Investor group visit to CWEC, Shanghai, China 24 September, 2019



CSSC WÄRTSILÄ (SHANGHAI) ENGINE CO., LTD.









• 13:00-14:45	Buss transport Hotel – CWEC
• 14:45-15:30	Chinese marine market and CWEC
• 15:30-16:00	Factory tour

• 16:05-17:50 Buss transport CWEC – Hotel



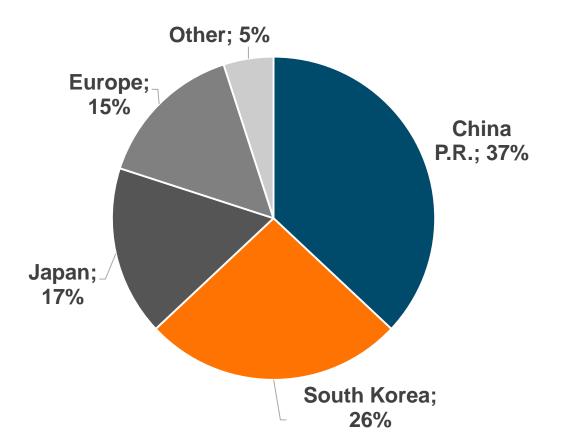
SHIPBUILDING IN CHINA



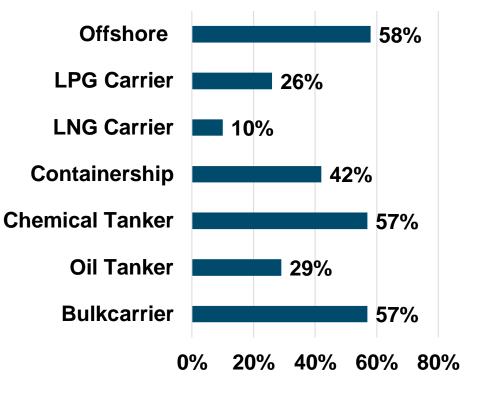


Order book per yard country CGT

Chinese Market Share Orderbook per vessel type CGT

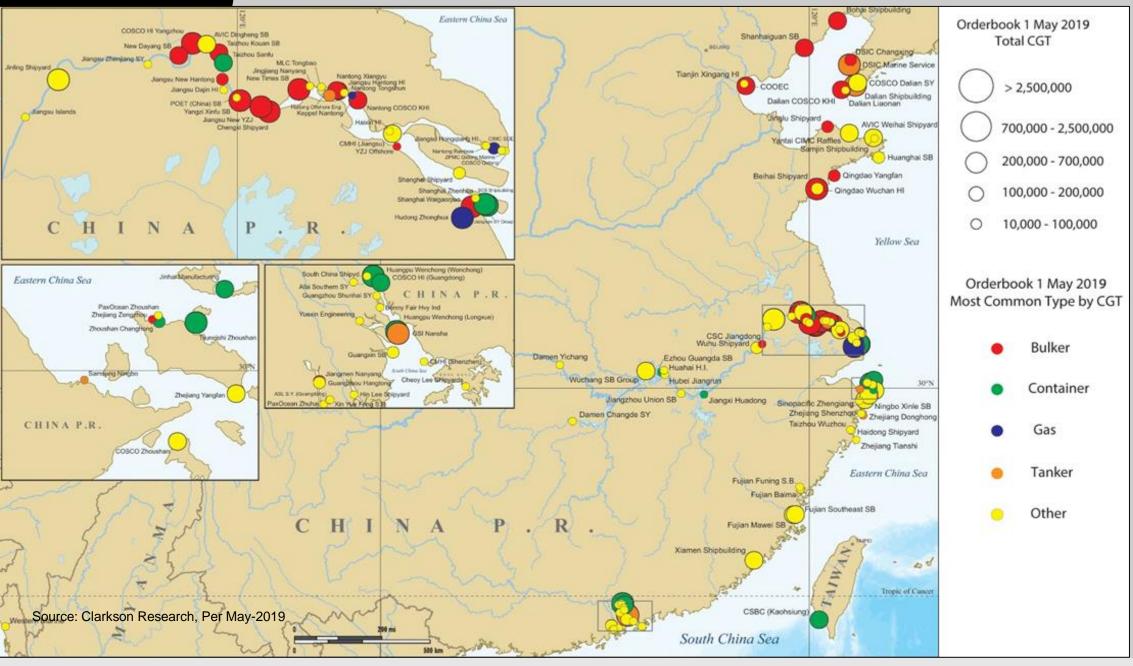


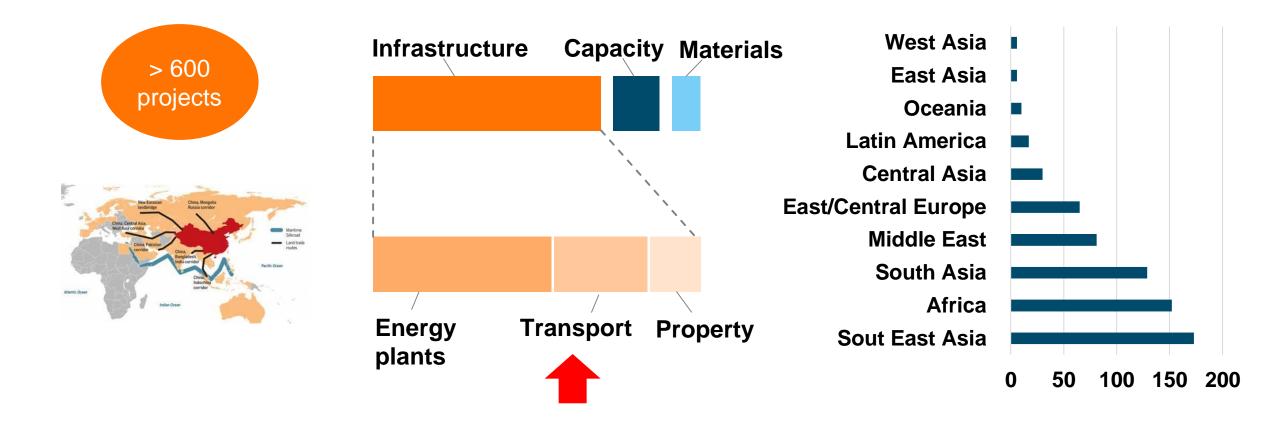
Source: Clarkson, per Apr-2019



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CHINESE SHIPYARDS



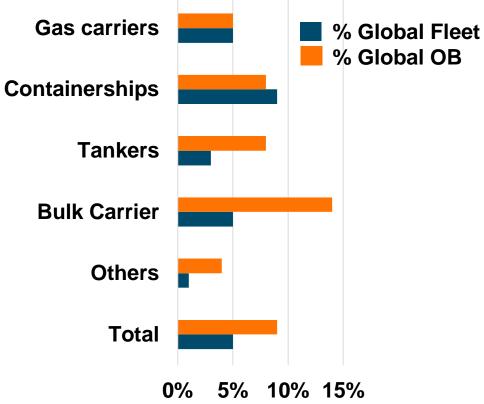


WÄRTSILÄ

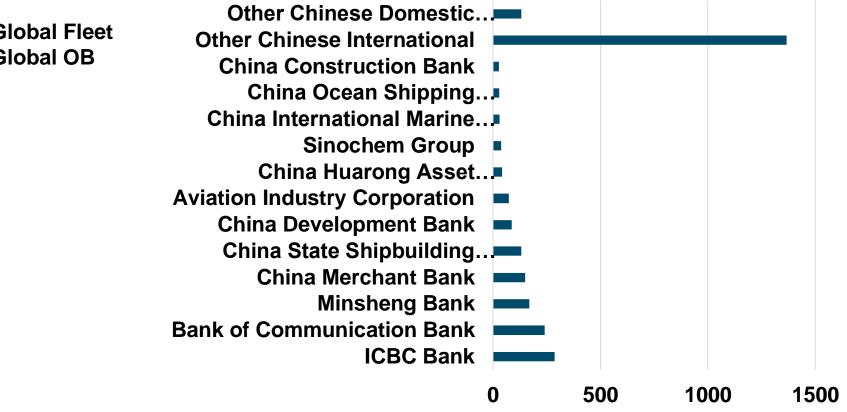
CSSC

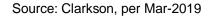
Source: Clarkson, Lit search

Global share of tonnage financed by Chinese Leasing Companies CGT



Major Chinese Leasing Companies Number of ships recorded







9 © CWEC

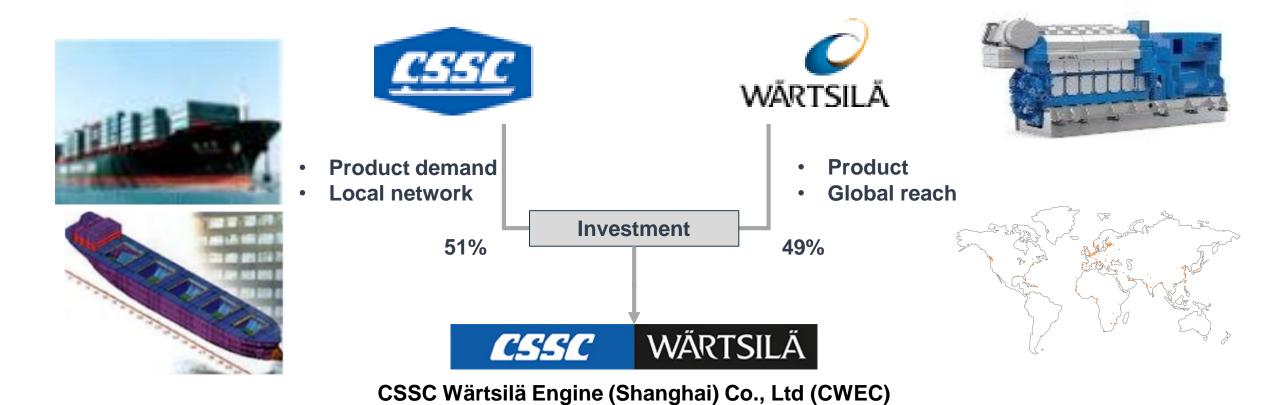








Established by 2 major industry players



WÄRTSILÄ

CSSC

An overview of CSSC (China State Shipbuilding Corporation)



WÄRTSILÄ

6-4-46

Source: CSSC

WÄRTSILÄ FOOTPRINTS IN CHINA

WCN, Dalian Rep. Office

Wärtsilä Qingdao Beihai Service Station

WCN Shanhaiguan Shipyard Service Station WCN, Beijing Rep. Office

Wärtsilä Sam Electronics Limited Company

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Transas Marine (Shanghai) Limited Company integrated solutions in safety, navigation and ship operations.

Automation, Navigation, AV Racks

Wärtsilä CME Zhenjiang Propeller Co Ltd FPPs, CPPs, shaft lines, blades and hubs

Wärtsilä (Suzhou) Ltd. Formal name is Hamworthy (Suzhou) Ltd. Sewage Water Treatment Plant, Inert Gas System, Control Panel

> Wärtsilä Services (Shanghai) Co Ltd Wärtsilä Ship Design (Shanghai) Co Ltd Wärtsilä HRDD Services Station

Wärtsilä Zhoushan IMC-YY Services Station

CSSC Wärtsilä Engine (Shanghai) Co. Ltd ______ — Wärtsilä 26, Wärtsilä 32, Wärtsilä 34DF, Wärtsilä 46F, Wärtsilä 46DF

----- CSSC Wärtsilä Electrical & Automation Shanghai Co Ltd

Wärtsilä Qiyao Diesel Shanghai Co Ltd Wärtsilä Auxpac 20 and 26 gensets

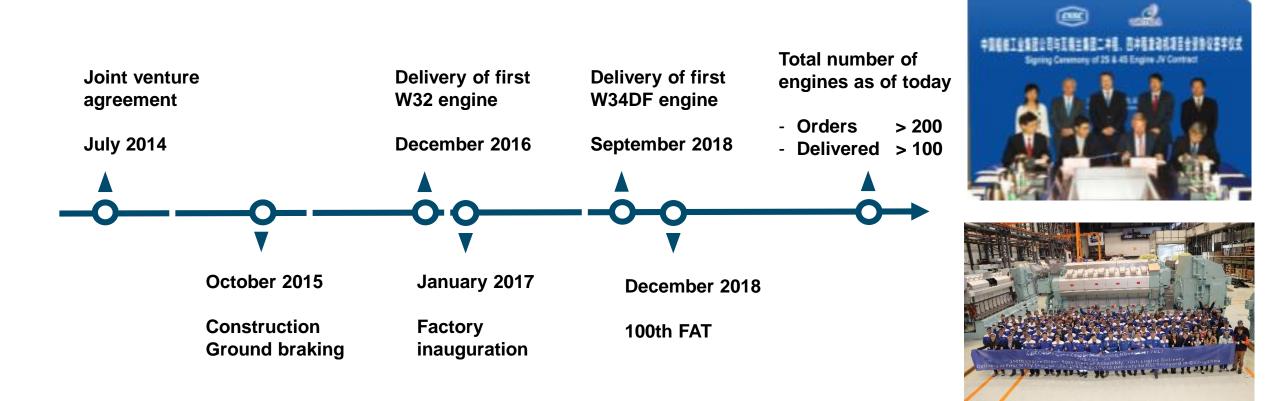
Wärtsilä Fujian Huadong Service Station Wärtsilä Services (Shanghai) Co Ltd, Guangzhou Office Wärtsilä Wenchong Service Station

WCN Yiulian (Shekou) Dockyards Service Station Wärtsilä China Ltd. (H.K)

Wärtsilä Ventures Joint Ventures

1,300+ employees in Wärtsilä China

The joint venture started production in 2016





Focus on customer expectations

Wärtsilä proven products State of the art facility build to purpose

Skilled and committed personnel

Strong focus on quality, health, and safety





Broad product portfolio, including leading Wärtsilä 34DF and 46DF



Rated power		5000	10000	15000	20000	Year of start
Wärtsilä diesel engines		I	I	I	I	
Wärtsilä 26 V						
Wärtsilä 32						2016/17
Wärtsilä 46						2019
Wärtsilä dual fuel engines						
Wärtsilä 34 DF						2018
Wärtsilä 46 DF						2020



WÄRTSILÄ

CWEC follow 100% Wärtsilä standard design, no modifications by CWEC





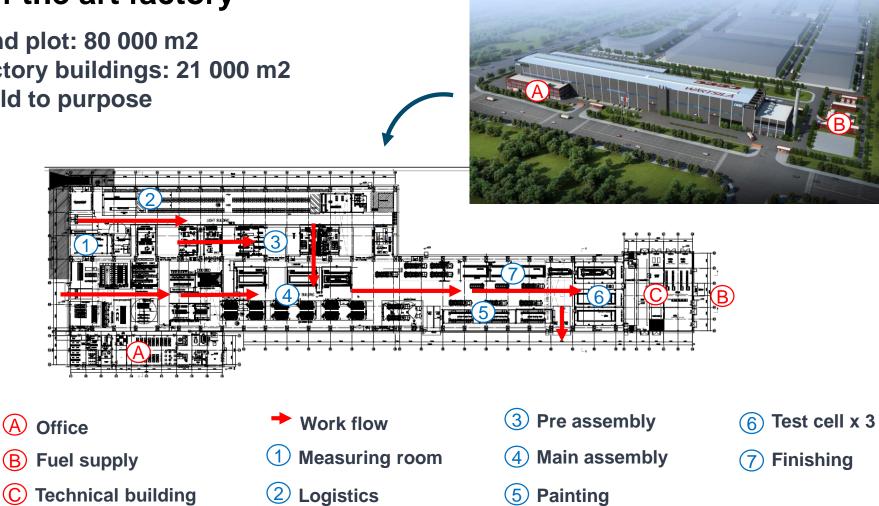
- All bill of materials (BoM) and drawings are made, approved and managed by Wärtsilä
- Non-standard request should be approved by Wärtsilä
- Wärtsilä engineering site support at CWEC



State of the art factory

- Land plot: 80 000 m2
- Factory buildings: 21 000 m2 •
- **Build to purpose** •

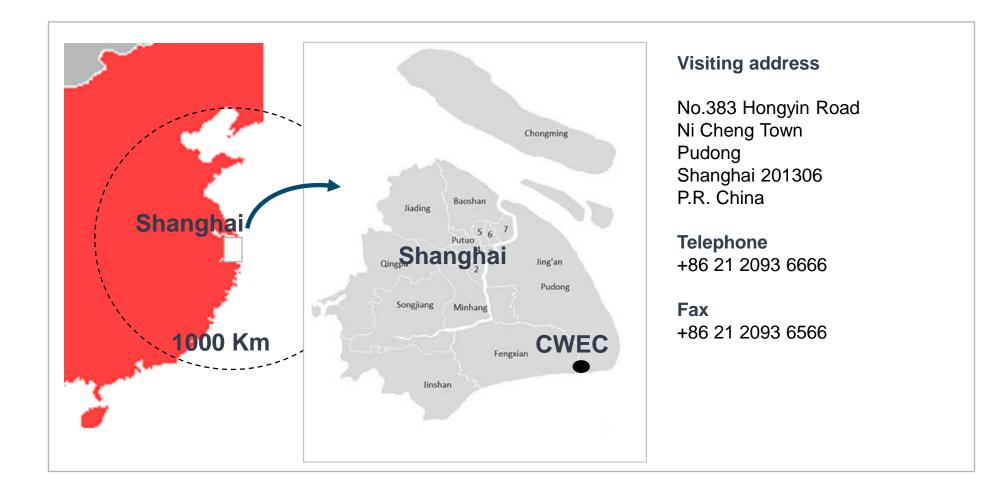
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CWEC location





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