









#### **Disclaimer**

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## OUTLINE

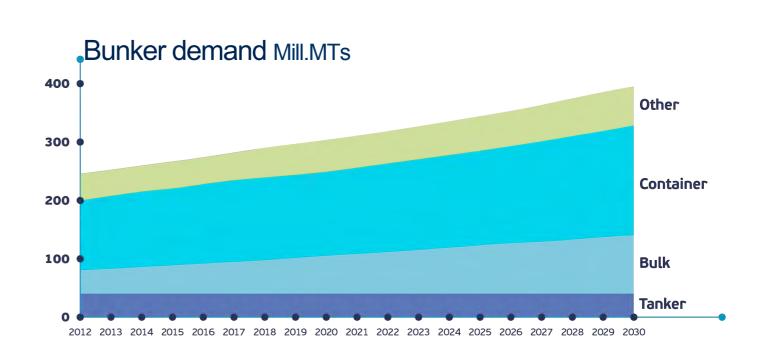
- Bunkering
- GAS LNG
- IMO Main Alternatives
   LNG
- LNG Bunkering
- probunkers Project
- Conclusion





# Business Overview - Bunkering

- A multibillion dollar industry.
- More than 250 mill MTs. sold annually.
- Estimated CAGR 2.6%
- FO / Diesel ratio: 80% / 20%

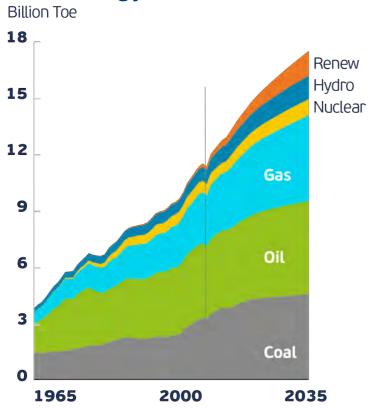




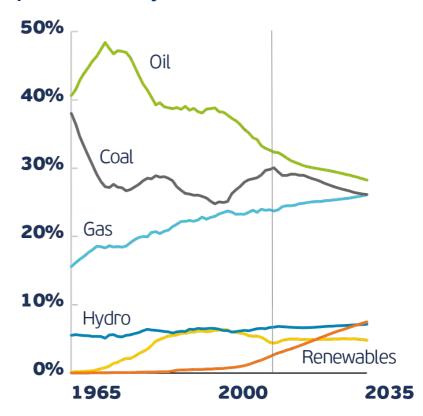


### **Business Overview - Gas**

- Natural Gas is the fastest growing fuel type 1.9% p.a
- Gas gains share steadily, while Oil share falls in energy demand



- By 2035 Coal-Oil-Gas will have a 26-28% share of primary energy
- 1/3 of the increase in energy demand is provided by Gas



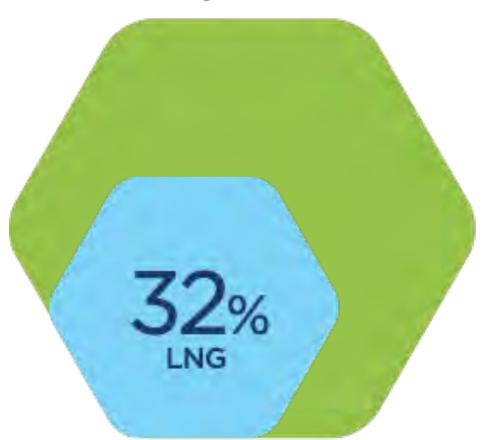


Source: BP Energy Outlook 2035



## **Business Overview – LNG**

Internationally Traded Natural Gas



Source: Sea/LNG

#### **Global Gas Consumption**



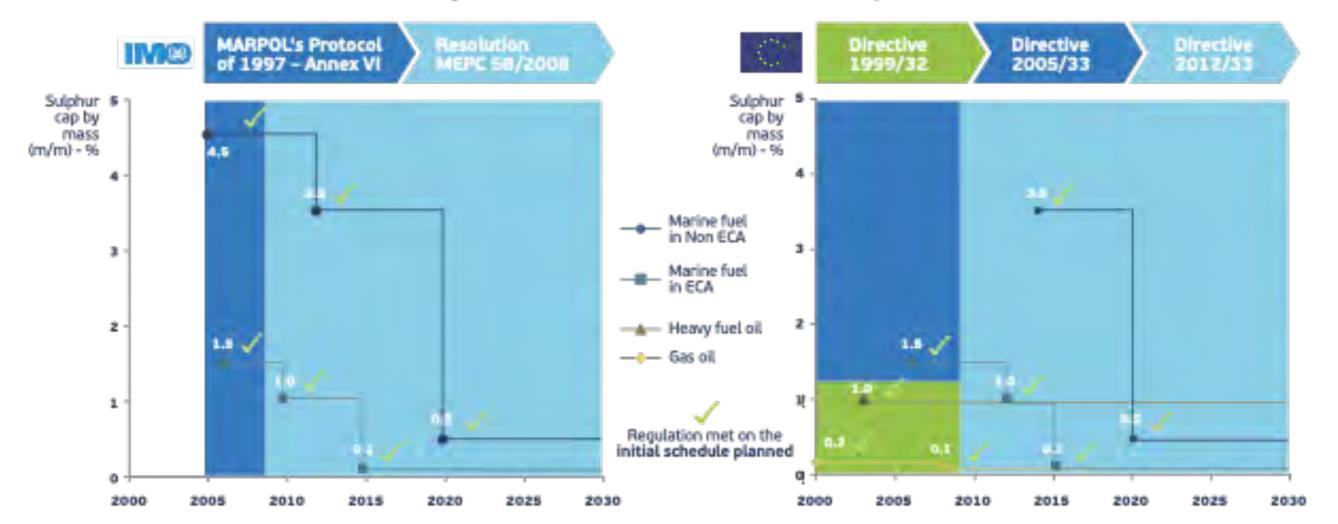




#### **Current Status**

#### International Maritime Organization

#### European Union



Source: IMO,EUROPEAN PARLIAMENT





- Low Sulphur FuelOil (LSFO) <0.5%</li>
- Distillate Fuel Oil MGO or MDO
- Exhaust Gas Cleaning Systems Scrubbers
- Other Energy sources:
  - Biodiesel
  - Solar
  - Wind
  - LNG







- Low Sulphur FuelOil (LSFO) <0.5%</li>
  - Business as usual
  - CapEx & process taken care off
  - World wide availability
  - Price







- Distillate Fuel Oil, MGO or MDO
  - Business as usual
  - Existing infrastructure
  - Product availability
  - Price







- Exhaust Gas Cleaning Systems Scrubbers
  - Product Availability
  - Low product cost
  - Maintenance and CapEx
  - Vessel Impact







- Alternative Energy Sources
  - Environmental Compliance
  - Low OpEx
  - Unproven efficiency
  - Unknown cost







- LNG
  - Environmental Compliance
  - Low OpEx and Product price
  - Infrastructure
  - Investment







# LNG advantages - Environment

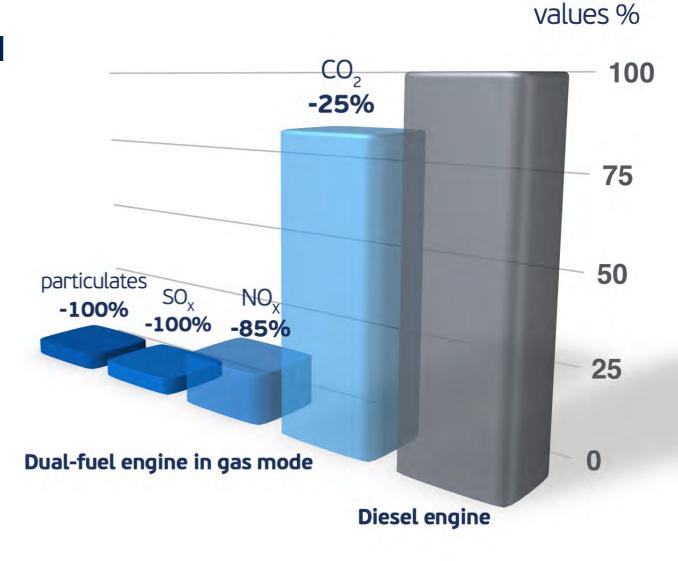
 LNG has significant environmental advantages with regards to:

Nox: 85% lower emissions

Sox: Virtually no emissions

PM: Virtually no emissions

CO2: 25% lower emissions





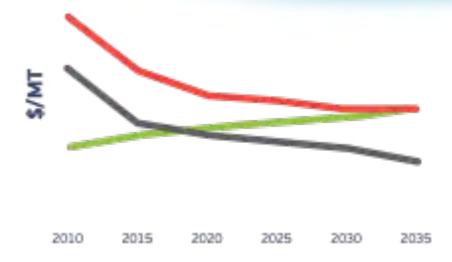


# LNG advantages - Price

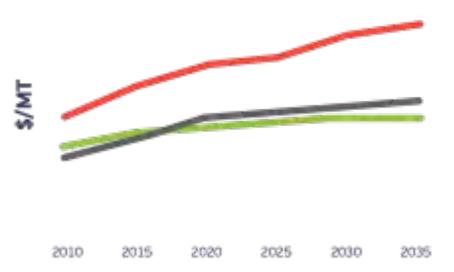
- LNG is the most economic option
- Historical low prices



#### Low Price Projections 2010-2035



#### High Price Projections 2010-2035







# LNG advantages

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OpEx	2	
CapEx	1	
Product availability	4	
Enviroment: Impact/Regulations	4	
Price	3	4
Infrastructure	1	
Ship impact	1	
	16	1

LSF0 <0.5%	Distillates	Scrubbers	LNG
2	2	3	1
1	2	3	4
4	2	1	2
4	3	3	1
3	4	1	2
1	1	2	4
1	1	4	2
16	15	17	16

1=Best, 4=Worst





# LNG advantages + probunkers

	LSF0 < 0.5%	Distillates	Scrubbers	LNG
OpEx	2	2	3	1
CapEx	1	2	3	4
Product availability	4	2	1	2
Enviroment: Impact/Regulations	4	3	3	1
Price	3	4	1	2
Infrastructure	1	1	2	2
Ship impact	1	1	4	2
	16	15	17	14

1=Best, 4=Worst





Is there a firm business case for LNG as a marine fuel?



Source: LNG Bunkering summit survey 2019

What do you feel to be the greatest hurdle for LNG?



#### Do you feel that LNG will become a widespread fuel for ships?



summit survey



- LNG Bunkering is an increasing activity
- Each Vessel has its own design and there are no standards
- LNG Bunkering and conventional fuels Bunkering are somehow similar but with different requirements
- SAFETY is FIRST



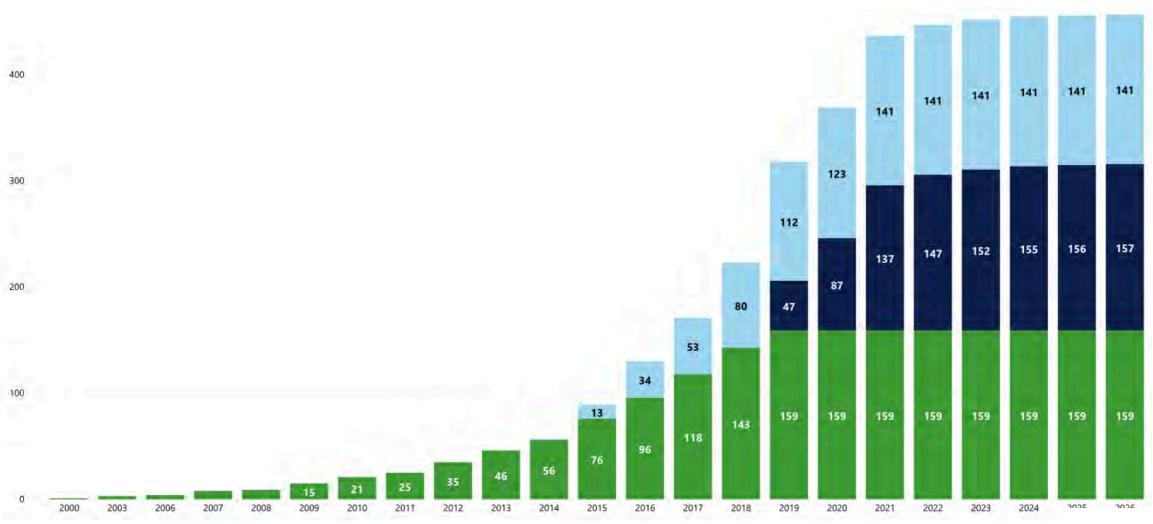




Source: DNV.GL AFI portal













#### LNG on the news

- More and more articles
- Large % of the shipping stories
- A lot of talk



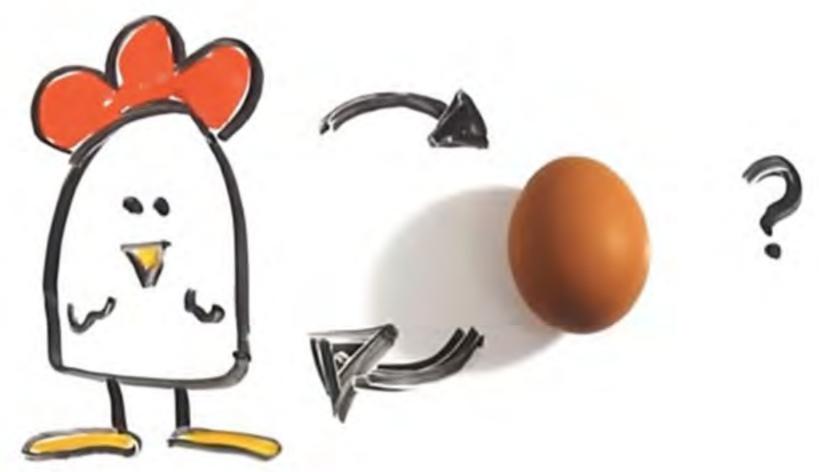
private



**SHORTSEA 2019** 



# **LNG Dilemma**







# **Project Overview**

- Global LNG bunkering
- Establish an LNG global supply company
- Design, build and operate LNG bunkering vessels

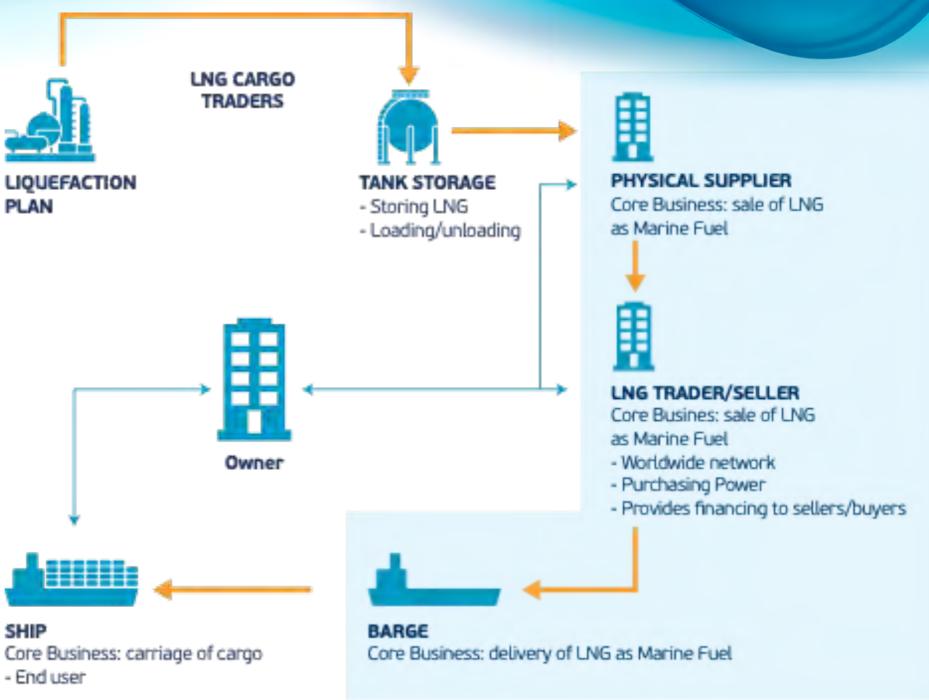
Physical LNG bunker supply in 7 key ports











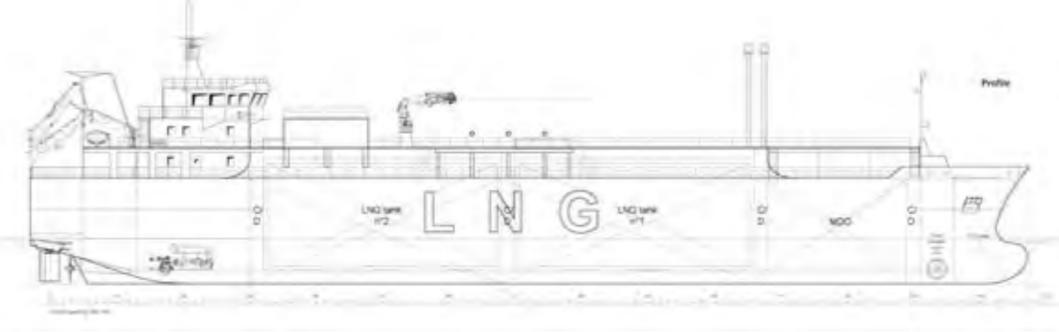




# Design & Build LNG supply vessels

- Unique fleet
- Modern fleet
- Dual purpose

- State of the art
  - Full monitoring systems
  - Eco friendly



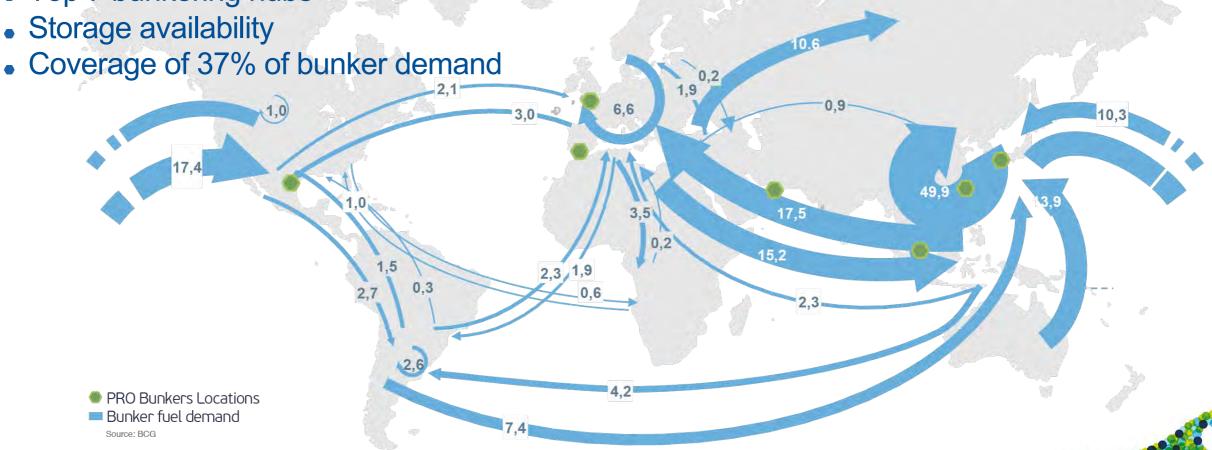


## Locations



- Top 7 bunkering hubs
- Storage availability





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# Dzięki Obrigado Merci Tack, Grazie EUXOPLOTU Ngiyabonga Dank U Thank you Gracias Jauren Danke



