Green Port Initiatives in Malaysia

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1. Introduction to Malaysian Ports
2. Malaysian Ports’ Green Port Initiatives
3. Malaysian Ports’ APSN Green Port Award
Malaysian Ports in the Global Arena

<table>
<thead>
<tr>
<th>Ports</th>
<th>Ranks</th>
<th>Volume (Million TEUs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shanghai, China</td>
<td>1</td>
<td>36.54</td>
</tr>
<tr>
<td>Singapore</td>
<td>2</td>
<td>30.92</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>5</td>
<td>20.07</td>
</tr>
<tr>
<td>Busan, South Korea</td>
<td>6</td>
<td>19.45</td>
</tr>
<tr>
<td>Jebel Ali (Dubai), UAE</td>
<td>9</td>
<td>15.60</td>
</tr>
<tr>
<td><strong>Port Klang, Malaysia</strong></td>
<td><strong>12</strong></td>
<td><strong>11.89</strong></td>
</tr>
<tr>
<td>Kaohsiung, Taiwan</td>
<td>13</td>
<td>10.26</td>
</tr>
<tr>
<td><strong>Port of Tanjung Pelepas, Malaysia</strong></td>
<td><strong>17</strong></td>
<td><strong>9.10</strong></td>
</tr>
</tbody>
</table>

World Shipping Council, 2015
Malaysia’s’s Strategic Location

- Port Klang
- Kuantan Port
- Port of Tanjung Pelepas
- Sepanggar Port

Map showing the strategic location of these ports in relation to other countries in the region.
Westports, Port Klang

- 17 berths with 15-17.5 metres depth alongside
- 55 gantry cranes, 163 RTGs and 460 prime movers.
- CMA-CGM (World’s 3rd largest container line) as the principal user
Port of Tanjung Pelepas

- 14 berths with 16 – 18 metres depth alongside

- 57 gantry cranes, 200 RTGs and 480 prime movers

- Mearsk shipping line (world’s largest) as principal user
Green Port Policy in Malaysia
Green Port Initiatives in Malaysia

• Ballast Water Management
• Study of Fuel Quality of Ships in Ports
• Energy, Electricity & Fuel Saving
• Environment Initiatives
Ballast Water Management

Collaboration with Malaysian University to conduct Baseline study of Ballast Water Management at designated ports on:

- Heavy Metals in Sediment Samples
- Hydrocarbons (Oil, Grease & Hydrocarbon) in Sediment Samples
- Marine Biological in Seawater & Sediment Samples
- Bacteria in Water Sample

Awareness of Ballast Water Management for ship owners
Study of Fuel Quality of Ships in Ports

- Comply with MARPOL Annex VI – Prevention of Air Pollution from Ships
- Survey on the Various Types of Ships Coming to Malaysian Ports
- Shore Power to Reduce Emissions in Malaysian Ports
Energy, Electricity & Fuel Saving Initiative

- VRF Air-Conditioner System – To Reduce Greenhouse gases emission
- Energy Saving Quay Crane Lighting – Reduce Carbon Dioxide (CO₂) Emission
- Retrofitted of RTG to E – RTG – To Reduce Diesel Consumption
- LED System at Port Areas
Environmental Initiatives

• Adopting Marine Sanctuary Area

• Collaborating with Malaysian Nature Society

• Beach Cleaning & Mangrove Planting

• Environmental Monitoring & Waste Management
APEC Port Services Network (APSN)

• Malaysia hosted the APSN Workshop on Safety of Dangerous Goods in Penang

• Malaysian Ports won APSN Green Port Award System
  – Port Klang
  – Port of Tanjung Pelepas
Malaysian Green Ports - The Way Forward

- Development of a Green Port Policy
- Guide Port Operators into Becoming Environmental-friendly
- Research Projects of Green Port Issues
Thank You

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