Green Shipping Future – China’s perspective

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As a major stakeholder of international shipping industry, it is crucial that we look back to get the momentum and look ahead to predict the future trends, and act proactively.
For decades, the member states of IMO have exercised strong and decisive leadership in creating the legal and technical framework within which shipping has become progressively cleaner, greener and safer.

...in 2030. These ships will be smarter, data driven, greener, with flexible powering options, fully connected wirelessly onboard, digitally connected through global satellites. (Lloyd's Register, QinetiQ and University of Southampton. Global Marine Technology Trends 2030, 2015)
If you wanna know what China’s gonna do, best pay attention to the 13.5”

The fifth plenary session of the 18th Communist Party of China (CPC) Central Committee has just concluded, which set the tone for China’s 13th five-year plan.

Innovation, harmonization, green growth, inclusive development and a sharing economy will be guiding principles for China’s future socio-economic development.

China’s shipping sector has been stick to and will continue to adhere to these principles.
China’s Legal, Policy and Institutional Reform

- Develop Regulations on Implementation of Energy Conservation Law by Road and Waterborne Transportation.
- Enact Regulations on Statutory Survey and incorporate Chapter 4 of MARPOL ANNEX VI amendments into national legislation.
- Develop energy conservation and emission reduction strategy (2010–2020), strategic plan for road and waterborne transportation (5 year plan), and annual action plans.
- Encourage phase out of aged ships.
- Launch concrete programs to raise public awareness and build capacity. e.g., the "Car / Ship / Road / Port" Low Carbon Transport Action; low–carbon transportation day, etc.
- Promote energy conservation and low emission pilot projects.
Case study: COSCO Container Lines

- Develop a Fuel Oil Consumption Information system, monitoring the ship energy efficiency performance 24/7
- Establish trade lane specific EE benchmarks and improvement targets
- Install on-line EE monitoring sensors, allow company to collect & analyze timely data with a view to improve operations.
- Apply new technologies, e.g. trim automatic adjustment system, SEAMate™ main engine cylinder oil online blending technology, advanced weather routing systems, etc. to ensure the optimum operational conditions
Industry Initiatives—COSCO Container Lines

- Awarded Green Gateway Partners by the Port of Seattle in 2014, which recognize its comprehensive environmental achievements.

- Awarded the Green Flag Award by the port of Long Beach for years in succession.

- Participate in the Hong Kong Fair Winds Charter and voluntarily switch to low sulphur fuel while at berth in Hong Kong.

- Become the third company be verified and certified the Clean Shipping Index Certifications by the BSR CCWG.

- 12 Container vessels have acquired Environmental Ship Index certificates under an umbrella of the International Association of Ports and Harbors' (IAPH) environmental initiative—World Ports Climate Initiative (WPCI).
Technology R&D

The Chinese government, through official tenders and projects, stimulates to the greening of maritime industry and for increased use of "green" technologies and systems, and more environmental friendly fuel for ships.

China maritime industry, classification society and research institutes are taking the lead in developing EE technologies, such as alternative hull design, hybrid power systems, advanced materials, etc.

The Green shipping approach is not only about individual initiatives and endeavors, but also about the close integration and shared development of the world.

Capacity building and technology development will be the key for our shared future. But, how to remove barriers to EE technologies and measures?

To create the enabling environment, we need global network and partnership for maritime technology cooperation.
"It is critically important to develop global partnership and networking mechanisms to accelerate cooperation in maritime technology transfer" – Koji Sekimizu, IMO Secretary-General

The GloMEEP, which dedicates to the creation of a strong partnership and coordinated actions among 10 developing countries, would be a frontier for a global network and partnership.

China welcomes IMO’s initiative and fully supports this project. As a member of GloMEEP family, we will endeavor to make contributions to this global partnership and network.