The Role ofPorts in Ensuring Comprehensive Environmental Protection from Shipping Activities

Ts. Norzie Hasnira Binti Ramlan
Johor Port Authority,
MALAYSIA
Malaysia: Policy Plan

Sea Traffic Density

Source: GNAI "G0023-18092023"

17 UN SDG (2015)
IMO CONVENTIONS

MALAYSIA MADANI
TWELFTH MALAYSIA PLAN (2021-2025)
NATIONAL TRANSPORT POLICY (2019-2030)
JOHOR PUBLIC TRANSPORT MASTERPLAN (2021-2045)
BLUEPRINT JOHOR SMART CITY (2023-2030)
GREEN GROWTH ROADMAP FOR JOHOR

JPA GREEN PORT POLICY 2014
JPA STRATEGIC & DIGITALIZATION PLAN 2021-2025
Green Port Initiatives

- Environment
- Aquatic Ecosystem and Marine Habitat
- Energy, Electricity, Fuel Saving Initiatives
- Research Program
- Green Policy
- Digitalization
Johor Port Authority: Green Port Initiatives (Digitalization and Innovation)

Marine Management System

Vessel Traffic Management System

E Bunkering

E Ship to Ship

E-Gateway

Research Program

Port Traffic Management System

Ship Emission Management System (SEMS)

JPA Achievements 2022-2023:

- Green Port Award System 2017 & 2022 by APEC Port Service Network (APSN)
- AEMES Certificate 2 stars
- National Energy Award by NAE
- International Diamond Prize for Excellent in Quality by ESQR
- ASEAN Energy Award (Energy Management) by AEA 2023
ESG Investment + Digital Evolution

**ENVIRONMENTAL**

**Our Commitment**

We will be working across sectors to accelerate the transition to net-zero emissions

**Completed Initiative**
- Carbon Footprint Baseline Study
- RTG Electrification
- Waste Minimization Program

**Current Initiative**
- Waste Efficiency - Single use plastics
- Electrical Prime Movers
- Solar Panel for buildings
- Community Recycling Centre
- Energy Efficiency – upgrade LED
- Mangrove Tree-Planting
- Optimization of Pilot and Tugboat

**Under Study Initiative**
- Green Marine Tugboat & Pilot Boat
- Solar Farm
- Green Bunkering Infrastructure

**Future Initiative**
- Conservation & Offset
- On-shore power supply

**GOVERNANCE**

**Our Commitment**

We operate based on responsible business practices

**Completed Initiative**
- Constitutional documents developed on essential areas: e.g. PTP Anti-Bribery & Anti-Corruption Policy & Framework, Competition Compliance Policy, Foreign Trade Control Guidelines, Enterprise Risk Management Policy & Framework

**Current Initiative**
- Enhancement of PTP corporate governance, integrity & ethics and risk management systems

**Progressive Initiative**
- Ongoing monitoring of Cybersecurity threats with enhanced tools

**Under Study Initiative**
- Green procurement/sustainability sourcing
- Green Tax

**Future Initiative**
- Training & Awareness Raising for internal & external stakeholders on essential areas & applicable laws & regulations
## WAY FORWARD

### Port Decarbonization Initiatives: GV2050 & P4i

<table>
<thead>
<tr>
<th>Green Voyage 2050</th>
<th>Partnership For Infrastructure (P4i)</th>
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<tbody>
<tr>
<td>GreenVoyage2050 Project aims to support shipping’s transition towards a low carbon future</td>
<td>Assessment of the suitability for PTP becoming Green Bunkering Hub</td>
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<tr>
<td>• Shortlisted Project from PTP: Green Tugs and Pilot Boats</td>
<td>• Technical streams concluded: LNG and Methanol have been finalized for PTP’s consideration</td>
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<tr>
<td>• Stakeholders Involved: International Maritime Organization (IMO), MOT, MARDEP, MIMA</td>
<td>• Factors considered: Collective assessment of demand and supply; Emissions profiles of existing, emerging and third horizons fuel; &amp; Port responses.</td>
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<td>• Technical Site Visit (Committee) : 8th Feb 2023</td>
<td>• Current Exercise: Reviewing Commercial, Regulatory and Socio-Economic considerations</td>
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<tr>
<td>• IMO Site Visit : 28th - 29th March 2023</td>
<td>• Launching Date : 23rd June 2023 (in conjunction with Malaysia Maritime Week 2023)</td>
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THANK YOU

Ts. NORZIE HASNIRA BINTI RAMLAN
Marine Manager, Marine and VTMS Department
Johor Port Authority,
MALAYSIA

Appreciation to:
Ministry of Transport Malaysia
Attaché (Maritime)
Johor Port Authority
Port of Tg Pelepas Sdn Bhd
Johor Port Berhad
Mrs Monaliza Binti Suhaimi
Mr Muhammad Razif bin Ahmad
Mr Ahmad Syahrir bin Ashaari
Mr Mohd Zahari bin Mohd Rusjuna