



C-LNG Solutions Pte. Ltd.

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C-LNG Solutions

For a Greener Future



ABOUT US

The company consist of a group of veterans in the oil and gas (marine & offshore) industry, originated and based in Singapore, the world-famous marine & offshore cluster, with affiliated fabrication facilities in China.

With key strengths in LNG Fuel Gas Supply System (FGSS), LNG Cargo Handling System (CHS), LNG Regasification (FSRU and land-based project), as well as total LNG logistic solutions, C-LNG Solutions strives to provide the most cost-effective and reliable solutions, complying with international standards to help customers worldwide with their decarbonization efforts.

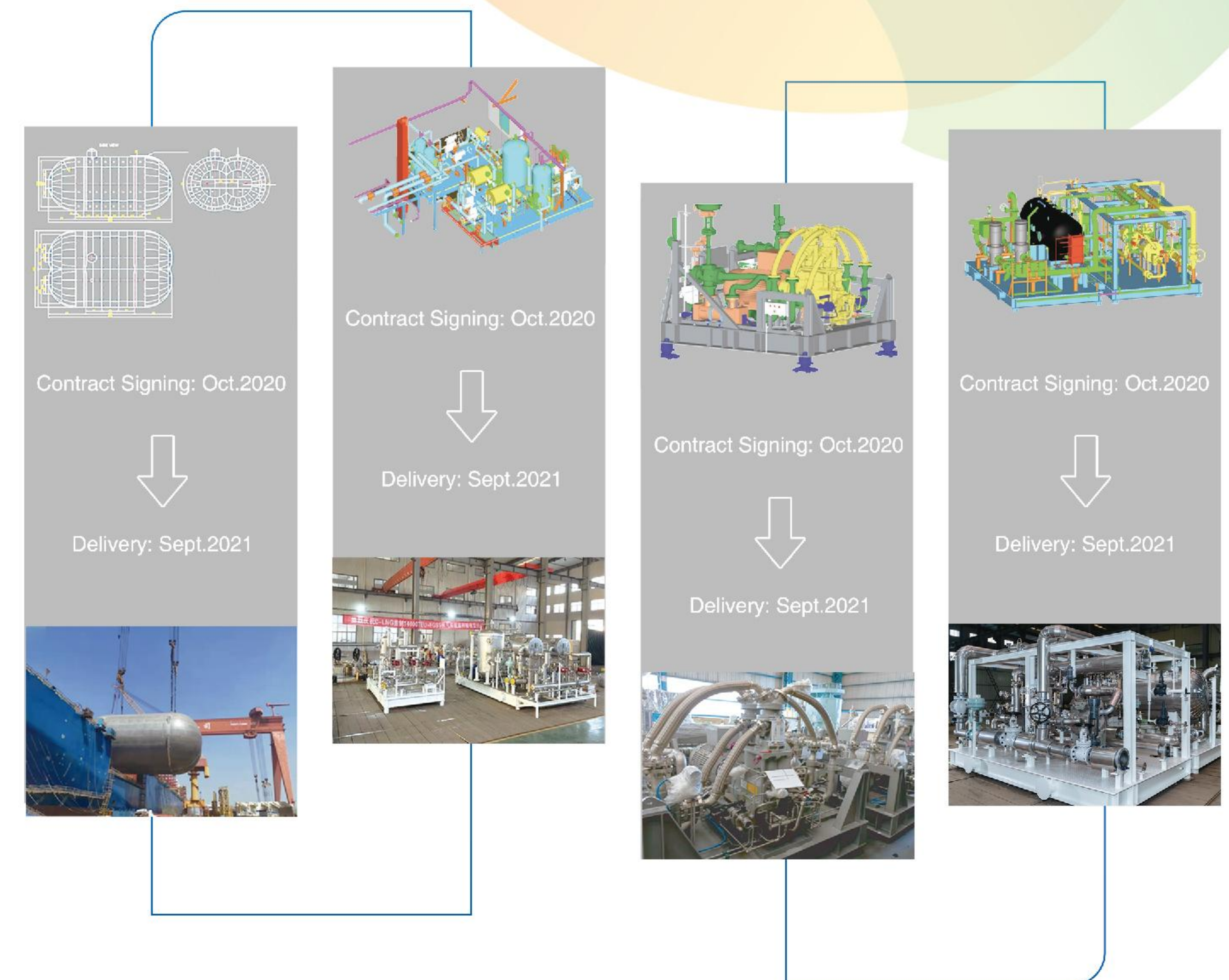
KEY ASSETS

People are the company's key assets; we cherish every valuable staff who cares our customers.
The Core Engineering team in Singapore originates from Oil & Gas Process Engineering team.
Two Teams with complementary expertise and backgrounds.
Team in Shanghai originated from shipbuilding industry.
Team in Shanghai specialized in IMO Type C design.



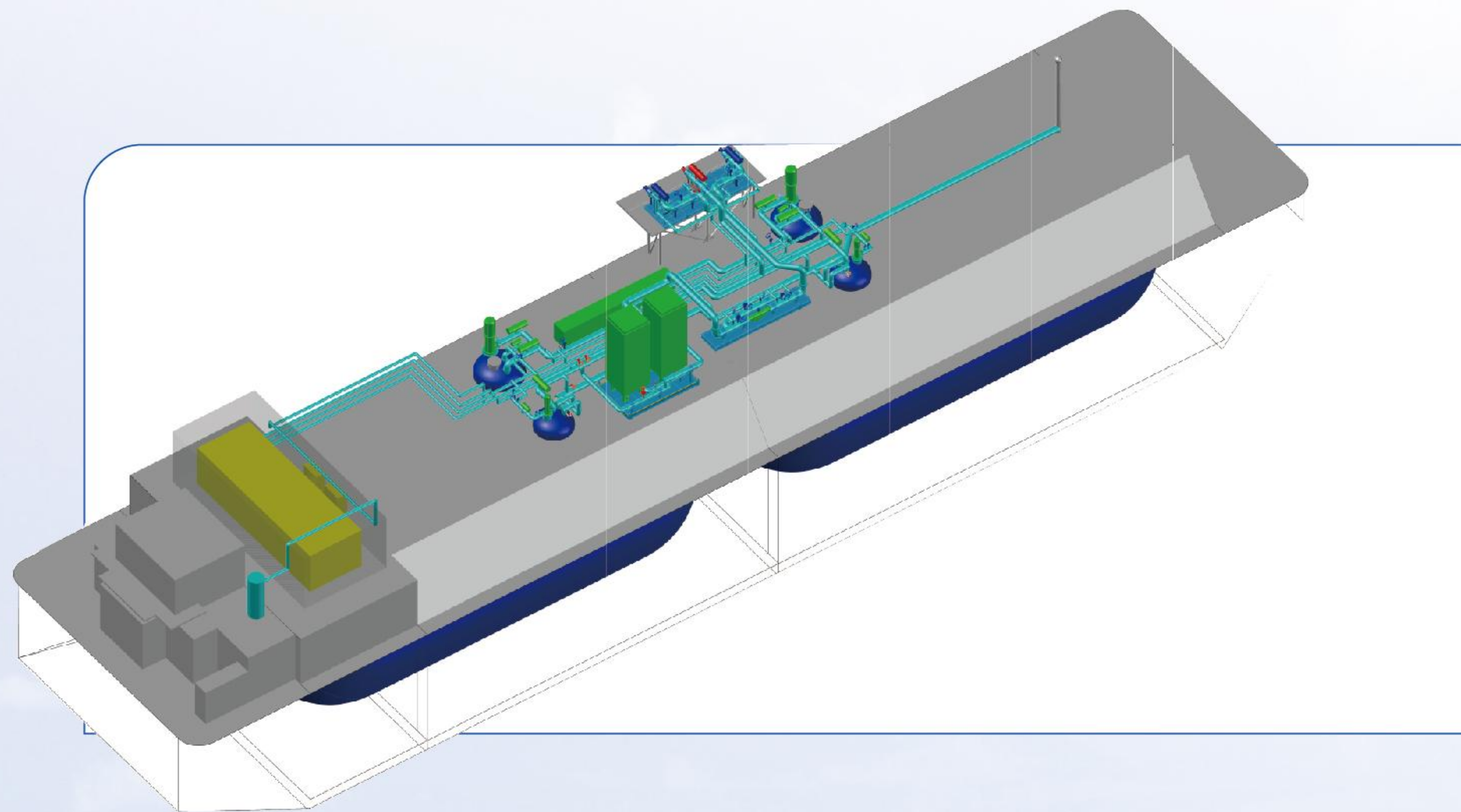
LNG Fuel Gas Supply System (FGSS)

With the team's vast experience in the Oil & Gas Sector, C-LNG is able to provide a one stop solution for client from project management, feasibility study, basic and detail engineering, training for operators to aftersales service. Each FGSS is customised to meet rules of Classification Societies and owner's requirement with emphasis on safety, reliability and maintainability.



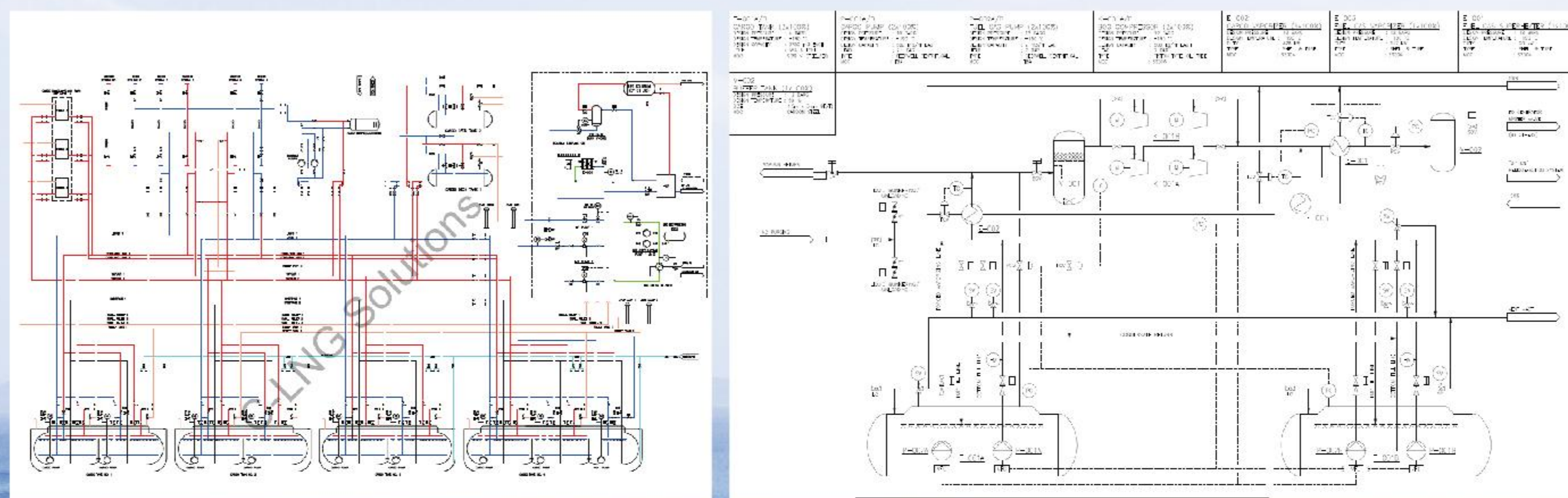
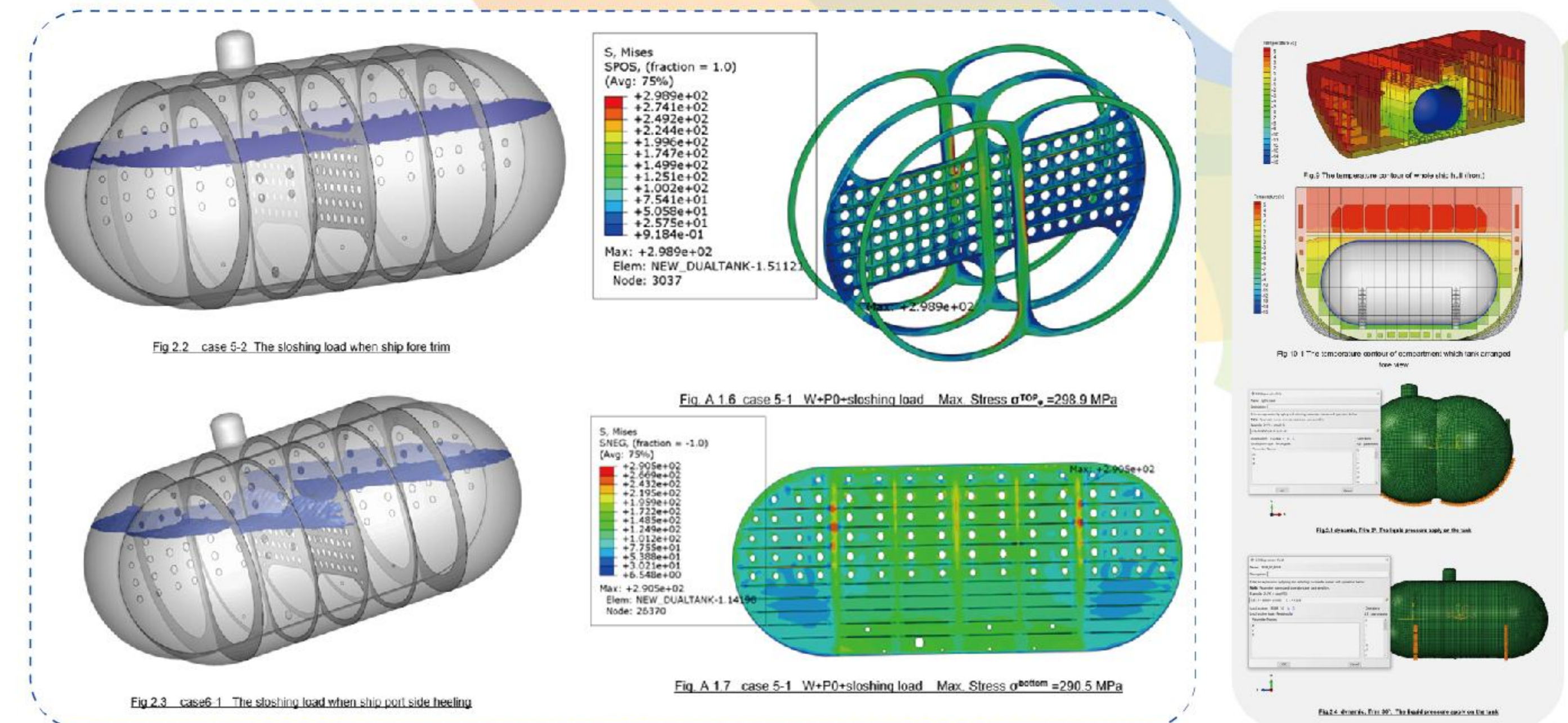
LNG Cargo Handling System (CHS)

C-LNG has worked very closely with ship designers and has solutions for various small and medium size gas carriers. The modularised concept has helped reduce interfacing issues, minimise cost and improve project schedule thus reducing CAPEX.



IMO Type C Tank Design

With highly specialised IMO Type C tank designer based in China, C-LNG can provide one stop solution from concept design down to shop drawings.

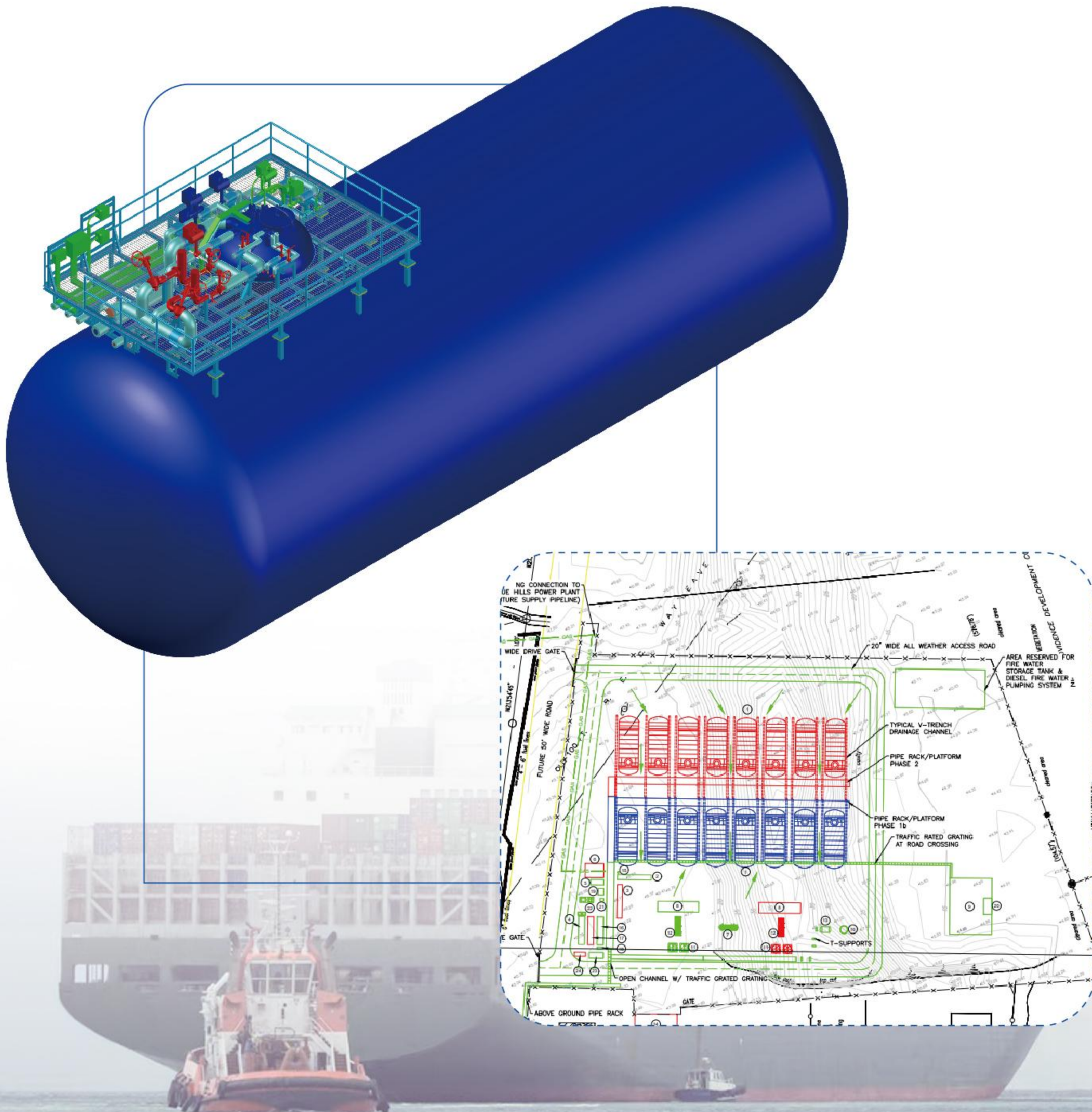


IMO Type C Tank Design

Type C tank for on shore application

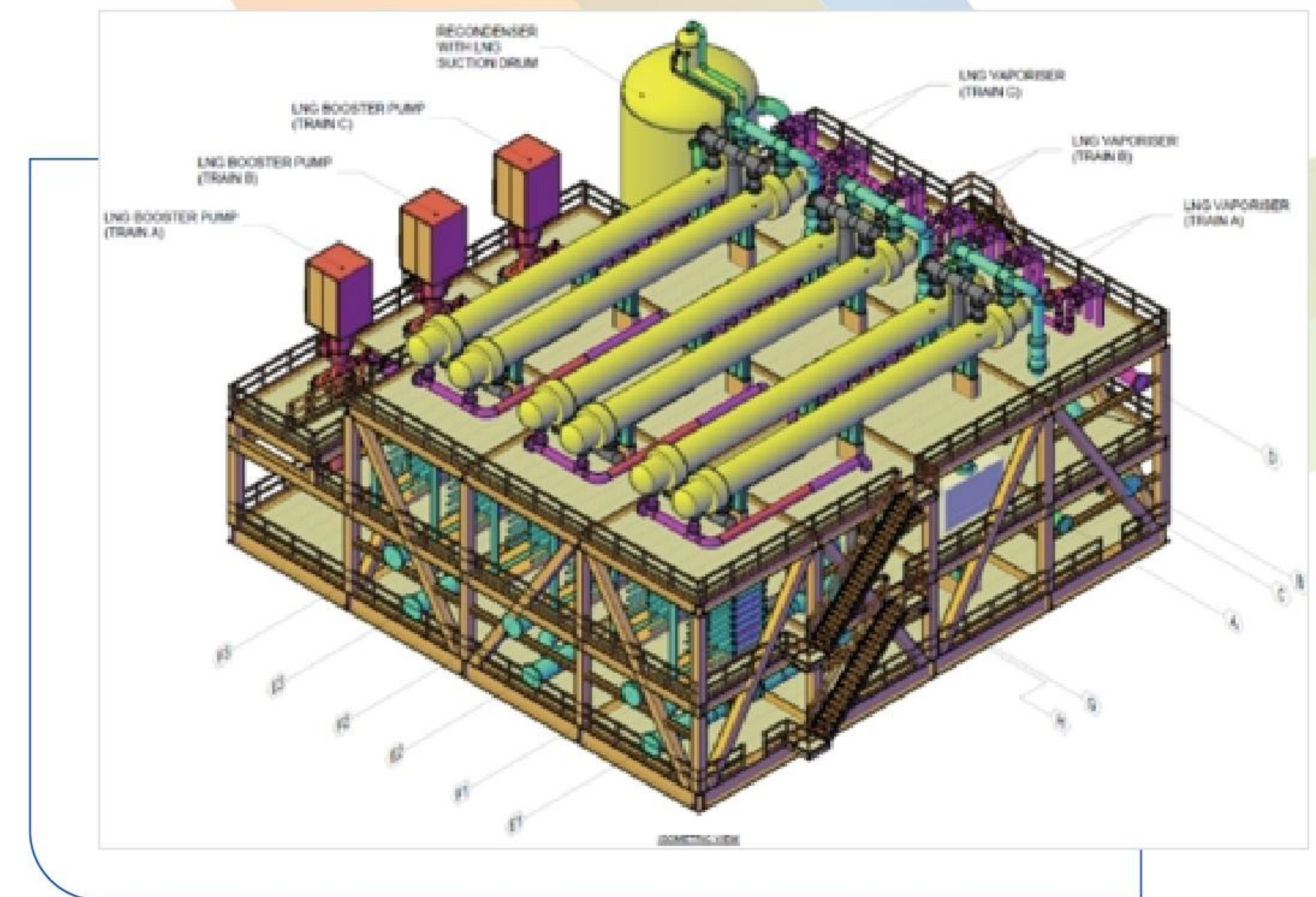
Key advantages to deploy Type C Tank onshore:

- 1 Flexible storage system
- 2 Minimise on site work
- 3 Mobile and can be deployed to another location in future
- 4 Pressure vessel design as compared to conventional land based storage tank-Better BOG Management



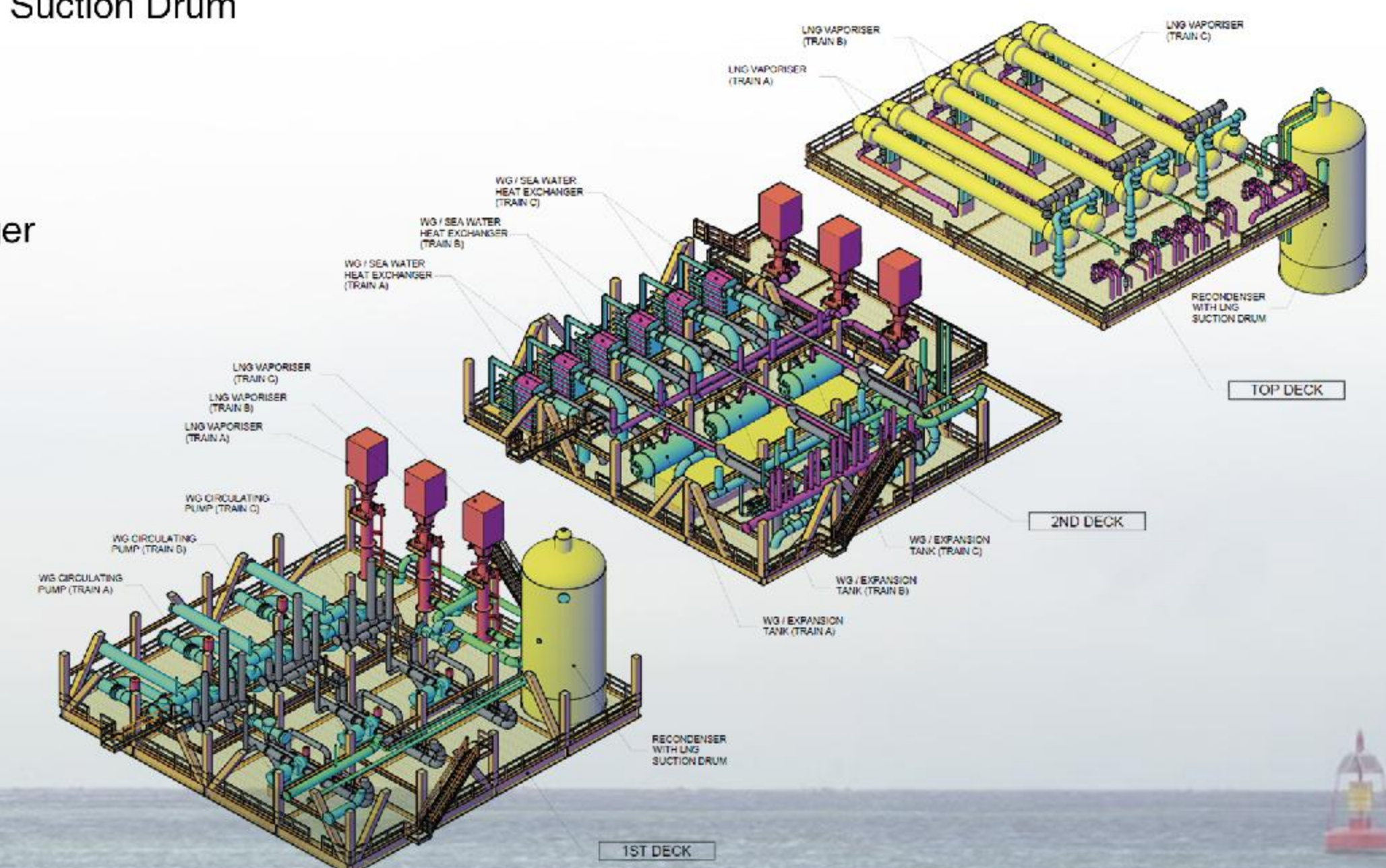
LNG Regas Unit

C-LNG has developed different LNG regasification capacities as small as 5MMSCFD and up to 750MMSCFD.



Equipment:

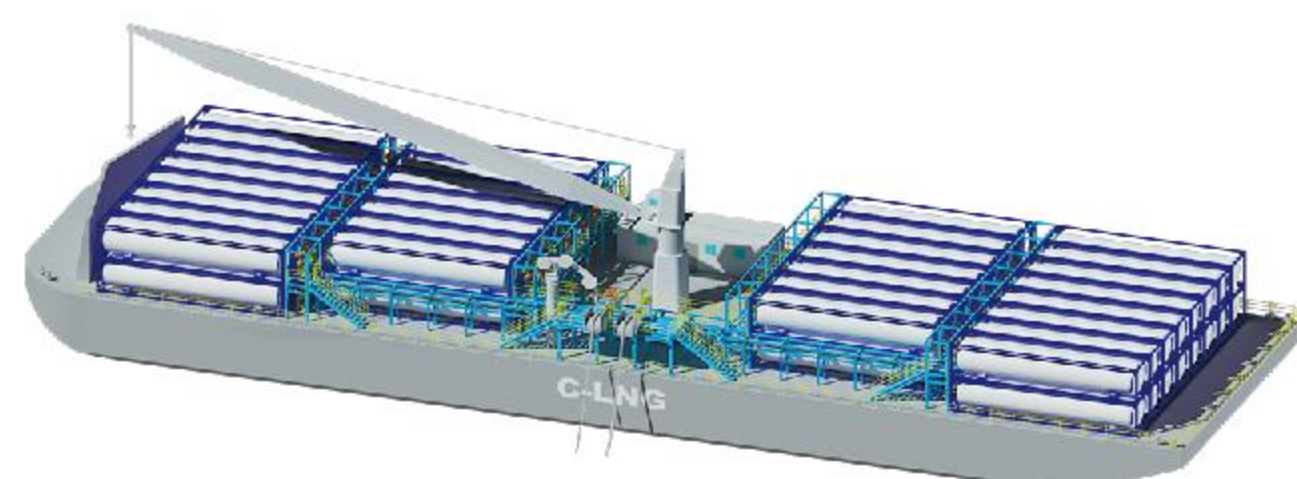
- 1 Re-condenser with LNG Suction Drum
- 2 LNG Booster Pump
- 3 LNG / WG Vaporizer
- 4 WG Expansion Tank
- 5 WG Circulating Pump
- 6 WG / SW Heat Exchanger



LNG Bulk Break Solution - LNGqkfill™

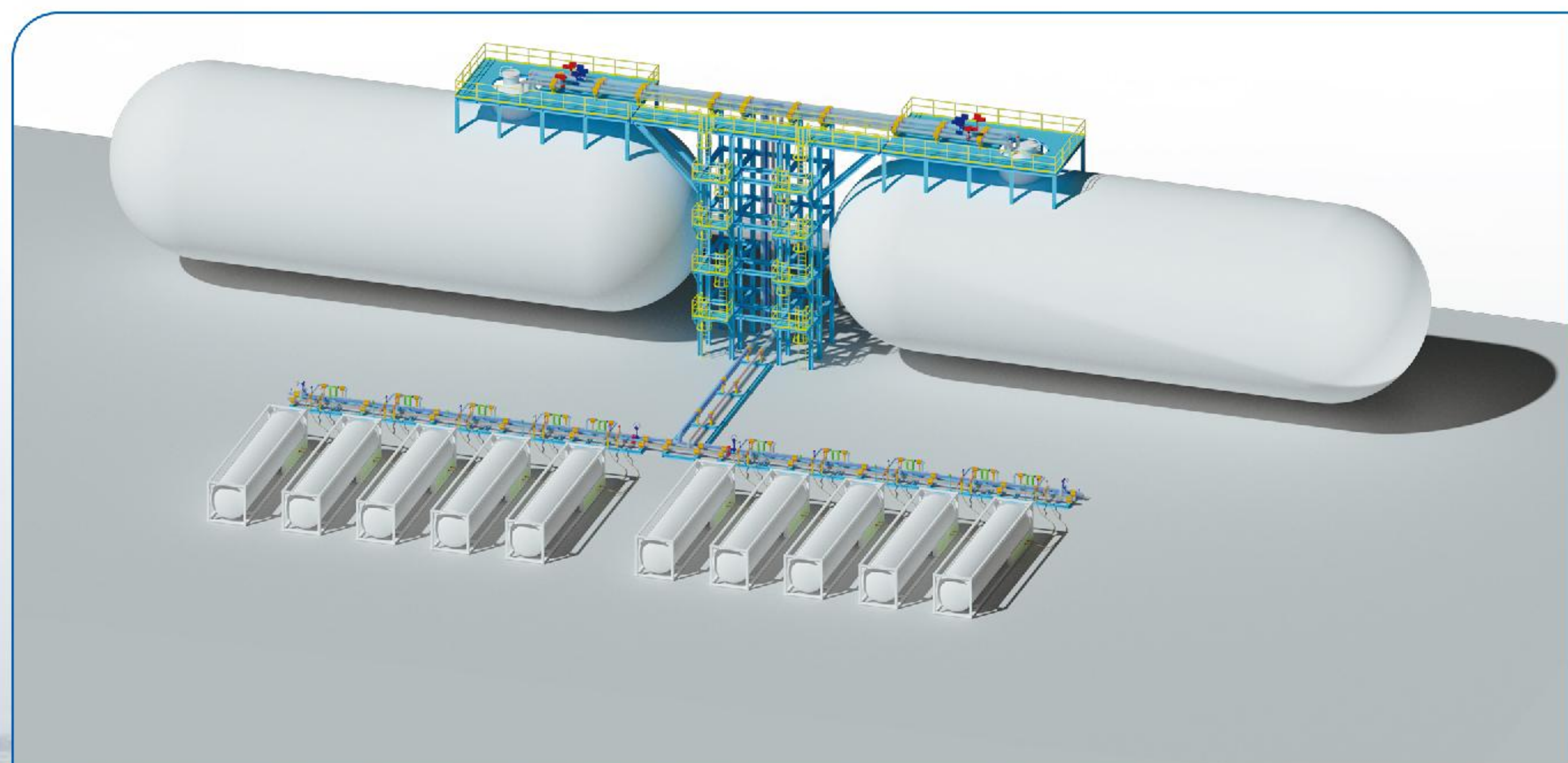
LNGqkfill™ is an integrated LNG ISO tank filling station developed by C-LNG solutions to transload LNG from ship-to-shore/barge-to-ISO LNG container efficiently.

LNGqkfill™ is skid mounted and comes equipped with liquid and vapour connections, transfer hoses, pressure and temperature transmitters as well as manual or actuated valves for manual or automated operations. This design allows users to perform LNG transfer at sea / shore and simultaneously fill multiple LNG ISO tanks. Overfill protection can be provided via sensors.



The unique skid mounted transloading design can be quickly deployed onto the barge or quayside after cryogenic hoses are connected from the ship's manifold to the on-shore storage tank manifold lines. The onshore storage tank is a single containment tank and comes with in-tank pumps to transfer LNG to individual ISO tank via LNGqkfill™.

The design is highly flexible thanks to the modular design. This enables the user to expand the capacity by adding more skids in the future.

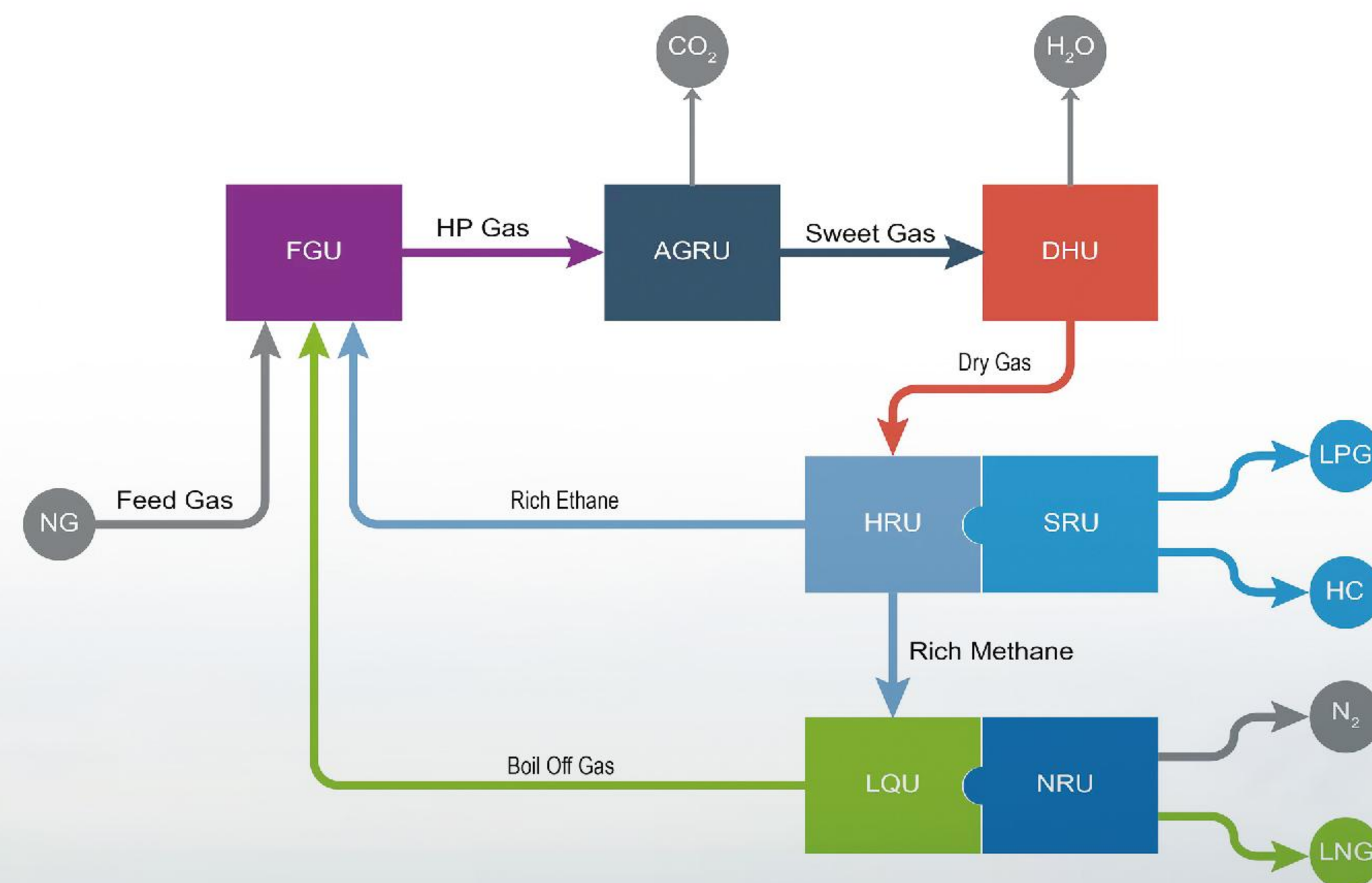


Small / Medium-sized Modular LNG Plant

Natural gas liquefaction unit is a device that uses cold energy provided by refrigeration module to liquefy natural gas after removing impurities in natural gas successively.

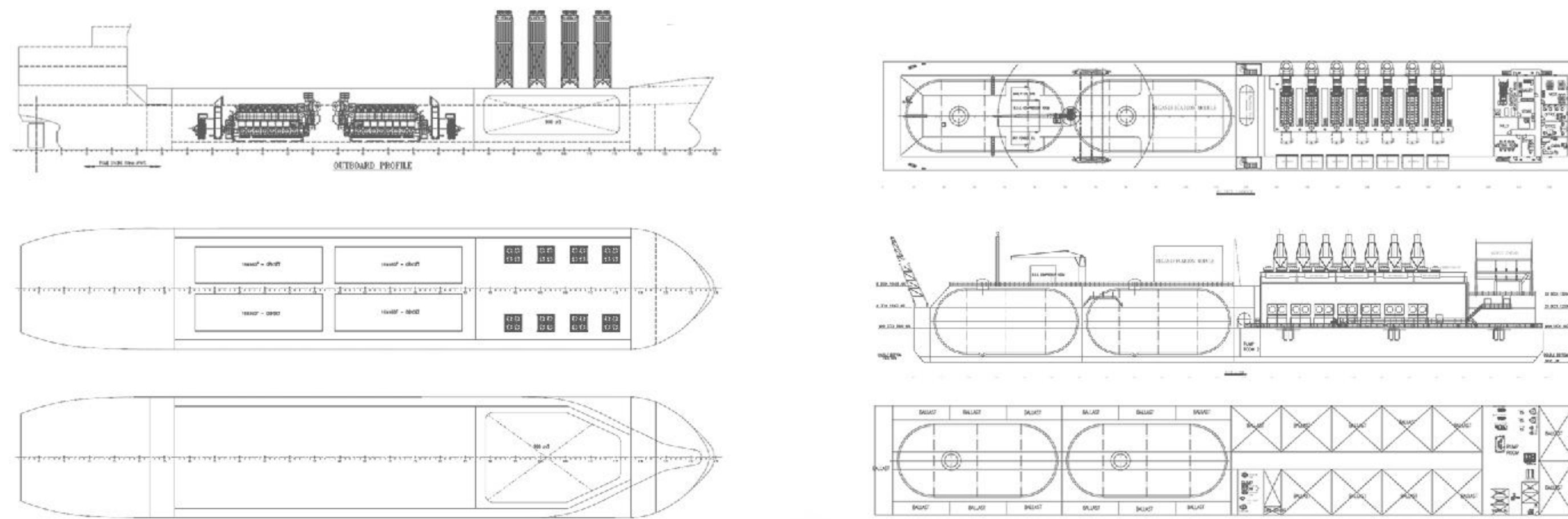
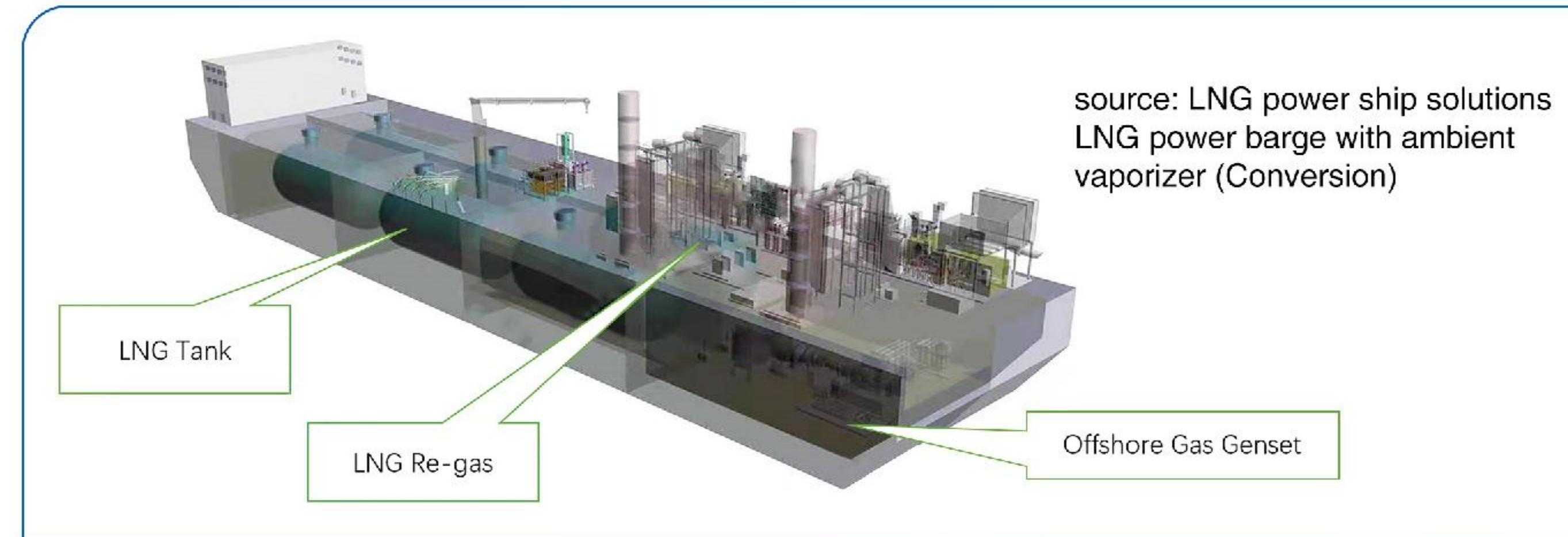
Main Features

Capacity:	5 -100MMscfd
Specific Duty:	≤0.45kw/kg
Investment :	350-450 USD/ ton*a



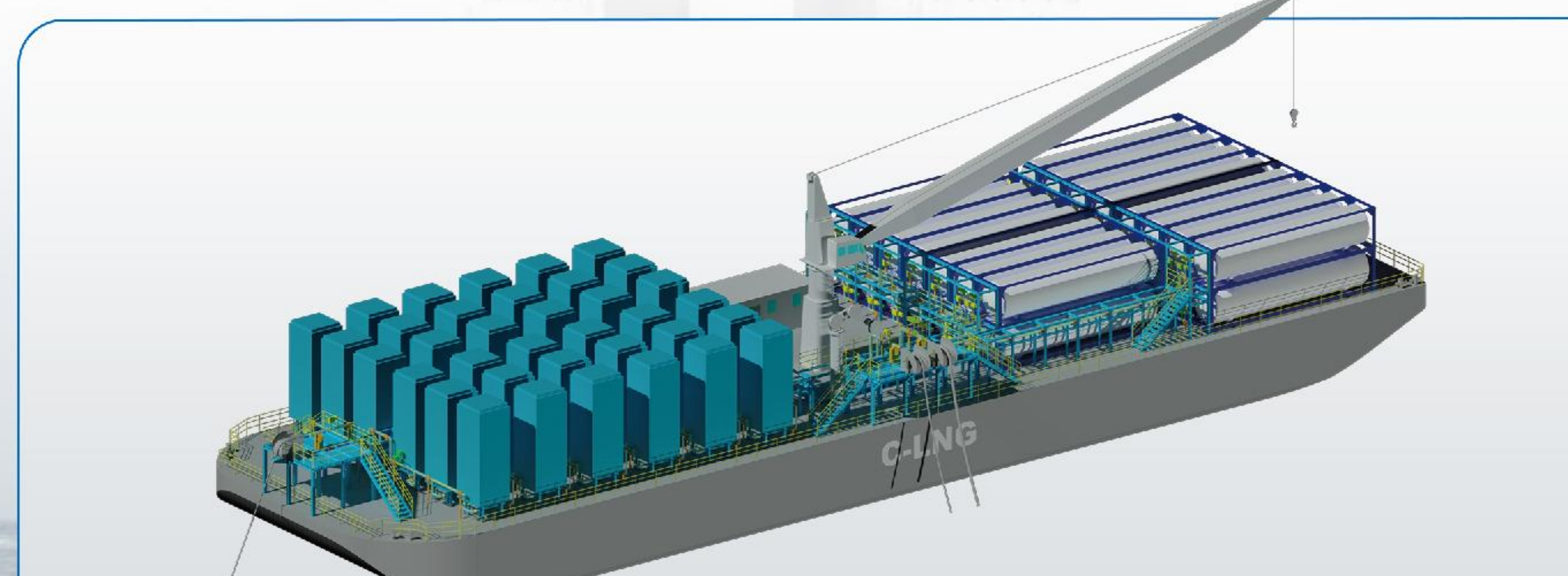
LNG2Power

By cooperating with renowned ship design company, C-LNG can provide cost effective LNG to Power solutions for both onshore or offshore application.



The concept design of LNG power ship converted from bulk carrier.

Concept design of a new build power barge with LNG regas module .

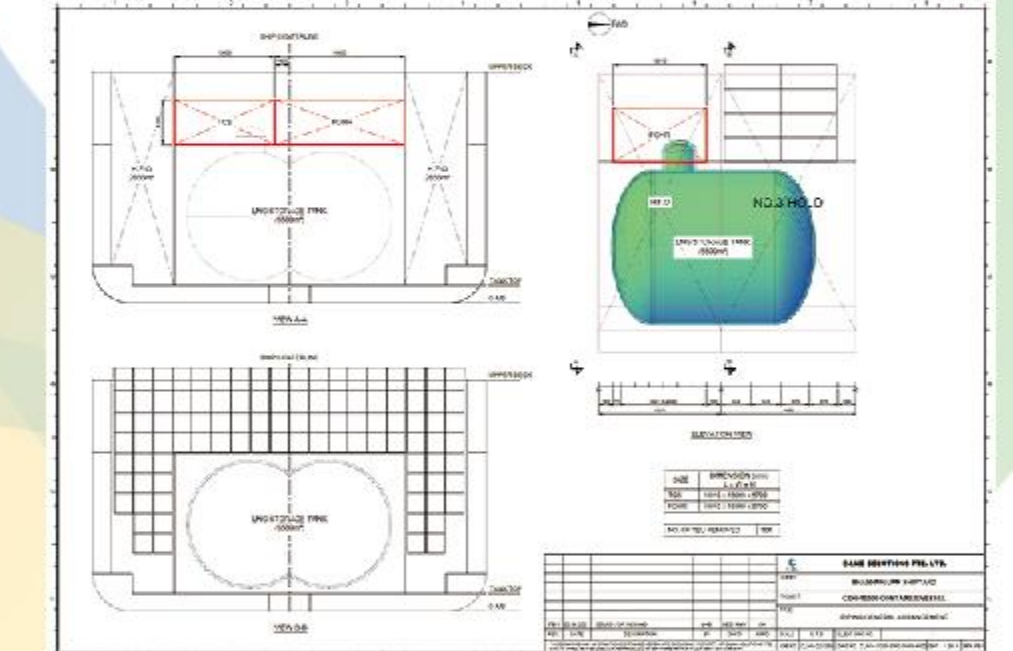


Conceptual design of a power barge with Ambient vaporizer.

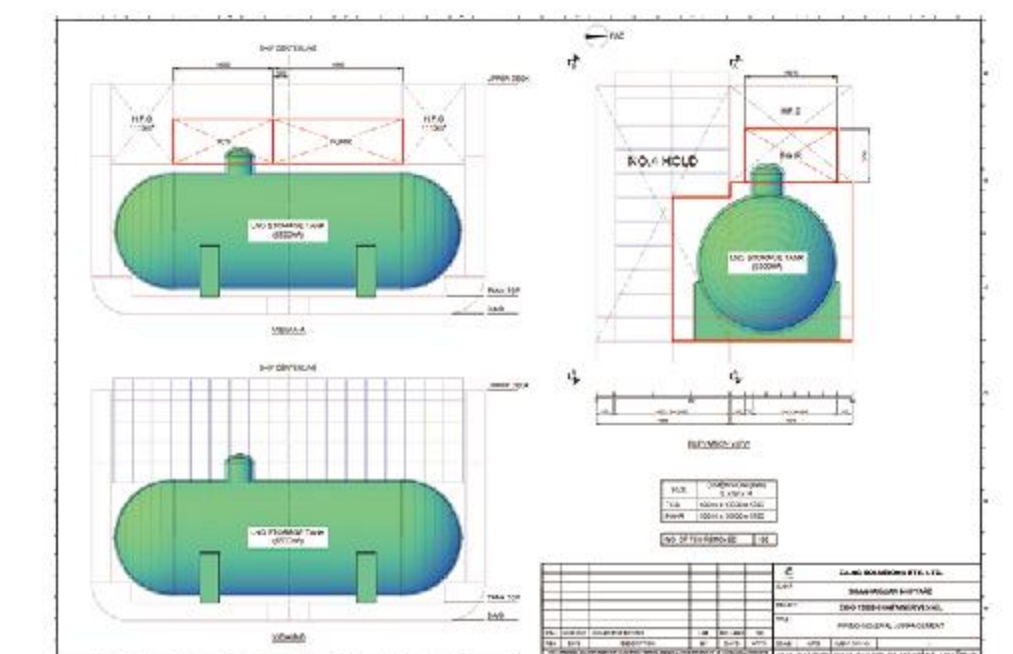
LNG Related Conversion

Ship LNG Repower Retrofit

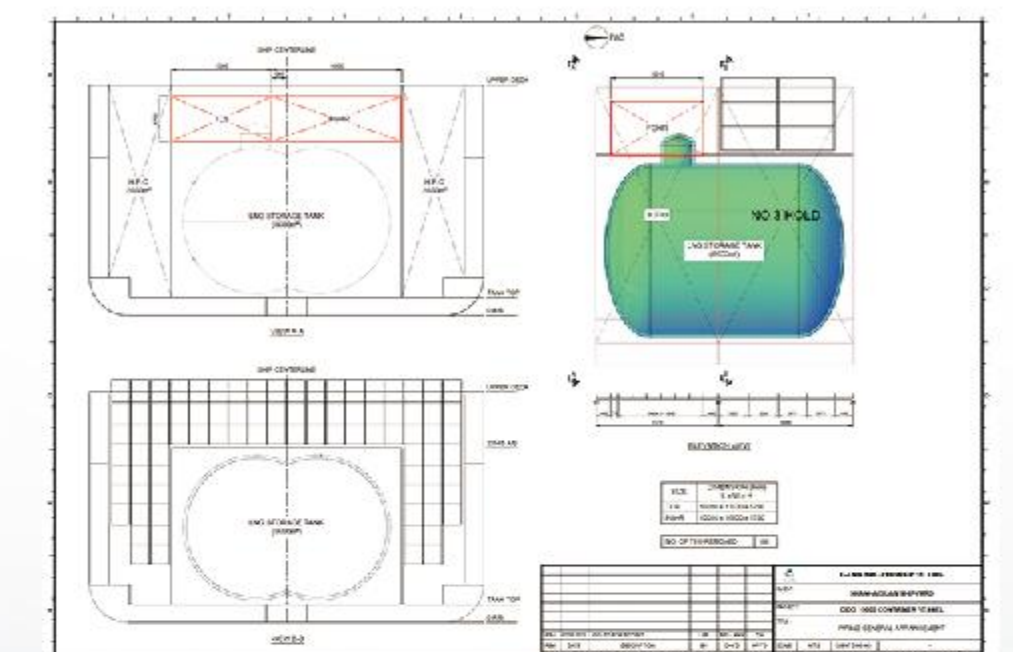
With tighter emissions requirements, it will be owner's benefit to convert conventional propulsion system to cleaner LNG propulsion system. C-LNG has carried out various studies for different ship designs with the principle of minimizing lost of cargo space, safe operation, low CAPEX and OPEX and ease of operation and maintenance.



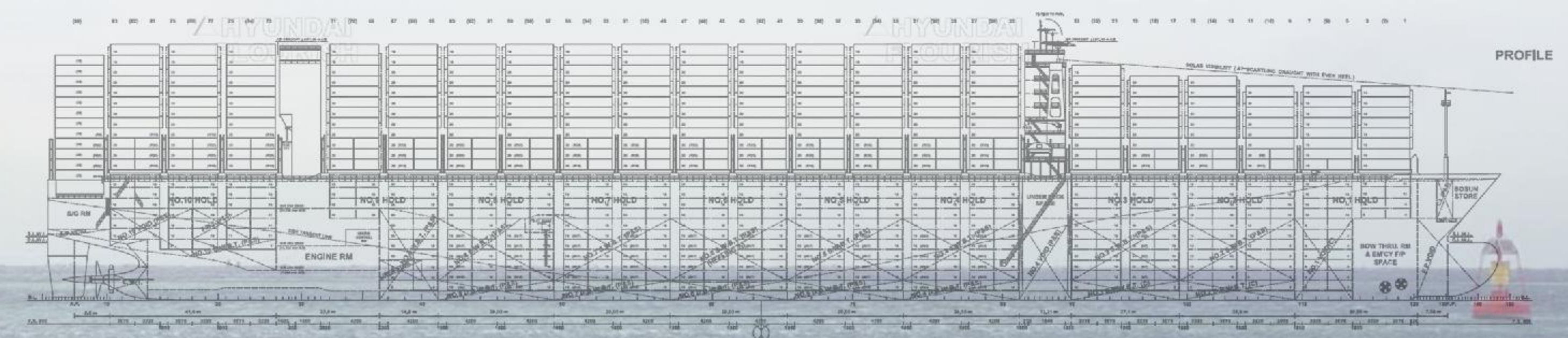
6500cbm tank with 164TEU loss for a 15K TEU container vessel



6500cbm tank with 100TEU loss for a 15K TEU container vessel



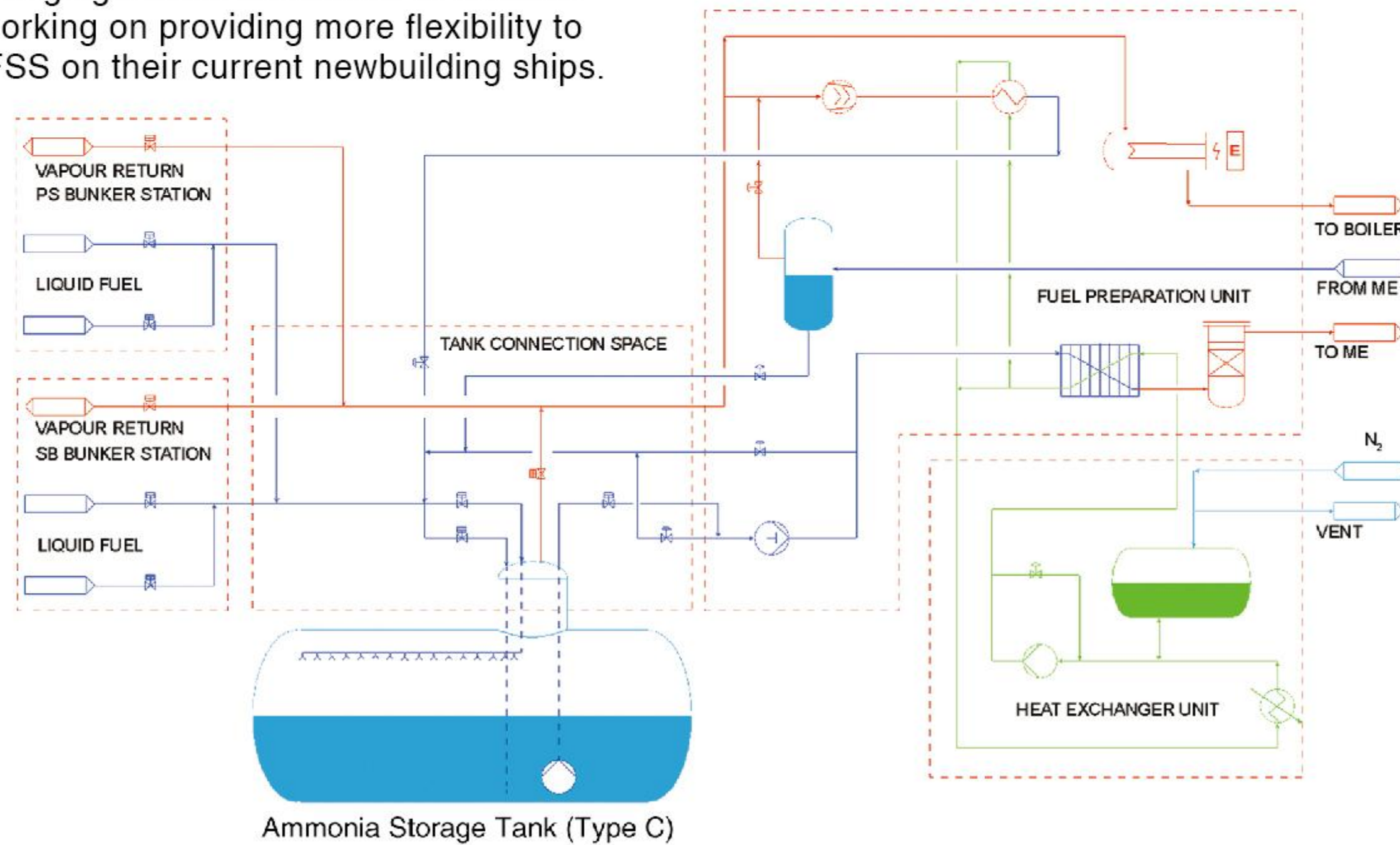
8500cbm tank with 186TEU loss for a 15K TEU container vessel



Technologies for the Future

Ammonia Ready Fuel Supply System (FSS)

Ammonia as fuel is an emerging alternative source of cleaner-fuel. C-LNG has begun working on providing more flexibility to owners with Ammonia AFSS on their current newbuilding ships.



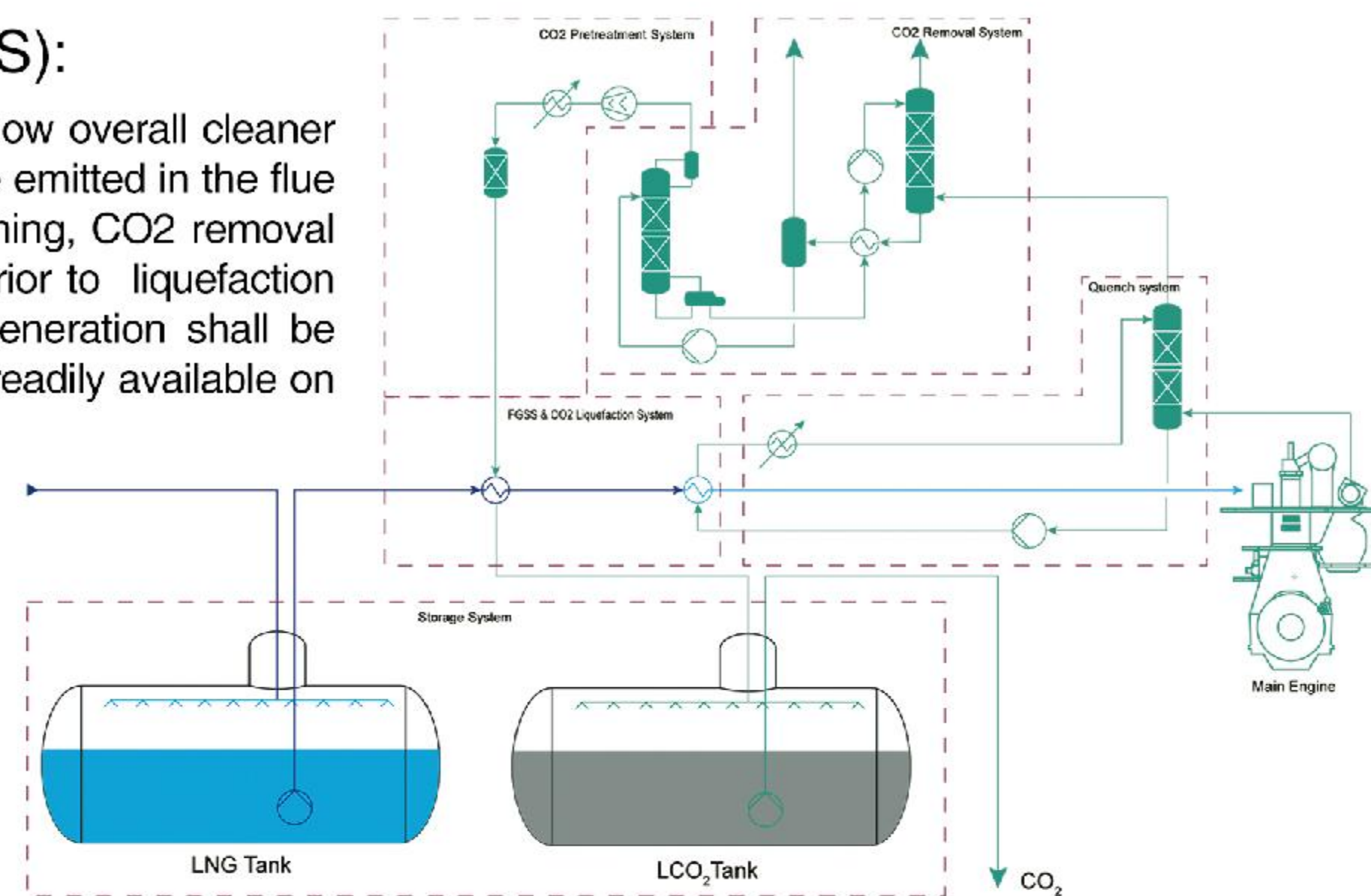
Future Technologies: R&D Ammonia Fuel Supply System



BV AIP Awarding with Witness from WinGD

Carbon Capture System (CCS):

The integration of FGSS and CCS will allow overall cleaner emissions by capturing the carbon dioxide emitted in the flue gas. A typical CCS consist of gas quenching, CO2 removal system, pre-treatment and conditioning prior to liquefaction for storage. Heat source for solvent regeneration shall be supplied by low pressure steam which is readily available on most vessels.



Approval in Principle
(AIP) from BV

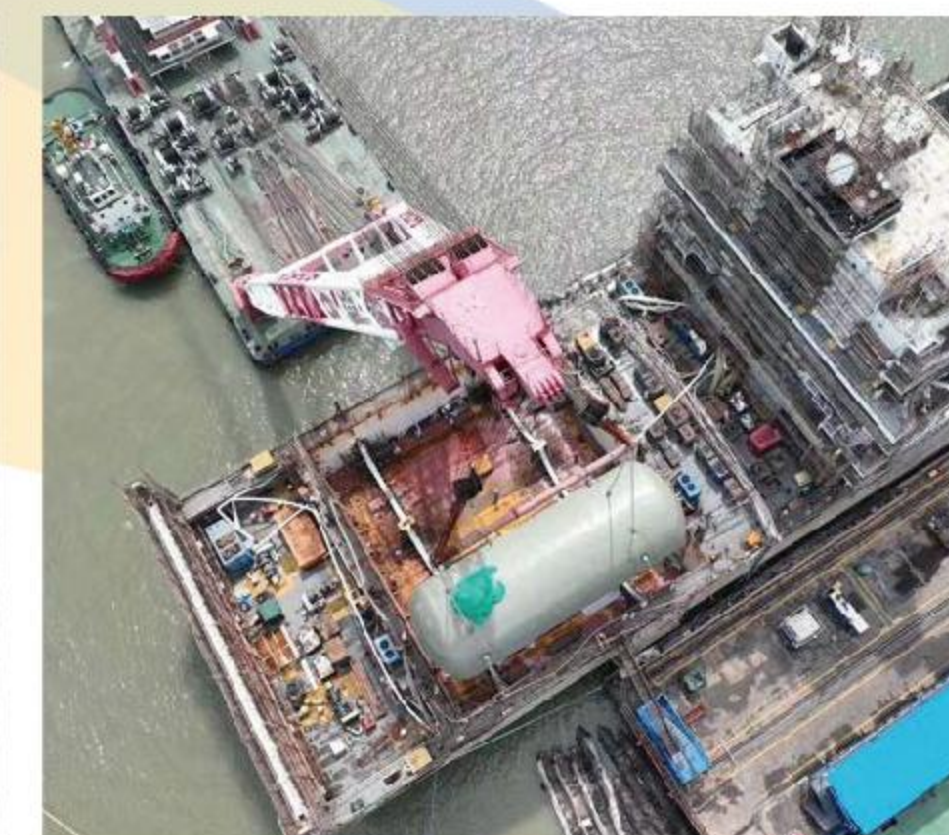


Approval in Principle
(AIP) from ABS

Delivered Track Record:
No 1: 2022/3 MSC Washington
14000 TEU, WinGD Engine, 12300cbm LNG Type Tank



Delivered Track Record:
No 3: 2023/8 DKI
3500 TEU CV, Man Engine, HP System, LNG Retrofit, COSCO Nantong



Delivered Track Record:
No 2: 2022/6 MSC Virginia
14000 TEU, WinGD Engine, 12300cbm LNG Type Tank



Delivered Track Record:
No 4: 2023/12 BYD EXPLORER NO.1
7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



Delivered Track Record:

No 5: 2024/5 SAIC ANJI ETERNITY

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



Delivered Track Record:

No 7: 2024/7 MIN JIANG KOU

7500 CEU, Man Engine, HP System, FMS Shipyard/ COSCO SHIPPING



Delivered Track Record:

No 6: 2024/7 LIAO HE KOU

7500 CEU, Man Engine, HP System, XSI Shipyard/ COSCO SHIPPING



Delivered Track Record:

No 8: 2024/8 SAIC ANJI HARMONY

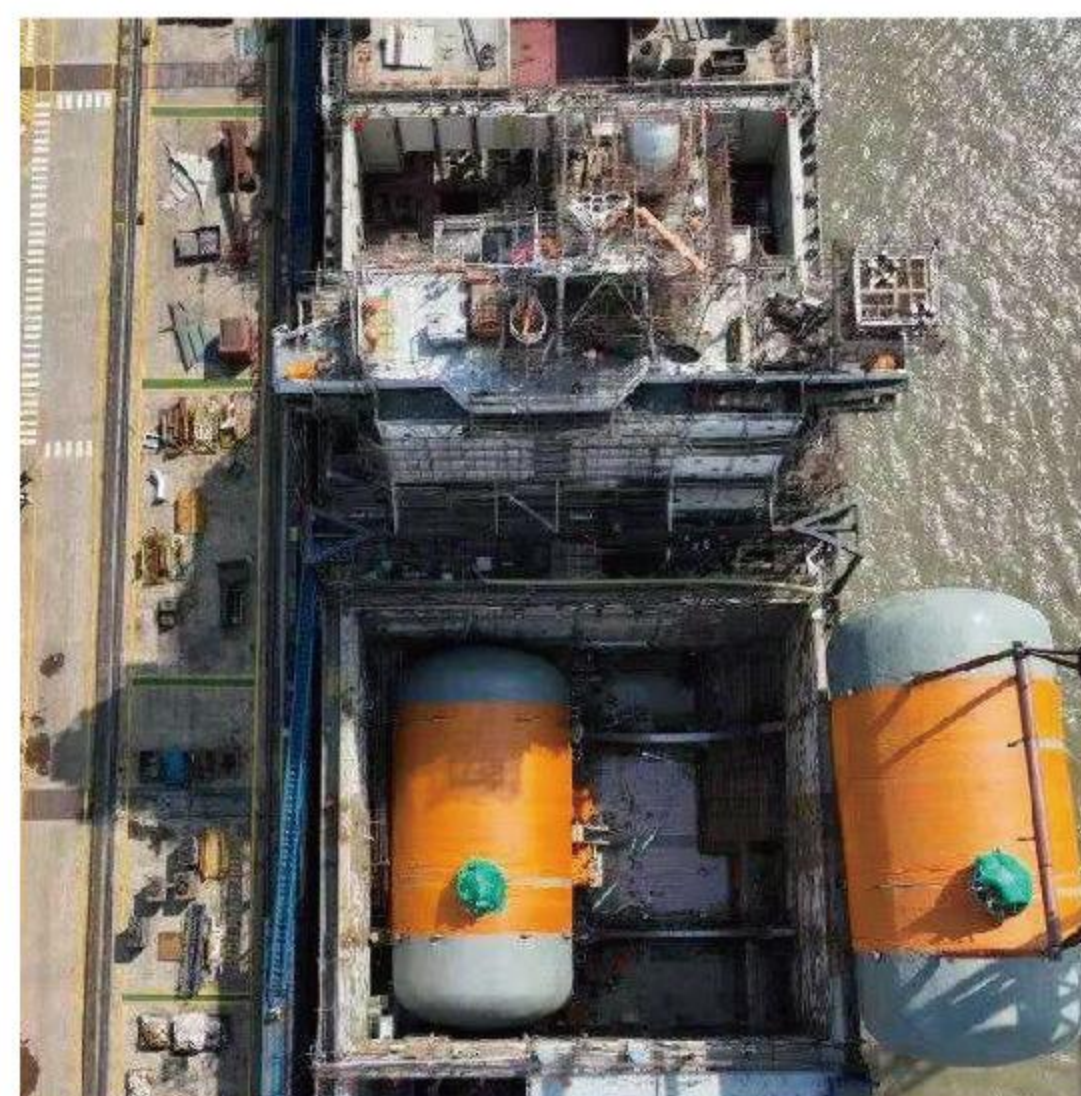
7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



Delivered Track Record:

No 9: 2024/8 MANUKAI

3500 TEU CV, Man Engine, HP System, LNG Retrofit, COSCO Nantong



Delivered Track Record:

No 11: 2024/10 KAIMANA HILA

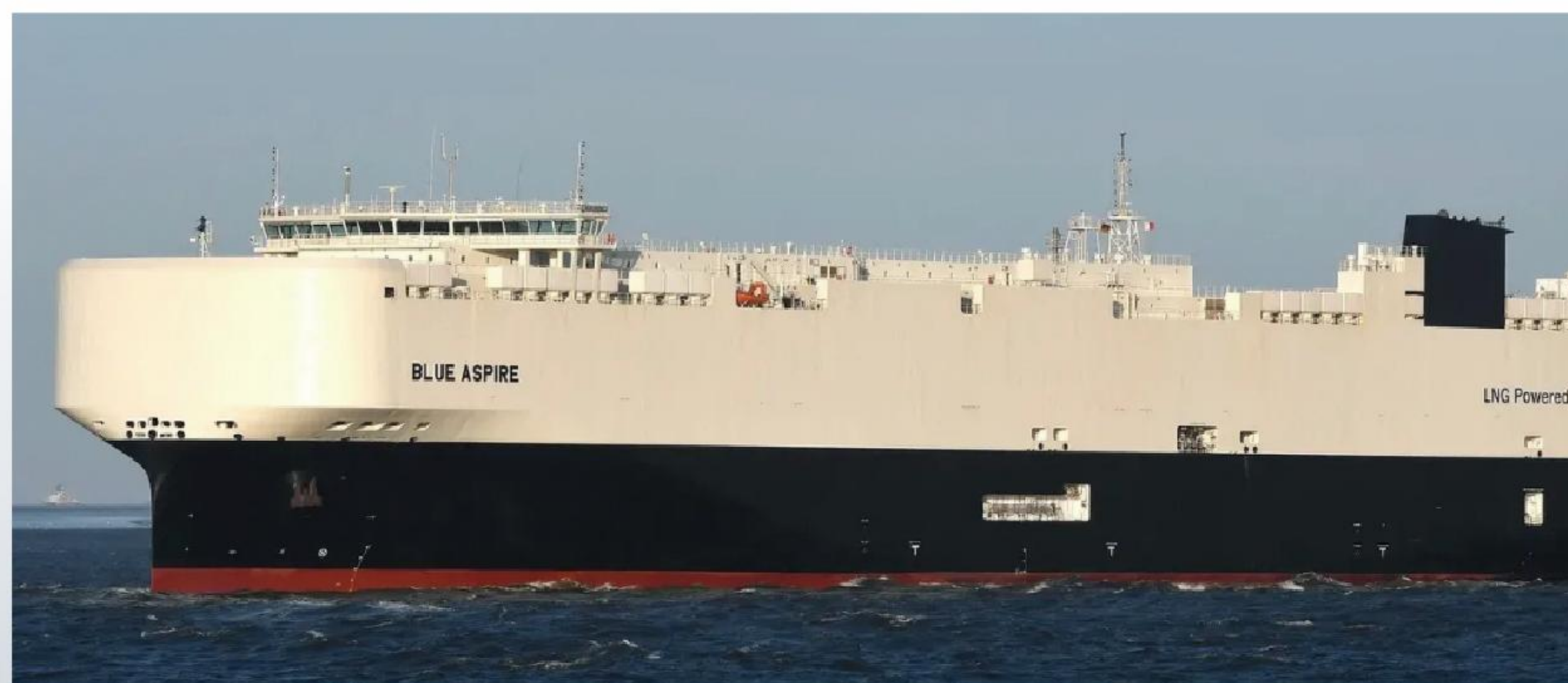
3500 TEU CV, Man Engine, HP System, LNG Retrofit, COSCO Nantong



Delivered Track Record:

No 10: 2024/10 BLUE ASPIRE

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



Delivered Track Record:

No 12: 2024/11 BYD CHANGZHOU

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



| Delivered Track Record:

No 13: 2024/12 BLUE HERITAGE

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



| Delivered Track Record:

No 15: 2025/1 TING JIANG KOU

7500 CEU, Man Engine, HP System, XSI Shipyard/ COSCO SHIPPING



| Delivered Track Record:

No 14: 2024/12 HAI HE KOU

7500 CEU, Man Engine, HP System, XSI Shipyard/ COSCO SHIPPING



| Delivered Track Record:

No 16: 2025/3 LIU JIANG KOU

7500 CEU, Man Engine, HP System, FMS Shipyard/ COSCO SHIPPING



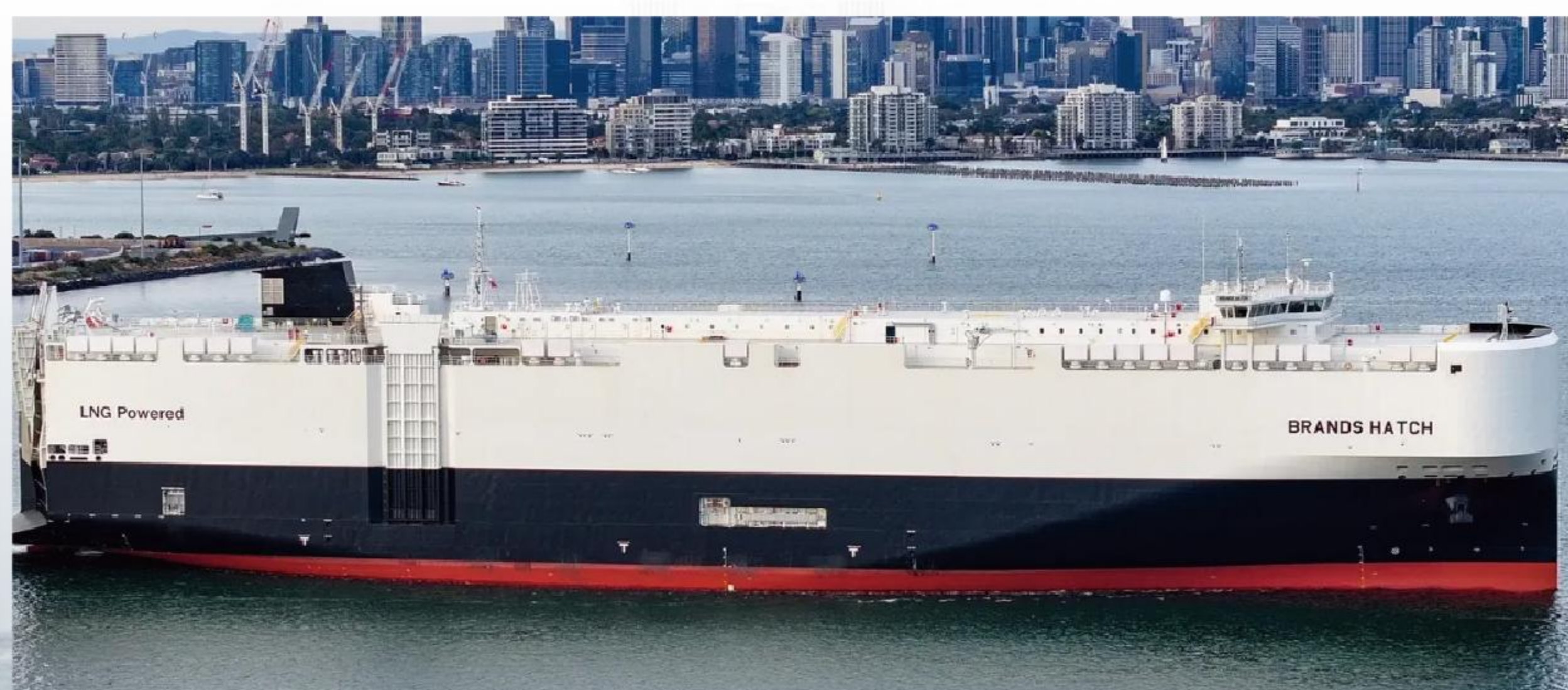
Delivered Track Record:
No 17: 2025/3 UGR AL SAMHA

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ ATLAS



Delivered Track Record:
No 18: 2025/3 BRANDS HATCH

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



Delivered Track Record:
No 19: 2025/4 GUI JIANG KOU

7500 CEU, Man Engine, HP System, XSI Shipyard/ COSCO SHIPPING



Delivered Track Record:
No 20: 2025/5 BYD ShenZhen

9200 CEU, Man Engine, HP System, NanJing Jinling Shipyard/BYD



**Delivered Track Record:
No 21: 2025/5 JISU FORTUNE**

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



**Delivered Track Record:
No 23: 2025/6 BYD Xi'An**

9200 CEU, Man Engine, HP System, NanJing Jinling Shipyard/BYD



**Delivered Track Record:
No 22: 2025/6 BYD ChangSha**

9200 CEU, Man Engine, HP System, CMHI(Jiangsu) Shipyard/BYD



**Delivered Track Record:
No 24: 2025/6 UGR ZAKHER**

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ ATLAS



**Delivered Track Record:
No 25: 2025/7 CADWELL**

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac



**Delivered Track Record:
No 27: 2025/9 BYD JiNan**

9200 CEU, Man Engine, HP System, CMHI(Jiangsu) Shipyard/BYD



**Delivered Track Record:
No 26: 2025/9 JISU GLORY**

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ Zodiac

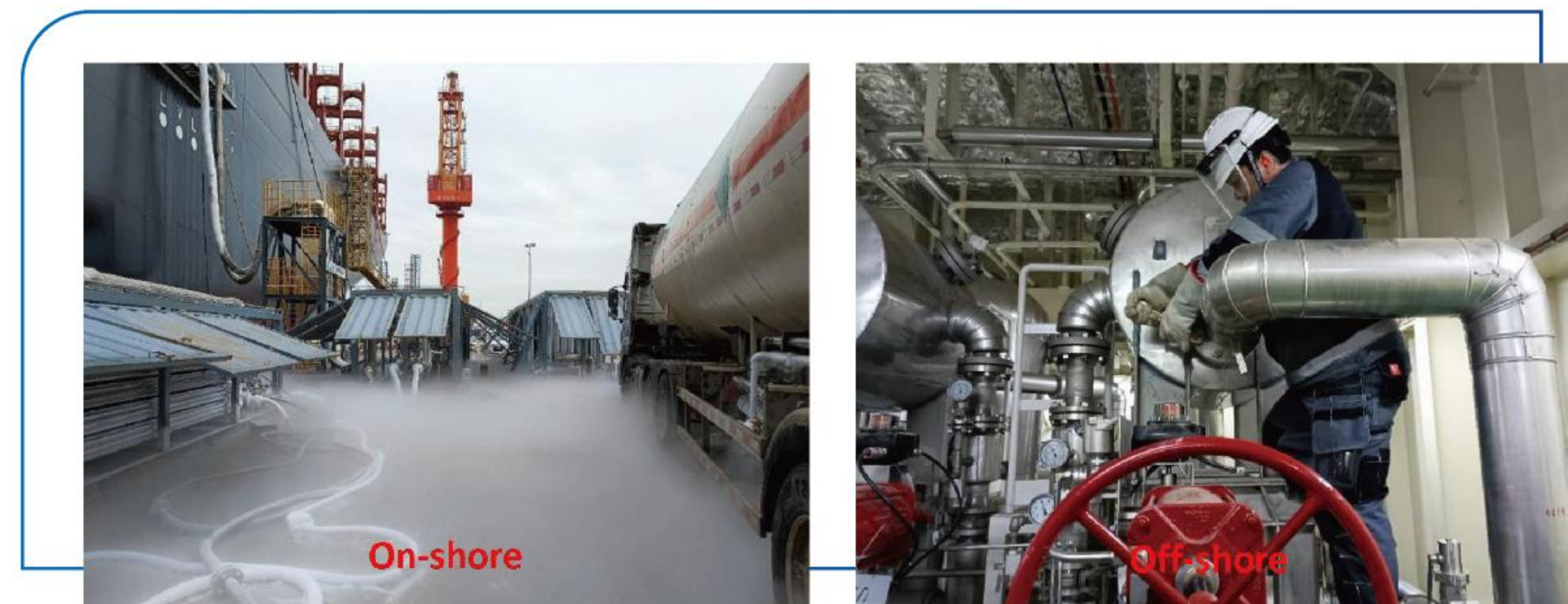


**Delivered Track Record:
No 28: 2025/11 NOCC PACIFIC**

7000 CEU, Man Engine, HP System, CIMC RAFFLES Shipyard/ NOCC



Commissioning & Bunkering One-Stop Service



We offer one-stop solution for LNG Bunkering Operation equipment and technical guidance, customized based on LNG receiver and quay conditions.

C-LNG FGSS & CHS Training Center in Shanghai

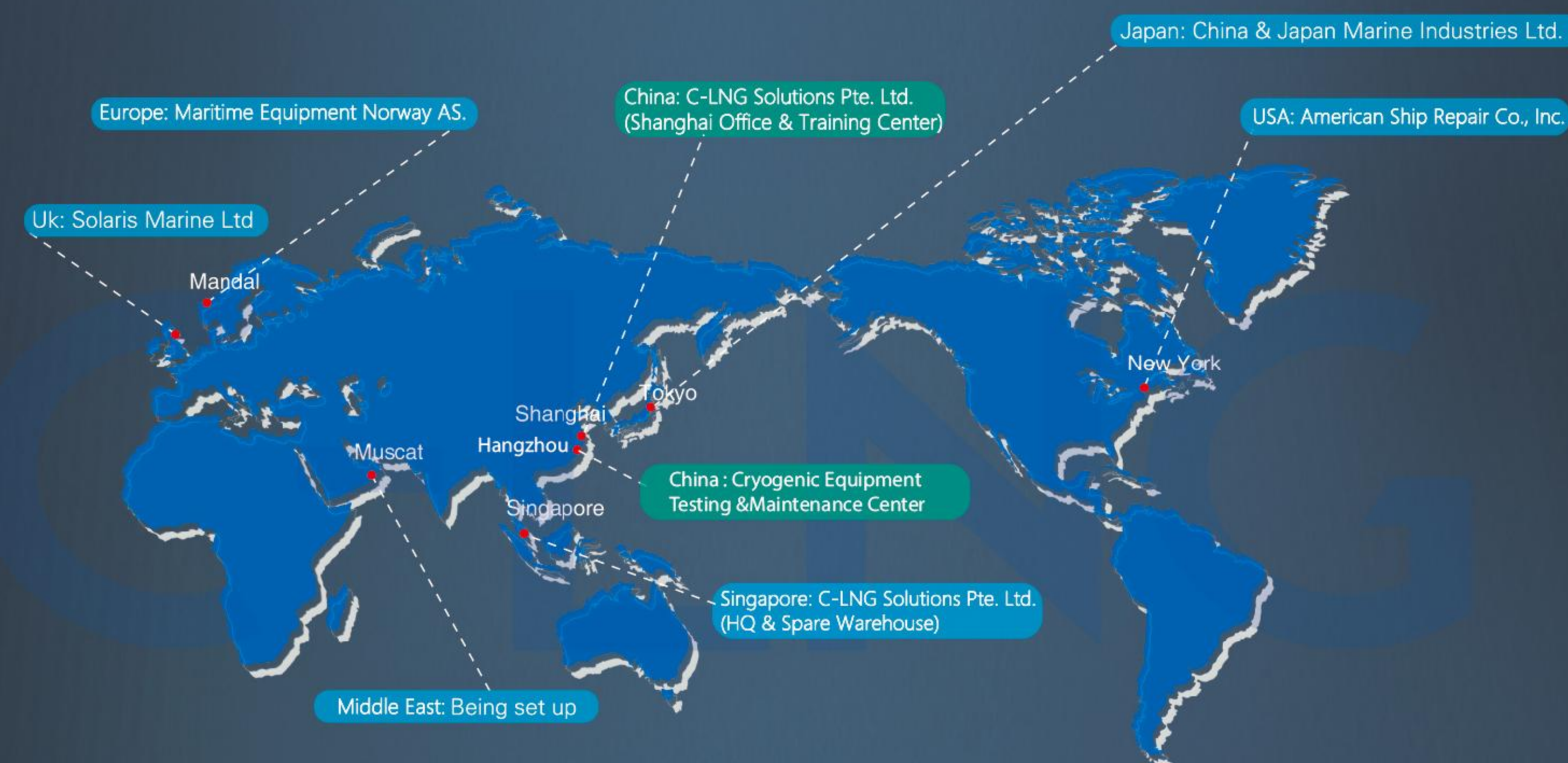


C-LNG FGSS & CHS Training Center in Shanghai, provides training course on LNG bunkering & operation to our client's crew before delivery of dual fuel vessels.

Cryogenic Equipment Testing & Maintenance Center in Hangzhou



Management System Certification & Award



America: American Ship Repair Co., Inc. ☎ +1 917 560 3360
 Europe: Maritime Equipment Norway AS. ☎ +47 9089 2122
 Singapore: C-LNG Solutions Pte. Ltd. ☎ +65 6970 8460
 China: C-LNG Solutions (Shanghai) Co., Ltd. ☎ +86 21 6139 7751

Global After-service Network & Business Agent



7 After-Sales Service Hub

Supported by seven strategically located service hubs, we offer 24/7 technical support and spare parts supply, serving over 100 major ports worldwide with rapid onsite or remote response.



Our Response Commitments

- Remote technical support: within 8 hours
- Emergency on-board service: 48-72 hours
- Spare parts delivery: 2-5 working days (region-dependent)