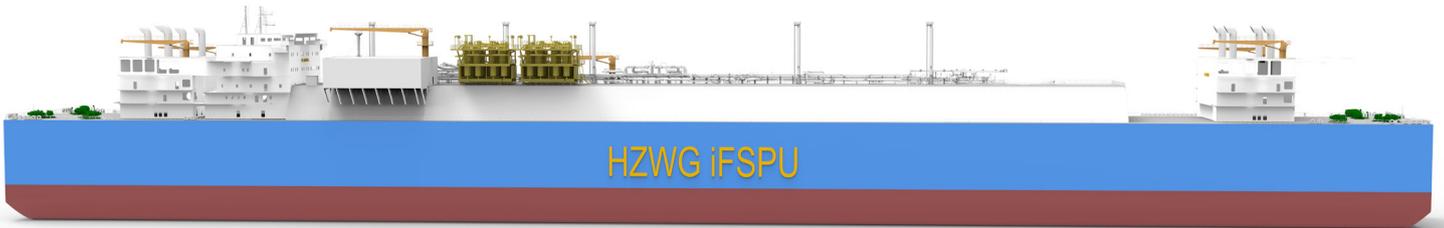


# VESSEL TYPE HZWG iFSPU 200/200

Designed by Hudong-Zhonghua Shipbuilding (Group) Co., Ltd.

Powered by WinGD



## Integrated Floating Storage Power Unit (iFSPU)

- Designed to provide an integrated solution combining high efficient power generation, LNG storage and regasification in a unique stand alone vessel.
- A superior solution, fast to deploy, can be tested at the shipyard, and delivered anywhere in the world.
- Includes WinGD iCER © technology package which enables compliance with stringent EU exhaust emission regulations without SCR.
- Fully compliant with local grid code - The WinGD genset offers high ° electric inertia, providing optimal support to stabilise grid systems with high penetration of renewable energies.
- Offers high reliability due to four independent engine rooms with dedicated step-up transformers. All common services are also duplicated.
- Combines Hudong-Zhonghua (HZ) market leadership in the LNG carrier construction with cutting edge WinGD two-stroke dual-fuel X-DF technology.
- Suitable for shallow water mooring deeper than 10mt
- The gas provision from regasification could serve onshore consumers and/or feed the local natural gas grid.

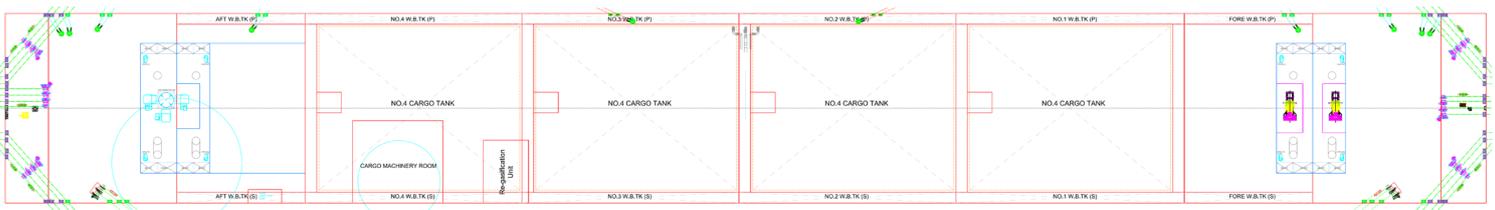
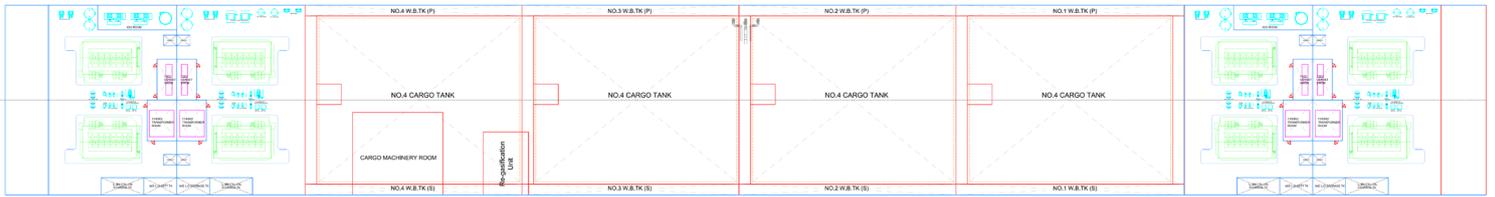
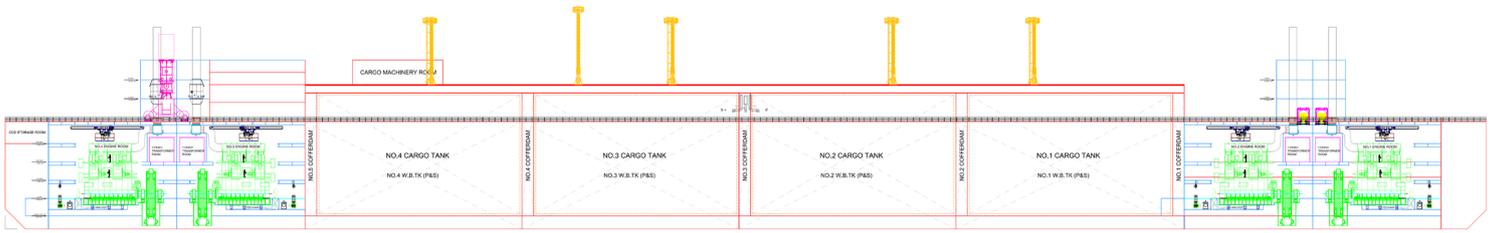
## HZWG iFSPU 200/200

### MAIN DATA

Length overall:	360m
Breadth moulded:	46.40m
Depth at side:	26.25m
Loaded draught (moulded):	9.50m
Propulsion system:	Not applicable
WINGD genset model:	7X82DF-P x 8 sets
Genset power output:	25.5MWe
Heat rate (*):	7018 kJ/KWh
Engine rooms:	4 x independent
Electric power output:	200 MW
Export voltage:	63 kV,3ph, 50Hz
LNG storage:	200,000m <sup>3</sup>
Cargo containment system:	NO96 Perlite
LNG tanks segregation:	4 tanks
Operation-Ambient air:	+10/+45 °C
Operation-Ambient sea water:	+32 °C
Exhaust emission compliance:	EU standard

(\* ) At point of shore export power connection at ISO 3046 conditions and nominal power output.





## MAIN DIMENSION

Length overall:	360m
Breadth moulded:	46.40m
Depth at side:	26.25m
Loaded draught (moulded):	9.50m
Height (to top of stacks):	45m

## CAPACITIES

LNG tanks:	4 x 50,000m <sup>3</sup>
MGO tank:	2,000m <sup>3</sup>
Fresh water:	500m <sup>3</sup>
Lube oil tank:	1,000m <sup>3</sup>
Glycol tank:	30m <sup>3</sup>

## AUTOMATION

- Integrated Automation System (IAS):
- Vessel power management system
  - Regasification control system
  - Cargo handling system
  - Tank gauging system
  - SIS - safety instrumented system (Cargo ESD)
  - Power Management System (PMS)
  - GIS control / substation control & monitoring system
  - Auxiliaries control
  - Fuel gas supply
  - Interface to IAS

## MAIN GENERATION (MG)

Number of sets:	8
WinGD genset:	7X82DF-P/25-50Hz
Power output:	25.5MWe-11kV-50Hz(*)
Fuel type:	LNG
Fuel type (emergency mode):	MDO/MGO
Total power net Exp. power:	200MW-63kV-50Hz(**)

## FUEL STORAGE AUTONOMY (from a full tank to 15% reserve)

100% of rated power:	100 days (***)
85% of rated power:	125 days
50% of rated power:	210 days

## POWER DISTRIBUTION (50Hz)

Export on board substation:	4 x 63kV HV GIS
Step up (export) transformers:	4 x 11/63kV
Step down (MV distribution):	2 x 11/6.6kV
Export system:	Cable on jetty (STBD)

## ESSENTIAL / EMERGENCY GENERATOR

Emergency diesel generator:	2 x 2,500kW-690V-50Hz
Applicable fuel:	MGO(DMA)

## ACCOMMODATION

Persons:	20 x in a single cabin
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## CLASSIFICATION

BV or equivalent  
 I+HULL, +MACH, BARGE/SHIP TYPE 2G, METHANE (LNG)  
 IN MEMBRANE TANKS, MAX, VAPOUR PRESSURE 0.7 BARG,  
 MIN. TEMPERATURE - 163°C, GCU, INWATERSURVEY,  
 REGAS, VERISTAR HULL CM FAT, GREEN PASSPORT

(\*) at alternator terminals and ISO condition, (\*\*) at point of connection and ISO condition, (\*\*\*) indicative refilling interval assuming continuous operating power.  
 All data provided is for information purposes only, explicitly non-binding and subject to change without notice.

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