



NATURAL GAS PUBLIC COMPANY (DEFA)

The Introduction of LNG to the Republic of Cyprus

GAS MARKETS IN TRANSITION IN SE EUROPE

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NATURAL GAS PUBLIC COMPANY



Co-financed by the European Union
Connecting Europe Facility

The Cyprus LNG Import Terminal Project

- Acquisition of FSRU
- Construction of the jetty for FSRU berthing and mooring equipment
- Construction of the jetty borne gas pipeline and Loading Arms
- Construction of onshore gas pipeline
- Construction of shore side above ground installation (AGI) pressure reduction and metering station (PRMS)
- Construction of pipeline storage array as a Natural Gas buffer solution

Contractor has 24 months from commencement to deliver the Terminal.

EXPECTED COMPLETION
OCTOBER 2022



LNG Import Project - Tender



- EPCOM Contract Awarded to
 - ***Consortium of JV China Petroleum Pipeline Engineering Co Ltd. and METRON S.A., with Hudong-Zhonghua Shipbuilding Co. Ltd and Wilhelmsen Ship Management Limited.***
- Owner's Engineers Contract Awarded to
 - ***Consortium of Hill International N.V., Bureau Veritas Solutions Marine & Offshore with TRACTEBEL and GAZOCEAN.***
- Insurance Advisor Awarded to
 - ***AON UK Limited***

LNG Import Terminal Summary Project Financials



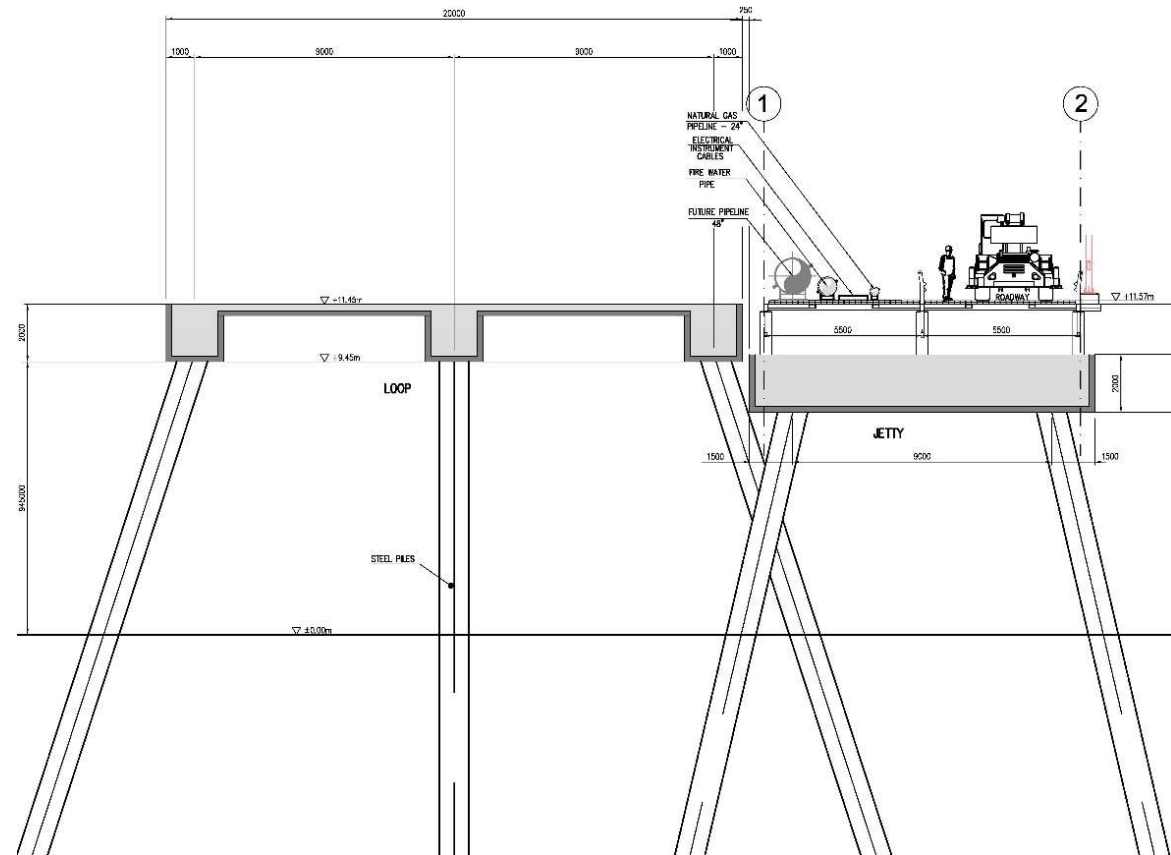
- Secured **CEF Energy Grant** of 40% of CAPEX with a maximum of **€101m**.
- Finalised DEFA-EAC Shareholders Agreement for Project's SPV (ETYFA)
 - EAC's **equity contribution €43m**.
- Credit Financing:
 - **European Investment Bank**
 - Secured **€150m loan** (20 years duration with favourable terms)
 - **European Bank of Reconstruction and Development**
 - Secured an **€80m** line of credit (similar duration and terms as EIB).

Project has €374m available funding

THE PROJECT – TECHNICAL DESCRIPTION

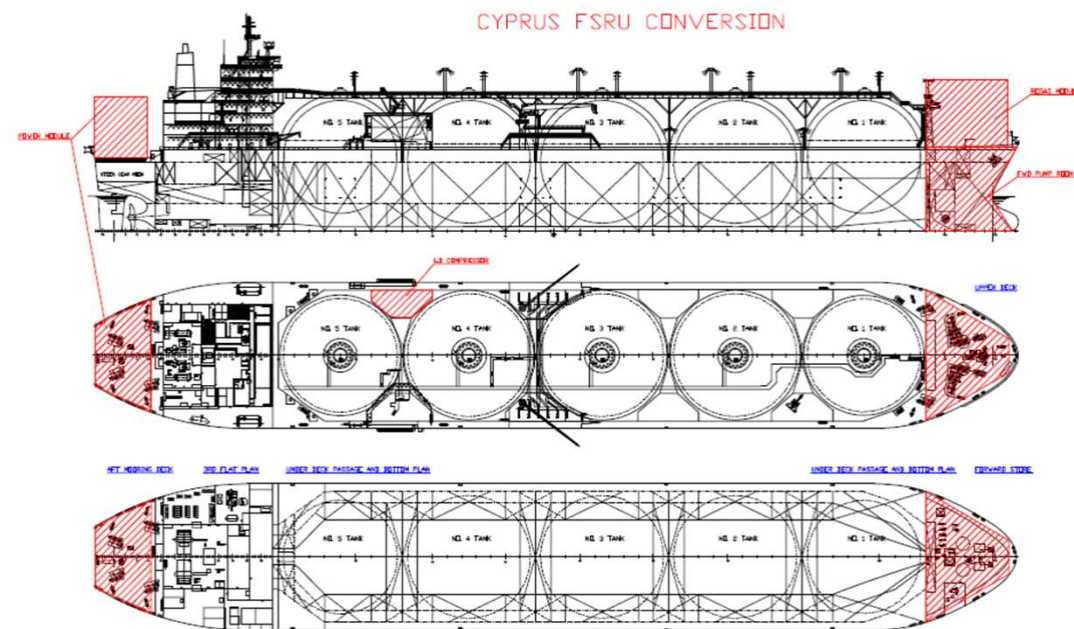


- Jetty Construction on piles, an
- FSRU based on conversion of the “GALEA” LNGC (was owned by Shell Tankers (Singapore) Private Ltd)
- Conversion Works at the Shipyard in China
- FSRU will be classed as both LNGC and FSRU.
- Onshore pipe works with onshore gas facilities
- Implementation Timeframe: **24 months from commencement of works**



VESSEL DESCRIPTION AND CONVERSION WORKS:

- Year and Place of Build: 2002, NSMW – Mitsubishi Heavy Industries
- Classification Society Lloyds Register
- Containment System: Moss Rosenberg (spherical tanks)
- 5 Tanks with overall LNG storage capacity of 136,141 m³ (at normal filling level)
- Dimensions: Overall Length 290m, Breadth moulded 46m, Depth moulded 25.5m
- Propulsion: Steam, Dual Fuel
- Redundancy Philosophy on Equipment: N+1
- Power Generation: DFDE Gen Sets will be installed
- BOG Handling: GCU Installation and BOG Compressor



REGAS AND TERMINAL CAPACITY

- After conversion from LNGC to FSRU the vessel will be equipped with a state-of-the-art regasification modular unit delivered by Wärtsilä.
- The Terminal will be capable of receiving LNG from LNG carriers ranging in size from 120,000m³ to 217,000m³ (Q-FLEX)



SITE ESTABLISHMENT – PHOSPHOGYPSUM LAGOON REMEDIATION WORKS (2019-2020)



ETYFA PROMETHEAS



DEFA Activities

- **LNG Supply Procurement Process**
 - 2 Stage Process: Expression of Interest (prequalification) Evaluation completing this month
 - Cyprus' LNG Demand will be allotted between SPA and MSAs
 - SPA will cover base load Quantities
 - MSAs will be used for supplementary cargos
- **Open Season Process**
 - Determination of Major End Users, NG Quantities per buyer and Spatial Allocation
 - 3 current licensed IPPs
- **NG Pipeline Network Development**
 - Preliminary Design and Feasibility Study Completed
 - Phase A' – Power Generation supply and development of backbone transmission network
- **Other NG Consuming Markets**
 - Bunkering
 - Industry
 - Road Transport
 - Off Grid Stations

The Introduction of LNG to the Republic of Cyprus

Cyprus' LNG Import Terminal: A Project of Common Interest

- Multiple benefits to the Republic of Cyprus
 - Ends Energy Isolation
 - Diversification of Energy Sources
 - Strengthening of Security of Supply
 - Reduction of cost of Energy (with consequential multi-layered benefits)
 - Major Environmental positive impact

- An EU PCI that enhances regional cooperation

Thank you!

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