



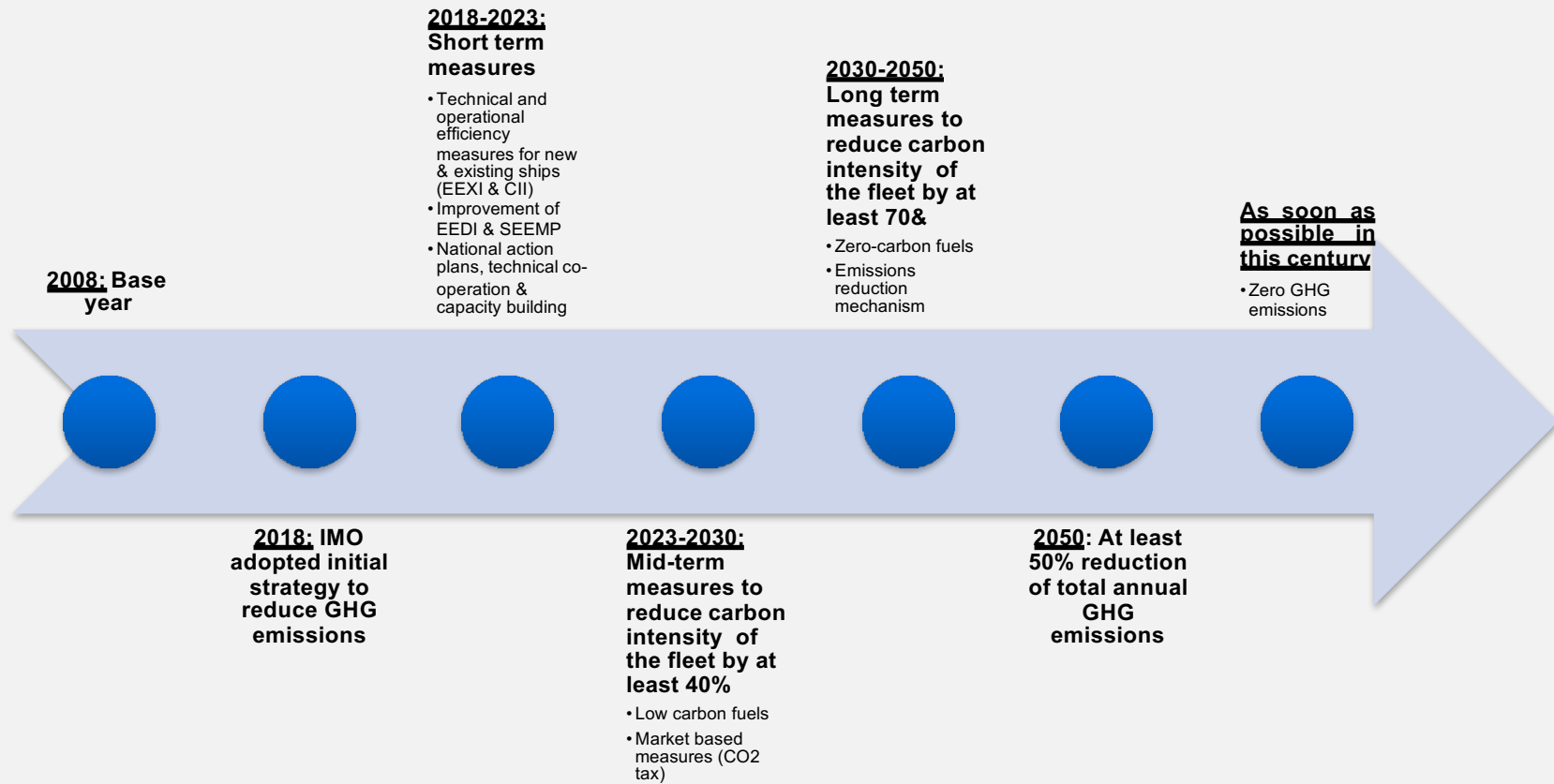
Where do we stand with decarbonization and how can Newport help?

Newport Shipping and Newport Maritime Services

Marine Money Hamburg - February, 15th 2023



Regulatory timeline



Biofuels and renewables

- Achieving the complete transition of the maritime industry to e-fuels such as ammonia and methanol would require ~2,000 Gigawatts of renewable energy
 - Another estimate according to IRENA 2022, by 2050, shipping will require a total of 46 million tonnes of carbon neutral hydrogen for e-fuels production. Based on current technology, this equates to 500GW of electrolyser and 1,000GW * of renewable electricity capacity
 - 100 units of renewable energy to produce e-fuels, output at the propeller stands at just 25 units
- * 1GW = 3.125m PV panels (based on a silicon model panel size of 320 watts) or; 333 Utility-Scale Wind Turbines (based on average utility-scale wind turbine size of 3mW installed)

Tools for decarbonization

Logistics and digitalization	Hydrodynamics	Machinery	Fuels and energy	After treatment measure
Speed reduction	Hull coating	Machinery improvements	LNG, LPG	Carbon capture and storage
Vessel utilization	Hull-form optimization	Waste-heat recovery	Biofuels	
Vessel size	Air lubrication	Engine de-rating	Electrification	
Alternative routes	Cleaning	Battery hybridization	Methanol	
			Ammonia	
			Hydrogen	
			Harvesting from surroundings (including wind and rotor sails)	
>20%	5-15%	5-20%	0-100%	>30%

Financing requirements

- To decarbonize shipping, by 2050 between US\$ 1-1.4 trillion investment into the industry is estimated to be required

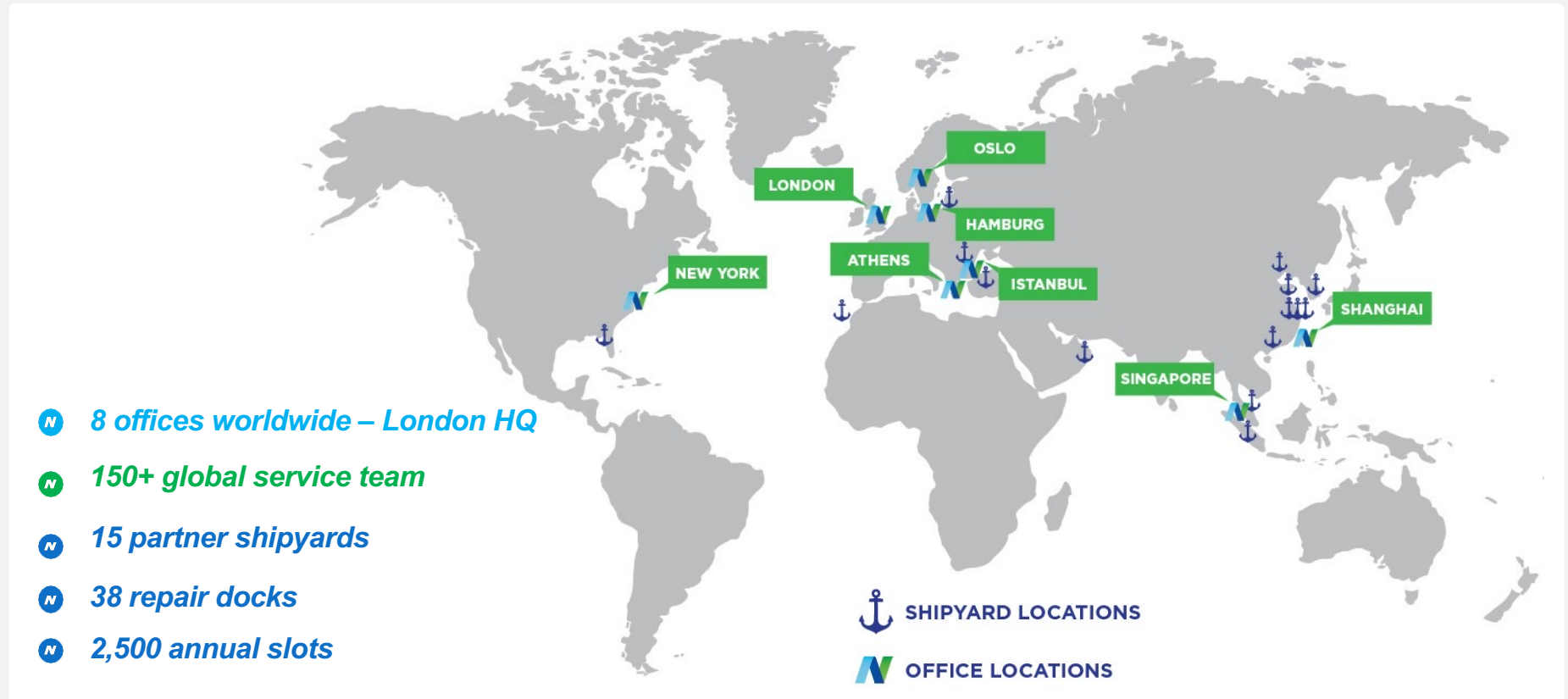
Key points points of progress (August 2022 vs. 2018)

	August 2018	August 2022
Fleet (m GT)	1,333	1,513
Orderbook (m GT)	160.7	174.9
Orderbook (% fleet, dwt)	11.4	9.7% (vs. 51% in 2009 peak)
Orderbook Value (USD bn)	236.4	285.6
Containership Orderbook (m TEU)	2.6	7.0
Containership Orderbook (% fleet)	11.9	27.6
Average Age of Fleet (5,000+ GT)	11.5	13.2
SOx Scrubber Fitted Fleet	407	4,664
% Fleet BWMS Fitted (GT)	23.7	67.3
% Fleet EST Fitted (GT)	18.7	23.8
% Fleet Alt. Fuel Capable (GT)	2.8	4.7
% Obk. Alt. Fuel Capable (GT)	14.3	42.1% (but, 61% as of 2022 end)
Ports with LNG Bunkering	88	149
Source: Clarksons Research	https://insights.clarksons.net/smm-back-from-a-break-with-green-and-tech/	

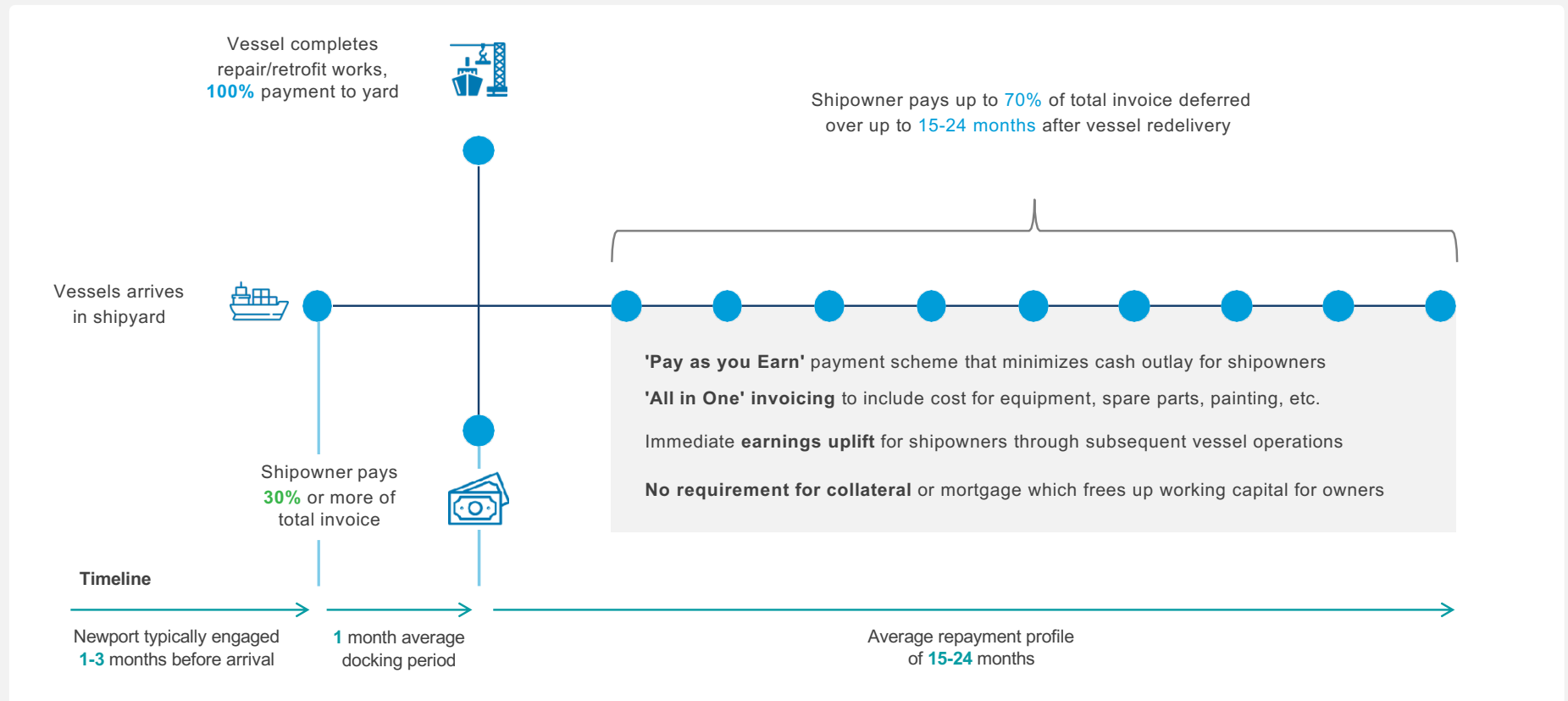


How can we help?

Global ship repair and retrofit services



Highly attractive deferred payment model



Priorities

- GHG emissions are cumulative
- LNG has global availability at scale, safety record, established infrastructure and other existing advantages over alternatives such as energy density

Fuel	Energy Density (MJ)
IFO	41 MJ / kg
Ammonia	19 MJ / kg
Methanol	20 MJ / kg
LNG	54 MJ / m3

Capabilities

Turnkey decarbonization program ensures that the LNG retrofit investment is aligned with strategic and commercial goals.

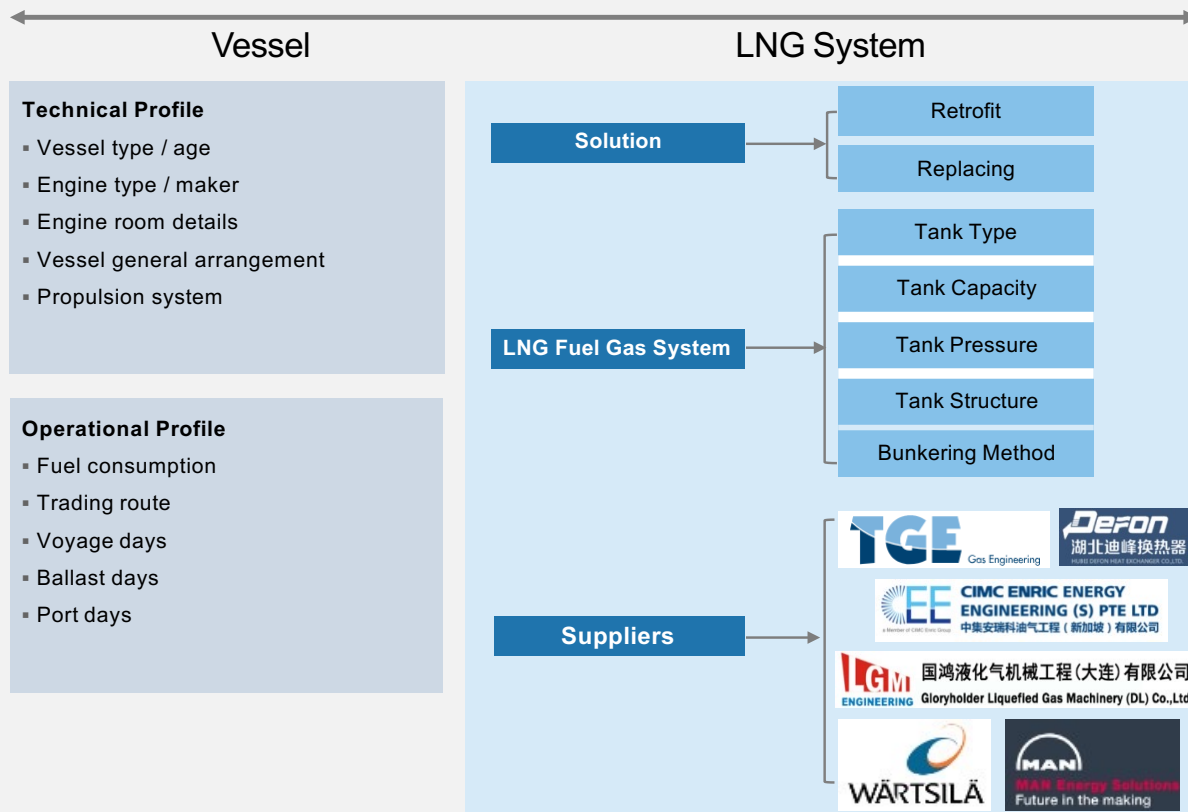
Advantages:

- Proprietary design with AiP status (Bureau Veritas and DNV)
- Detailed evaluation of retrofit options for each vessel in your fleet
- Access to turnkey execution with our partner yards and suppliers
- Access to FINANCE to support the retrofit investment
 - Newport can structure customized financing solutions for the retrofit project

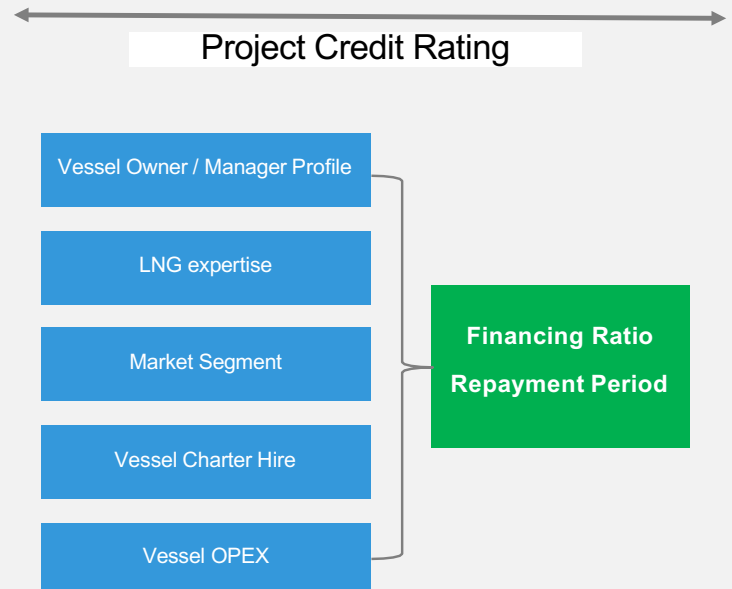


Can you afford to retrofit?

Engineering Feasibility Study



Financing



Can you afford to NOT retrofit?

Risk factors:

Reputational

Environmental

Litigation

Financing

Insurance



Conclusion



**Let's make shipping an inspiring case study of
how an entire industry can decarbonize!**

Disclaimer

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