



Green Port: Balancing the Economic with the Environment

Bintulu Port Holdings Berhad
Asean Port & Shipping Conference 2020

Background of The Port



- Geographically situated midway between Kuching, Sarawak and Kota Kinabalu, Sabah along the busy sea lanes of Intra Asia Trade with a deep sea harbour.
- Bintulu Port is one of the largest container port and the nation's sole liquefied natural gas (LNG) export terminal for East Malaysia's
- It is expected to be increase as the Sarawak Corridor for Renewable Energy (SCORE) Initiatives are implemented, with additional shipment of aluminium, pulp and paper, silicon, manganese, fertilizer, downstream timber and agro produce & product making its way to the dock.



Bintulu Port



Vision Statement

A WORLD CLASS PORT OPERATOR



World Class

Denotes wanting to be **among the best** in the world (i.e. signifies being among the highest caliber and having best in class operations)

Port Operator

Port operations to remain BPHB's **core business activity**

Omission of reference to geography

Reference to location (e.g. previously BIMP-EAGA) was omitted as Management believes BPHB should be strategic in its expansion without constraining to a set geography



Mission Statement

Delivering Operational Excellence & Ensuring Our Long Term Sustainability based on 3Ps; (Profits, People, Planet)



Delivering Operational Excellence

Delivering **quality** services in an **efficient** manner

- Providing excellence services that meet customer requirements in a cost / resource efficient manner including safe and secure

Being the **preferred** business partner

- Becoming a partner of choice to governments, port authorities, port operators and customers (e.g. Oil & Gas, Shipping Line & Logistic Companies)

Providing **dynamic** and **innovative** solutions

- Responsive / adaptive to changing needs of stakeholders and inculcating innovation in all ports of business (e.g. process innovation)

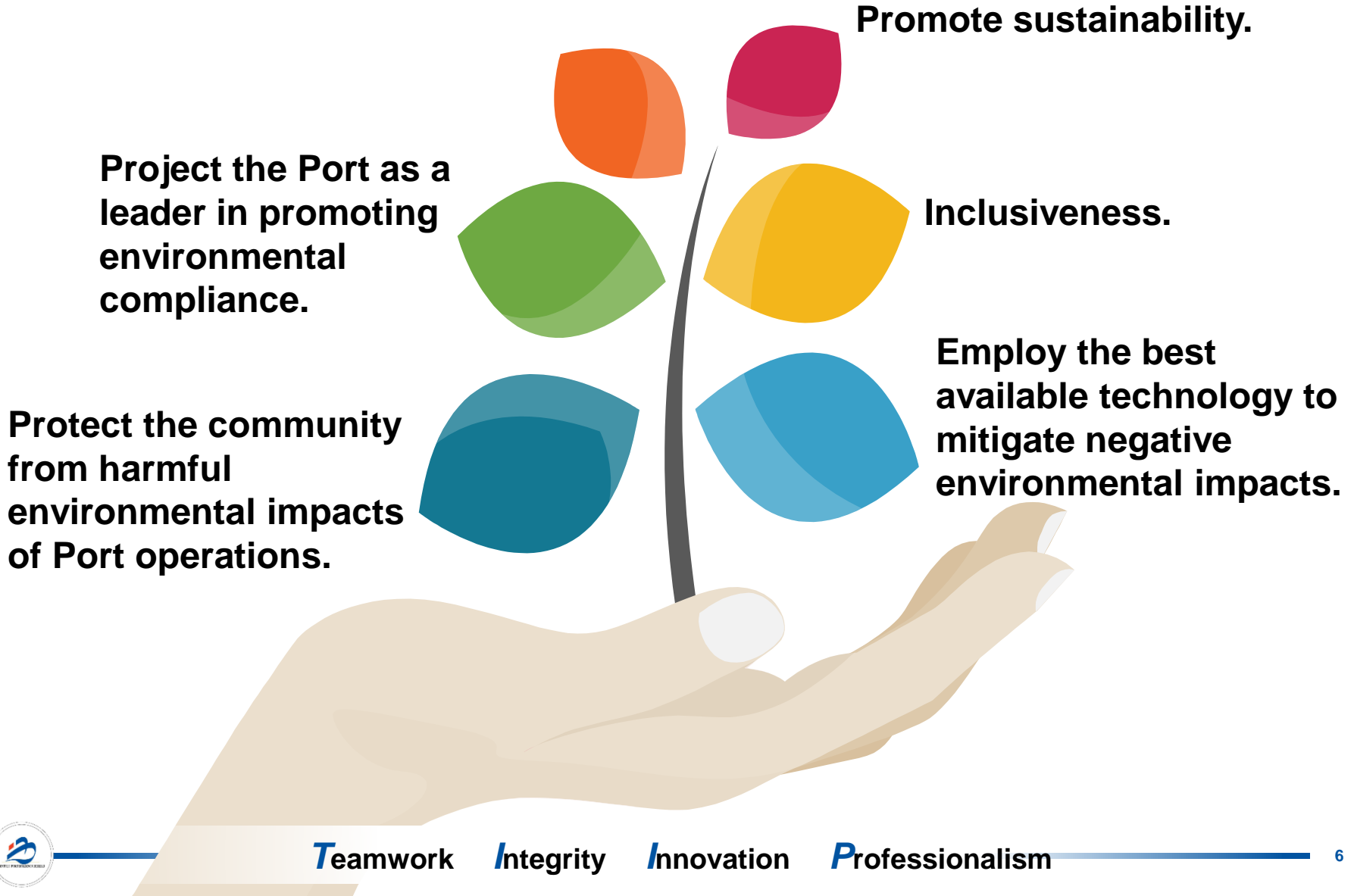
Ensuring our long term sustainability based on 3Ps (Profits, People, Planet)



Carry out investments and operations in a way that maximizes shareholder value over the long term based on 3Ps (Profits, People, Planet)

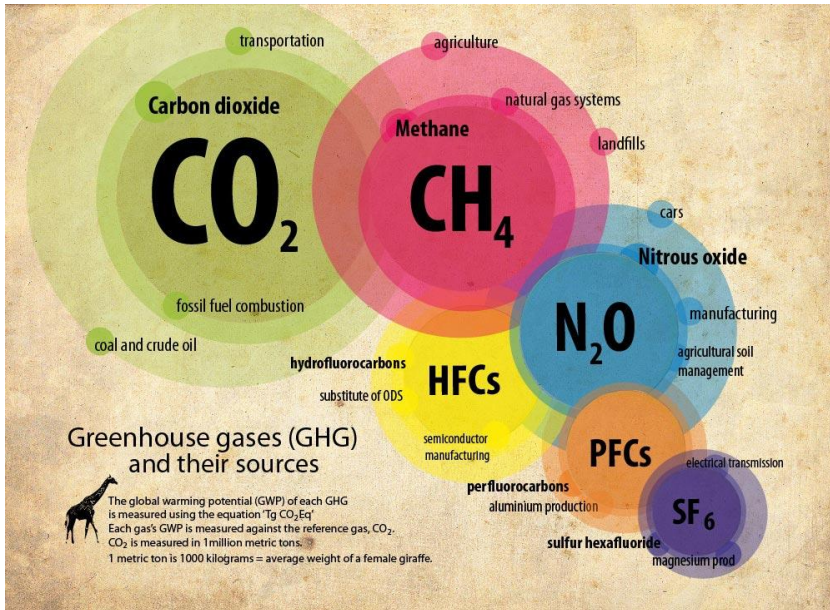


Green Port Policy



Malaysian Government

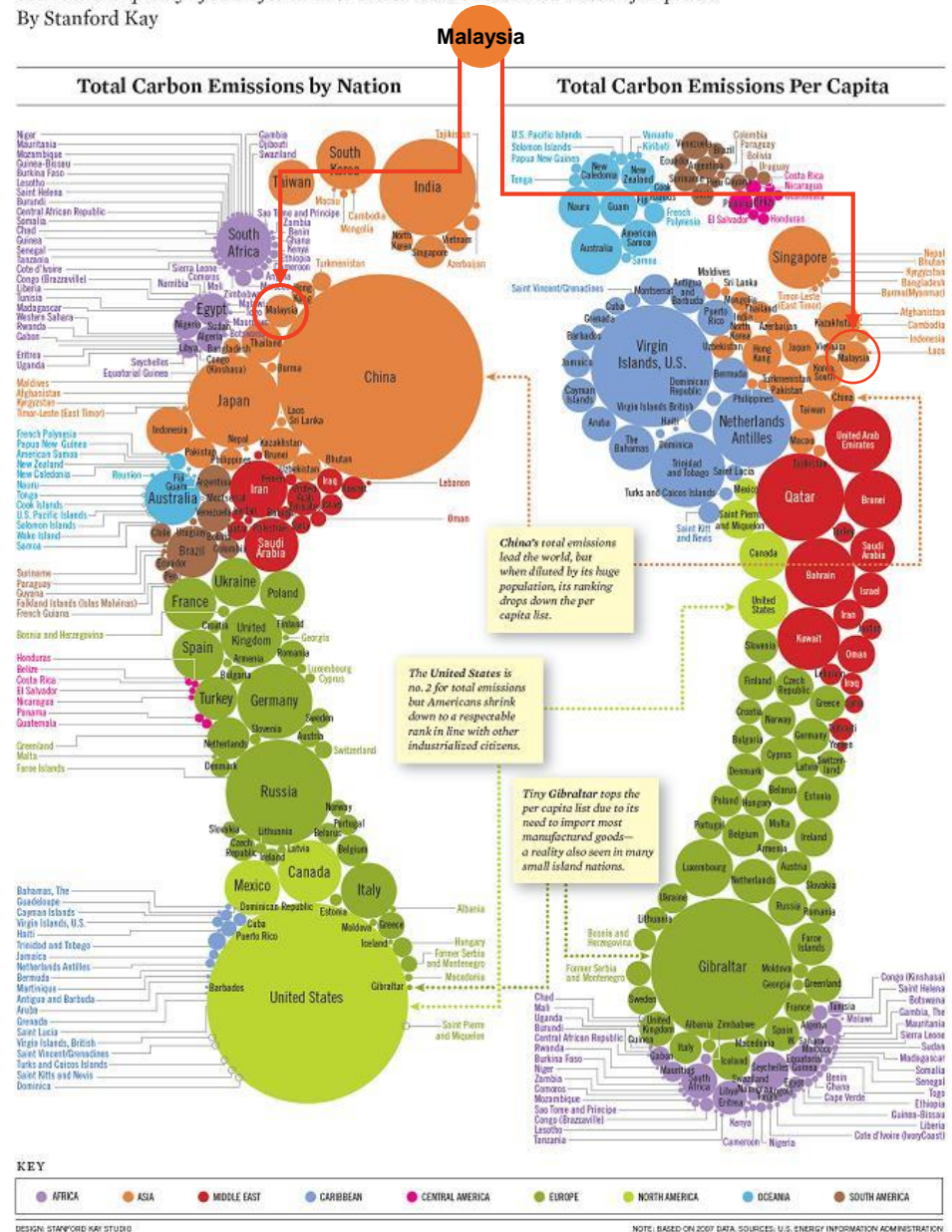
Malaysia Pledges 45% Reduction in Greenhouse Gases by 2030



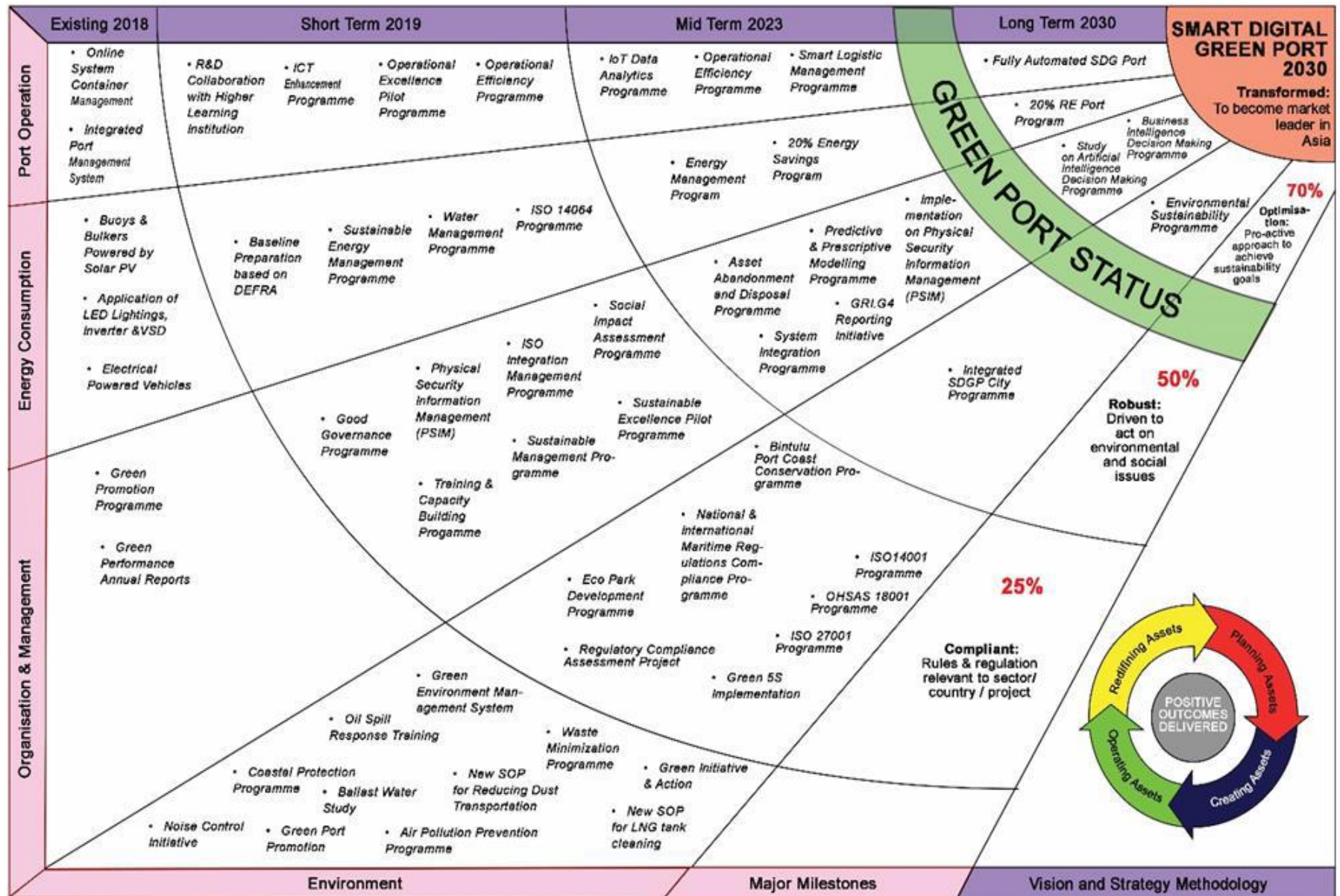
Malaysia is fully committed to being a key part of the global transition to a low-carbon, and eventually carbon-neutral society, with ambitions of achieving this by 2050.

Tracking Carbon Emissions

A footprint comparison of total carbon dioxide emissions by nation and per capita shows there's plenty of room for smaller countries to reduce their carbon footprints. By Stanford Kay



Bintulu Port Smart Digital Green Port Blueprint



Ten Basic Elements for Bintulu Green Port Policy



TOP ENVIRONMENTAL PRIORITIES OF BINTULU PORT



1 Air
Quality



2 Energy
Consumption



3 Noise



4 Relationship
with Local
Community



5 Garbage /
Port Waste



6 Ship
Waste



7 Port
Development
(Land Related)



8 Water
Quality



9 Dust



10 Dredging
Operation



Goals of Green Port Initiatives

Sustainable Development

Enhance the environmental performance of Port buildings while maximizing long-term economic benefits

Water

Improve water quality in Port Inner Harbour

Sustainable Business Practices

Give equal weight to environmental, economic and social concerns

Energy

Conserve and maximize energy efficiency of Port operations

Waste Management

Reduce waste from Port operations through material reuse, recycling and composting

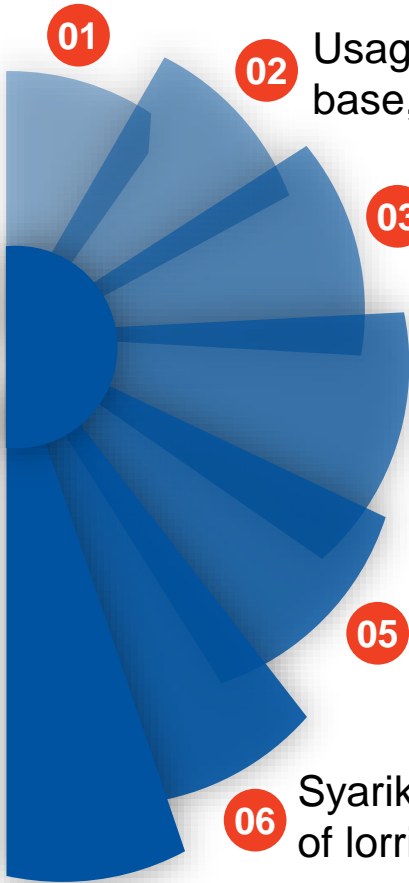
Air

Reduce greenhouse gas / air emissions from Port operations



Green Port Initiatives

KPI Target is **10%** reduction of electricity by managing usage of high mast lights, and the achievement was **13%** reduction

- 
- 01
 - 02 Usage of **shore electrical power supply** for tugs when berthing at marine base, thus reducing emission of fuel
 - 03 All buoys and transit lights are using **solar panels** and thus using of renewable energy
 - 04 Replacement progressively of bulbs to **LED energy saving lights**
 - 05 Replacement of air conditioning with **inverter type – more energy efficient type**
 - 06 Syarikat Sebangun Sdn Bhd **had installed conveyors** thus reduce congestion of lorries thus emission causing air pollution
 - 07 Dry Bulk Operations – improvement had been conducted to reduce air pollution by **using grabs and purchasing sweepers**



Green Port Initiatives

Usage of **LNG** in replacement of **Diesel for Boilers** – using of clean fuel thus reduction of emission Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) to the air.



Green Power

Solar panel as a renewal energy source, is utilised since 1998 to power up to 16 units of buoys and transit light.



Solar Panels



- The port provides shore power which is fully utilized by the tug boats (12 units) with total capacity approximately 4 MW.
- Can reduce diesel combustion emission.



Usage of solar panel for lightings in certain areas, in which is using of renewable energy



Green Port Initiatives

Original lamp



Lighting has been changed from 55 W yellow lamp to 36 W fluorescent lamp with reflector

Water Tap



Posters / stickers of energy and resources conservation are displayed on numerous strategic locations in the building to remind and create awareness for energy and resources saving.

Energy Efficient Lightings



Fluorescent lamp with Reflector

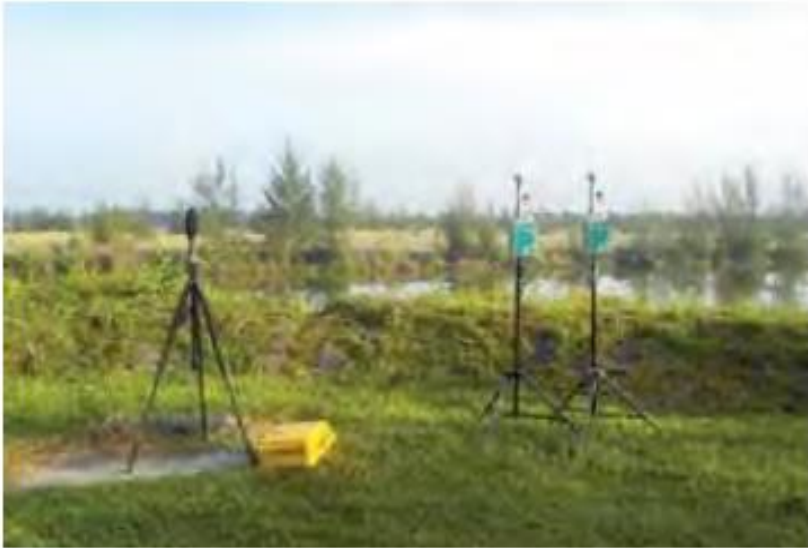
Poster / Sticker



• Light Switches



Green Port Initiatives



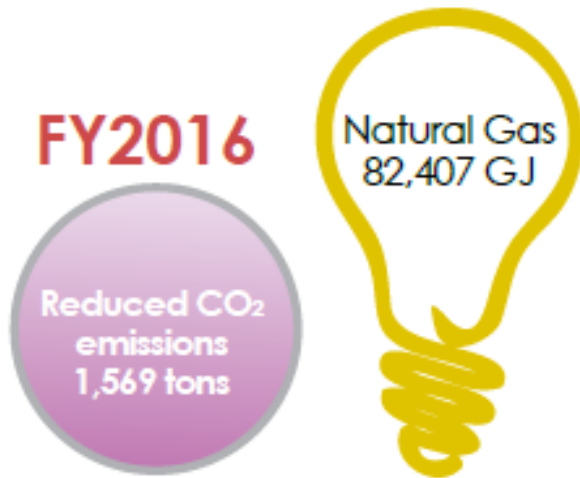
Environmental Monitoring



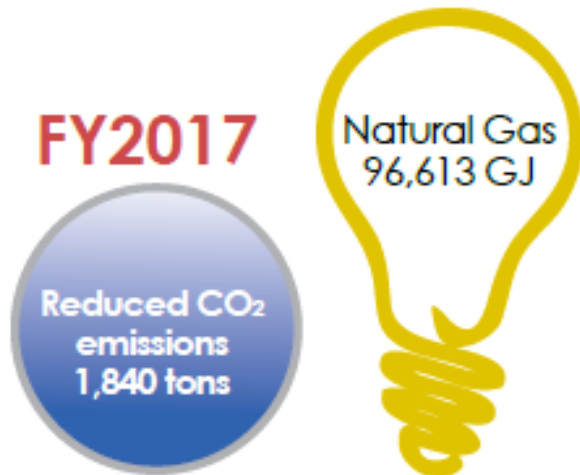
Coral Reef Monitoring



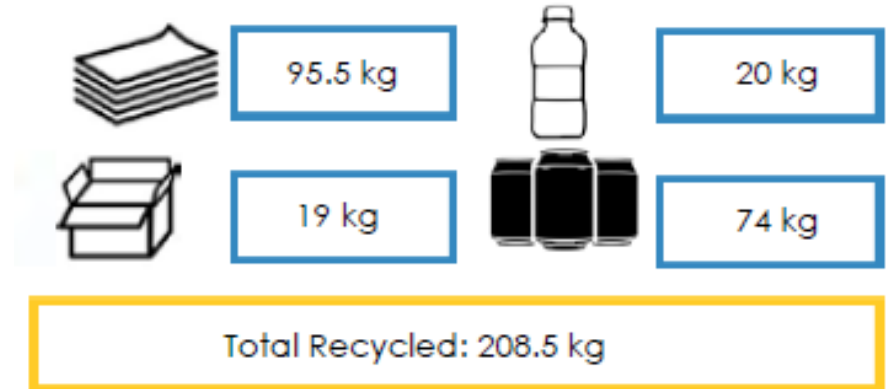
Green Port Initiatives



Energy Consumption



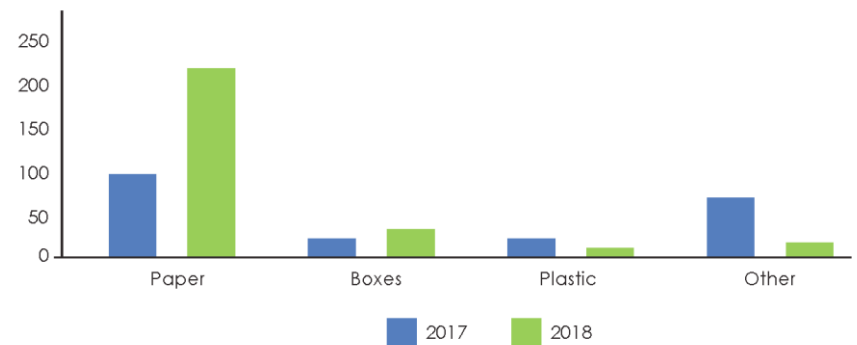
FY2017



Waste Management

FY2018

Total of Recycled Waste, kg



Total Recycled: 280.05 kg



Carbon Footprint Monitoring

Source of Carbon Emission		Carbon Emission (CO ² -eq)		Percentage	
Scope 1 (All Direct Emissions) Fuel Usage	MSD	8,133.10	11,416.50	3.31	4.64
	CTD	2,186.93		0.89	
	CHSD	531.74		0.22	
	GHSE	390.17		0.16	
	Company Owned Vehicle	174.56		0.07	
Scope 2 (Indirect Emissions) Electricity	Marine Operation	673.47	6,207.30	0.27	2.53
	Bulkers Jetty	47.82		0.02	
	South Dyke A	50.39		0.02	
	South Dyke B	33.28		0.01	
	South Dyke C	119.11		0.05	
	Bacom Fertilizer	72.53		0.03	
	Wharf Extension	2,819.71		1.15	
	Sub-Station no.1	17.66		0.01	
	Sub-Station no.3	26.10		0.01	
	Sub-Station no.4	37.44		0.02	
	Pejabat LPB Jln Tg Kidurong	1,600.34		0.65	
	Petroleum Jetty	68.49		0.03	
	Street Lighting no.1	13.11		0.01	
	Street Lighting no.2	57.95		0.02	
	Guard House (Sg Spait)	0.50		0.00	
	Lot 37 (Port Gate House)	2.51		0.00	
	Lot 37 (Behind 950m berth)	106.60		0.04	
Operation Building	460.29	0.19			
Scope 3 (Other Indirect Emissions)	Shipping Activities	225,740.42	228,195.84	91.83	92.83
	- vessel berthing				
	- vessel maneuvering				
	Employee Commute to Work	1,476.04		0.60	
	Fuel used by Equipment Owned by the Contractors	359.49		0.15	
	Contractor Travel	306.15		0.12	
	Business Travel via Airplane	278.10		0.11	
Disposal of Scheduled Waste	35.64	0.01			
GRAND TOTAL		245,819.64	245,819.64	100.00	100.00



Corporate Social Responsibilities



SIPSB organized First Shore Cleaning – Plogging Event to promote Clean and Greener World



Collaboration with Jabatan Agama Islam Sarawak (JAIS) and Coast Guard Malaysia (APMM) at Bintulu Port water area

Environmental Activities at Samalaju Beach

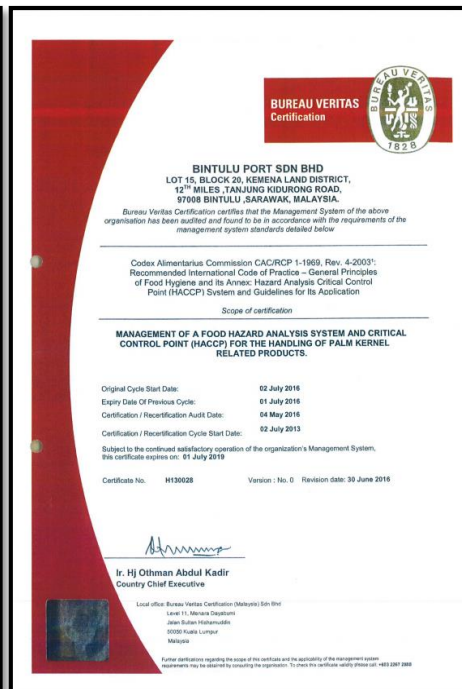


Disposal of Al Quran Ashes



Green Management

Bintulu Port has been awarded with more than 10 awards and certifications from various organizations following the implementation of EMS in the port. Bintulu Port has also been included in Malaysia Book of Record for the outstanding achievement as an organization that receives most certifications in Malaysia. Some of the awards and certifications include ISO14001, OHSAS18001, ISO28000, ISO9001, Sarawak Chief Minister's Environmental Award, and OSH award



Green Management

BUREAU VERITAS Certification

Process Certificate
Awarded to
 Bintulu Port Sdn Bhd
(Cargo Handling Services Division)
Lot 15, Block 20, Kemena Land District, 12th Mile, Tanjung Kidurong Road, 97008 Bintulu, Sarawak, Malaysia

GMP+ International registration number of the business location: GMP09007

Bureau Veritas Certification Denmark A/S declares that it has justifiable confidence that the process
Storage and transshipment of animal feed
at the company location Bintulu Port Sdn Bhd (Cargo Handling Services Division) complies with the applicable requirements and conditions of the standard:

GMP+ B3
Trade, collection and storage & transshipment
of the GMP+ FC scheme (based on GMP+ C6 of GMP+ International).

Handling of Palm Kernel related products.

Original approval date: 06-02-2017
Certificate approval date: 06-02-2017
Subject to the continued satisfactory operation of the company's management system, this certificate is valid until: 12-07-2019

To check the validity of this certificate, please call (+45) 77 314 000.
Further information regarding the scope of the certificate and the applicability of the system requirements may be obtained by contacting the responsible
Certification Number: DNS/SPC/0100014 Date: 06-02-2017

DANAK **BINILU PORT HOLDINGS BERHAD** **GMP+**

BUREAU VERITAS Certification

BINTULU PORT SDN BHD
LOT 15, BLOCK 20, KEMENA LAND DISTRICT, 12TH MILE, TANJUNG KIDURONG ROAD 97008 BINTULU, SARAWAK, MALAYSIA.
Bureau Veritas Certification certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below.

ISO 28000:2007
Scope of certification
PROVISION OF PORT OPERATION SERVICES (SEA PATROL, CONTROL TOWER, PILOTAGE, TUG ASSISTANCE, MOORING BOAT, MOORING GANG, STEVEDORING, WAREHOUSING & SECURITY CHECK-POINT).

Original Cycle Start Date: 07 March 2014
Expiry Date Of Previous Cycle: 06 March 2017
Recertification Audit Date: 17 February 2017
Recertification Cycle Start Date: 07 March 2017

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 08 March 2020

Certificate No: P000001 Version : No. 0 Revision date: 06 March 2017

[Signature]
Ir. Hj Othman Abdul Kadir
Country Chief Executive

Local office: Bureau Veritas Certification (Malaysia) Sdn Bhd
Level 11, Menara Dupleix
Jalan Sultan Hassanudin
50000 Kuala Lumpur
Malaysia

Further information regarding the scope of the certificate and the applicability of the management system requirements may be obtained by contacting the organization. To check the certificate validity please call: +45 77 314 000

BUREAU VERITAS Certification

Certification
Awarded to
BINTULU PORT SDN BHD
LOT 15, BLOCK 20, KEMENA LAND DISTRICT, 12TH MILE, TANJUNG KIDURONG ROAD, 97008 BINTULU, SARAWAK, MALAYSIA.
Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below.

Standards
OHSAS 18001:2007
Scope of certification
PROVISION OF PORT SERVICES.

Certification Cycle Start Date: 16 March 2016
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 14 September 2018
Original Certification Date: 14 September 2010
Certificate No: OHSAS130073 Version 0, Revision date: 16 March 2018

[Signature]
Signed on behalf of BVCH SAS UK Branch
Ir. Hj Othman Abdul Kadir
Country Chief Executive

STANDARDS
MS ISO/IEC 17021:2011
OHS 1123211 CE 07

Local office: Bureau Veritas Certification (Malaysia) Sdn Bhd
Level 11, Menara Dupleix
Jalan Sultan Hassanudin
50000 Kuala Lumpur
Malaysia

Further information regarding the scope of the certificate and the applicability of the management system requirements may be obtained by contacting the organization. To check the certificate validity please call: +45 77 314 000

CERTIFICATE
Awarded to
BINTULU PORT HOLDINGS BERHAD
Lot 15, Block 20, Kemena Land District, 12th Mile, Tanjung Kidurong Road, 97008 Bintulu, Sarawak

CyberSecurity Malaysia certifies that the Information Security Management System for the above organization has been audited and found to be in accordance with the requirements of

MS ISO/IEC 27001: 2013
Scope of Certification:
Information Security Management System for operation and maintenance of Integrated Port Management System (IPMS) by Group IT Division, Bintulu Port Holdings Bhd.

Statement of Applicability version: 1 Dated 23rd December 2015
Subject to the continued satisfactory operation of the organization's management system, this certificate will remain valid until **February 28th, 2019.**

Original Registration Date: March 1st, 2016
Issue Date: March 1st, 2016
Registration Number: 026-15032

[Signature]
Dr Anwarudin Abdul Wahab
CSM27001 Scheme Head

STANDARDS
CERTIFICATION MALAYSIA
Certificate No: CSM17001
CERT. NO: 026-15032

Customer Office:
CyberSecurity Malaysia, Level 5, Sgara Puteh, No 7 Jalan Tualih, The Mines Resort City,
43300 Sunway Kempas, Kelang, Kuala Lumpur, Malaysia. Tel: +603-8951 3205
Email: info@cybersecurity.my / Customer Service Hotline: 1-800-88-2999 / www.cybersecurity.my

MERIT AWARD
This Award Is Presented To
BINTULU PORT HOLDINGS BERHAD
For Outstanding Achievement In
7th SARAWAK CHIEF MINISTER'S ENVIRONMENTAL AWARD (CMEA) 2015/2016
'ENVIRONMENTAL STEWARDSHIP BEGINS WITH ME'
For Category
LARGE ENTERPRISE
(Logistic)

[Signature]
THE RIGHT HONOURABLE
DATUK AMAR ABANG HAJI ABDUL RAHMAN ZOHARI BIN TUN DATUK ABANG HAJI OPENG
Chief Minister Of Sarawak

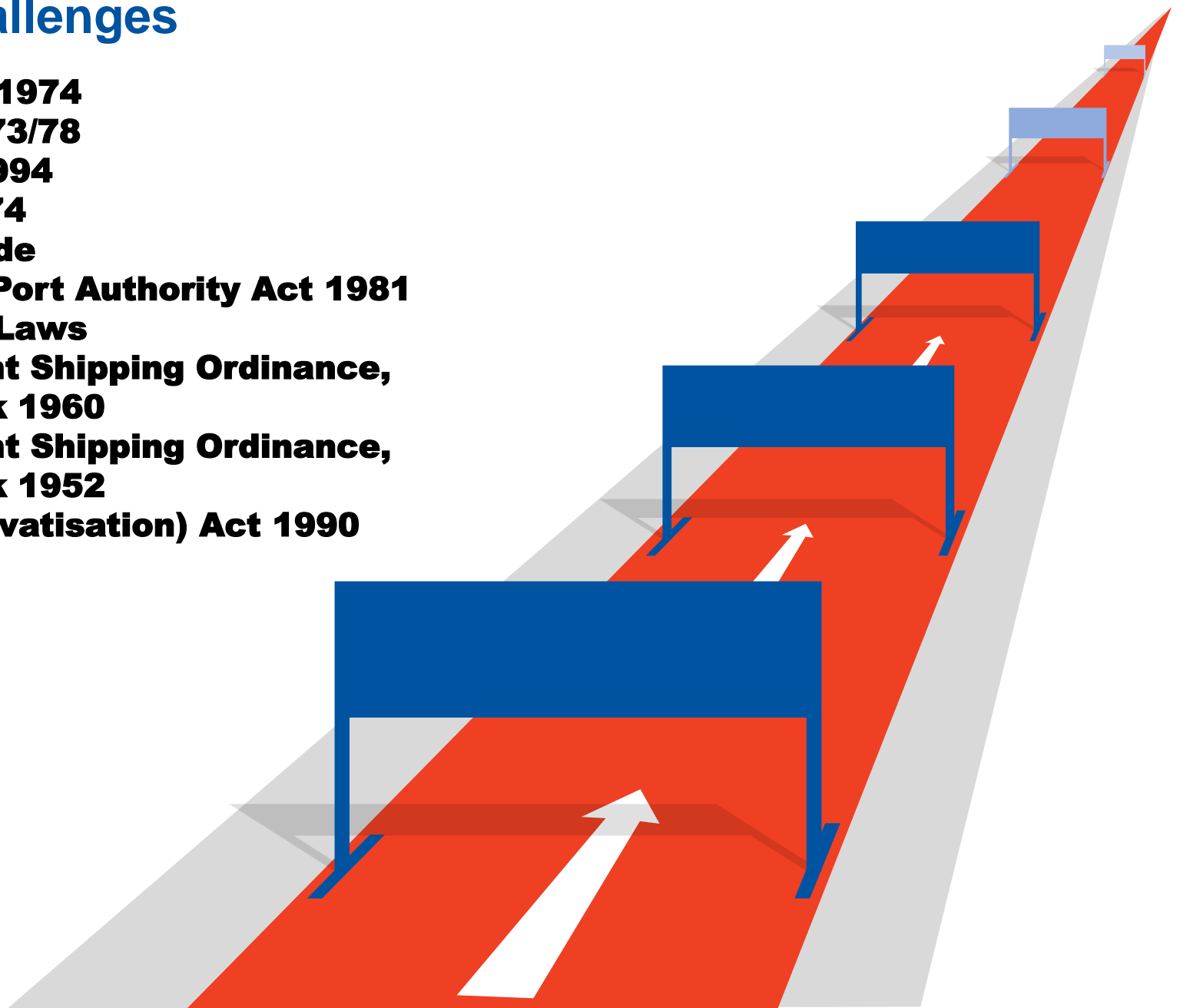


Green Port Award System (GPAS) 2017



Port Challenges

- **SOLAS 1974**
- **Marpol 73/78**
- **OSHA 1994**
- **EQA 1974**
- **ISPS Code**
- **Bintulu Port Authority Act 1981**
- **Port By-Laws**
- **Merchant Shipping Ordinance, Sarawak 1960**
- **Merchant Shipping Ordinance, Sarawak 1952**
- **Port (Privatisation) Act 1990**
- **Etc.**





THANK

You

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