



APEC PORT SERVICES NETWORK

# Best Practices of Green Port in APEC Region

## 亚太绿色港口最佳实践

2018





# APSN at A Glance

Established by APEC Leaders at its 14th Meeting

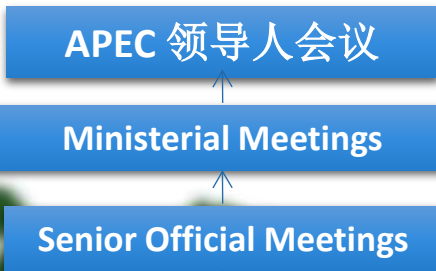


**2006**

**18 NOVEMBER 2006, HANOI, VIETNAM**

The APSN was initiated by Chinese leader and endorsed by all leaders at the 14<sup>th</sup> APEC Economic Leaders' Meeting held in Viet Nam in 2006, established under the auspices of APEC in 2008, supported by APEC Transportation Ministerial Meeting and all member economies.

Non-profit Organization, operationally supported by Economy of China.



竞争政策与法律工作组

- 汽车行业
- 商业促进
- 化学工业
- 电子商务
- 服务
- 知识产权
- 投资
- 生命科学
- 市场准入
- 原产地规则
- 海关程序
- 标准

- 反腐
- 农业技术
- 反恐
- 应急
- 能源
- 人力资源
- 健康
- Transport**
- 海洋和渔业
- 非法采伐
- 电信
- 旅游
- 妇女与经济
- 科技创新
- 中小企业

- ABAC
- APEC Study Center
- 农业生物科技
- 食品安全政策

Goal: Free and open trade and investment in the Asia-Pacific Region

Facts and Figures of APEC

- Established in 1989,
- The biggest Regional Economic Cooperation Forum in the world,
- 21 Members,
- Population, 2.8 billion, 40%,
- GDP, 59%,
- Trade, 49%
- Diversified in geography, economic, institution, religion and culture



中国经济体提供运营支持。  
秘书处设在交通运输部水运科学研究院

APEC Organizational Structure

# Goals of APSN

---

## Promote Physical, Institutional and People Connectivity in APEC Port Industry

**FOUR**

Encourage enhanced safety, security, efficiency and environment

**THREE**

Bridge between APEC port and competent authorities



**ONE**

Promote the development of APEC Port industry

**TWO**

Encourage capacity-building and information sharing





## APSN MEMBERS

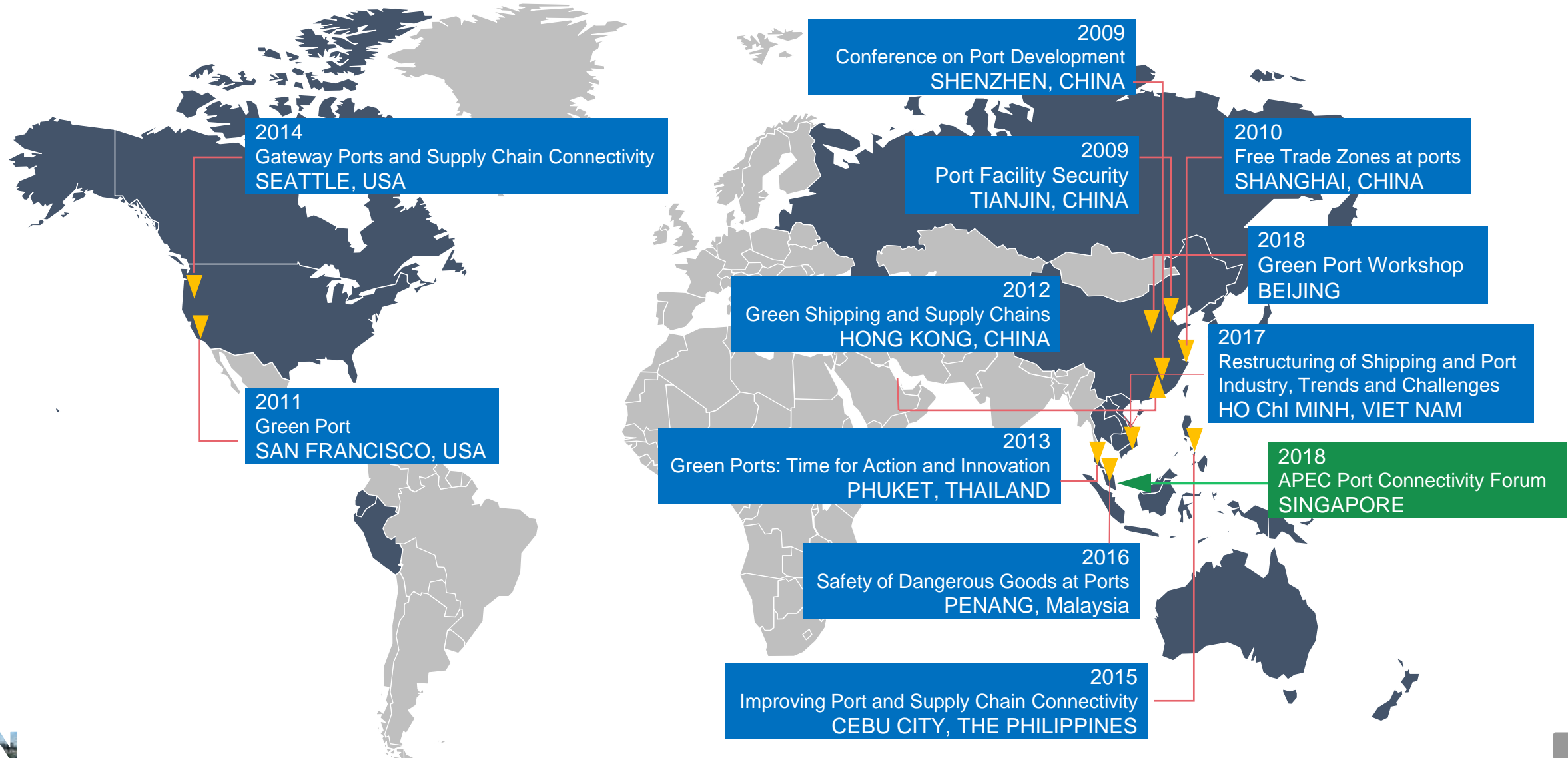


18 Council Members

15 Advisory Board Members

100+ Regular Members

# APSN Workshops: 2008-2018



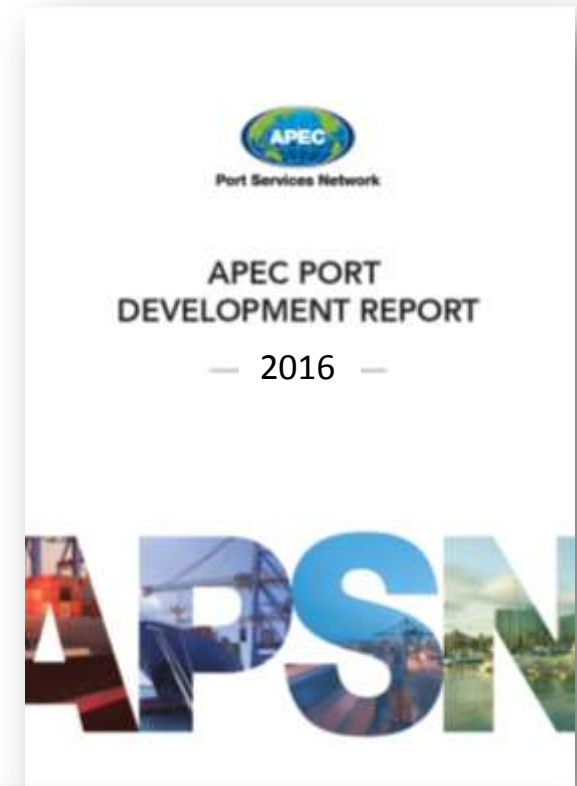


# APSN Projects and Studies:

- Port Development Reports
- Best Practices on Green Port
- Best Practices on Port Safety
- Newsletters

# APSN Study Center

- Will be inaugurated in 2018
- More Studies are expected to enhance member services





Roadmap to develop green port

Platform for best practices sharing

Promote port's overall competitiveness

Improve sustainable development capacity

## GPAS (Green Port Award System)

A green evaluation system for ports in the APEC region, developed by APSN, aim to encourage green and sustainable development, strengthen social and environmental awareness





# GPAS Guiding Principle

亚太绿色港口项目的核心指导原则：港口在绿色工作中的进步

The Progress Achieved on the Way of Going Green



# GPAS Indicator System

Primary Indicator	Secondary Indicator	Reference Standard
Commitment and Willingness (25%)	Green Port Awareness and Willingness (60%)	<ol style="list-style-type: none"> <li>(1) Green strategy or development plans</li> <li>(2) Green support funding</li> <li>(3) Green annual reports</li> <li>(4) Others</li> </ol>
	Green Port Promotion (40%)	<ol style="list-style-type: none"> <li>(1) Green training programs</li> <li>(2) Green promotion campaigns</li> <li>(3) Others</li> </ol>
Action and Implementation (50%)	Clean Energy (15%)	<ol style="list-style-type: none"> <li>(1) Using renewable energy sources</li> <li>(2) Using of LNG</li> <li>(3) Using cold ironing (shore power)</li> <li>(4) Others</li> </ol>
	Energy Saving (30%)	<ol style="list-style-type: none"> <li>(1) Using energy-saving devices &amp; technologies</li> <li>(2) Optimizing power supply system</li> <li>(3) Others</li> </ol>
	Environmental Protection (40%)	<ol style="list-style-type: none"> <li>(1) Air pollution prevention</li> <li>(2) Noise control</li> <li>(3) Waste treatment (liquid and solid)</li> <li>(4) Others</li> </ol>
	Green Management (15%)	<ol style="list-style-type: none"> <li>(1) Green environment management system</li> <li>(2) Green performance assessment</li> <li>(3) Others</li> </ol>
Efficiency and Effectiveness (25%)	Energy Saving (40%)	<ol style="list-style-type: none"> <li>(1) Energy consumption reduction</li> <li>(2) Renewable energy increment</li> <li>(3) Others</li> </ol>
	Environmental Protection (60%)	<ol style="list-style-type: none"> <li>(1) Air quality improvement</li> <li>(2) Noise control result</li> <li>(3) Liquid &amp; solid pollution control</li> <li>(4) Others</li> </ol>



## Top Environmental Concerns:

-  **Air Pollution**
-  **Waste Treatment**
-  **Energy saving**
-  **Clean Energy**
-  **Community Relationship**



# GPAS Expert Pool

23 experts from 13 economies, The GPAS Evaluation Committee, no less than 7 experts, follow a rule of conflict of interest.

- BELGIUM
- SPAIN
- NIGERIA



# GPAS 2016 Winners



**Bangkok Port, Thailand**



**Jurong Port, Singapore**



**Beilun 2nd Container Terminal, Ningbo  
Zhoushan Port, China**



**Port Klang, Malaysia**



**Port of Singapore, Singapore**



**Port of Tanjung Pelepas, Malaysia**



**Sixth Port Branch, Qinhuangdao Port, China**





## GPAS 2017 Winners

---



**Bintulu Port, Malaysia**



**Chiwan Container Terminal Co., Ltd, China**



**Johor Port Authority, Malaysia**



**Port of Batangas, The Philippines**



**PSA Singapore, Singapore**



**Shekou Container Terminals Ltd, China**



**Tan Cang Cat Lai Port, Viet Nam**

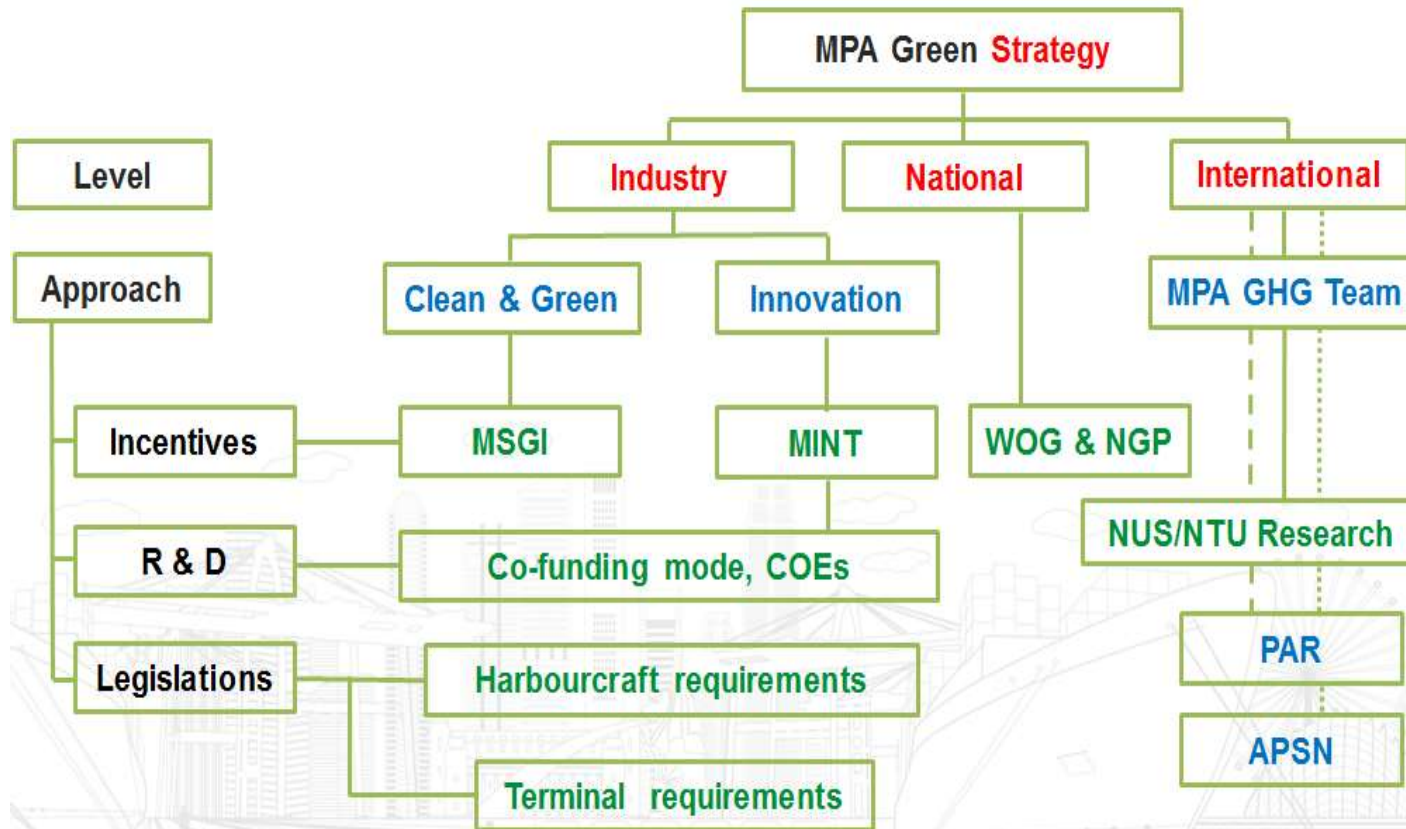


# 1. Commitment and Willingness Best Practices

## 开展绿色工作的意愿和承诺

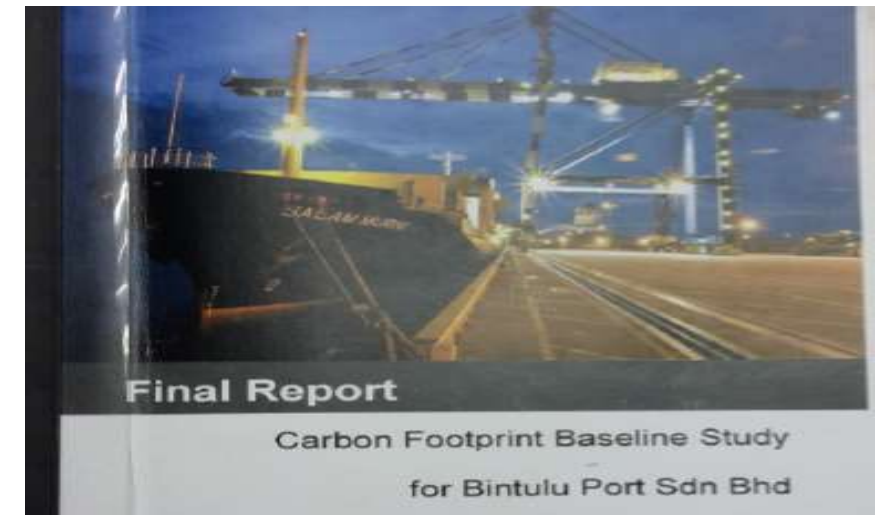
Green Port Awareness and Willingness

- (1) Green strategy or development plans
- (2) Green support funding
- (3) Green annual reports
- (4) Others



## Green Port Programme

- **Applicable**
  - Ocean-going ships calling at the Port of Singapore
- **How to qualify?**
  - Burn clean fuels (<0.5% m/m sulphur content) within port limits
  - Use of approved abatement technology
  - Use of clean fuels (e.g. LNG)
  - Applicable to port calls of five days or less, and maintain use throughout entire port stay
- **Incentives**
  - 25% reduction in port dues









## 2. Action and Implementation Best Practices 有关绿色的主要行动

### Clean Energy 清洁能源

- Using renewable energy sources
- Using of LNG
- Using cold ironing (shore power)
- Others



West Coast Pier



Brani Depot



Marina South Pier

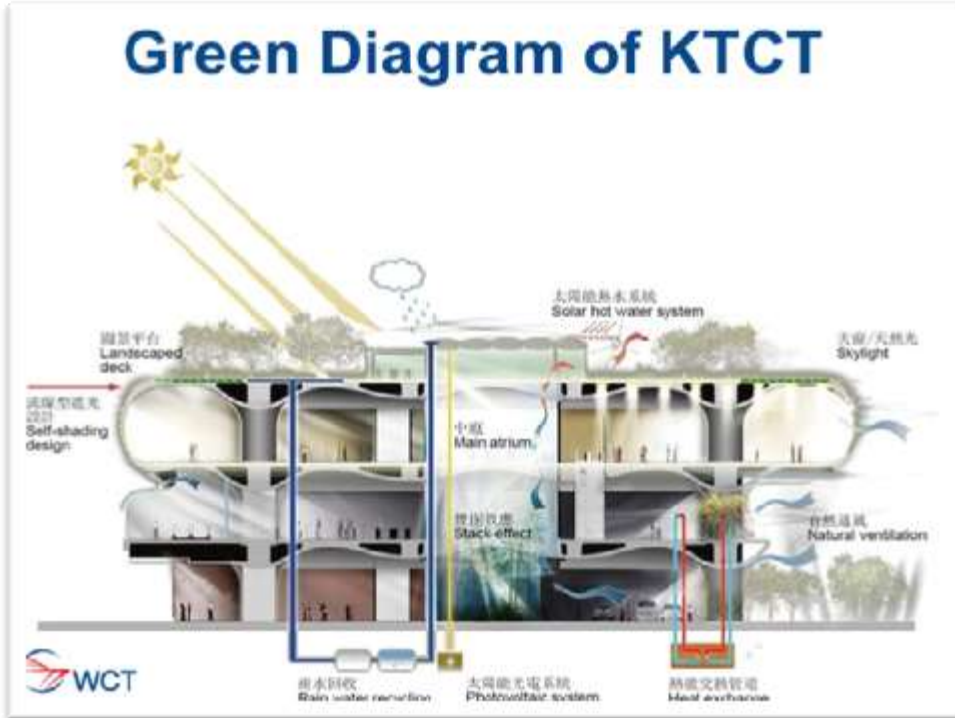






# Energy Saving 节能

- Using energy-saving devices & technologies
- Optimizing power supply system
- Others







# Environmental Protection 环境保护

- Air pollution prevention
- Noise control
- Waste treatment (liquid and solid)
- Others



Relocated **2,300** out of **2,800** corals colonies to preserve marine biodiversity

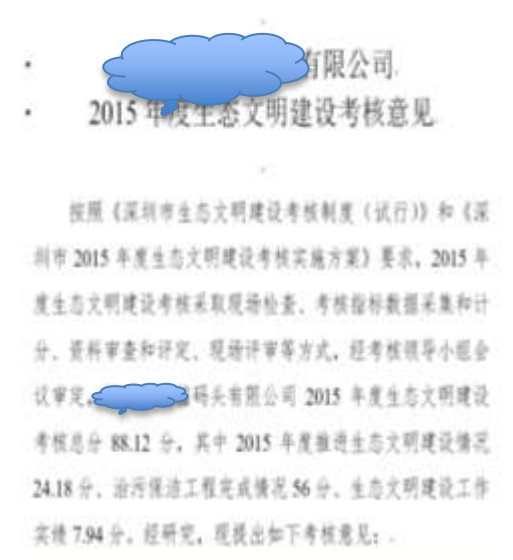
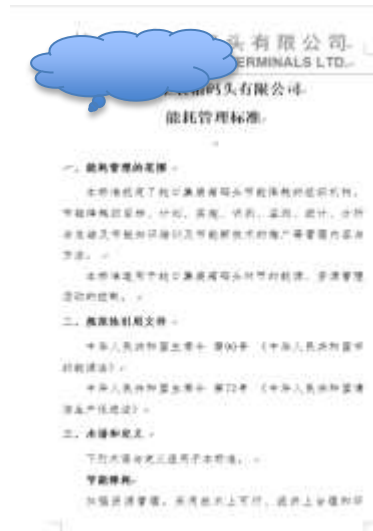


## Green Management 绿色管理体系

- Green environment management system
- Green performance assessment
- Others



- 企业的绿色管理体系完备
- 企业的管理体系和考核体系中关于绿色和可持续发展的规章、制度等。
- 有关内容重点体现了绿色和可持续发展的常态化。







A platform for best practices sharing



# GPAS Workshop 2018

April 17-18, 2018, Beijing



Bridge the Gap Between the Expectations and Practice



Sparkles raised in the workshop

- \* The green boundaries
- \* Go beyond green to sustainability
- \* Port and community relations
- \* Port and city's collaborations
- \* Address underwater noise concerns





# Thanks!

