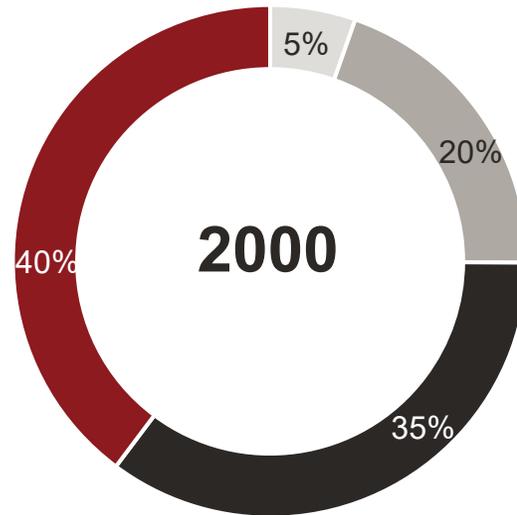


Asian Transport Observatory (ATO) based on data from Wen, Y., Xiaotong, W., Tingkun, H., Huan, L., Zhenyu, L., & Kebin, H.; "Global Shipping Emissions for the Years 2013 and 2016-2021"; June 21, 2024; ([link](#)) 2

# Asia-Pacific

## Growing Maritime Relevance

Maritime Trade: Percentage per Region



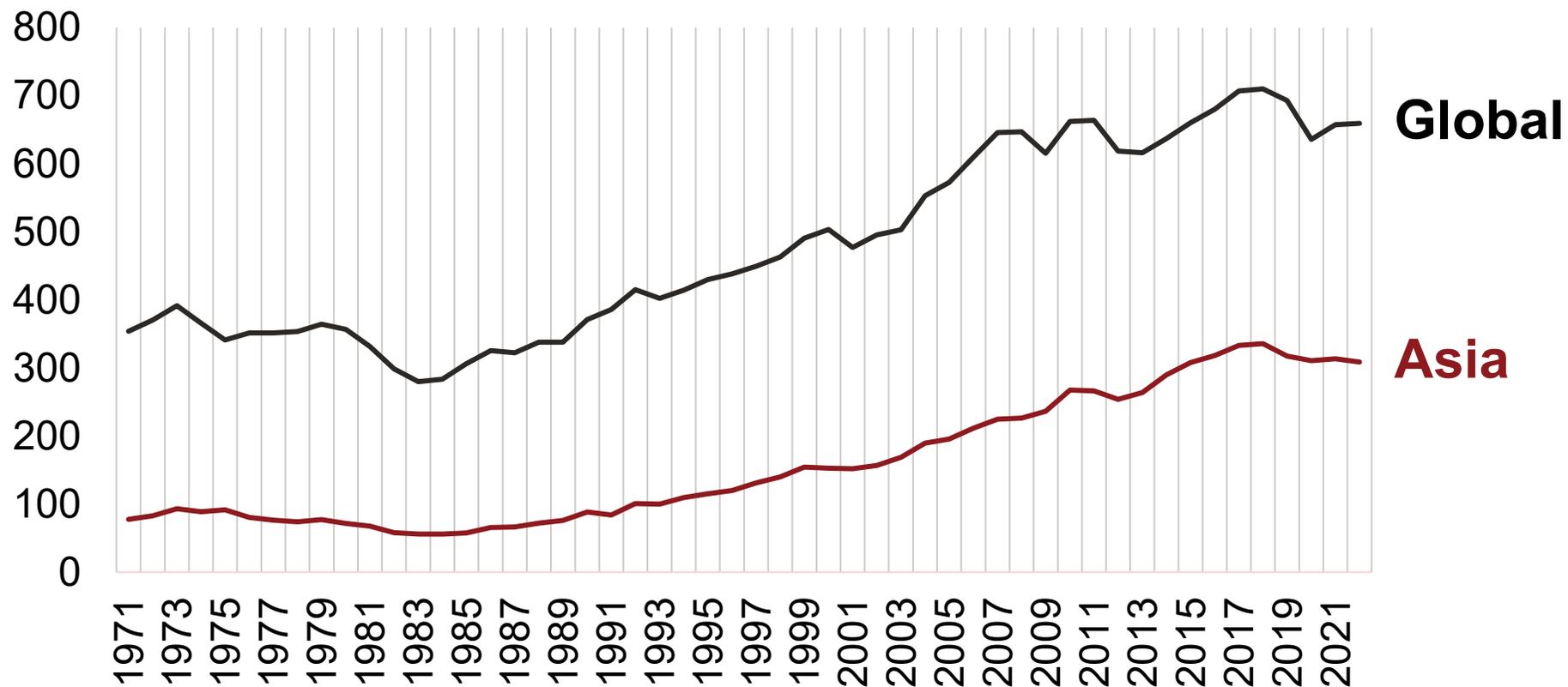
■ Asia-Pacific ■ Americas ■ Europe ■ Africa

ATO based on data from the United Nations Trade and Development (UNCTAD);  
“Liner Shipping Connectivity Index”; September 30 2025; ([link](#))

# Asia-Pacific

## Increasing Sea Transport Emissions

CO2 Emissions from **International** Marine Bunkers (Mt)

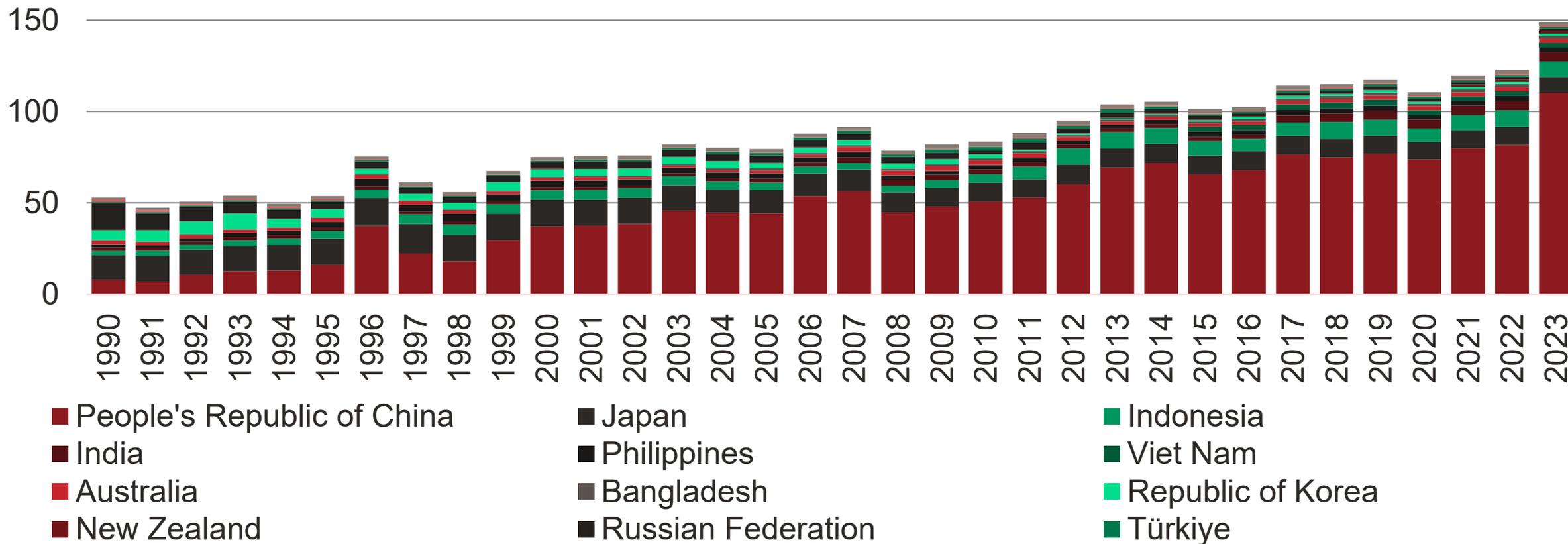


ATO based on data from the International Energy Agency;  
"GHG Emissions of All World Countries"; 2024; ([link](#))

# Asia-Pacific

# Increasing Sea Transport Emissions

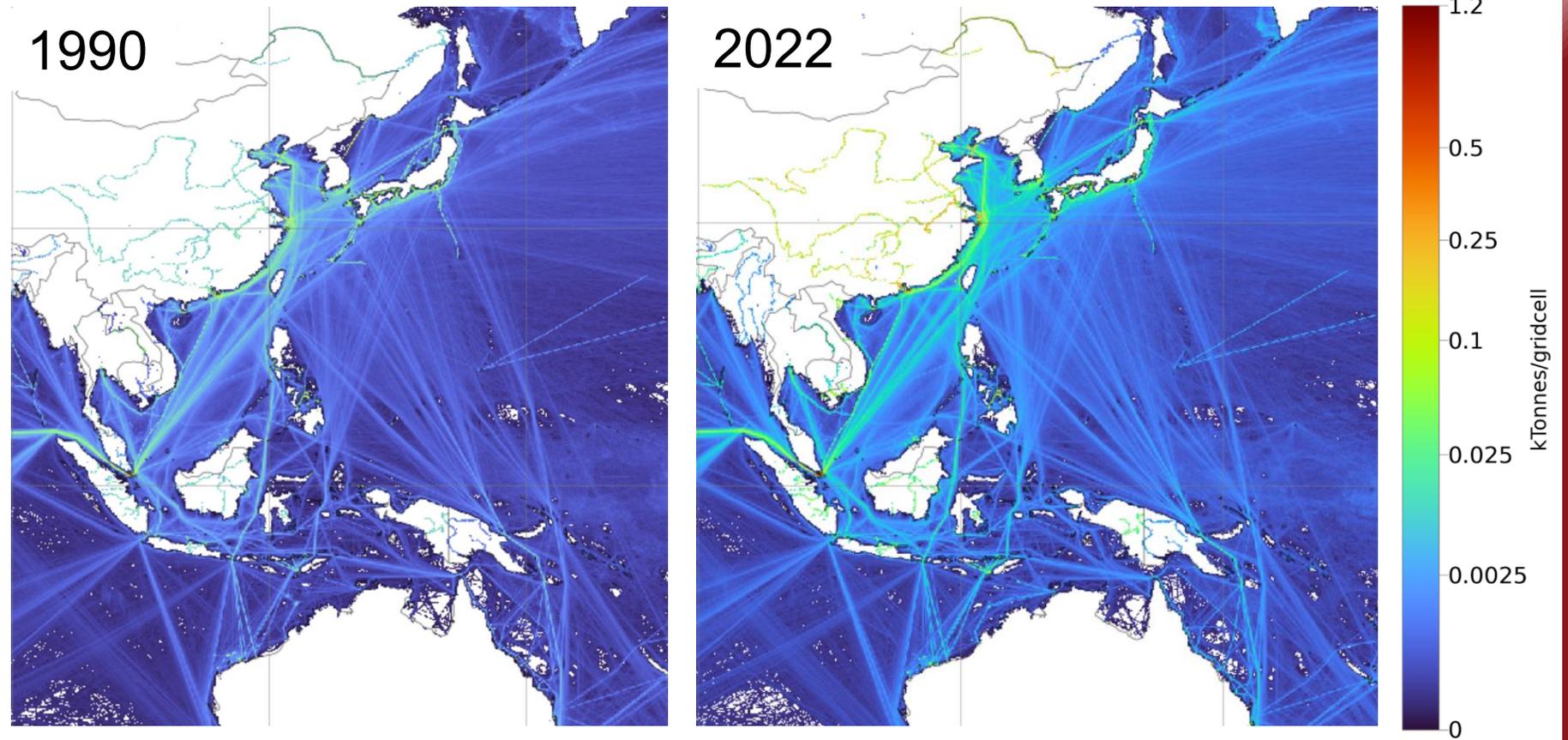
CO2 Emissions from **Domestic** Shipping (Mt)



ATO based on data from the International Energy Agency; "GHG Emissions of All World Countries"; 2024; [link](#) 5

# Asia-Pacific Increasing Sea Transport Emissions

## PM10 Emissions from Shipping

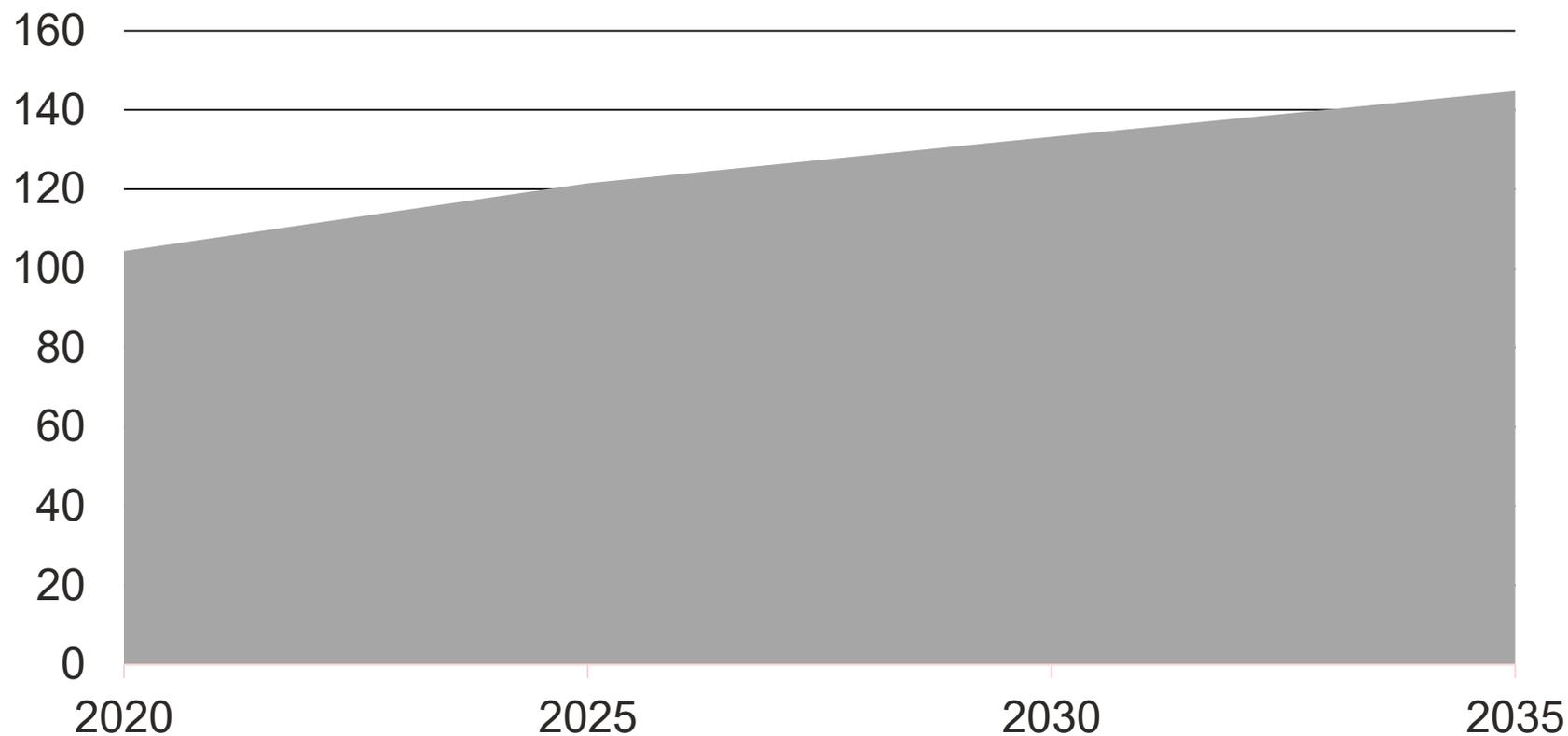


European Commission; "Emissions Database for Global Atmospheric Research (EDGAR) v.8.1 – Air and Toxic Pollutants – Shipping Sector"; ([link](#))

# Asia-Pacific

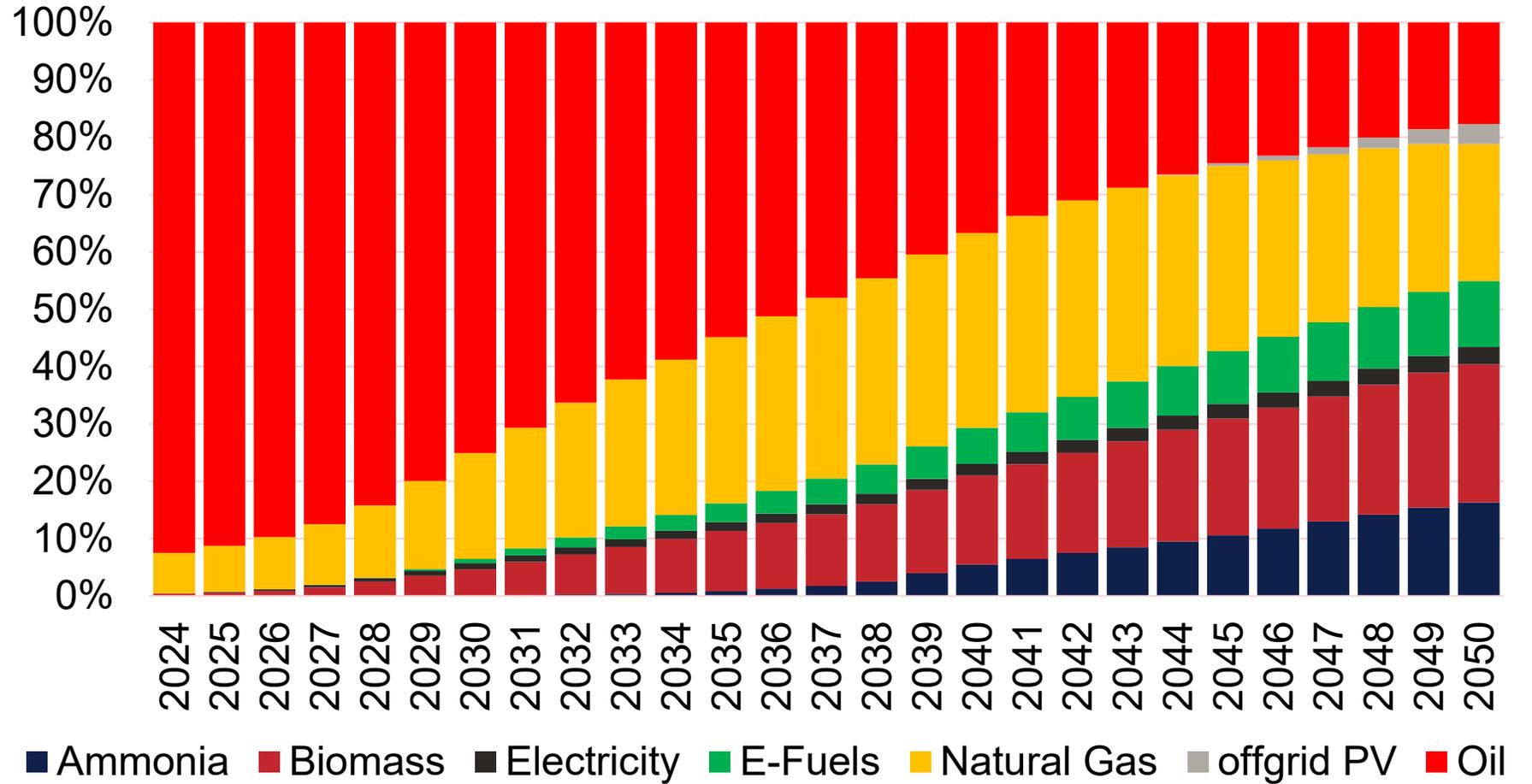
## Increasing Sea Transport Emissions

Forecasted CO2 Emissions from Domestic Shipping (Mt)



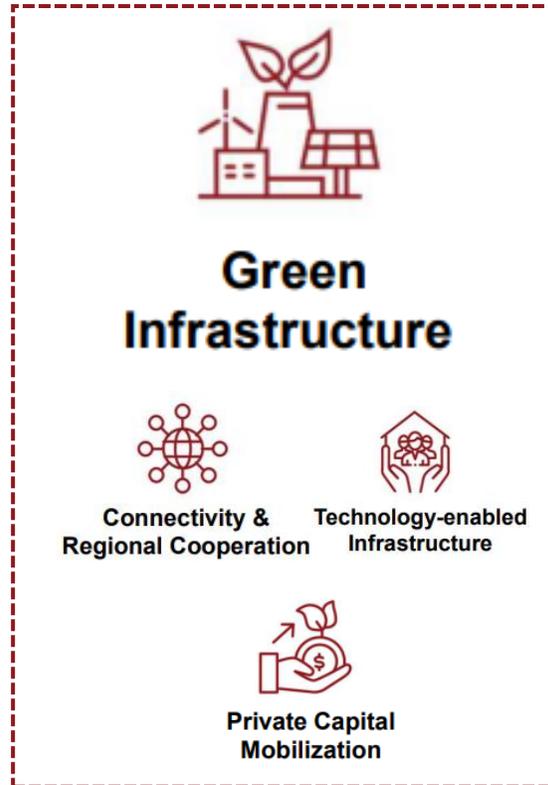
ATO based on data from the International Institute for Applied Systems Analysis; GAINS Model Online — Greenhouse Gas — Air Pollution Interactions and Synergies; [link](#)

# Asia-Pacific Maritime Energy Transition

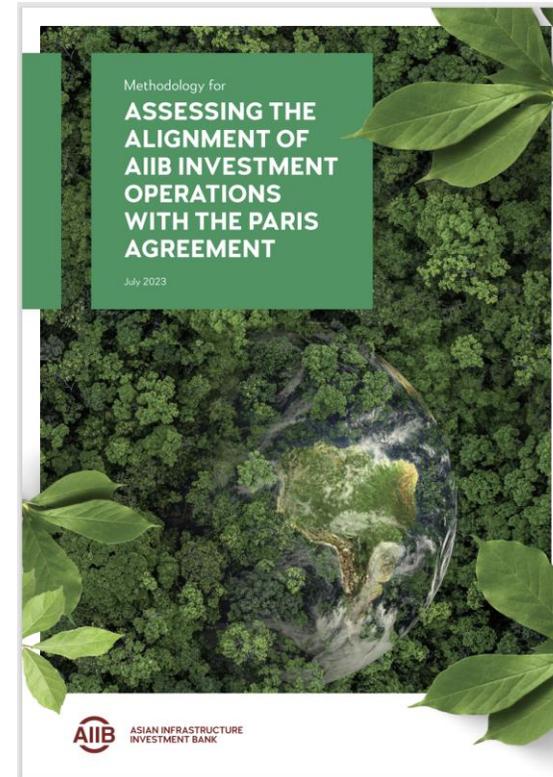


ATO based on data from DNV; "Energy Transition Outlook 2025"; [\(link\)](#)

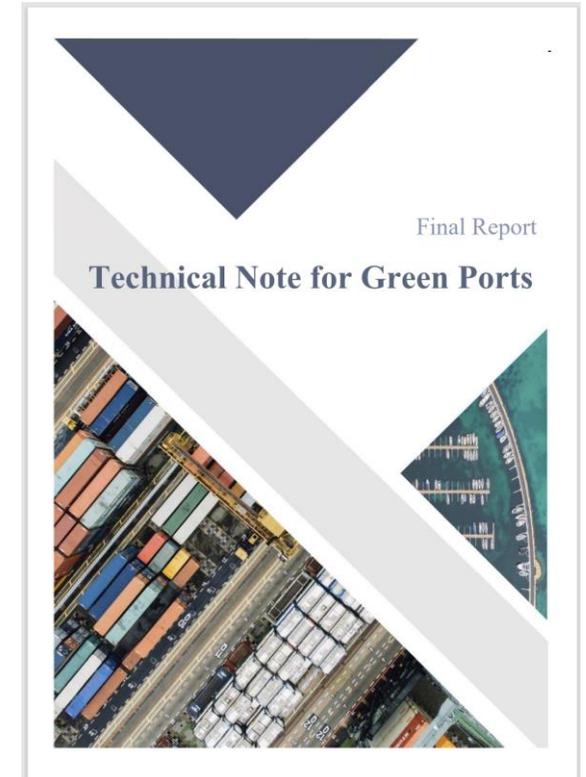
# AIIB Support for Greening the Maritime Sector



**Corporate Thematic Priorities**



**Alignment with the Paris Agreement**



**Green Port Development**

# AiIB Loan

# Regional Transport Connectivity Project

**Approval:** March 2023 | **Amount:** USD70 M | **Member:** Singapore

- **Objective:** To support the X-Press Feeders Limited (XPF) in reducing its fleet carbon intensity on the China-India shipping route.
- **Description:** It involves providing a **sustainability-linked loan (SLL)**, along with IFC (lead co-financier), for the purchase of three 7,000 TEUs container ships.
- **Sustainable Development Targets\* (SDT):**
  - *Carbon Emission Reduction:* 40% reduction by 2027 compared against aged vessel (2021).
  - *Plastic Reduction:* reduction of usage of plastics on board of all XPF vessels by 70% from 2021 to 2027.

*\*SLL spread margin can be reduced if XPF meets some or all the pre-agreed SDT by a defined timeline.*



# Thanks!

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