BINTULU PORT TOWARDS SMART DIGITAL GREEN PORT
SMART DIGITAL GREEN PORT BLUEPRINT

INTRODUCTION

- Smart Digital Green Port (SDGP) concept is based on smart, green and digitally integrated systems, efficient and competitive through technologies, automation and application of tools, efficiently use of energy and renewable resources, driving the socio-economic development, respectful with the environment, fully compliance to all maritime rules and regulations, secure and seamless for the benefit of citizens, the economy and society.

- SDGP in such away is a bridge for port sectors to achieve universal sustainability missions namely Sustainable Development Goals by 2030.

- The Sustainable Development Goals (SDGs) represent a holistic and integrated approach to protect the environment, improve societal issues and achieve economic at global levels.

- As globally connected entities and as centres of key economic activity, the port sector is perfectly positioned to take the lead in a significant contribution to the global agenda.

- With increasing expectations and pressure from stakeholders, the SDG platform provides Port businesses a unique opportunity to increase transparency, trust, demonstrate responsible leadership and built partnership.
Smart Digital Green Port (SDGP) concept is introduced by Bintulu Port authority to achieve our main mission.

SDGP Blueprint provides clear guides to Bintulu Port Authority management, sustainability team and staff and all stakeholders and importantly the Port Operator on way forward and methodology to implement and manage the programs in order to achieve the missions according to the targeted timelines.

SDGP Blueprint consists of all elements related to the mission; blueprint strategic mission and vision, SDGP propose and approach, SDGP Policy statement, regulatory alignment, strategic objectives, strategic outcomes, blueprint development process, detail SDGP criteria and indicators, SDGP strategic directions, current logistic frameworks, maritime industry trends and movements, critical supply chain for SDGP, SDGP blueprint implementation methodology, summary matrix of proposed initiatives and monitoring and measuring success procedures.

2030

Full-fledge Smart Digital Green Port Status and Certified Carbon Neutral
SDGP BLUEPRINT DIRECT AND INDIRECT BENEFITS

CLIMATE CHANGE

- BPA able to manage their carbon emissions and use the data and information for environmental and economic benefits.
- Carbon neutral initiatives is still new in Malaysia, BPA can be a leader and mentor to other ports.
- BPA can collaborate and get certification for green port status from the World Port Climate Initiative (WPCI)

ECONOMY

- BPA can capitalize on new brand: a Certified Green port, a full fledge Digital Port and Carbon Neutral Port in their promotions and business dealings worldwide. BPA can also form Smart digital green port alliances to position them as champion of new digitally environment sounds port.
- Higher economic multiplier due to increase in trade of LNG, Palm Olein and local exports.
- Applications of smart digital instruments will increase the efficiency and reduce the operations costs.

ENVIRONMENT

- BP has the opportunity to implement low sulphur fuels rules to be at par with other ports.
- Implementation of online environmental monitoring will help BPA to closely monitor and report the port environmental status
- Development of eco-park will be a new signature of Bintulu SDG Port

SOCIAL

- SDGP will increase direct and indirect employment in line with increase of port productivity.
- 50% of workforce are certified competent workers indirectly can solve new minimum wage requirements
- BPA able to implement capacity building and promote local culture programs as part of their CSR and CER contributions.
BINTULU PORT SDGP IMPLEMENTATION FRAMEWORK

• Bintulu Smart Digital Green Blueprint was built on the universal platform of United Nations’ Sustainability Development Goals and smart digital green port criteria of operations, energy, environment and, organisation and management pillars.

• The SDGP Blueprint is envisage to be implemented on SMART concept:

  S  Specifics  Very specific in achieving a mission to be the first net zero carbon port in Asia by 2030.
  M  Measurable  All smart digital green initiatives will be quantified for baseline, performance monitoring and reporting purposes
  A  Achievable  Proposed initiatives, projects and programs are individually analysed to ensure they are achievable
  R  Readshre  All SDGP initiatives, projects and programs are equipped and monitored according to time schedule
The SDGP blueprint explains about 16 indicators for qualification as green port and 4 main pillar criteria and 32 sub-criteria for smart digital green port; operations pillar, energy consumptions pillar, environment pillar and, organisation and management pillar.
Bintulu Port believes that the access that ports provide should strive to be better: faster, smarter and cleaner. Faster by investing in their processes and services. Smarter by embracing innovation. Cleaner by being a big port with a small footprint.

5 PRINCIPLES:
1. Protect the community from harmful environmental impacts of Port operations
2. Project the Port as a leader in promoting environmental compliance
3. Promote sustainability
4. Employ the best available technology to mitigate negative environmental impacts
5. Inclusiveness

10 BASIC ELEMENTS:
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; operations
JOURNEY TOWARDS SMART DIGITAL GREEN PORT

Collection with Higher Learning Institutions
R&D Operational Excellence Program
IoT and Data Analytics Program
Smart Logistics Management Program
Energy Management Program
50% RE Port Program
Business Intelligence Decision Making Program
Env, Sustainability Program
Full Automated SOC Port
Integrations ISO 14001 Program
Asset Abandonment and Disposal Program
ISO 14001 Program
Transformed: To become market leader in Asia

Optimization: Pre-action approach to achieve sustainability goals
Robust: Driven to act on environmental and social issues
Compliant: Rules and regulations relevant to sector quality project

Ambition 2030, Vision, Mission, Methodology and Cockpit Reporting by Pillars: A Transformation Map of a goal and the journey towards it
SDGP PROGRAMMES FRAMEWORK

**BINTULU PORT AUTHORITY SUSTAINABILITY TEAM**

- Provide awareness about SDGP
- Plan for capacity building
- Guides on how to use the Blueprint
- Assist to identify green projects
- Compile Baseline/Carbon Footprint
- Compile performance reports
- Perform Verifications
- Receive progress reports
- Guides to set new green targets

**BINTULU PORT OPERATORS/VENDORS/PRIVATE & PUBLIC AGENCIES**

- Participate in SDGP Programs
- Participate in training/capacity building programs
- Identify green projects and notify BPA
- Prepare Baseline/Carbon Footprint
- Prepare performance reports
- Perform Measurements
- Prepare progress reports
- Set new green targets
SMART DIGITAL GREEN PORT PROGRAMS
By adopting the SDGP Blueprint, setting up sustainability team and initiating various green measures, the port has demonstrated its commitment towards a green agenda.
THANK YOU

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