

Speaker Profile



Eka Suhendra

Director of Business Planning

Pertamina International Shipping

Eka Suhendra, serves as the Company's Director of Business Planning that responsible to Corporate Strategy, Sustainability, and Business Development. He holds a Bachelor's degree in Economics from the University of Indonesia, a Master's in Management from Sriwijaya University, and a Master of Business Administration from Manchester Business School, United Kingdom.

With a career spanning 23 years at Pertamina, Eka has held various key roles. He most recently served as the VP Controller of the Finance Directorate at PT Pertamina Patra Niaga SH - C&T (2020-2024). He undertook managerial positions including Manager Finance & Accounting at PT Donggi Senoro LNG (2016-2017) and Manager Cost Management – MA Controller (2017-2020), where he also oversaw supervisory responsibilities.





PIS's Response to Environmental Demands in the Global Shipping Landscape



PIS Aspiration



Becoming a **Global Leader** in Shipping and Marine Logistics

Global Demands





IMO require Shipping Industry Emission to be **Net Zero by 2050**



Alternative Fuels Challenges						
	Technical Readiness	Tank size HFO=1	Total Cost of Ownership HFO=1			
Fuel Oil	Favorable	1.0	1.0			
MGO	Favorable	1.1	1.1			
LNG	Favorable	1.8	1.1			
Biodiesel	Slightly Unfavorable	1.1	1.3-1.5			
Methanol	Slightly Unfavorable	2.4	1.5-1.7			
Ammonia	Unfavorable	3.3	1.3-1.4			
Liquid Hydrogen	Unfavorable	4.5-14.0	1.8-2.0			





PIS Offers Holistic Marine Logistics Services

Including International Shipping, Port & Marine Services and Storage

Shipping

Marine Services

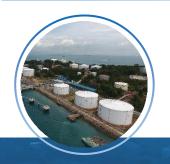














SHIPPING

Transport of material using vessels, e.g.

- Crude
- Refined products
- LPG
- ING
- Dry bulk
- Container/Cargo

MARINE SERVICES

Seaside services for shipping & port, e.g.,

- Towages/tugboat services
- Pilotage
- Line-handling
- Vessel berths
- Inspection and repairs

PORT OPERATIONS & SERVICES

Management of portside ops for terminals/ jetties, e.g.:

- Loading master
- Security & customs
- Maintenance activities

PORT ASSET OWNERSHIP

Ownership of port/jetty, with responsibility to:

- Invest or acquire
- Operate and maintain

LOGISTICS - STORAGE

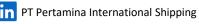
Ownership & operations of tanks,

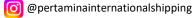
- Providing storage services to own or third party volumes
- Or services to operate facilities

OTHER SUPPORT SERVICES

Other land based logistics, example:

- Freshwater
- Waste management
- Freight forwarding

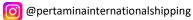




Area of Operation and Distribution

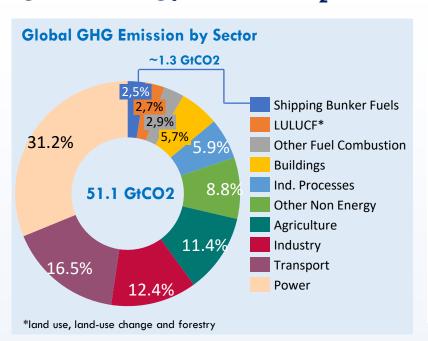


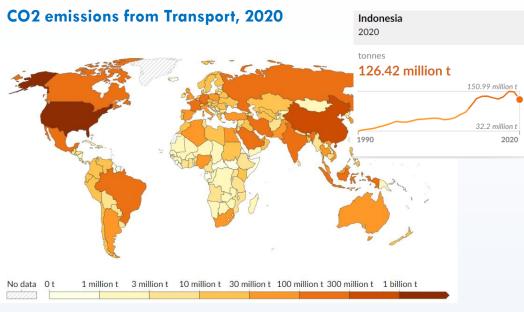




In 2022 international shipping accounted for about 2.5% of global energy-related CO₂ emissions

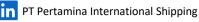






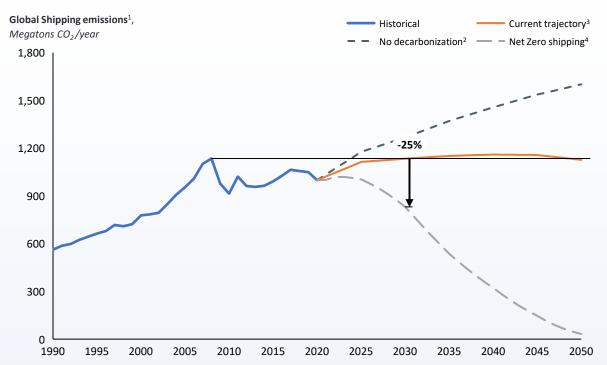
While the revised emissions reduction targets recently announced by the International Maritime Organization (IMO) are now in line with the goals set out in the Paris Agreement with the Net Zero Emissions by 2050 (NZE) Scenario, which requires an almost 15% reduction in emissions from 2022 to 2030.

SOURCE: World Resources Institute, BNEF, CO2 and Greenhouse Gas Emissions - Our World in Data



Shipping industry must be on track to meet Net Zero IMO Target





1. Tank-to-propeller emissions; 2. Assuming carbon intensity (tCO2/ton-mile) stays as it was in 2019; 3. Current Trajectory (2-2.5C) scenario incorporates existing and announced policies, as well as McKinsey perspective on trade and technology cost; 4. IMO target pathway achieves 100% reduction by 2050

SOURCE: IMO, Global Energy Perspective on Maritime powered by Maersk Mc-Kinney Moller Center for Zero Carbon Shipping NavigaTE model







Pertamina 10 Sustainability Focus



		Focus		SDGs
	Environmental		Addressing climate change	13 sm (A)
		② 》	Reducing environmental footprint	6 Harmonia 7 Harmonia 13 CCC
		3	Protecting biodiversity	14 dimens 15 dime
٦	Social		Enhancing health and safety	3 institution 8 institution 8 institution (i.e., 1)
		(5)	Prevention of major accidents	3 mention 12 mention 14 mention 15 mention 1
			Respecting and empowering our people	5 ::::::::::::::::::::::::::::::::::::
			Reorienting innovation and research	8 ::::::::::::::::::::::::::::::::::::
			Expanding community engagement and impact	1 man fréésé 4 mm 7 mm 14 mm 15 mm 15 mm
	Governance	1	Strengthening cyber security	16 account control con
			Leveraging corporate ethics	16 account control con



PIS's Aspirations and Projections through 2034





34 %

~27 %

Market Cap*

Revenue (>40% from Non-Captive) Revenue From Low Carbon

Revenue From Marine & Terminal**

... Current NYK ~12 Bn, MISC ~7 Bn

>190

Owned Tanker Vessels

(<15 years of Avg. Tanker Age)

...20% CAGR from 2024

...Current portion ~15% in 2024

...Current Marine & Terminal ~18%* in 2024

*) Exclude terminal asset transfers

**) Include terminal asset transfers



Operational

TMSA Score

Sustainability

Emission Reduction

~**32** %

(from BAU 2030)

Women in Leaders **Position**

... Current tanker age industry leaders ~14 years

... Current TMSA Score 2.5 in 2023

...Current emission reduction ~3% in 2023, est. ~6 % in 2024

...Current diversity ~8% in 2023

PIS has established a solid foundation for becoming a Global Leader in Sustainable Shipping and Marine Logistics



2017 - 2024

(Growing Diversified Logistics Business)

2024 - 2029

2030 Onward

(Building Green Portfolio)

(Laying Strong Growth Foundation)



- **Pendirian PIS**
- Restrukturisasi PIS menjadi **Integrated Marine Logistics Co**
- **Pendirian PIS Asia Pacific**
- Strategic Partnership with
- **Pendirian PIS Middle East** sebagai branch office



Capitalize on petroleum core

~10% growth from captive baseload demand

Expand to Midde East & ASIA vessel chartering

LPG cargo & shipping



Pursue new growth industries

Petchem JVs feedstock & products shipping 3rd party chemicals

Upstream Services Domestic FAME shipping

Dry bulk shipment

Domestic **LNG** shipment



Build ASEAN integrated shipping & Logistics

Multiple-product, multipleservice logistics solution to 3rd party domestic and regional players, incl. shorebase logistic

Bunkering services, including alternative fuels



Governance & Acess to Capital Market

Initial Public Offering Bond Issuance

Low Risk ESG Score



Grow green energy business

LNG cargo & shipping

Technology-led emissions reduction (fuel efficiency, hull cleaning)

Green vessel segments

~\$6 bn. revenue in 2030

>\$9 bn. revenue in 2034

>40% Revenue from non-captive in 2034

~27% Services & Logistics

~20% Green Cargoes

Enablers

Proven talent & capability

Performance-led organization

HSSE & reliability first

Digitalization

Hub of Indonesian maritime talent

Operational efficiency through integration

0 maritime incidents

years shipping expertise World class assets

Deep management bench with

Top quartile IPT

Value creation for

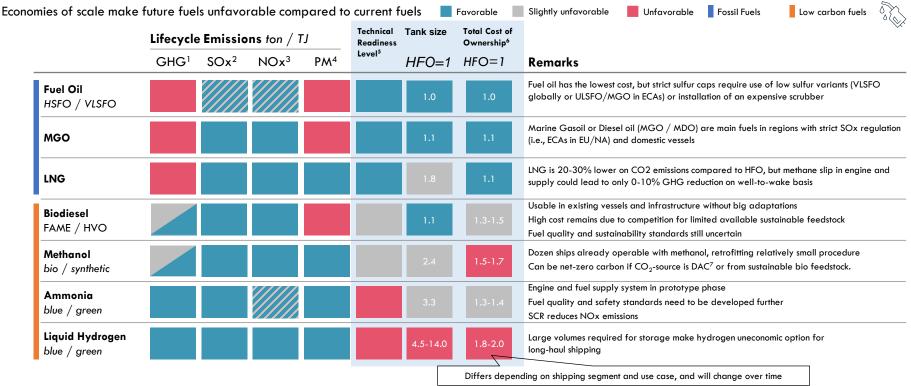
stakeholders

Digitally-enabled tracking & monitoring systems



Low carbon maritime fuels are in development phase and are not expected to become economical soon without a high carbon price





^{1.} Greenhouse gasses including CO2, NH3 and NO2; 2. Sulphur limitations of 0.5% (global) and 0.1% (ECA); 3. NOx emissions are commonly reduced using Selective Catalytic Reduction (SCR) and Exhaust Gas Recirculation (EGR) solutions for both FO and MGO; 4. Particulate matter;

Source: McKinsey Global Energy Perspective 2022, Techno-economic assessment of zero-carbon fuels, Lloyd's Register (2020)



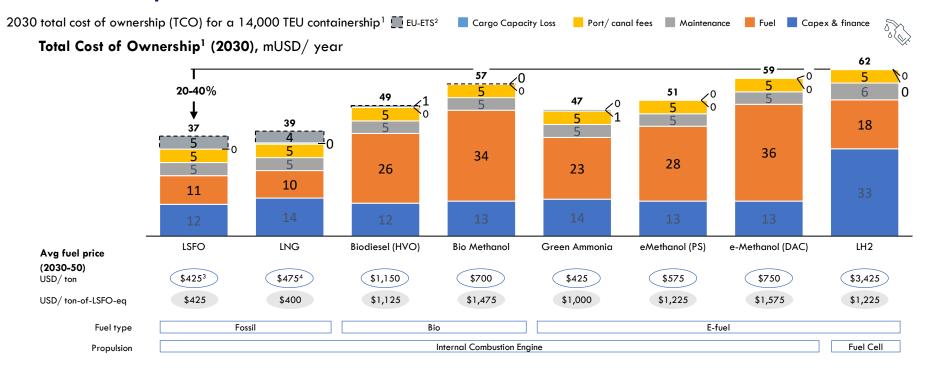




^{5.} Technical Readiness Level, assessed from 1 (basic principles observed and reported) - 9 (scaled up to global implementation); 6. Full lifecycle TCO of Large Container entering the fleet in 2030 assuming no Carbon price; 7. CO₂ source is from direct air capture (DAC)

TCO for alternative fuel ships needs to come down between 20-40% by 2030 to be competitive with fuel oil





^{1.} Deployed globally, using weighted average price of Rotterdam, Fujairah and Singapore

Source: McKinsey Global Energy Perspectives powered by Maersk McKinney Moller Center for Zero Carbon Shipping (2022)





^{2.} Assuming a USD 100/t CO2 price with 50% of roundtrip emissions being subject to ETS scheme

Long term Brent crude oil price of 50-60 USD / bbl

^{4.} Long term TTF gas price of $6.25\,\text{USD/MMBtu}$ (excluding liquefaction and bunkering)

Energizing The Ocean

Thank You

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