



GAS CARRIER EXPERIENCE



Project for afloat production of green H2 and Ammonia for an international consortium.

Year: 2024 -25

Picture courtesy SwitcH2 B.V.



Class: ABS

20,000 cbm Shallow Draft LNG Carrier

Year: 2017 -18

Client: Marine Project Department of an Oil Super-major

ICE Scope of Work:

Concept design for hull and marine systems for distribution of LNG in restricted ports.

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400,000 cbm Generic Ammonia FSO Vessel (NH3-400-SM)

Year: 2023

Developed by ICE as a platform for high-capacity ammonia storage and

offloading.

Effective management of BOG (boil of gas) either via reliquefication or by using it as fuel.

Low-pressure IMO type A containment system.

84,500 cbm LPG & Ammonia Carrier

Year: 2010

Client: Weir LGE Process; Shipyard: Sasebo Heavy Industries (SSK), Japan

ICE Scope of work:

Basic design for hull and cargo tanks and detail design for independent cargo tanks for a 84,500 cbm LPG carrier

2017: Design updated to new IGC Code rules and Class NK: NS* (LGC 2G, SPC-WBT) (ESP) (IWS) (PSCM), MNS*, NOx-III







Large LNG Carrier Study

Year: 2009

Client: Hudong-Zhonghua Shipbuilding Co. Ltd., China

ICE Scope of work:

Type evaluation and propulsion configuration studies for a new class of LNG Carriers.

In cooperation with Bernhard Schulte Shipmanagement (BSM) Isle of Man & Shanghai.



7,500 cbm LNG/Ethylene/LPG Carrier

2006

Client: Tractebel Marine Engineering

Germany

Owner: Anthony Veder, Netherlands Shipyard: Remontowa Shipyard,

Gdansk

ICE Scope of work:

Basic design for steel structure, piping Tank test (resistance & selfpropulsion tests, wake measurements - azimuth thrusters)



EPRONAV 0755 P1257 B 19 50

10,000 cbm LPG Carrier

2006

Shipyard: INP Heavy Industries, Korea

ICE Scope of work:

Full basic design for steel structure - AutoCAD

Towing tank tests

8,000 cbm LPG/Ethylene/Ammonia/VCM Carrier

2005

Client: Tractebel Marine Engineering Germany Shipyard: Sekwang Heavy Industries Co. Ltd., Korea

Owner: Lauritzen Kosan AS, Denmark

Class: BV

ICE Scope of work:

Basic design for hull & superstructure (machinery and piping systems)

Local vibration analysis - superstructure & ER area.





ICE GROUP CAPABILITIES AND RESOURCES

As a leading European ship design company, ICE has been involved in various LPG and LNG projects including conversion of LNG carriers to Floating Storage and Regasification Units ("FSRU").

The role of ICE is to stay abreast of leading technologies and to integrate the systems and products of specialist suppliers of process and containment technology into a holistic ship design to provide a safe and cost-effective solution for its clients. This includes ships using LNG for propulsion, as well as "LNG ready" vessels.









ENGINEERING CERTAINTY

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With a 55-year track record and an annual output 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.