

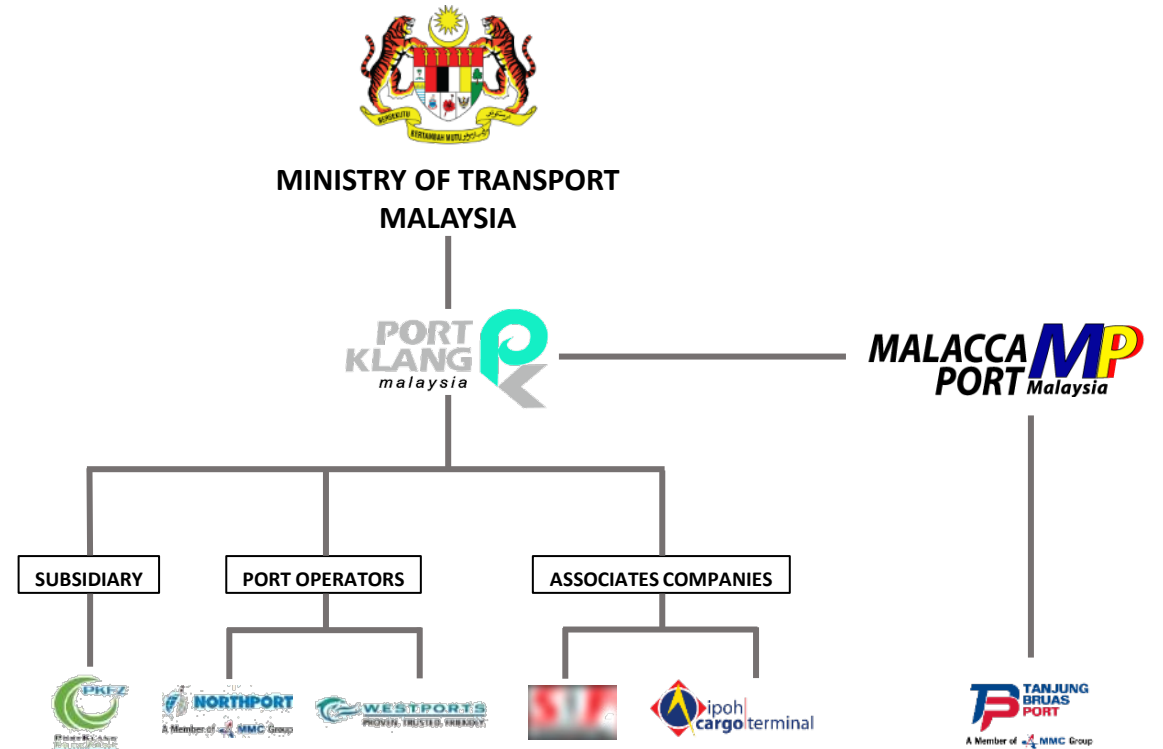


SUSTAINABLE PORT DEVELOPMENTS INITIATIVES IN IMPROVING PORT PRODUCTIVITY AND GEARING TOWARDS AN ECO-FRIENDLIER PORT OPERATION

PORT KLANG'S PERSPECTIVE

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INTRODUCTION



THROUGHPUT (TEUs) 2021
13.72 MILLION
 WORLD CONTAINER PORT RANKING 2021
12

CURRENT OPERATION & FACILITIES IN PORT KLANG



Container

Berth : 33
Length: 9.0 km
Draft: 11-17.5 m
Total Ground Slot: 64,443
Reefer Points: 5,184
CFS Area (sq.ft): 1,027,162
Quay Cranes: 95
RTG Cranes: 284
Stackers: 18
Prime Movers: 790
Trailers: 807

Annual Capacity:
20.6 Million TEUs



Liquid Bulk

Berth : 10
Length: 2.5 km
Draft: 9-16.5 m
Covered Storage (Tanks): 697
Tankage Capacity (MT): 1,070,254



Dry Bulk

Berth : 8
Length: 1.8 km
Draft: 11.5-15.0 m
Covered Storage (sq.m): 85,815
Open Storage (sq.m): 60,105
Luffing Crane: 3
Bulk Unloader Crane (Hybrid): 7



Break Bulk

Berth : 11
Length: 2.1 km
Draft: 5.5-15.0 m
Warehouses (sq.m): 25,919
Open Yard (sq.m): 134,569
Southpoint Multipurpose (sq.m): 86,152



Cruise Terminal

CT Berth 1
Length (Metres) : 350
Depth (Metres) : 14

CT Berth 2
Length (Metres) : 250
Depth (Metres) : 10

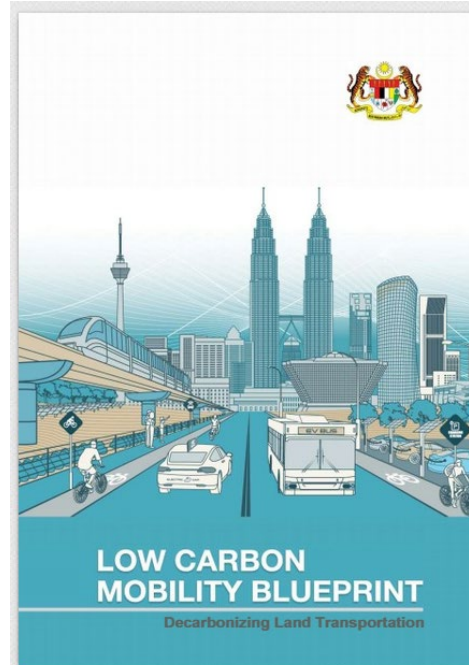
CT Berth 3
Length (Metres) : 250
Depth (Metres) : 10

MALAYSIA MINISTRIES GREEN INITIATIVES



Strategic Plan Ministry of Transport 2021 – 2025

Under port and transportation sector the Ministry of Transport focusing on enforcement of compliance with environmental acts and regulations, initiatives to control pollution, noise and waste, as well to provide a transportation system which is sustainable and efficient which not only drive the socio-economic development of the country, but minimizes the negative impact on the environment.



Low Carbon Mobility Blueprint 2021-2030

This blueprint was published by Ministry of Environment and Water on 2021. The objective of the Low Carbon Mobility Blueprint 2021-2030 is to assess the best options in energy and GHG mitigation planning in the transport sector, in particular land transport, using scenario analyses of a business-as-usual case and similarly for 2030.



Low Carbon Mobility Blueprint 2021-2030

The Green Technology Master Plan Malaysia 2017-2030 is an outcome of the Eleventh Malaysia Plan (2016-2020) which was officially launched on 12 October 2017 aims to outlines the strategic plans to develop green technology and create a low-carbon and resource-efficient economy.

PORT KLANG GREEN PORT POLICY MISSIONS

AIR QUALITY

1

To reduce Greenhouse gas emissions and other air harmful air emissions from port operations.

WATER QUALITY

2

To improve water quality in terminal and surrounding areas and reduce the Port's water usage to preserve water supply.

RESOURCE MANAGEMENT

3

To conserve energy and maximize energy efficiency of Port operations.

WASTE MANAGEMENT

4

To reduce waste from port operations through material reuse, recycling and composting.

ENVIRONMENTAL MANAGEMENT

5

To promote economic, social and cultural progress through an environmentally sound and sustainable development within port area.

COMMUNITY ENGAGEMENT

6

To interact with and educate the community regarding port operations and environmental programs.

PROMOTE SUSTAINABLE BUSINESS

7

To give equal weight to environmental, economic and social concerns in the decision-making process.

GREEN PORT INITIATIVES

RENEWABLE ENERGY & LOW CARBON FUEL

- ✓ Solar panel on warehouse rooftops
- ✓ LNG bunkering

ENVIRONMENT PROTECTION

- ✓ Dedicated waste management centre
- ✓ Ambient air and water quality monitoring
- ✓ Ship waste water treatment plant

ENVIRONMENTALLY FRIENDLY EQUIPMENT & FACILITIES

- ✓ Replacement of Diesel RTG with E-RTG
- ✓ Replacement of conventional light with LED light

FUTURE PROJECTS

- ✓ LNG powered trucks and tug boats
- ✓ Electric forklifts
- ✓ Onshore power supply at new berths
- ✓ Waste to energy plant
- ✓ Port call optimisation Green Voyage 2050

GREENING THE ENVIRONMENT

- ✓ Garden port
- ✓ Mangrove rehabilitation



**PORT
KLANG**
malaysia




CONTINUOUS CAPACITY BUILDING INLINE WITH SUSTAINABLE DEVELOPMENT GOALS (SDGs)



- **NORTHPORT RE-ENGINEERING PLAN**

- ✓ NDSB2 Integrated Logistics Hub
- ✓ Regional Distribution Centre
- ✓ Total net-lettable area: 350k sqft
- ✓ Development of new container yard to increase capacity by 560,000 TEUs

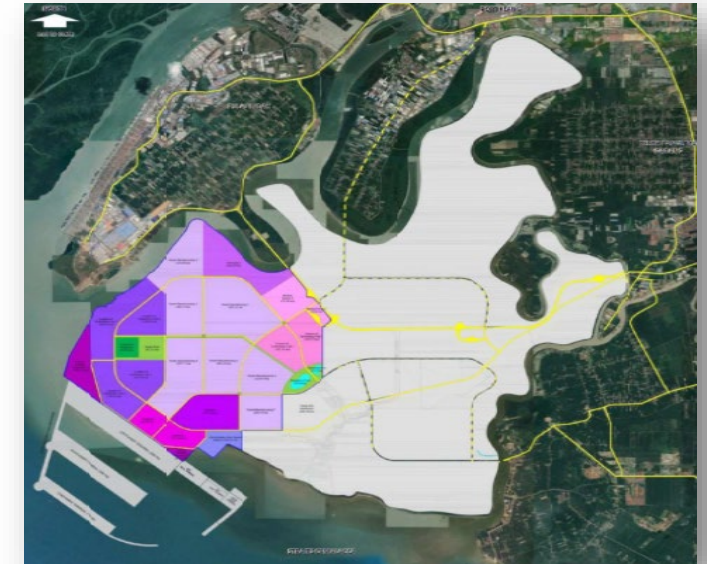


- **LPG STORAGE & DISTRIBUTION HUB**

- ✓ Dedicated berth at LBTS to cater both LPG & LNG ships

- **WESTPORTS EXPANSION**

- ✓ To add 4.8km berth
- ✓ Additional handling capacity 13 million TEUs
- ✓ Undertaken in 2 phases over a period of 20 years



- **3RD TERMINAL (CAREY ISLAND)**

- ✓ Natural deep water of 20-metre
- ✓ Basin design for land optimization
- ✓ Integrated Port City Development
- ✓ Manufacturing Hub & Logistics Distribution Centre



**PORT KLANG WILL CONTINUE IMPROVE PORT PRODUCTIVITY & WILL GEAR TOWARDS
ECO FRIENDLIER PORT OPERATIONS**

THANK YOU