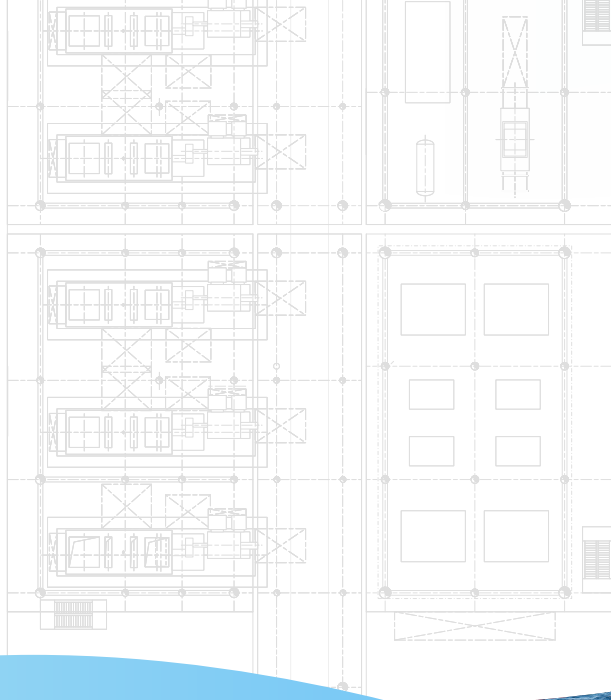




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Floating LNG Solutions ^{FLNG}



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Sustainable Development Philosophy

Continuous investment in Product R&D to match the market needs for clean and efficient energies, enabling a greener future without harming the environment.

2016-2022



Fast track & Flexible
deployment



LOW EMISSION


BEYOND THE HORIZON
NO EMISSION

2024



Targeting 15~20%
emission reduction

2050



Targeting 80%
emission reduction



FLNG Solutions Key Principles



Standard Solutions

Shorter schedule and lower Capex
based on standardized design



Low Carbon Solutions

Low Emission solutions to meet
market needs



SMART Solutions

Low manning and OPEX optimization

Standardized FLNG Design

Standardized Design / train	0.6 MTPA series	1.2 MTPA series	1.5 MTPA series	2.0 MTPA series
 Liquefaction technology	CHART IPSMR	CHART IPSMR	CHART IPSMR	CHART IPSMR
 Cold box	3 cores	6 cores	6 cores	8 cores
 By-products	LNG/CONDENSATE	LNG/CONDENSATE	LNG/CONDENSATE	LNG/CONDENSATE
 Gas turbine	PGT25+G4	LM6000PF+	LM9000	LM9000+IAC



Single mixed refrigerant cycle



Proprietary brazed aluminum heat exchangers



No refrigerant pumps



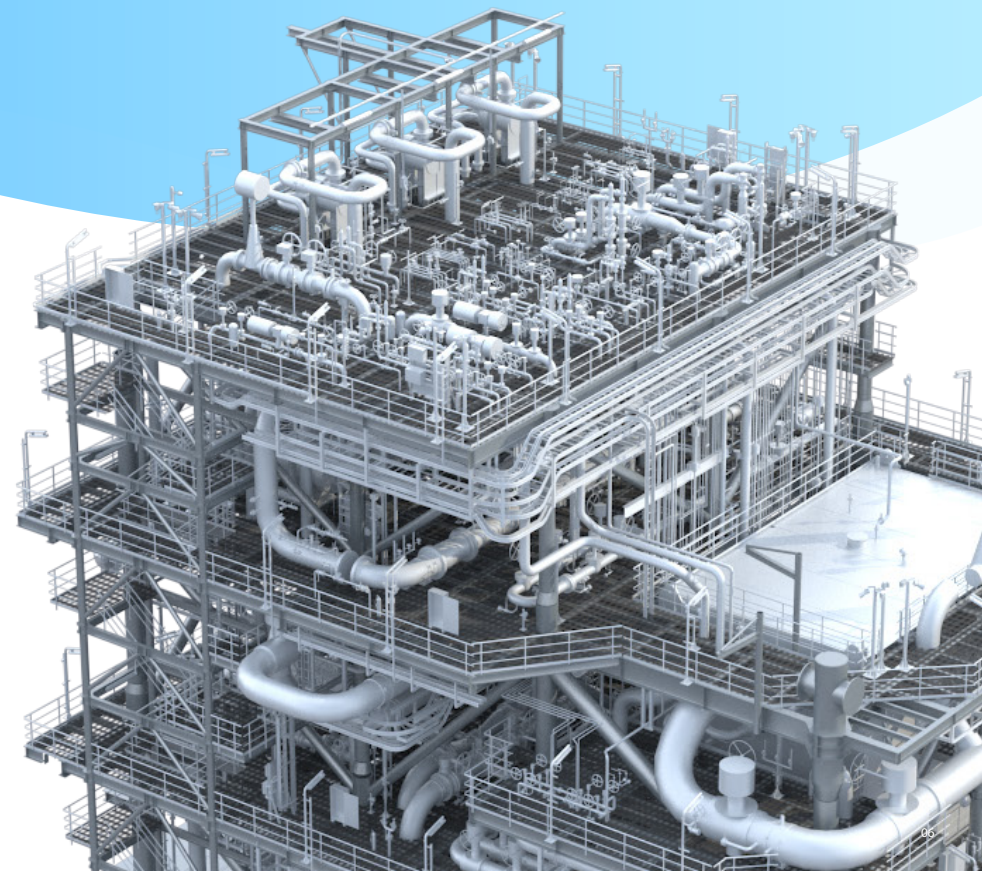
Significantly better efficiency



Modularized and scalable approach



Less equipment and lower cost



Wison FLNG Portfolio Overview

Based on the standardized FLNG design solutions, Wison offer a range portfolio of FLNG facilities from 0.6 to 6.0 MTPA, provide flexible and customized options to clients to reduce investment costs and improve efficiency.

* Wison FLNG standardized modularized design can also be applied to onshore LNG plant.



Standardized SPB Tank into Hull



Built in parallel with hull construction, followed by a much easier and faster installation by 5 to 8 months against membrane



Shorter Lead Time attributed to diversified-local low-carbon supply chains and auto-welding ratio over than 80% in length



Inherently safe, robust, sloshing-free and with low Boil-Off



Delivery competency & commercial viability proven



Highly Automated Production Line



Cutting



Block Assembly



Final Grand Assembly



Installation

Low Carbon Solutions



Combine Cycle Power Generation
drop about 10% Carbon release



Carbon Capture Technology
capture the carbon release and reinject back or deliver to users



Integrated Full Power Drive FLNG
RAM and power generation efficiency are rising, so it will drop overall 20% FLNG carbon release



Fugitive Emission Prevention
ensure that all equipment is designed to eliminate or reduce fugitive emissions



LNG Liquid Expander
generate more power and also will decrease BOG generation



Deep Sea Water Caisson
increase LNG liquefaction efficiency thus decrease carbon release



3.6 MTPA - FLNG

3.6MTPA-1 Train e-DMR FLNG

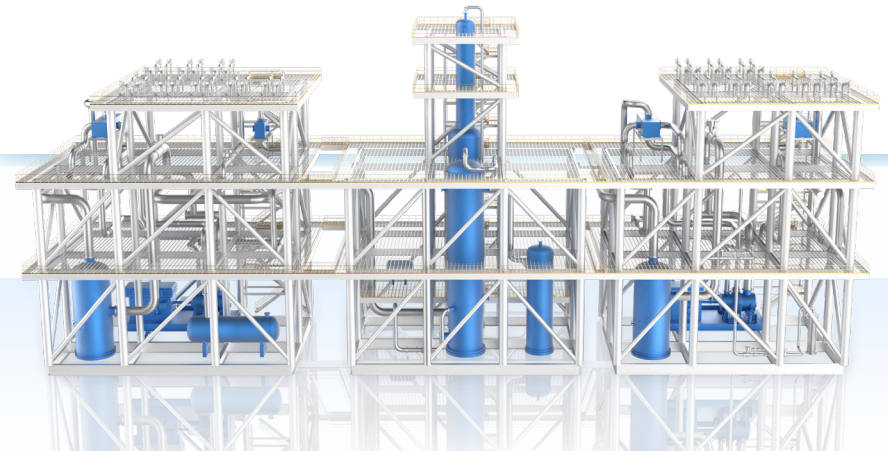


Liquefaction and Compression modules(Grouped)

The liquefaction section of the plant uses one of SHELL's proprietary high efficiency Dual Mixed Refrigerant liquefaction technologies with electrically driven compressors (e-DMR) to convert the treated natural gas into LNG. The capacity for the single e-DMR train is up to 3.6 mtpa, achieved with 3 integrated modules for the main liquefaction loop, the pre-cooling system (PMR) and the mixed refrigerant system (MR) the latter two each with an electrically driven centrifugal compressor.

The Pre-cooling MR (PMR) loop is designed to strike the optimal balance between CAPEX, energy efficiency and plant availability. The footprint and weight is further reduced for the PMR and MR loops by the use of Coil Wound Heat Exchangers (CWHE) and Printed Circuit Heat Exchangers (PCHE's).

Overall the reduced number of equipment items together with the efficient layout give this liquefaction technology a compact footprint.



Steam Turbine Power Generation Module

The STG module is coupled with the HRSG units together incorporating a closed loop steam circuit.

The high pressure steam generated by the HRSG units results in 30 MW of power recovered by the STG.

The steam turbine power generation module includes a direct seawater condenser together with the water treatment facilities for steam conditioning.

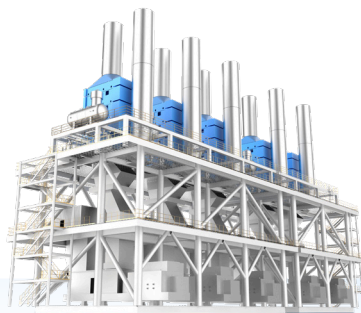


Power Generation GTG+HRSG Module

The integrated e-DMR FLNG solution requires a total FLNG installed power capacity of ~200 MW, provided by 5xLM6000PF+ Gas Turbines in an N+1 configuration plus a Steam Turbine.

The Gas Turbines operate in Combined Cycle (CCGT) mode, with heat from the Gas Turbine exhausts used to generate high and lower pressure steam in Heat Recovery Steam Generator (HRSG) units. Steam is used for process heating and high pressure steam for Power Recovery in a single Steam Turbine Generator (STG) set.

This CCGT concept allows for significant improvement of overall thermal efficiency with a gain of around 25%.



E-House

The e-house is the center of all the onboard electrical power. The power generated by the GTG's are connected to the HV switchboards, then distributed to HV consumers on the topsides and in the hull.

The energy to LV consumers are first transformed to lower voltages with respective transformers, then distributed with LV switchboards.

Apart from the switchboards and the transformers, the relevant electrical and control equipment like UPS, PMS, ICSS, control panels for the GTG's and major topsides equipment are also installed in the e-house.

On the e-drive side, the e-house also houses the variable speed drives for the MR and PMR compressors.





Highly Intelligent FLNG

AI Optimizes FLNG Operations for Efficiency



By leveraging AI for multi-level optimization—spanning process control, predictive maintenance, autonomous logistics, and emissions reduction—FLNG operations can achieve unmanned/minimally manned, highly reliable, and low-carbon performance.

The future lies in closed loop AI systems that continuously learn and adapt, making FLNG facilities smarter and more sustainable.

Digital Twin-Enhanced OTS with 3D Visualization for FLNG Facilities



The integration of 3D visualization and VR/AR technologies with Operator Training Simulators (OTS) through Digital Twins revolutionizes training for FLNG operations realize:

1. Realistic FLNG facility replication
2. Dynamic Process visualization
3. Advanced Scenario Simulation
4. Procedural training

Wison Integrated EPCIC Solution

One Contractor, Providing Turnkey Services

With abundant project experience and global resources, Wison provides integrated EPCIC solutions to our clients with full-cycle project customization services and midstream joint venture solutions, ensuring timely and high-quality outcomes.



Shanghai Head Office Engineering, Procurement & Project Management

- Feed and Pre-Feed as per project specification
- Standardized design significantly shortens schedule
- Detailed design up to "Issued for construction"
- LLI and global procurement

Nantong Yard Hull & SPB Tank Fabrication

- Dry dock facilities, 2000T gantry crane
- SPB tank and hull can be fabricated in parallel, reducing the overall project schedule



Qidong Yard Fabrication, Integration & Commissioning

- Large Hull construction
- Topside module fabrication and integration onto hull
- Yard gas trial available to greatly reduce the risk of on-site
- Site commissioning, start-up & handover to Ops

* In addition, Wison has many stable and high-quality collaborative outer resources, that ensuring the successful and high-quality delivery of projects.

Project Showcases

Project Name: Marine XII OFFSHORE FLNG Project

Client: Eni

Wison Scope of Work: FLNG EPCIC (2.4 MTPA)

Sail away in 2025



Project Name: PT FLNG Project

Client: Genting

Scope of Work: EPCIC (1.2MTPA)

First steel cut on June 7, 2024



Project Name: Tango FLNG Project

Client: Exmar

Scope of Work: EPC (0.6MTPA)

Successful gas trial in September 2016, delivered in January 2017

It has been deployed in the Republic of Congo by Eni since December 2023



Project Name: S188 FSRU

Client: Exmar

Scope of Work: EPC (Regas rate: 600MMSCFD)

Delivered in December 2017
World's first new-build FSRU barge





Onshore LNG Plant

Liquefaction capacity: 1.2 – 2.0 MTPA/Train

Standardized onshore LNG modularized plant, minimizing project schedule and cost

Project Showcase

Client:	Confidential
Work scope:	Engineering, procurement, fabrication, start-up and performance test
Capacity:	7 trains, each with a capacity of 1.2MTPA
Location:	Africa
Schedule:	2022.12 – 2026.07

FLNG Capacity Development Reference Table

/MMSCFD FEED GAS	/ MMNM3D FEED GAS	/TCF [®] Reservoir	/ MTPA LNG Production
100	3	0.7	0.6
200	5	1.5	1.2
400	11	2.9	2.4
600	16	4.4	3.6
750	20	5.5	4.5
800	21	5.8	4.8
1,000	27	7.3	6.0

① based on 20 years operation, 1 TCF is suitable for about 0.9 MTPA LNG production



Mission

Enabling a greener future

Vision

The global solution
provider for clean energies