

# BW LPG Limited Credit Agricole CIB Shipping Conference

Marine Money Week 18 June 2019, New York





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### **LPG – A Clean Energy**

Each year, total death from cooking related indoor air pollution

4.3 million

More than Malaria, Tuberculosis and HIV/AIDS combined

UN's "Cooking for life" initiative aims to switch one third of 3 billion people from cooking with solid fuels to LPG

3 billion



45%



In 2018, world's total seaborne exports trade reached

95 million tonnes (3.2MMb/d)



Exports carried by BW LPG in 2018

11 million tonnes (0.4MMb/d)



Number of times BW LPG moved a ship in the US in 2018

130 times







## Charting a sustainable future

**Saving lives** 



**Reducing deforestation** 



**Reducing pollution** 



Improving equality and education

LNG

GAS

LPG



Mainly Methane

Separated from NGLs and liquefied before transportation

#### End usages:



Power generation



Residential



Industrial

Over 370 MT total export in 2018

Major exporters: Qatar, Australia, Malaysia

Major importers: Far east, India Total of 573 LNG carriers on water in 2019, total capacity of 86 million cbm

Total of **524 Large** LNG carriers on water in 20191



Mainly Propane, Butane

By-product of natural gas processing and petroleum refining

#### End usages:



Power generation



Residential



Industrial



Auto-gas

Over 95 MT total seaborne exports in 2018

Major exporters: **US and Middle East** 

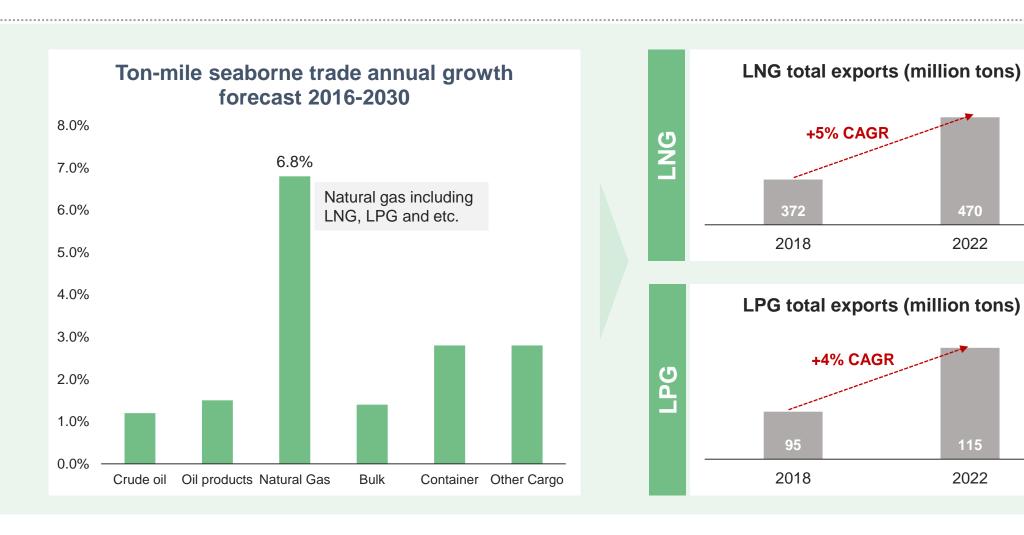
Major importers: Far east, India, SEA Total of 1450 LPG carriers on water in 2019, total capacity of 34 million cbm

Including 279 VLGC<sup>2</sup>

BW LPG owns controls 49 VLGC and LGC, >15% total market share



## Natural gas ton-mile demand is estimated to grow the most to 2030



470

115

## BW LPG – Member of BW Group

Owns and operates the world's largest fleet of LPG vessels

**BW LPG** 



Today, BW LPG owns and operates the world's largest fleet of LPG vessels and continues to deliver growth and value to society and stakeholders.



World's largest owner and operator of VLGCs

Total carrying capacity of 4 Million CBM

49 Vessels Largest VLGC Fleet, 18% of total market share

**\$2 billion** total assets



#### **BW OFFSHORE**



BW Offshore is a leading global provider of floating production services to the oil and gas industry.



#### **HAFNIA**



World's largest fleet of product tankers.



#### **DHT Holdings**



BW Group is the largest shareholder in DHT Holdings.

DHT owns one of the world's largest VLCC fleets.



#### **BW LNG**



BW is one of the world's largest owners and operators of LNG carriers.

#### **BW DRY CARGO**



BW Dry Cargo is a leading ship-owner with a fleet of modern bulk carriers ranging from Supramax to Capesize.

#### **BW CHEMICALS**



Chemical tankers are commercially managed by WOMAR, in which BW has a 50 per cent stake.

#### **EPIC GAS**



Owns and operates a fleet of 39 modern and high quality fully pressurised gas carriers.





## W A Global Leader in Maritime LPG



Largest fleet of LPG carriers allowing for economies of scale and trading liquidity



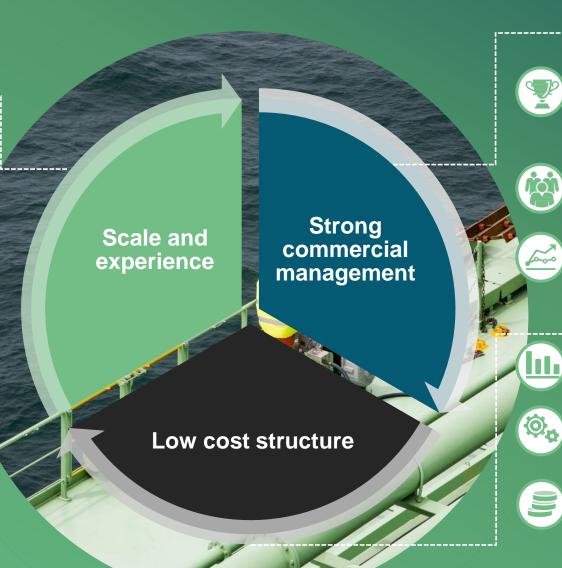
Over 40 years of operational track record and know-how



Highly experienced and disciplined management team with proven ability to navigate cyclical markets



Long term industrial strategic focus

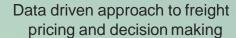




Strong brand with a long-standing reputation of providing safe, reliable and efficient LPG transportation solutions



Long-standing customer relationships





Competitive G&A levels

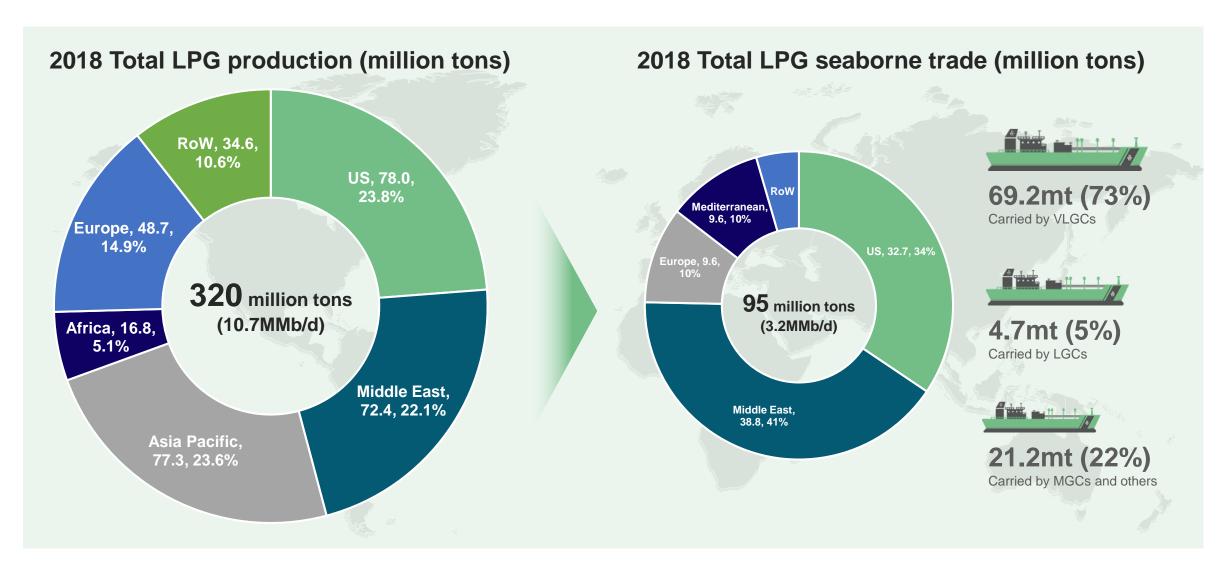
Well-maintained and efficient fleet, with low vessel Opex

Access to highly competitive financing costs, backed by a strong credit profile





## **Global LPG trade**



Source: IHS Waterborne, NGL Strategy, Kpler, BW LPG Analysis



### **VLGC Market Outlook**



#### **LPG Exports**

VLGC exports from North America are estimated to increase with strong US exports growth.

Middle East VLGC exports are estimated to decrease due to Iranian sanctions and OPEC cuts.



#### **LPG Imports**

A new wave of Propane Dehydrogenation (PDH) plants come onstream in China and South Korea in 2019.

Retail demand from emerging markets in Asia such as India and Indonesia remains strong.



#### Fleet Supply

15 more VLGCs to be delivered in the remainder of 2019 and five are expected to be recycled.

Orderbook stands at 14% of the current total VLGC fleet of 269.



#### Ton-mile

Driven by export growth in US, ton-mile demand is estimated to increase.

However, the increase in tonmile demand will be partially offset by newbuild deliveries.



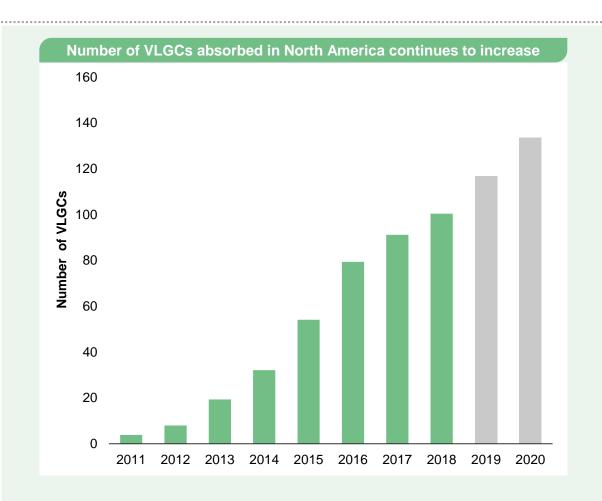
#### **Freight Rates**

VLGC rates have recovered significantly towards the end of March and current fundamentals support long-term average rates.

Rates will also depend on the development of geographical arbitrage, positioning of vessels and US terminal capacities.



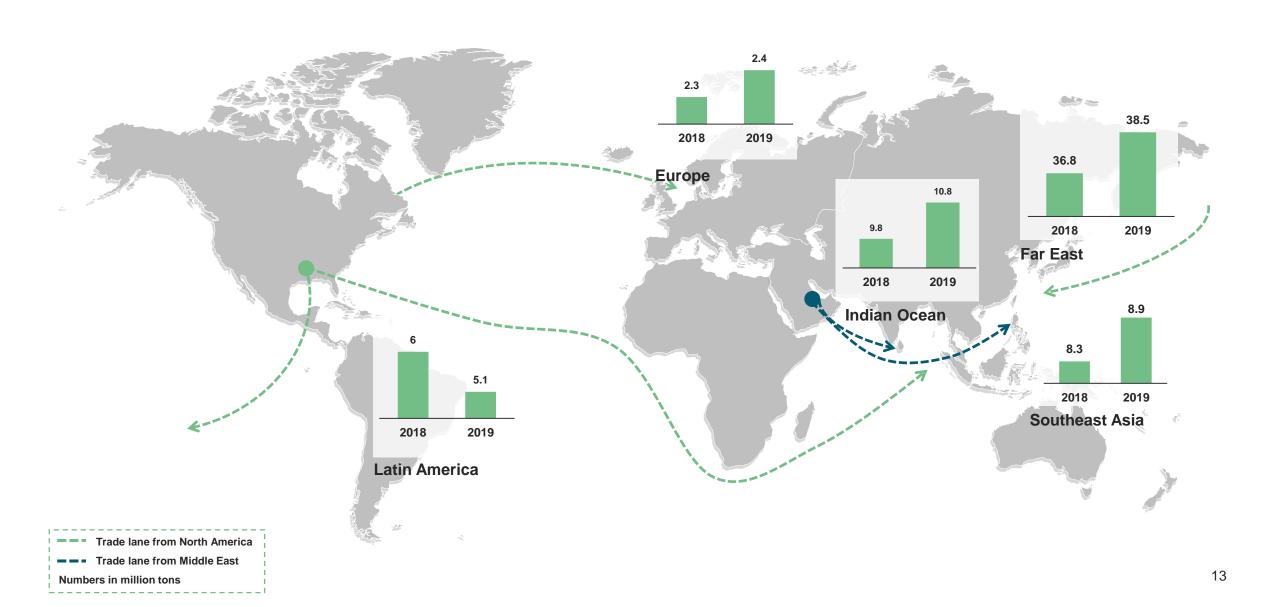
## North America LPG Export Drives VLGC Growth





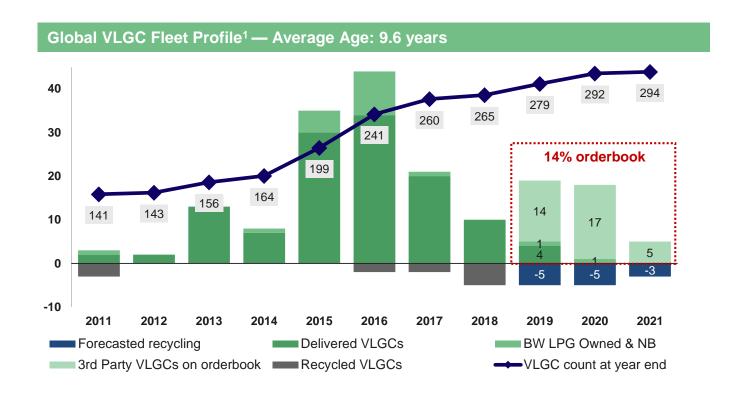


## Far East, Indian Ocean and Southeast Asia drive the import growth for LPG

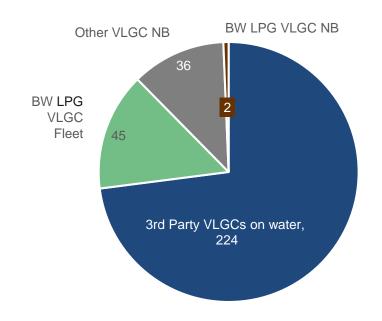




### **Global VLGC and BW LPG Fleet Profile**



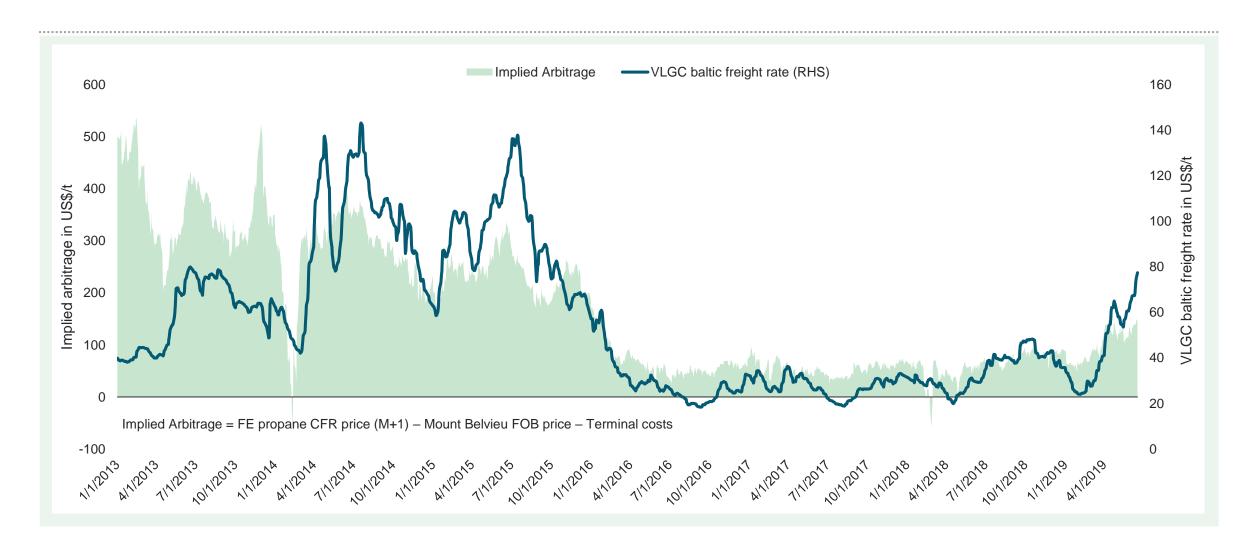
#### BW LPG VLGC Market Share<sup>2</sup> of 15%







## **VLGC** freight rate and arbitrage





## Winning the Top Line



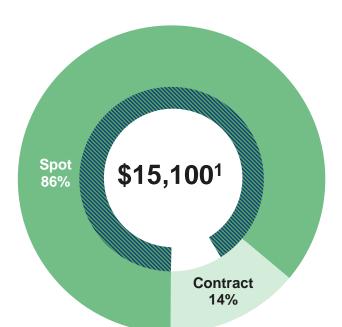
Baltic VLGC SPOT: \$13,500





Baltic VLGC SPOT: \$17,300





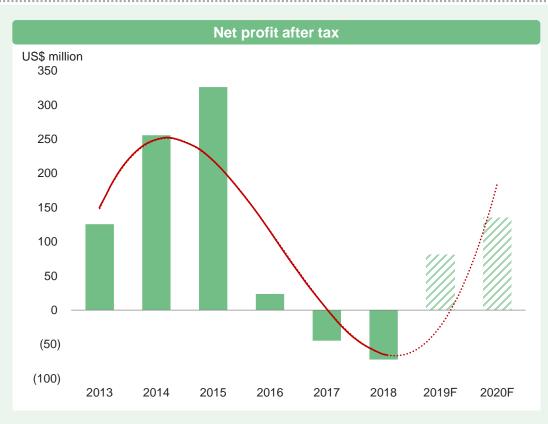
Q1 2019

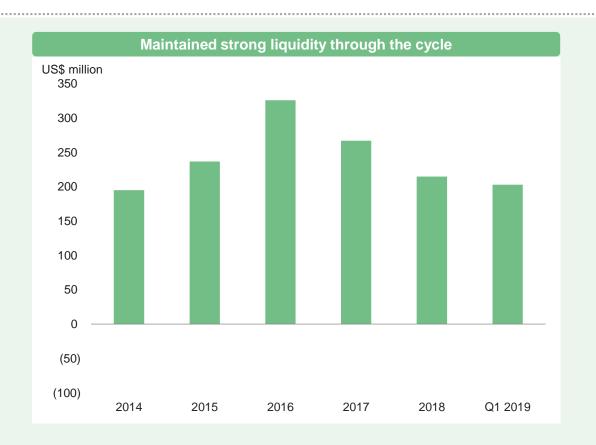
\$15,000





## Navigating through the cycle, maintaining strong liquidity



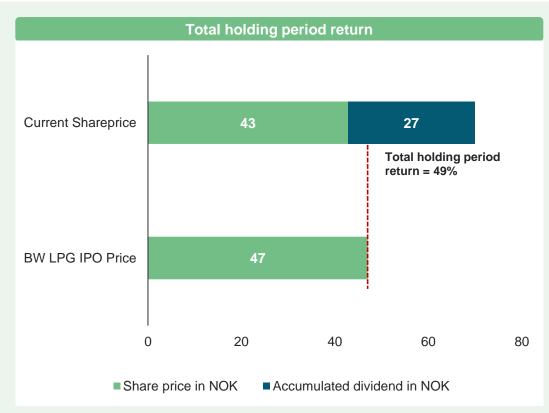


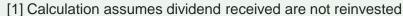
Based on BW LPG's actual results

Based on Bloomberg consensus estimates

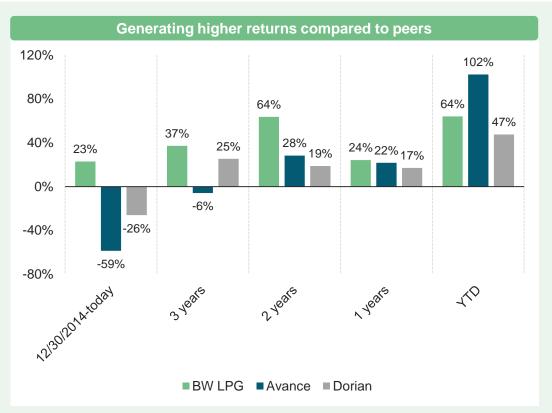
Trendline

## Preserving shareholder values through the cycle





- [2] Current Share price is based on the closing price on 17th June 2019
- [3] Both Share prices and accumulated dividends are denominated in NOK
- [4] BW LPG IPO on Oslo Bors on 21st Nov 2013

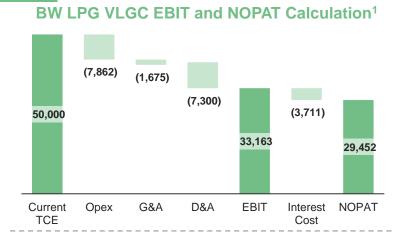


- [1] Calculation assumes dividends received are reinvested
- [2] Calculations are based on NOK currency
- [3] Today refers to the closing price on 17th June 2019

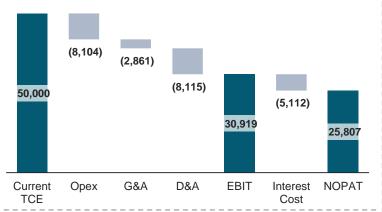
Source: Bloomberg, BW LPG Analysis



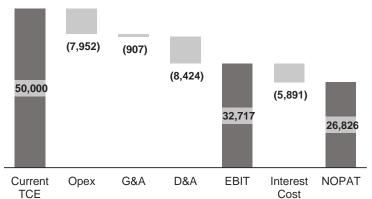
## BW LPG's fleet generates higher returns compared to peers



#### Dorian VLGC EBIT and NOPAT Calculation<sup>1</sup>



## Avance VLGC EBIT and NOPAT Calculation<sup>1</sup>



#### Asset Valuation (\$ million per VLGC)

	Total (31 Mar)	Avg. per VLGC	
Book value <sup>2</sup>	2092	60	
Debt <sup>3</sup>	1371	39	
Implied Equity value	721	21	
Implied Debt / Asset (%)		66%	
Return on Assets	Ret	Return on Equity	
20%		52%	

#### **Asset Valuation (\$ million per VLGC)**

	Total (31 Mar)	Avg. per VLGC
Book value <sup>2</sup>	1479	67
Debt <sup>3</sup>	696	32
Implied Equity value	782	36
Implied Debt / Asset (%)		47%
Return on Assets	R	eturn on Equity

#### Asset Valuation (\$ million per VLGC)

, 1000t railadii († 11111011 poi 1200)				
	Total (31 Mar)	Avg. per VLGC		
Book value <sup>2</sup>	785	56		
Debt <sup>3</sup>	512	37		
Implied Equity value	273	19		
Implied Debt / Asset (%)		65%		
Return on Assets 21%	Ret	urn on Equity 50%		

BW LPG is able to generate the highest returns due to lower Opex, lower G&A, optimal fleet age combination, optimal leverage and lower cost of debt

27%

17%

<sup>[1]</sup> BW LPG Opex, D&A and interest cost are based on Q1 2019 financials adjusted for TC-in vessels, calculated based on per owned vessel days. G&A cost is calculated based on total VLGC vessel days including TC-in VLGC vessel days.

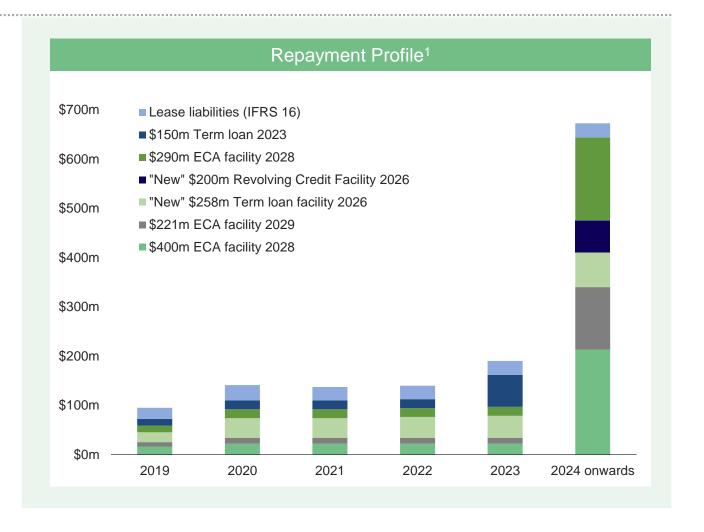
<sup>[2]</sup> BW LPG Book value is based on Q1 2019 Net PPE, adjusted for LGC book values. Dorian and Avance book values are based on Q1 2019 Net PPE

<sup>[3]</sup> Total debt is based on Q1 2019 Financials.



## **Industry leading financing**

- ✓ Competitive margins
- Solid liquidity through the cycle
- Low cash breakeven
- ✓ Next maturity in 2023







## Compliant fuel – IMO 2020 ready



"

BW LPG is prepared for IMO 2020 and is charting a sustainable future

## **Enhancing values**





LPG Propulsion

Fuel for the future



Product Services

Fully integrated product delivery



**Smart Ship** 

Innovating for the future



## BW LPG Global Pioneer in Next-Generation, High-Tech Green Ships





Reducing emission by

- ~ 97% Sulphur oxides (SOx),
- ~ 90% Particulate matters,
- ~ 25% Greenhouse gases (CO2),
- ~ 20% Nitrogen oxides (NOx).

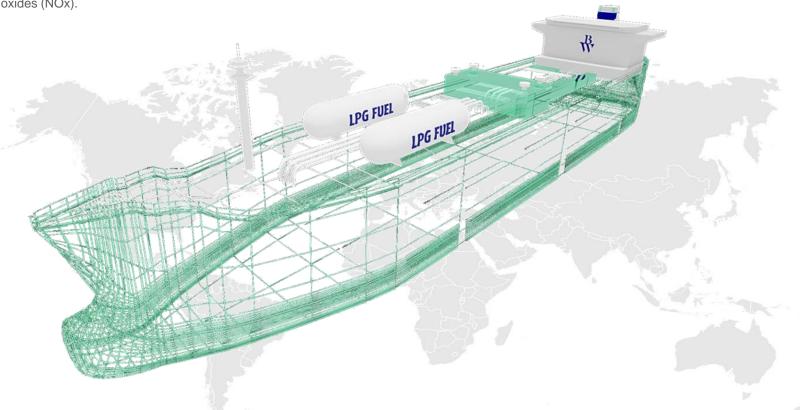


Output efficiencies will improve by ~11%



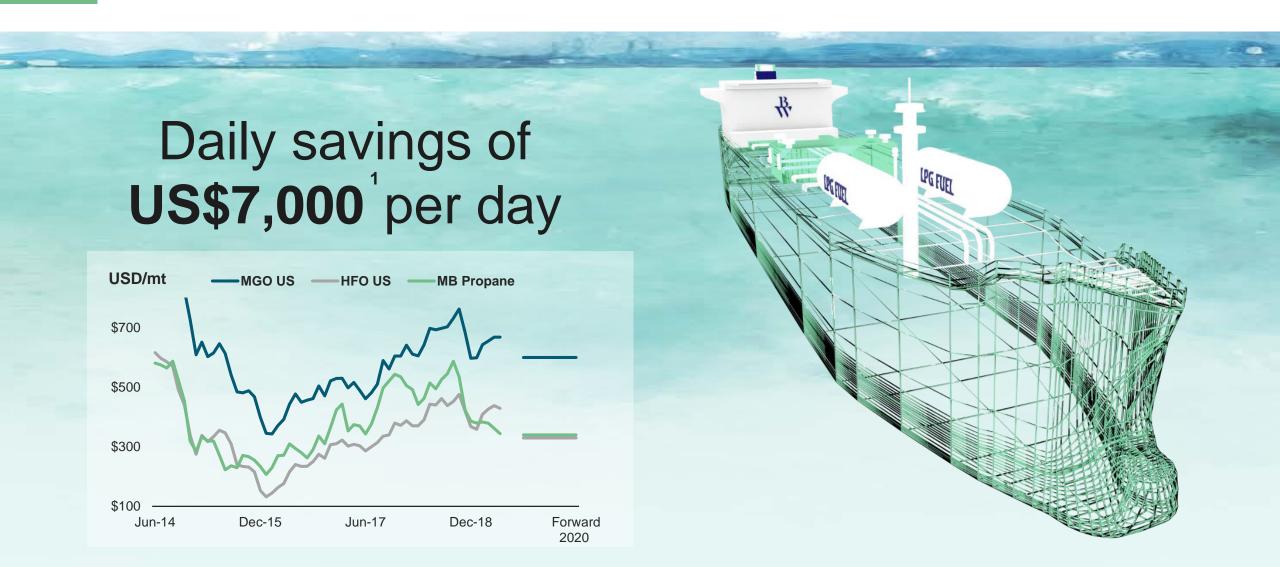


LPG propulsion
embraces a low-carbon
future and captures
"green-wave" business
opportunities





## **Cost Efficient Today & Tomorrow**







# Enhancing Our Value Proposition

Providing integrated product and shipping solutions





## **Smart ship - Embracing Innovation**

#### **Smart Ships in Action**

Aimed at turning ships into digital enterprises, the Smart Ships project connects and controls the entire ecosystem within the vessel and transmits data to a digital cloud for remote monitoring and greater business value.



#### **Key Advantages**

- ✓ Improved fuel consumption
- Enhanced operation efficiency
- ✓ Increased compliance
- ✓ Improved crew safety
- √ Lower manpower needs
- Lower OPEX expenses
- Reduced risk of collisions
- Reduced injury and cargo loss claims
- Reduced human error with greater automation









## **Corporate Social Responsibility**







# "Doing The Right Thing" Collaborative Ambitious Reliable Enduring

# Thank you

