



10th APFSD
Participate • Accelerate • Innovate



Session 2

NATURAL GAS IN THE SPOTLIGHT (IN COLLABORATION WITH GLOBAL GAS CENTRE)

Regional Roundtable on the Role of Natural Gas in the Energy Transition

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Global Newbuild Support Manager | Gas Technology Specialist



About Lloyd's Register

Who we are | What we do | How we do it

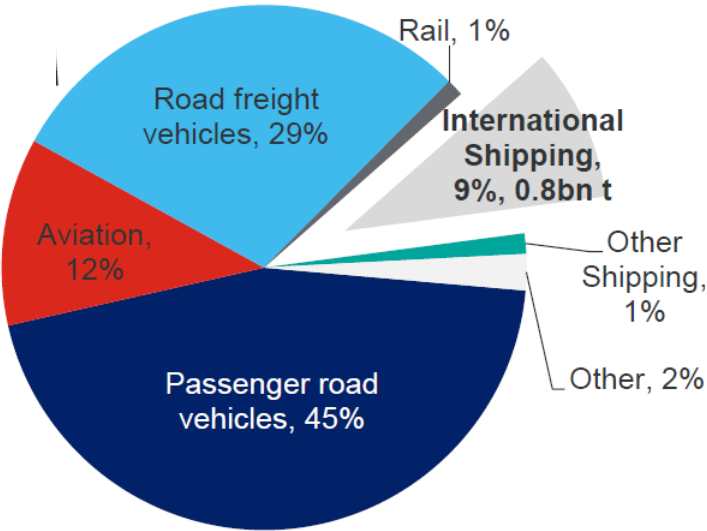
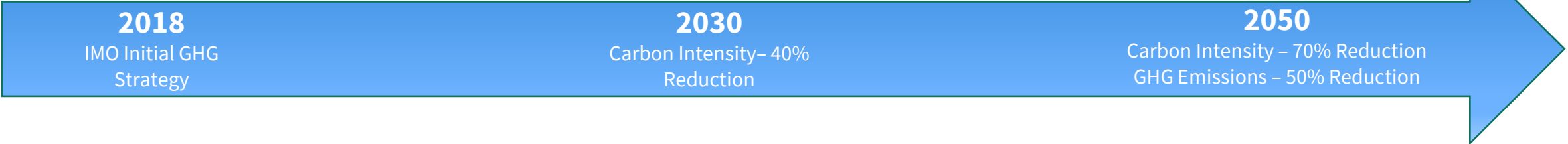
Lloyd's Register [LR], through attention to **innovation** and planning for the **future**, we have developed a **wide breadth** of capabilities to provide services to a **diverse** range of industries **worldwide**





Maritime Decarbonisation – Natural Gas a key enabler?

Maritime shipping - GHG Emissions Reduction



Shipping’s share of global transportation sector CO₂ emissions

*Clarksons Research, 2022

Regulatory Drivers

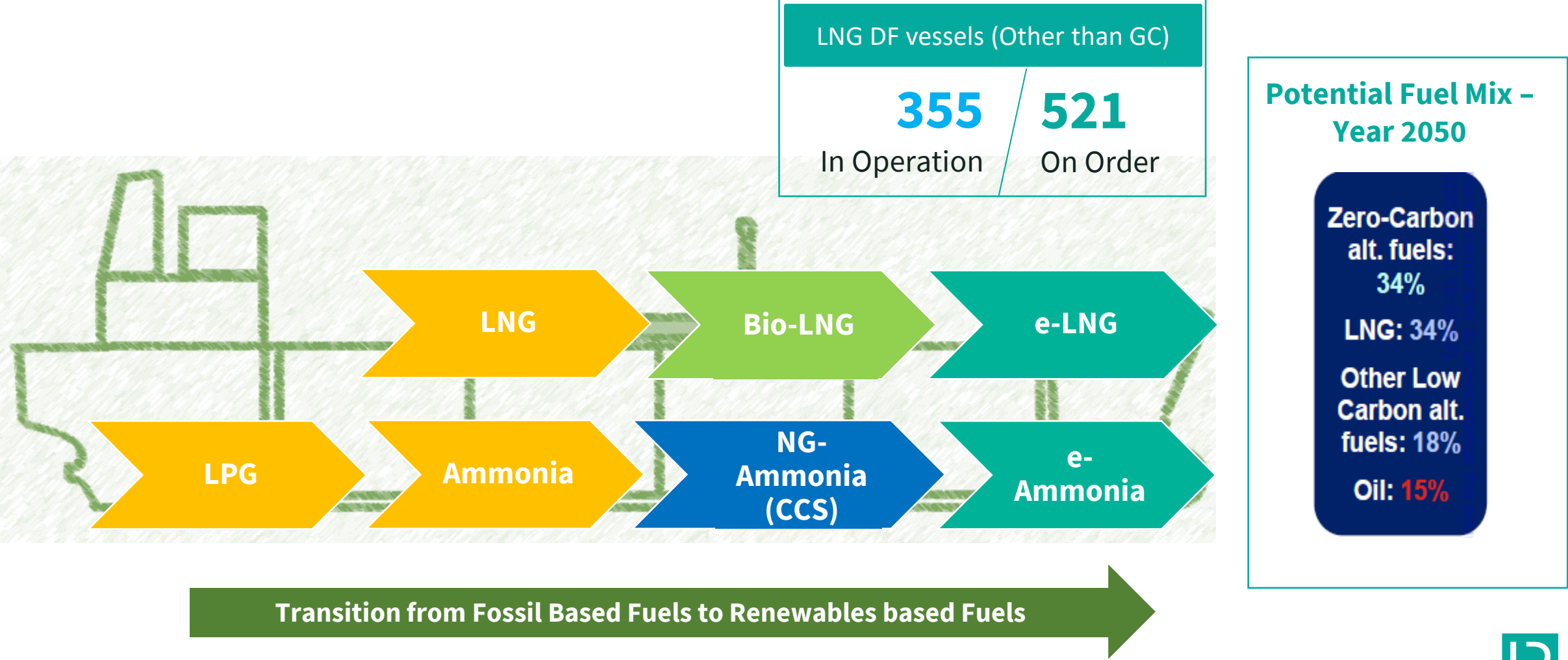
Technical - Design Indices (EEDI, EEXI)

Operational – Carbon Intensity Indicator (CII)

Fuel – Lifecycle emissions standards

Market Based Measures - EU
EU-ETS
Fuel EU Maritime

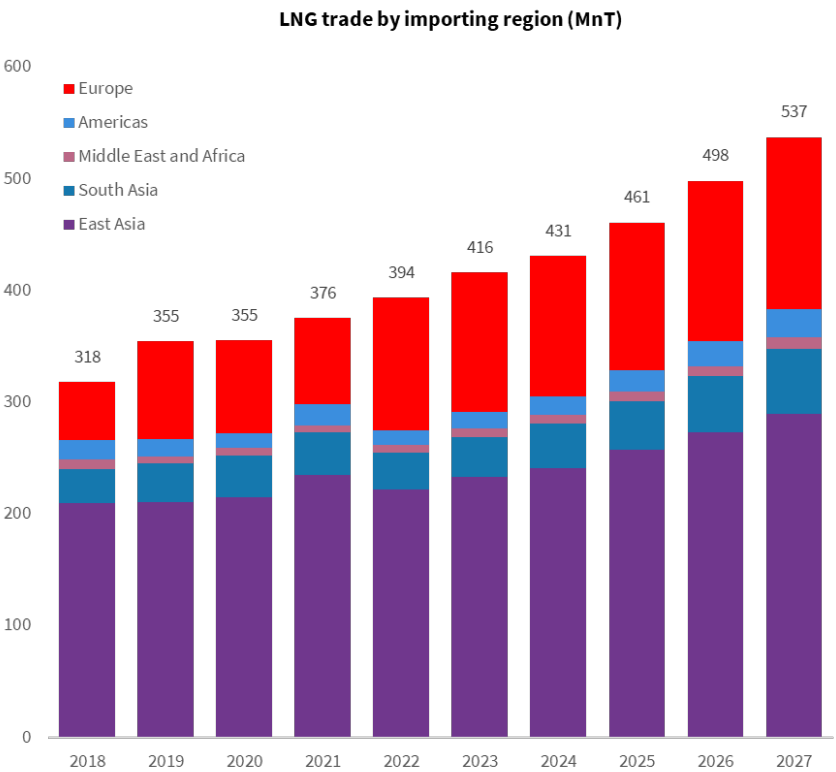
Gas based pathways - Maritime Decarbonisation





Shipboard Transportation of LNG and Low carbon fuels

LNG Carriers to support growth in LNG seaborne trade

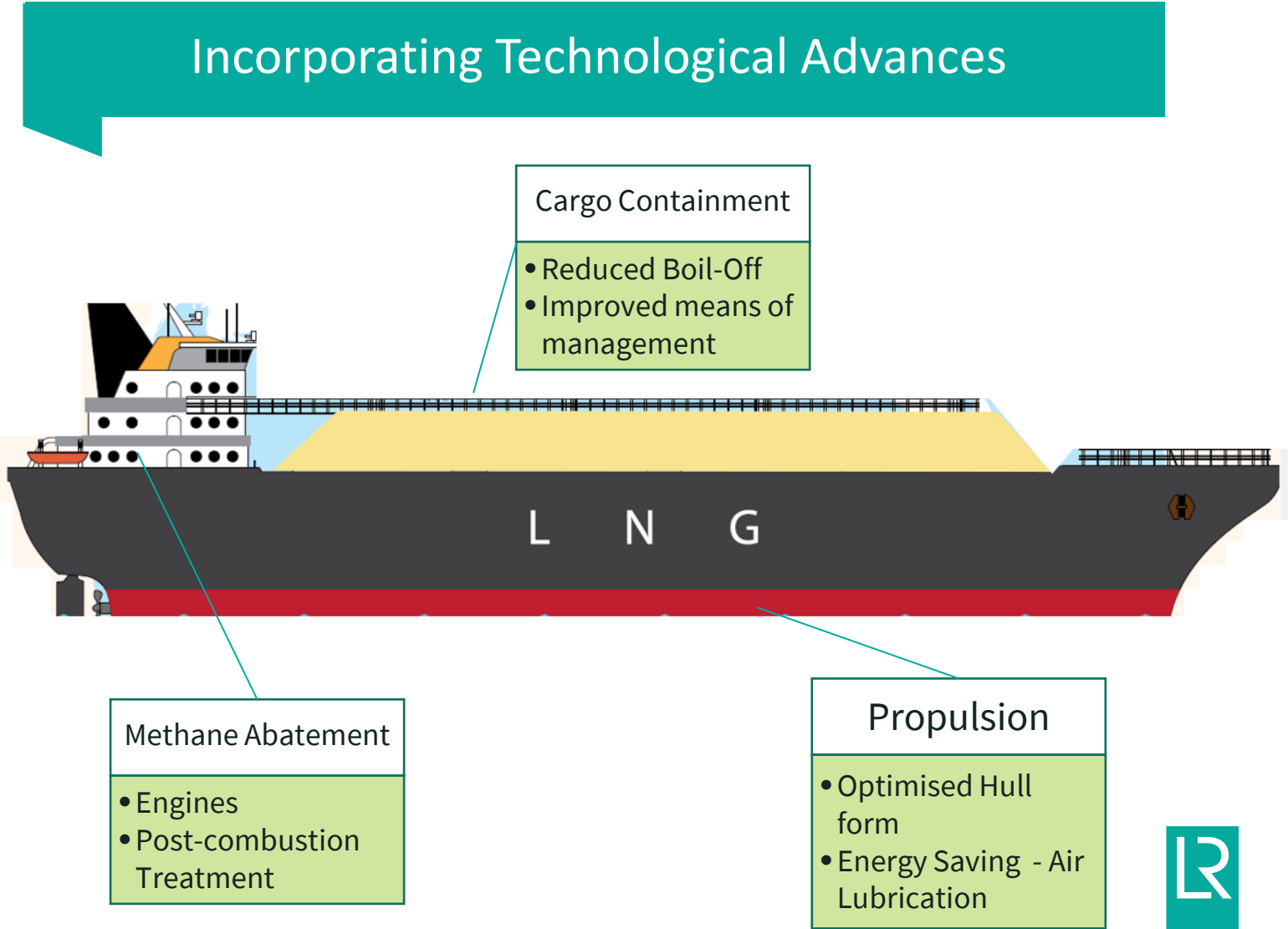


Source MSI, LNGC Outlook Dec 2022

LNG Carrier Fleet

720
In Operation

317
On Order



Enabling low/zero carbon gas value chain

Ammonia

Large scale transportation – thermal power plants/industrial application

Ammonia Fuelled Very Large Ammonia Carrier



Ammonia FSRU



Liquefied CO₂ Carriers



Source: <https://www.offshore-energy.biz/>

Liquefied Hydrogen Carriers



Source:Hystra



Thank you

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