



FPSO Solution with Chinese Yards

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Mr. Lu Qingpeng

Head of Offshore & Energy Department, CHQs

COSCO SHIPPING HEAVY INDUSTRY CO., LTD

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FPSO Solution with Chinese Yard



中远海运重工经营中心

COSCO SHIPPING HEAVY INDUSTRY COMMERCIAL HEADQUARTERS

CHI COMPANY PROFILE



Capable of Providing “ONE STOP SOLUTION” for Various Offshore Projects



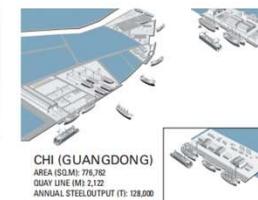
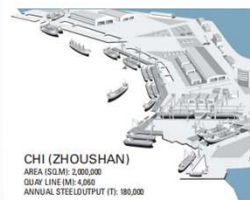
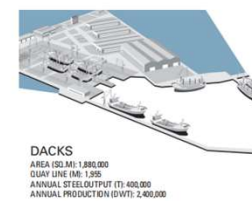
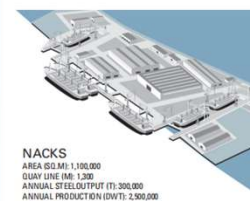
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MAJOR SHIPYARDS



COSCO SHIPPING HEAVY INDUSTRY

CHI 9 Shipyards



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MAJOR SHIPYARD



CHI Qidong - Offshore Yard

China leading offshore yard to provide EPC solution for oil/gas company.



Main products: Semi-submersible rig, FPSO, Jack-up, Offshore construction vessels and Modules etc.

Land area 1,000,000 m² & quay line 2,030m.



Graving dock: 400 x 120 x 14.3m
Gantry Crane: 600T * 2sets



Slipway: 350 x 110m
350 x 80m

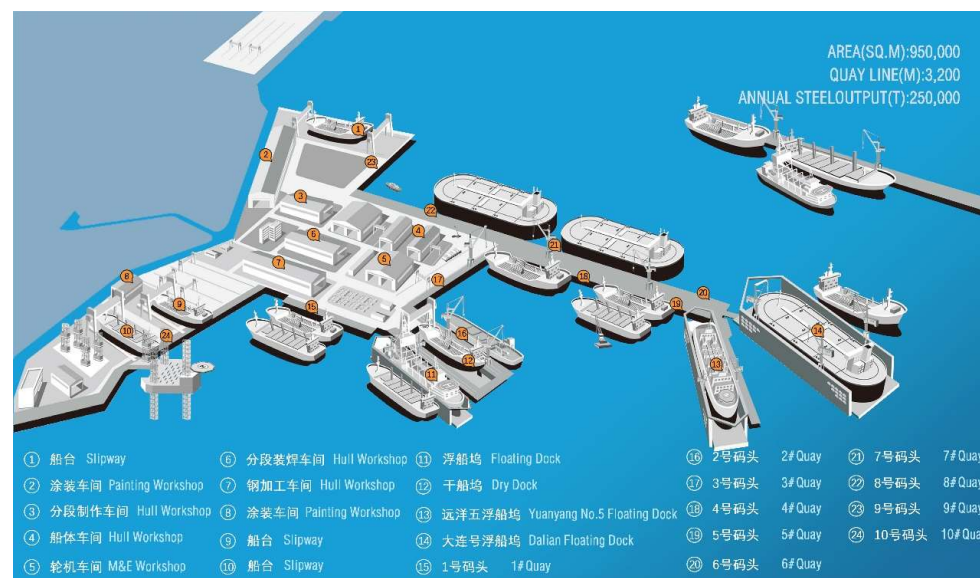


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MAJOR SHIPYARD

CHI Dalian - Shipyard

First Class FPSO Conversion Factory in China



Offshore Main products: Drillship, Jack-up, specialized vessels, FPSO conversion etc.

Land area 950,000 m² & quay line 3,200m.



Floating dock

340 x 76 m
310 x 57 m
270 x 48 m

Graving dock

240 x 40.5 x 11.8 m



Slipway

320 x 100m x 2
280 x 100 m x 2

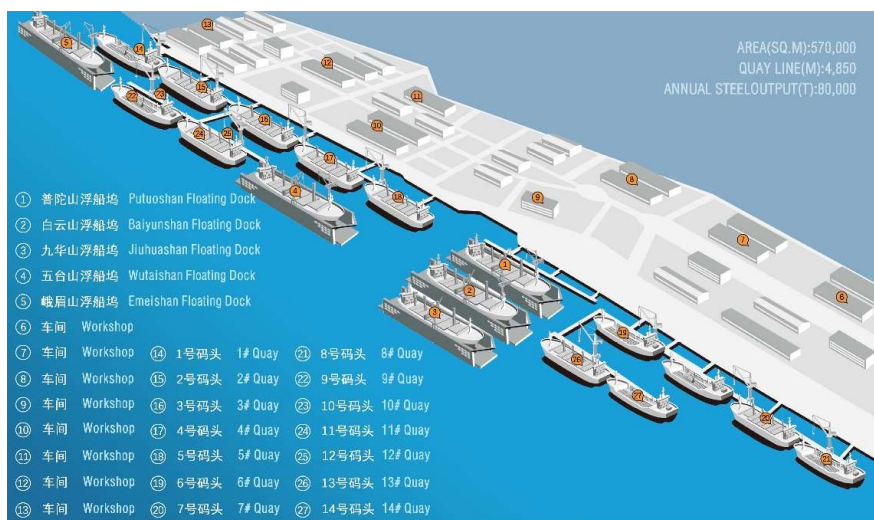


200 T Gantry Crane
400 T Gantry Crane

MAJOR SHIPYARD

CHI Shanghai - Shipyard

Adjacent to quarantine anchorage and Shanghai Yangshan Deep-water Harbor, with downtown access in just thirty minutes. Shipyard draft: -10m to -16m, capable of VLCC to turn around.



Offshore Main products: FPSO/FSRU Conversion, LQ & HUM modules.

Land Area 570,000 m² & Quay Line 4,850m.



Floating dock (4)

410 x 72m

308 x 50m

247 x 36.6m

190m x 29m

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OUR PRODUCTS



A Complete rang of offshore products covering your demands



Oil & Gas: Drilling, FPSO/FPU/FSO, FLNG/FSRU, Module Fabrication.

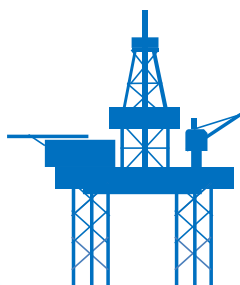
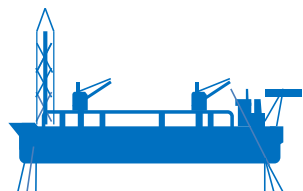


Renewables and Others: Floating Wind, Wave Energy, WTIV and Construction Vessel.



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TRACK RECORD



	Type of Project	Completed	In Progress
Oil & Gas Newbuilds and Conversions	FPSO/FSO/FPU Newbuild	10	4
	FPSO/FSO/FSRU Conversion	27	2
	Oil Transfer Vessel (Shuttle/CTV)	14	7
	Modular Construction	280K Ton	105K Ton
	Jackup and Tender Drilling Rig	17	
	Deepwater Drilling Rig	6	
	Semi Accommodation Rig	8	
Renewables & New Energy and others	Wind Turbine Installation Vessel	11	2
	Floating Wind Foundation	1	
	Wave Energy Device	1	
	Offshore Construction Vessel	13	4
	Platform Support Vessel	31	



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Production Unit - Newbuilding



FSO MV17



2008

PFU Octabuoy



2013

FPSO Dana



2017

FPSO P69/P70



2017/2018

FPSO Karish



2020

FPSO Tortue

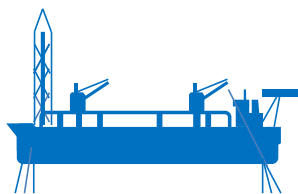


2023

In Progress: 4 Units

2025

2024



FPSO P82



FPSU Scarborough



FPSO Mero 4



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Production Unit - Newbuilding



2017.02



Yard Scope

- EPC

Client: DANA Petroleum
Basic Design: DPS / Sevan
Detail Design: DPS / COSCO
Class: DNV

Main Dimensions: OD 78 x 36.5 m
Process modules: 12 No.s
Topside weight: 8,800 T
Mooring: Spread
Storage: 400,000 bbl
Production rate: 44,000 b/d



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Production Unit - Newbuilding



bp GTA FPSO

Scope

- Hull + LQ EPC
- Topside construction
- Integration

Client: bp
Contractor: T.EN
Basic Design: T.EN / COSCO
Detail Design: T.EN / COSCO
Shop Design: COSCO

Main Dimensions: 270x54x31.5 m
Process modules: 15 No.s
Topside weight: 16,493 ton
Mooring: Spread
Storage : 1.4 Mbbbl
Gas production rate: 3.5 MTPA



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FPSO/FSO/FSRU Conversion



Delivered: 27 units

FPSO MV 18	FPSO P63
FPSO MV 19	FPSO P75
FPSO MV 20	FPSO P76
FPSO MV 22	FPSO P77
FPSO MV 23	FPSO BW Pioneer
FPSO MV 24	FPSO Pyrenees Venture
FPSO MV 26	FPSO Helang
FPSO MV 29	FPSO Nanhai Kaituo
FPSO MV 30	FPSO Haiyangshiyu 102
FPSO MV 34	FPSO Anna Nery (Marlim2)
FPSO MV 32	FPSO Sangomar
FSO Geudondong	FSRU GALEA
FSO Lentera Bangsa	FPSO Maria Quiteria (PdB)
	FPSO Agogo

In Progress: 2 Units

- FPSO Maromba - CHI Dalian
- FPSO Hammerhead - CHI Shanghai



Offshore/Onshore Modules



Type: Module for FPSO Conversion and Newbuilding
 Module for FSRU Conversion
 Module for LNG Facility
 Module for Other Projects



Windmill Installation Vessel



Various types of Wind Turbine Installation Vessels



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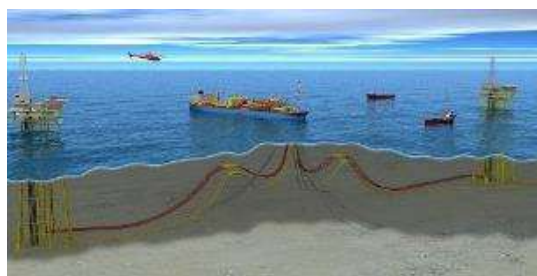
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Chinese Yards Capacity - Engineering



Pre-FEED

- Understanding of major functional requirements
- Assessment of possible options
- Technical feasibilities
- Preliminary MTO
- Support to marketing

FEED & Basic Design

- Specifications
- Layouts
- Design philosophies & guidelines
- Stability & global integrity
- Agreed with Client
- Approved by authority

Detail Design

- Functional and regulatory requirements are realized through detailed engineering
- Design and calculations in all relevant disciplines
- Approved by Client & authority

Shop Drawings

- Bite-size drawings for construction
- Standard procedures
- Workmanship

Hull & Marine

Topsides

In Developing

Strong

In Developing

Strong



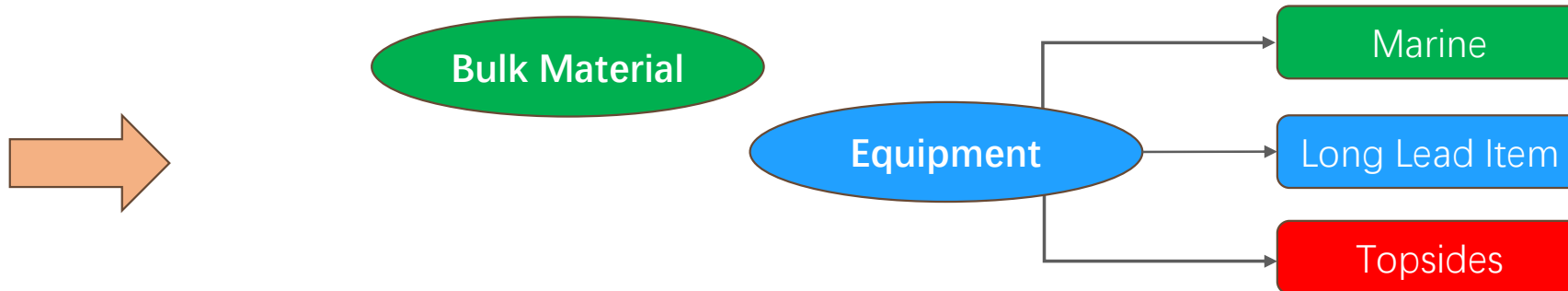
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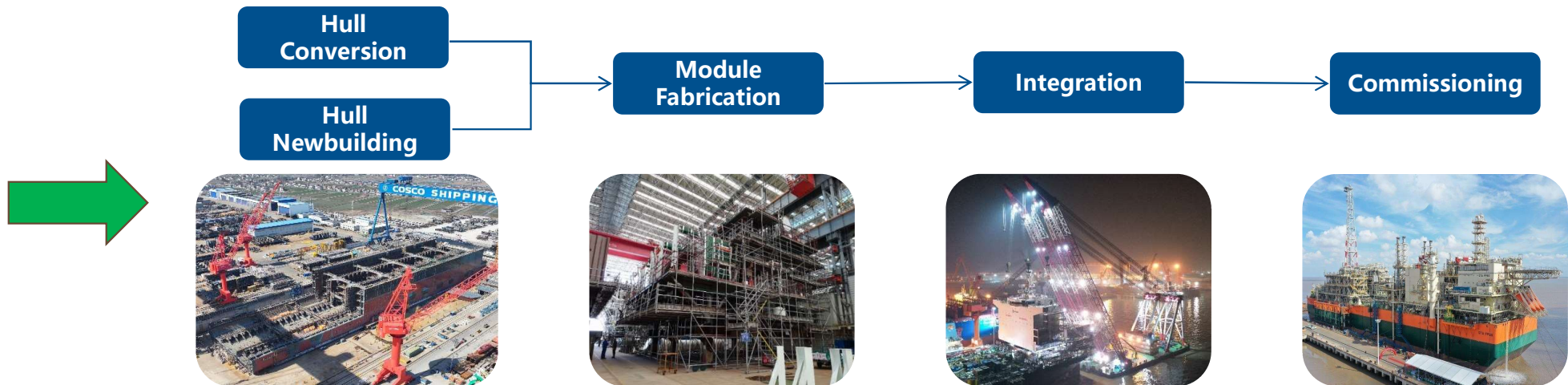
Chinese Yards Capacity - Procurement and Construction



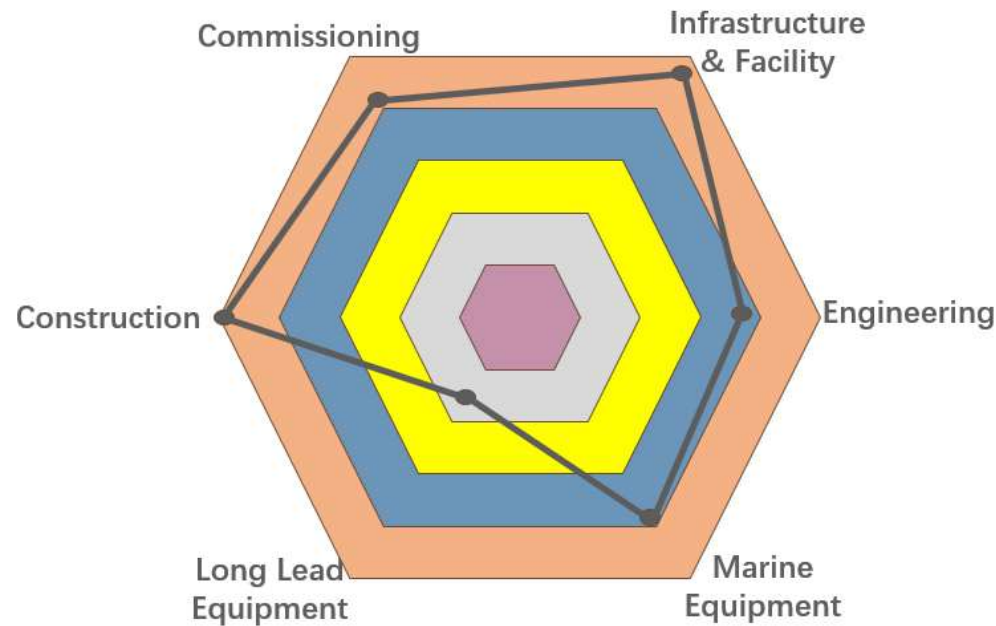
Procurement



Construction



Chinese Yards Capacity – Value Added To Clients



Advantages

- ◆ High Standard HSSE Management
- ◆ Reliable Quality Performance
- ◆ Competitive Schedule
- ◆ Cost Efficiency
- ◆ Domestic Supply Chain Service

Challenges

- ◆ Key Equipment Supply Chain
- ◆ International/Global Recognition

- ✓ More Involvement Of Concept & FEED Stage – Gain The Efficiency In Project Execution Phase
- ✓ Corporations Among Major Domestic Yards – Leverage Their Respective Expertise



Thank You

*We are
ready*