NEWPORT SHIPPING

Turnkey decarbonization solutions: RETROFIT INVESTMENTS aligned to strategic and commercial goals

Marine Money
Presentation at the 2022 London Ship Finance Forum
Apr. 11th, 2022



NEWPORT AT A GLANCE

Who we are?

More than 50 years of solid experience in Design & Engineering for ship repair and retrofits

Worldwide dedicated commercial & technical service teams in all major shipping hubs, headquartered in UK

Global partnership with 15 shipyards with 38 repair docks

In-house design and engineering solutions for LNG retrofit

Experienced & professional team located globally with extensive knowledge

What we offer?

Turnkey services for all ship repair and retrofits

Newport supports shipowners, by

- a) Providing competitive drydock/repair cost budgets in a network of well-established high quality yards globally
- b) Allowing the aforementioned cost to be repaid over an extended period (up to 24 months), alleviating the cash-flow breakeven of the shipowners

LNG retrofitting solutions for tankers, bulk carriers and container vessels: Approval in Principal (AIP) obtained from DNV & BV for conceptual design

Other future proof solutions for zero-emission shipping



NEWPORT'S COMPETITIVE EDGE IN THIS DEMANDING INDUSTRY

- Newport has established a solid shipyard network across the globe which allows for optimal vessel positioning
- Good negotiation power with the shipyards through scale
- Dedicated drydocking expertise with significant good track record
- Newport provides ship owners a highly attractive pay-as-you-earn model
- Newport provides quality on-site project management at all partner yards
- Digital platform option for easy access / data storage



CLIMATE CHANGE IS THE BIGGEST CHALLENGE AND BIGGEST OPPORTUNITY OF OUR LIFETIME

Shipowners will have to invest in their fleets, through new builds and retrofits, in order to comply with emissions regulations and to retain their license to operate.

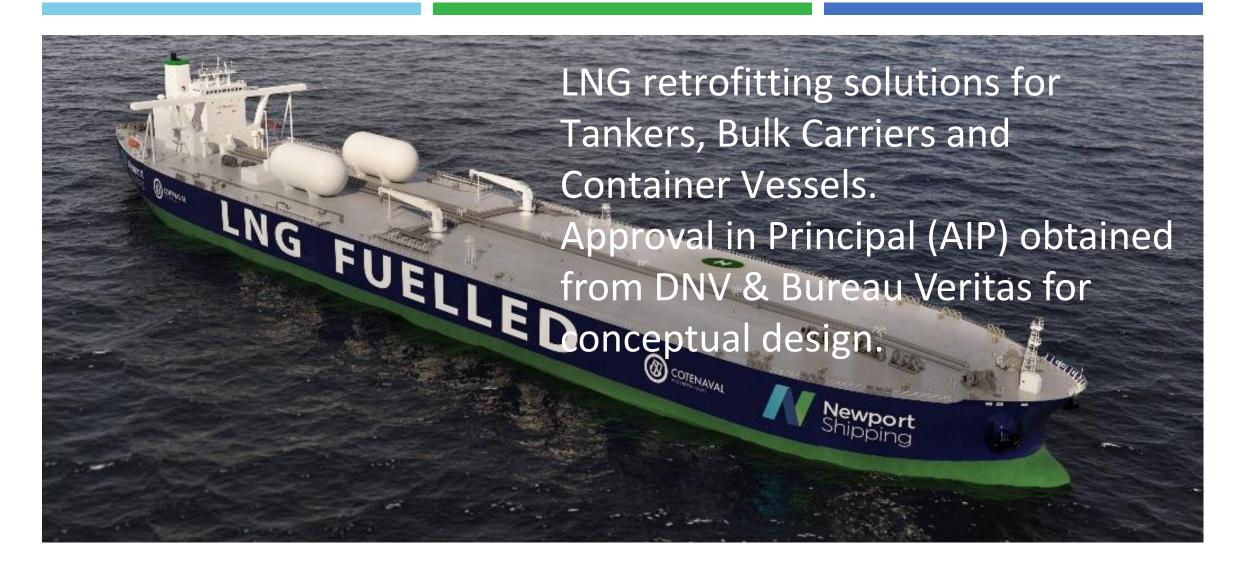
Moreover, they are facing more and more pressure from their clients and consumers to provide clean transport.



TURNKEY LNG RETROFIT SOLUTIONS



SHIPPING COMPANIES ARE LOOKING TO FUTUREPROOF THEIR FLEET BY RETROFITS (1)





SHIPPING COMPANIES ARE LOOKING TO FUTUREPROOF THEIR FLEET BY RETROFITS (2)





SHIPPING COMPANIES ARE LOOKING TO FUTUREPROOF THEIR FLEET BY RETROFITS (3)





APPROVAL in PRINCIPLE DA-SAFE/21/00228 rev. 01

At the request of:

MARINE SERVICE GMBH & NEWPORT SHIPPING UK LLP

BUREAU VERITAS MARINE & OFFSHORE, acting within the scope of its general conditions (*), declares hereunder that the design of the:

LNG Fuel Gas Supply System - Portable LNG Tanks

is Approved in Principle, with respect of the aim of the classification as defined in Part A, chapter Lof the latest edition of our Rules and in the conditions stated in Annex 1.

The present Approval in Principle covers the design of the ship as shown on the documents listed in Annex 2.

The validity of this approval may have to be reconsidered, in case of any major modification likely to invalidate the principles shown on these documents. The approval would become null and void should BUREAU VERITAS MARINE & OFFSHORE not be kept informed of such modifications.

Prior to the classification of a ship, all relevant drawings, calculation notes, test reports and other documents required by the Rules or necessary to address the technical issues listed in Annex 3 are to be submitted for review.

Issued at Paris, on 10th June 2021

Damien de CASTELET

(*): see Appendix



THE SHIPPING INDUSTRY YS PUSHING TOWARDS THE NEW NORMAL: ZERO EMISSIONS

WHAT DOES THIS MEANS?

Shipping is the most fuel- and cost-efficient mode of transport and it has the highest environmental efficiency per ton-mile meaning it's here to stay

International shipping is —due to its size —a major polluter; GHG emissions by the maritime industry exceed 1 billion tons per annum

The current trajectory of GHG emissions is not in line with IMO (or EU) reduction targets of 40% by 2030, or 50% by 2050

Increasing regulatory requirements and customer focus on the environmental impact of the shipping industry calls for solution



Shipowners will have to invest in their fleets, through new builds and **retrofits**, in order to comply with emissions regulations and to retain their license to operate.



TURNKEY LNG RETOFIT INVESTMENT ALLIGNED

NEWPORT'S 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 from our partner yards and suppliers
- Access to FINANCE to support the retrofit investment
 NEWPORT can structure customized financing solutions for the Retrofit project (subject to credit evaluation)

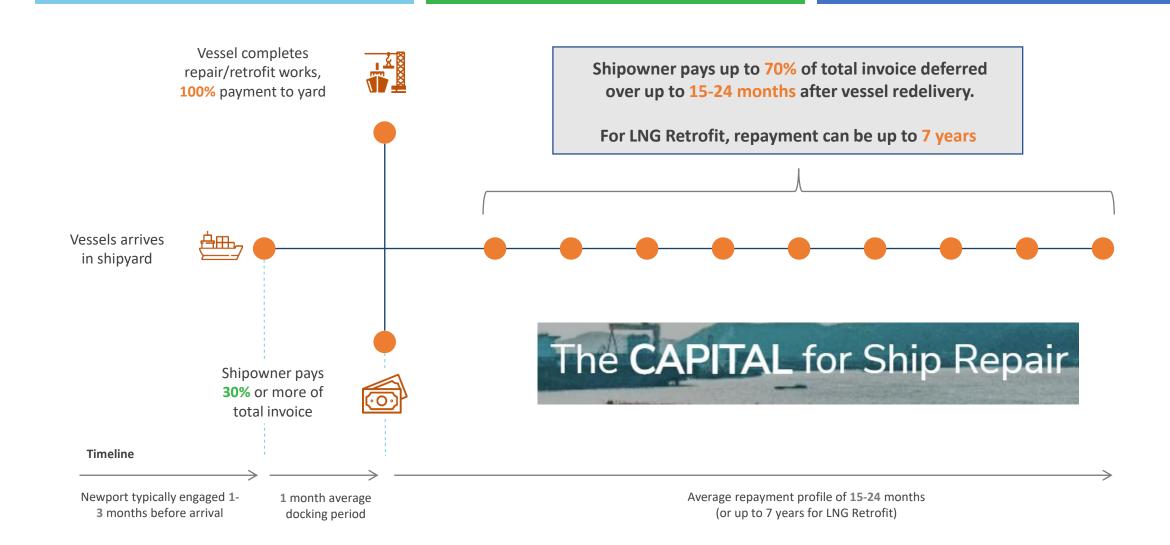




ENHANCED PAYMENT STRUCTURE FOR SHIP TECHNICAL SERVICES



ADVANTAGES OF ENHANCED PAYMENTS OPTIONS FOR SHIP TECHNICAL SERVICES





ADVANTAGES OF NEWPORT'S DEFERRED PAYMENT OPTIONS FOR SHIP TECHNICAL SERVICES

- Optimization of treasury & working capital planning + better forecasting
- Time better focused on core business operations
- 'Pay as you Earn' payment scheme that minimizes cash outlay for shipowners
- Increased debt capacity
- Tailor-made solutions structured to cater to your needs
- 'All in One' invoicing to include cost for i.e. equipment, spare parts and painting
- No requirement for collateral or mortgage which frees up working capital for owners (for LNG retrofit, addition collateral may be required)
- Security in form of signed Irrevocable Payment Guarantee



GREEN SHIP FINANCE FOR DECARBONIZATION

With sustainability demand growing maritime is moving towards a global green ship finance market with a major demand expected for retrofit funding.



Image: Pixabay

Green financing in shipping is here to stay!



KEY TAKE AWAYS



KEY TAKE AWAYS

- Time to act is now!
- Newport has the necessary Turnkey decarbonization solutions
- LNG Retrofit = Class approved, fast and cost effective
- Newport = One stop shop for retrofitting solutions
- Newport makes sure that the LNG retrofit investment is aligned with strategic and commercial goals
- Collaboration is needed to reach the goal!

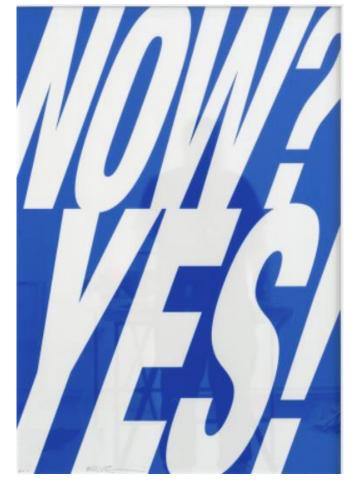


Image: https://affenfaustgalerie.de/de/shop/item/eike-koenig-now-yes/



MANY THANKS FOR YOUR ATTENTION





17

APPENDIX:

TECHNICAL DETAILS + CASE STUDY



Key Parameters for Bulker (Capesize)

VESSEL PARTICULARS

• IMO type C

• LNG tank: 1x3500 m3

• Engine: 6S70ME-C10.5-GI

• MCR: 18660 Kw

• NCR: 15861 Kw

• SGC: 134.8 g/Kwh

• M/E Cons.: 2138 Kg/h

• Speed: 14.0 Kn

• Endurance: 22 days

• Range: 7500 nm









19

Key Parameters for Tanker (VLCC)

VESSEL PARTICULARS

• IMO type C

• LNG tank: 2x2300 m3

• Engine: 7G80ME-C10.5-GI

• MCR: 24330 Kw

• NCR: 20681 Kw

• SGC: 126,1 g/Kwh

• M/E Cons.: 2608 Kg/h

• Speed: 14.5 Kn

• Endurance: 24 days

• Range: 8500 nm









20

Containership: Case Study (route source CMA-CGM)



Europe – West Africa (EURAF) 6 Vessels – 42 days



Europe – Mediterranean (LEVANT) 5 Vessels – 35 days



Containership: Case Study – Assumptions, Results and Benefits



Assumptions

- 11 retrofits in total (5500 TEU)
- 20 knots speed
- EURAF each 5 days
- LEVANT each 6 days
- 30 mins on/off + 3 hrs Land
- Le Havre as Main Hub

Results

- EURAF 96 LNG-container/ship
- LEVANT 84 LNG-container/ship
- EURAF 576 LNG Containers
- LEVANT 420 LNG Containers
- Shadow 96 LNG Containers
- In Total 1112 LNG Cont. (20% resv.)

Benefits

- Reduced Retrofit Period
- Standardized Structure
- Flexible & No need Bunker Tanker
- EURAF 1.5kt-CO2/ship/trip less
- LEVANT 1.3kt-CO2/ship/trip less
- Save 137k t-CO2 abt. €11m p.a.



22

Containership: Case Study - Potential Vessel Candidates

SIZE 🖸	4000-6000 TEU	6000-8000 TEU	8000-10000 TEU	10000-12000 TEU	12000-14000 TEU	14000-16000 TEU	>16000 TEU
TOTAL (<10 years)	240	72	259	122	158	119	156
MAN MC	77	22	12	2	20	18	0
WARTSILA	5	2	19	12	6	36	8
MAN ME	119	16	213	105	111	65	145
WARTSILA FLX	39	32	15	3	21	0	3
Max MCR [kW]	51390	57222	72240	72240	80905	72240	75570
Avg MCR [kW]	30994	43852	52071	51806	61198	54797	60749
Min MCR [kW]	11810	27060	36032	34223	40200	46360	46620
Max Srv. Speed [kNots]	25.0	25.5	25.8	25.2	25.3	25.1	24.1
Avg. Srv. Speed [kNots]	22.3	23.2	23.3	22.9	23.9	22.4	19.9
Min Srv. Speed [kNots]	14.5	19.0	21.0	21.0	20.9	18.0	14.5
POTENTIAL (*)	158	48	228	108	132	65	148

[❖] Total candidates for current fleet 887 vessels.

Also 222 potential new building orders

