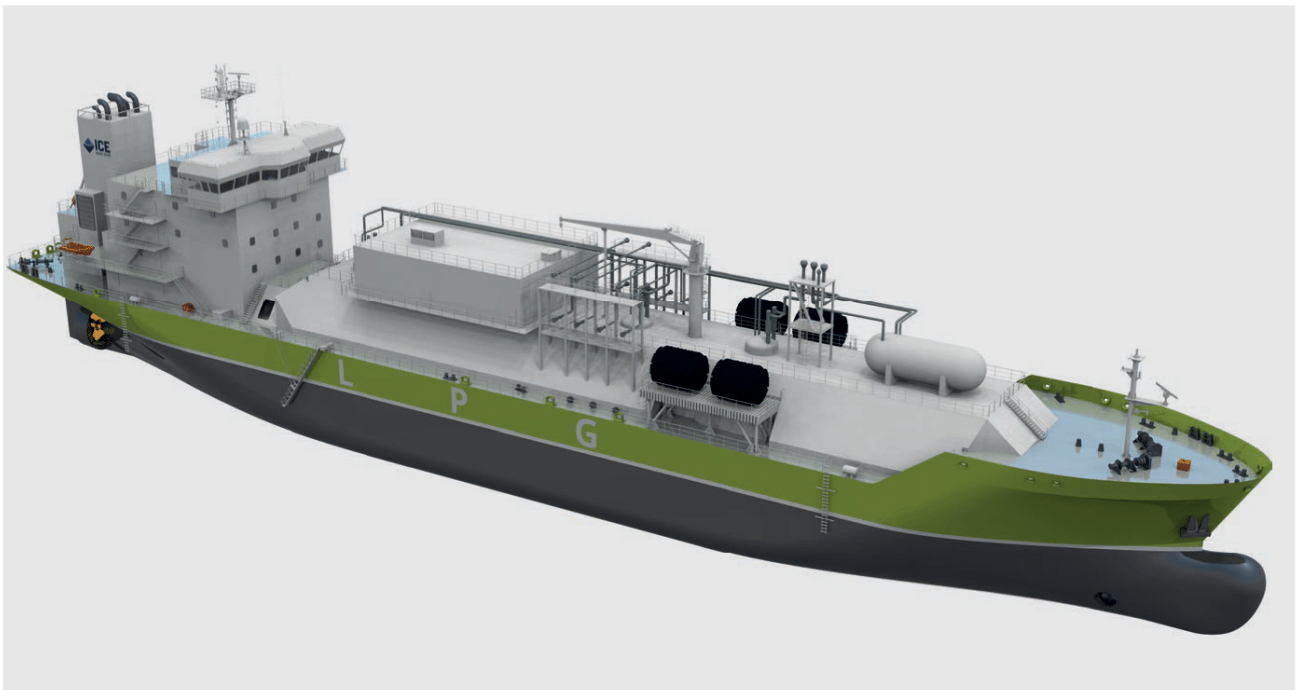


8,500 cbm LEG/LPG/VCM DUAL-FUEL CARRIER

Based on extensive gas ship design experience, ICE has designed a small-scale gas carrier with a cargo capacity of 8,500 cubic meters, compliant with IGC 2016 rules as well as the rules of the selected Class and Flag State.

The vessel is designed as a combined gas carrier with two (2) independent, insulated, cylindrical IMO Type C cargo tanks. She is suitable for shipping various cargoes (LEG/LPG/VCM) which makes her deployable in multiple trades, enabling a high utilisation rate of the vessel.

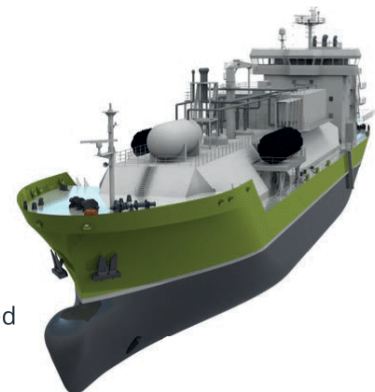
The ship is designed for dual fuel propulsion.



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Design Highlights:

- World-wide trading
- Hull form optimized using Computational Fluid Dynamics (CFD) analysis
- Single decked with machinery and accommodation located aft
- Low-fuel consumption, high propulsive efficiency
- Midship cargo and LNG manifolds and flexible hoses for different types of gas transfers from ship to shore and vice versa
- Space reservations for Scrubber & Selective Catalytic Reduction (SCR) included
- BWT unit compliant with the latest IMO BWM Convention



The concept is open to design variations in terms of overall vessel size and propulsion system arrangement.

Principal Dimensions

Length o.a.	140.00 m
Length p.p.	132.00 m
Breadth mld.	20.00 m
Depth mld.	11.50 m
Draught, scantling	8.00 m
Draught, summer	7.90 m
Deadweight, abt.	9,700 t

Capacities

Cargo (2 x IMO Type C tanks)	8,500 cbm
IFO* / MGO (abt.)	700 cbm
LNG Fuel Storage (abt.)	1,200 cbm
Lub. Oil	18 cbm
Ballast Water	4,700 cbm
Fresh Water	41 cbm

**Optional - scrubber integration and tank heating coils must be provided to enable use of Intermediate Fuel Oil (IFO).*

Accommodation & Safety

Accommodation 14 persons

Lifesaving equipment:

- 1 enclosed life boat for 14 (PS)
- 1 enclosed life/rescue boat for 14 (SB)

Cargo System

Cargo handling system designed and supplied by specialist supplier.

Ballast System

Ballast Pumps 3 x 500 cbm/h

BWT Unit compliant with the latest IMO BWM Convention

Speed

Service Speed 15 knots

Machinery

Main Engine Dual Fuel
7,700 kW @ 750 RPM





Generator sets 2 x 1,665 kW

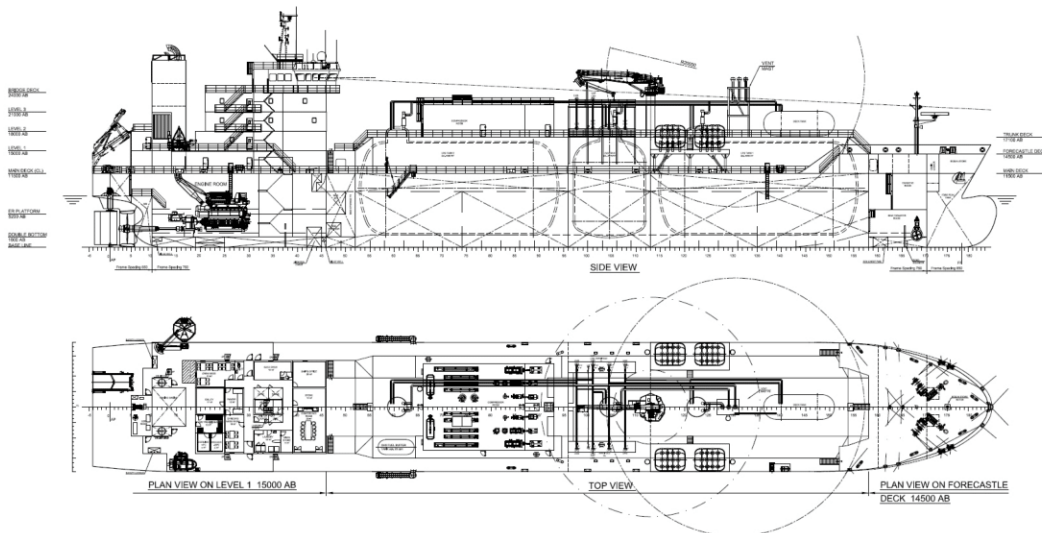
Emergency generator 1 x 150 kW

Propeller 1 x CPP,
dia. 4.6 m, four blades

Bow Thruster 550 kW

Class - Bureau Veritas (BV)

I,  Hull,  Mach, Liquefied Gas Carrier type 2G – Dualfuel, Unrestricted Navigation,  AUTUMS,  SYS-NEQ-1, INWATERSURVEY, GREEN PASSPORT, CLEANSHIP, MON-SHAFT, BWT, ICE CLASS IB



ENGINEERING CERTAINTY

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With an almost 55-year track record and an annual capacity having exceeded 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is Europe's largest independent ship design consultancy. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FSO/FPSOs and a range of other vessels. We also have available proprietary designs that can be adapted to clients' requirements.

With our head office in the Isle of Man and engineering facilities in Romania and Croatia, we provide high quality design and engineering at very competitive prices.