



Arab Academy
for Science Technology & Maritime Transport

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“Marlog 11”

Challenges and Countermeasures brought By de-carbon to shipping companies

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Towards a
SUSTAINABLE **BLUE**
ECONOMY

20 - 22 March, 2022
Hilton Green Plaza Hotel



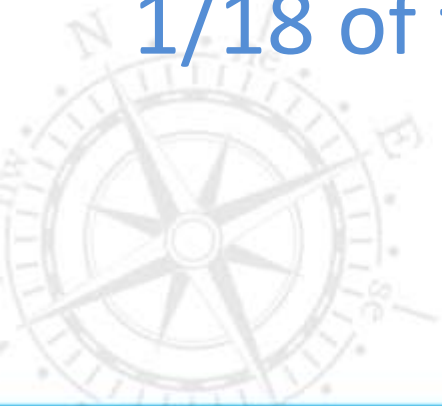
Brief Introduction of COSCO SHIPPING

- An important member of international shipping logistics.
- Continuously stay ahead in global shipping industry.
- Fleet capacity has reached 110 million DWT.
- Ranked 231st on the Fortune Global 500 list.



Brief Introduction of COSCO SHIPPING

- Each day, 18,000 seafarers navigating on the sea for global trade;
- Carrying 1/10 of the world's cargo with 1/18 of the world's fleet capacity.



Seafarers’ persistence and dedication

Ensured the stable development of the world economy ;

Supported people's living and working in peace and contentment.

we pay tribute to the global seafarers!



--Nearly 90% of the transportation cargo of Global trade with lowest energy intensive transportation mode and the core component of sustainable development.

Facing great challenges and need to deal with together



1、 Correct understanding of the challenges brought by de-carbon

Not only an important mission of the shipping industry, but also the necessity of the transformation and development of shipping enterprises themselves.

The shipping industry is making active efforts to reduce GHG emissions.



1、 Correct understanding of the challenges brought by de-carbon

First, pressure from industry organizations.

--In 2018, IMO preliminary strategy of GHG reduction in 2030, 2050 and the end of this century.

--IMO review of the preliminary strategy.

1、 Correct understanding of the challenges brought by de-carbon

First, pressure from industry organizations.
Shipping company should be fully prepared and make technical and management reserves.

IMO-GHG: EEDI, EEXI and CII on newbuilding vessels and existing vessels.



1、 Correct understanding of the challenges brought by de-carbon

Second, from the government’s driving force.

China “Carbon peak” in 2030 ,”carbon neutral” in 2060. Focusing on carbon intensity control and total carbon emission control to promote low-carbon transformation.



**1、 Correct understanding of the challenges
brought by de-carbon**

Third, influence from regional alliances.

EU fit for 55

EU-EST

CBAM



2、 Shipping industry should become the leading and key force of low-carbon development

Demand drives industrial development;
Industrial development promotes demand.
The development of low-carbon industry
needs the release and efforts of the demand
power of the shipping industry.

2、 Shipping industry should become the leading and key force of low-carbon development

The pioneers have made a commitment that 5% of ocean shipping will be provided by the vessels with zero emission fuel by 2030.



2、 Shipping industry should become the leading and key force of low-carbon development

Some regions or countries have also put forward a declaration to achieve zero emissions from shipping industry by 2050.



2、 Shipping industry should become the leading and key force of low-carbon development

Port Shanghai to Los Angeles green shipping corridor by the end of 2022.



2、 Shipping industry should become the leading and key force of low-carbon development

LNG

Methanol

Ammonia

Hydrogen

Electric energy

Other energy



2、 Shipping industry should become the leading and key force of low-carbon development

Action by COSCO SHIPPING:

--Research on the implementation path planning of the " Carbon peak and carbon neutral" goal.

--Global shipping business network (GSBN)



2、 Shipping industry should become the leading and key force of low-carbon development

Action by COSCO SHIPPING:

--Promote the application of smart ship, smart port and other technologies.

--Promote the use of shore power at the wharf.



2、 Shipping industry should become the leading and key force of low-carbon development

Action by COSCO SHIPPING:

- Built, delivered and operated the world's first LNG power VLCC tanker;
- Promote the Yangtze River pure electric container ship.

2、 Shipping industry should become the leading and key force of low-carbon development

Action by COSCO SHIPPING:

--Achieve carbon neutral in the supply chain with "carbon neutral fuel" project of China's first ship, linkage of shipping , energy and aviation industries.



3、 Cooperation from all walks of life is the fundamental guarantee for de-carbon of the shipping industry

Shipping industry "links" and serves all walks of life, and needs the support of all walks of life, especially decarbonization.

"2020 low sulfur fuel" effective promotion



3、 Cooperation from all walks of life is the fundamental guarantee for decarbonization of the shipping industry

The shipping de-carbon transformation.

Shipping industry itself has great potential in improving ship energy efficiency, reducing CO2 emissions and striving to achieve carbon neutral.

3、 Cooperation from all walks of life is the fundamental guarantee for decarbonization of the shipping industry

Goal of zero emission in shipping: strongly need the industrial chain including energy to give all-round cooperation and support in the R & D, production, supply, application and technical support of alternative fuels and power equipment.

3、 Cooperation from all walks of life is the fundamental guarantee for decarbonization of the shipping industry

COSCO SHIPPING: Explore the application of alternative fuels in sea-going vessels.



Thank YOU



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