



**MIMA**  
MARITIME INSTITUTE OF MALAYSIA  
INSTITUT MARITIM MALAYSIA

**Webinar Series**

**RAA**  
RAA Capital Partners Sdn Bhd  
(201701004832)

**Saraa**  
Sustainability Leveraging AI

**Greening Malaysian Ports:  
From Evaluation to Action**

- **Aligning with the IMO GHG Reduction strategy**
- **How AI Tools Can Accelerate ESG Goals in the Maritime Sector**

Presented by:

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Managing Director & Founder of RAA

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Advisor – AI, Corporate Communications & HR

 **13 November 2025**  
2.00pm – 4.00pm (GMT+8)

## Green Shipping & Maritime Decarbonisation: A Malaysian Perspective

Malaysia sits at one of the world’s most critical maritime crossroads, with over 90% of global trade passing through the Straits of Malacca. As the IMO pushes toward net-zero emissions by 2050, Malaysia is accelerating efforts to green its maritime ecosystem and strengthen port competitiveness in a rapidly evolving global landscape.

We at RAA have developed a simple green port index called the Saraa Green Port Index (SGPI)—an AI-enabled ESG and decarbonization assessment framework explicitly tailored for ports. The SGPI evaluates ports across multiple dimensions, including clean-fuel readiness, energy efficiency, emissions intensity, automation, waste and water management, climate resilience, governance, and digitalisation. The Index aligns with the IMO GHG Strategy, enabling Malaysian ports to benchmark themselves against global green port leaders such as Rotterdam, Singapore, Busan, and Los Angeles.

Port of Tanjung Pelepas (PTP) was among the top-ranked ports in the Saraa Green Port Index, reflecting its strong performance in low-carbon operations, digital optimisation, green equipment deployment, and readiness for future clean-fuel ecosystems. PTP’s ranking demonstrates Malaysia’s capacity to lead the region in green port excellence and sets a national benchmark for other ports to follow.

Malaysia's policy alignment is reinforced through the Maritime Master Plan (PIPPN), the National Energy Transition Roadmap (NETR), the Green Port Policy, and emerging carbon-market mechanisms under Bursa Malaysia's VCM. Major ports — including Klang, Bintulu, PTP, and Penang — are advancing initiatives in cold ironing, LNG and alternative-fuel bunkering, renewable energy deployment, and AI-driven carbon accounting.

Green financing is a vital enabler of these efforts to support vessel retrofits, clean technologies, and digital emissions-monitoring systems. This must be properly implemented. Human capital development to be continuous through public-private partnerships in order to upskill maritime professionals in alternative fuels, ESG reporting, and smart-port operations.



**With the RAA Saraa Green Port Index and other related research and development, we can lead in green bunkering, regional green shipping corridors, AI-based ESG evaluation, and blue-carbon restoration. SGPI, we believe, can strengthen investor confidence, enhance transparency, and chart a clear pathway for Malaysian ports to meet global decarbonization expectations.**

Sustainable maritime development is now a competitive imperative. Through innovation, investment, and strategic alignment, Malaysia is charting a cleaner, smarter, and more resilient maritime future.

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