Undertaking Social Responsibility and Promoting Green Shipping

COSCO Container Lines Co., Ltd,

2015-10
About COSCO Container Lines (COSCON)

A Global Service Provider Exclusively in the Container Shipping Business

- **182 container vessels with a capacity of 870,000 TEUs (by 2015/08)**
- Ranks 6th globally and 2nd in Asia
- Calls at more than 192 ports in over 64 countries and regions
- Consumes about 2.5 million tons of fuel annually
Fuel Consumption

Annual fuel consumption of 2015 (estimated):
2.54 million tons with a fleet capacity of around 900,000TEUs

In 2008: 2.69 million tons with 498,000TEUs
Fleet capacity doubled, fuel consumption -5.7%

Energy Efficiency being improved

- Adjust the fleet structure
- Improve the operating capability
- Optimize the routing
- Develop advanced technologies
- Super-slow steaming
Energy-saving and Emission-reduction

Undertake social responsibility from a global perspective in the era of globalization

Established and optimized the **Energy Management System**

Independently developed the COSCON Energy Efficiency Management Information System and the Carbon Emissions Calculator

Implemented the **Ship Energy Efficiency Management Plan** to meet the discharge requirements for special sea areas stipulated by IMO and coastal states

Acquired the Energy Management System Certificate issued by DNV
## Energy-saving and Emission-reduction

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| 1 | Huge investment in ship energy management and super-slow steaming  
 Granted special awards by government for 3 consecutive years |
| 2 | Scrapped over 40 old vessels with lower energy efficiency and higher risks of pollution |
| 3 | Clean energy initiatives, shore-based power supply, and low-sulphur fuel: Fair Winds Charter of Hong Kong,  
 Green Flag Awards from Port of Long Beach, Green Gateway Partners Awards from Port of Seattle |
| 4 | Joined the Clean Cargo Working Group of Business for Social Responsibility; accredited the verification certification of Clean Shipping Index with 12 vessels; the 3rd certified shipping company in the world |
| 5 | Joined the Environmental Ship Index by International Association of Ports and Harbors  
 12 ultra-large container ships registered and started the half-yearly verification |
The Global Trend of Green Shipping

We have taken more actions

**Raising energy efficiency to a higher level**
- retrofit of new energy-saving propellers and bulbous bows
- improve ship in-port efficiency (non-sailing efficiency)
- set up 24hr monitoring center
- even-power sailing and trim optimizing

**Increase vessels’ operational efficiency**
- vessel routing, speed tuning, cargo loading, fleet management
- optimize our resources to increase energy efficiency

**Adopt energy efficiency design for our newbuildings**
- Computational Fluid Dynamics and ship model test
- LNG-Ready for the future remodeling
We call on all participants to:
- enhance the cooperation between carriers and ports,
- increase operation efficiency of vessels in port,
- make every effort to promote energy-saving and emission-reduction,
- promote green shipping, and
- further enhancing contributions to benefit the environment!
Thank You!